

WÜRTH

Total Range catalog 2023/2024



NUMERIC

1/2 inch cardan joint	1451,1490,1504-1507,1509-1510
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 **WÜRTH**

SMP
KLEBEDICHTSTOFF
SPRINT

SMP ADHESIVE
SEALANT SPRINT

SMP MASTIC
ADHÉSIF SPRINT

SMP SIGILLANTE
ADESIVO SPRINT

SMP LUJMKIT SPRINT

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The processing data are recommendations based on our tests and experience; prior to each application, own tests must be carried out. Due to the multitude of applications as well as storage and processing conditions, we do not assume any warranty for a certain processing result. Insofar as our free customer service provides technical information or acts in an advisory capacity, this is done to the exclusion of any liability, unless the advice or information is part of our owed, contractually agreed scope of services or the advisor acted intentionally. We guarantee constant quality of our products, we reserve the right to make technical changes and further developments. Please note the technical data sheet!



Neutral silicone Perfect

Low-emission, highly adhesive and versatile sealant for expansion joints in indoor and outdoor areas. Specially designed for window glazing and sanitary applications

- The silicone sealant is MEKO-free and is therefore classified as low-emission and environmentally friendly and has been awarded the EMICODE EC1 Plus label
- Meets the requirements for window glazing in accordance with DIN 18545, Part 2, Sealant Group E
- Excellent adhesion to wood, metals and many plastics

Meets the requirements of DIN EN 15651 Parts 1/2/3 Sealants for façade elements/glazing/sanitary joints

- Fire behaviour: Class E
- Stability under load: < 3 mm
- Volume loss: < 10%
- Adhesion/expansion under pre-stress after being immersed in water: Passed
- Adhesion/expansion on exposure to heat, water and artificial light: Passed
- Elastic recovery: ≥ 70%
- Tensile stress value for tensile behaviour: < 0.4 MPa

Chemical basis	Neutral crosslinked silicones, oxime-based
Min. skin-formation time	10 min
Continuous motion absorption	25 %
Shore A hardness	28
Ultraviolet resistance	Yes
Min./max. temperature resistance	-40 to 180 °C
Min./max. processing temperature	5 to 40 °C

Full curing speed/conditions	2 mm/d/23 °C and 50% relative humidity
Shelf life from production	18 Month

Container	Density	Contents	Colour	Art. no.	P. Qty.
Bag	1.04 g/cm ³	300 ml	Transparent	0892 512 1	20
Bag	1.04 g/cm ³	600 ml	Transparent	0892 511 1	20
Bag	1.26 g/cm ³	300 ml	White	0892 512 2	20
Bag	1.26 g/cm ³	600 ml	Anthracite	0892 511 15	20
Bag	1.26 g/cm ³	600 ml	Black	0892 511 12	20
Bag	1.26 g/cm ³	600 ml	Concrete grey	0892 511 14	20
Bag	1.26 g/cm ³	600 ml	White	0892 511 2	20
Cartridge	1.04 g/cm ³	310 ml	Transparent	0892 510 1	1/24
Cartridge	1.26 g/cm ³	310 ml	Anthracite	0892 510 18	1/24
Cartridge	1.26 g/cm ³	310 ml	Bahama beige	0892 510 10	1/24
Cartridge	1.26 g/cm ³	310 ml	Black	0892 510 12	1/24
Cartridge	1.26 g/cm ³	310 ml	Brilliant white	0892 510 17	1/24
Cartridge	1.26 g/cm ³	310 ml	Brown	0892 510 7	1/24
Cartridge	1.26 g/cm ³	310 ml	Concrete grey	0892 510 4	1/24
Cartridge	1.26 g/cm ³	310 ml	Copper beech, Cherry	0892 510 9	1/24
Cartridge	1.26 g/cm ³	310 ml	Dark brown	0892 510 6	1/24
Cartridge	1.26 g/cm ³	310 ml	Hornbeam, Spruce, medium	0892 510 16	1/24
Cartridge	1.26 g/cm ³	310 ml	Light ivory	0892 510 11	1/24
Cartridge	1.26 g/cm ³	310 ml	Manhattan	0892 510 3	1/24
Cartridge	1.26 g/cm ³	310 ml	Oak	0892 510 8	1/24
Cartridge	1.26 g/cm ³	310 ml	Silk grey	0892 510 5	1/24
Cartridge	1.26 g/cm ³	310 ml	White	0892 510 2	1/24

Please consider the legal instruction at the beginning of this chapter.

Neutral silicone

For floor and wall joints subject to medium stresses

- Adhesion to all building-related surfaces
- Resistant to ageing, weathering and UV
- Permanently elastic
- Compatible with paint

Chemical basis	Neutral crosslinked silicones, oxime-based
Min. skin-formation time	5 min
Continuous motion absorption	25 %
Min./max. skin-formation time/ conditions	5-8 min/at 23 °C and 50% relative humidity
Ultraviolet resistance	Yes
Min./max. temperature resistance	-40 to 150 °C
Min./max. processing temperature	5 to 40 °C
Full curing speed/conditions	2 mm/d/23 °C and 50% relative humidity
Shelf life from production	12 Month



Continuation **Neutral silicone**

Container	Density	Contents	Colour	Shore A hardness	Art. no.	P. Qty.
Bag	0.98 g/cm ³	300 ml	Transparent	15	0892 532 1	20
Bag	0.98 g/cm ³	600 ml	Transparent	15	0892 531 1	20
Bag	1.24 g/cm ³	600 ml	Concrete grey	30	0892 531 4	20
Bag	1.24 g/cm ³	600 ml	White	30	0892 531 2	20
Cartridge	0.98 g/cm ³	310 ml	Transparent	15	0892 530 1	24
Cartridge	1.24 g/cm ³	310 ml	Bahama beige	30	0892 530 10	24
Cartridge	1.24 g/cm ³	310 ml	Beech	30	0892 530 9	24
Cartridge	1.24 g/cm ³	310 ml	Black	30	0892 530 12	24
Cartridge	1.24 g/cm ³	310 ml	Concrete grey	30	0892 530 4	24
Cartridge	1.24 g/cm ³	310 ml	Manhattan	30	0892 530 3	24
Cartridge	1.24 g/cm ³	310 ml	Oak	30	0892 530 8	24
Cartridge	1.24 g/cm ³	310 ml	White	30	0892 530 2	24

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with EN 15651 Part 1 INT

- Fire behaviour: Class E
- Stability under load: < 3 mm
- Volume loss: < 20%
- Adhesion/expansion under pre-stress after immersion in water: Passed
- Adhesion/expansion at different temperatures: Passed
- Adhesion/expansion after exposure to heat, water and artificial light: Passed
- Tensile behaviour: Breaking elongation at 23 °C: > 25%



The colour display is for guidance only. For an exact colour selection, please use our colour sample cards.

Neutral silicone is not suitable for adhesive bonding or filling hollow spaces. Complies with building material class B2 in accordance with DIN 4102. Due to the large number of varnish and glazing formulations available, especially on alkyd resin paints and powder-coated aluminium, always carry out your own tests on the area first. Risk of yellowing on contact with white alkyd resin paints cannot be excluded. When hardening, neutral silicone gives off an odour typical of silicone. This odour can no longer be smelled once the hardening process is complete.

For materials and substances that come into contact with the sealant after processing, the user must ensure that their content or fumes cannot cause any impairment or alteration (e.g. discolouration) of the sealant joint. To determine the precise colour, use sample card art. no. 5995000402

No bag tips, art. no. 0891601001, are provided with the 600 ml bags. These must be ordered separately.

Silicone acetate

For tile joints with medium stresses, for indoor and outdoor use.

Broad range of uses

Excellent adhesion to a broad range of substrates, especially also on glazed surfaces

Highly resistant

Resistant to ageing, weathering and UV

Permanently elastic

Can be painted

Chemical basis	Sauer silicones (acetate systems)
Continuous motion absorption	12.5 %



Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-40 to 120 °C
Min./max. full curing speed/conditions	2-3 mm/d/23°C and 50% relative humidity

Container	Contents	Colour	Art. no.	P. Qty.
Bag	600 ml	Transparent	0892 571 1	20
Cartridge	310 ml	Black	0892 570 5	24
Cartridge	310 ml	Concrete grey	0892 570 4	24
Cartridge	310 ml	Manhattan	0892 570 3	24
Cartridge	310 ml	Oak	0892 570 6	24
Cartridge	310 ml	Transparent	0892 570 1	24
Cartridge	310 ml	White	0892 570 2	24

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with EN 15651 Part 1

- Fire behaviour: Class E
- Stability under load: ≤ 3 mm
- Volume loss: $\leq 2.5\%$
- Tensile behaviour under pre-stress and immersion in water: NF
- Durability: Passed



The colour display is for guidance only. For an exact colour selection, please use our colour sample cards.

Silicone acetate is not suitable for bonding or filling cavities. Due to the large number of varnish and glazing formulations available, especially on alkyd resin paints and powder-coated aluminium, always carry out your own tests on the area first. Risk of yellowing on contact with white alkyd resin paints cannot be excluded. Risk of corrosion when used on bare iron and non-ferrous metals.

For materials and substances that come into contact with the sealant after processing, the user must ensure that their content or fumes cannot cause any impairment or alteration (e.g. discolouration) of the sealant joint. To determine the precise colour, use sample card art. no. 5995000406

No bag tips, art. no. 0891601001, are provided with the 600-ml bags. These must be ordered separately.

High-temperature silicone

Special sealant for joints subject to high temperatures

- Temperature resistant up to +250°C, short term (max. 1.5 h) up to +300°C
- High resistance to large number of chemicals
- Resistant to ageing and UV

Contents	310 ml
Container	Cartridge
Colour	Red brown
Chemical basis	Sauer silicones (acetate systems)
Continuous motion absorption	20 %
Min. breaking elongation	350 %
Min./max. temperature resistance	-50 to 250 °C



Continuation **High-temperature silicone**

Max. short-term temperature resistance	300 °C
Min./max. processing temperature	5 to 40 °C

Art. no. 0892 330

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Classified in accordance with DIN 4102 B2 - normal flammability (in cured state).

Colour silicone

High-quality multifunctional sealant in individual RAL colours

- Available in individual RAL colour tones
- Suitable for sanitation applications
- Large adhesive spectrum
- No plasticisers, therefore compatible with natural stone
- Permanently elastic
- UV-resistant
- Can be painted
- Weather-resistant
- Building material class B2 to DIN 4102



Contents	310 ml
Container	Cartridge
Chemical basis	Neutral crosslinked silicones, oxime-based
Continuous motion absorption	25 %
Min./max. skin-formation time/conditions	10-15 min/at 23 °C and 50% relative humidity
Min. processing temperature	5 °C
Max. processing temperature	40 °C

Art. no. 0892 580 0

P. Qty.: 12

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with DIN EN 15651 Part 1/Part 3

- Fire behaviour: Class E
- Stability under load: ≤ 3 mm
- Volume loss: $\leq 10\%$
- Adhesion/expansion under pre-stress after being immersed in water: no performance requirement specified
- Tensile behaviour for use in cold climatic zones at -30°C : ≤ 0.9 MPa
- Tensile behaviour in cold climatic zones: no performance requirement specified
- Durability: Passed
- Microbiological growth: 2



Colour options:

All RAL colours in accordance with the RAL colour card, art. no. 0705 800 010, are available. All neon and metallic colours are excluded. Attention! Colour silicone is a special product tailored for customers. For production reasons, minor fluctuations in the colour may occur. This is not a product defect. It is not possible to exchange the products. Carry out colour matching with existing material prior to application.

Your procedure for obtaining individually produced special silicone colours:

1. Record the article number 08925800.
2. Select the desired RAL colour based on the RAL colour card (art. no. 0705 800 010) and specify the RAL number. Colour specification in the system is always carried out with the RAL no. in the order-related text.

Attention: Neon and metallic colours cannot be produced for technical reasons (RAL no.: 1026, 2005, 2007, 3024, 3026)

3. Specify the quantity. This must always be a multiple of the packing unit 12.
4. Order is sent and conveyed to Production.
5. Production of the customised colour silicone in the desired RAL colour for the customer. Colour silicone is a special product tailored for customers. For production reasons, minor fluctuations in the colour may occur. This is not a product defect. It is not possible to exchange the products. Carry out colour matching with existing material prior to application.
6. You receive your colour silicone produced in your customised colour after 10 working days

*The adequacy of the sealant in sanitation applications depends on the moisture load and the ventilation properties.

Cannot be painted or plastered. Not suitable for use underwater or in aquariums. Does not adhere to PP, PE, PTFE or bitumen. Colour silicone is not suitable for bonding or filling cavities. Due to the large number of existing paint and glazing formulas, especially on alkyd resin paints and powder-coated aluminium, it is necessary to perform your own tests to check adhesion. Risk of yellowing on contact with white alkyd resin paints cannot be excluded

Silicone acetate bathroom unit

Special sealant for tiling and wet rooms

- Excellent adhesion to tiles
- Permanently elastic
- Building material class B2 according to DIN 4102
- Fungicidal. Sealant protects itself against mould and algae

Container	Cartridge
Contents	310 ml
Chemical basis	Sauer silicones (acetate systems)
Continuous motion absorption	25 %
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-40 to 100 °C
Min./max. full curing speed/conditions	3-3 mm/d/23°C and 50% relative humidity



Colour	Art. no.	P. Qty.
Anthracite	0892 560 13	1/12
Bahama beige	0892 560 4	1/12
Black	0892 560 15	1/12
Caramel	0892 560 14	1/12
Chinchilla	0892 560 7	1/12
Concrete grey	0892 560 5	1/12
Edelweiss	0892 560 2	1/12
Jasmine	0892 560 9	1/12
Manhattan	0892 560 3	1/12
Pergamon	0892 560 12	1/12
Sanitary grey	0892 560 6	1/12
Silver grey	0892 560 0	1/12

Continuation **Silicone acetate bathroom unit**

Colour	Art. no.	P. Qty.
Tile white	0892 560 8	1/12
Transparent	0892 560 1	1/12

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with EN 15651 Parts 1, 2, 3

- Fire behaviour: Class E
- Stability under load: < 2 mm
- Resetting properties: > 70%
- Volume loss: < 10%, for art. no. 0892 215: < 20%
- Adhesion/expansion on exposure to heat, water and artificial light: Passed
- Durability: Passed
- Tensile properties at -30°C: < 0.9 MPa
- Tensile behaviour under pre-stress at -30°C: Passed



The colour display is for guidance only. For an exact colour selection, please use our colour sample cards.

Silicone acetate for wet rooms is not suitable for adhesive bonding or filling cavities. Complies with building material class B2 in accordance with DIN 4102. Can be used around swimming pools, but not in swimming pools.

Due to the large number of existing paint systems, you should conduct your own tests to check compatibility with paint. Risk of yellowing on contact with white alkyd resin paints cannot be excluded. Risk of corrosion when used on bare iron and non-ferrous metals.

For materials and substances that come into contact with the sealant after processing, the user must ensure that their content or fumes cannot cause any impairment or alteration (e.g. discolouration) of the sealant joint. To determine the precise colour, use sample card art. no. 5995000405

Silicone has a tendency to discolour in dark areas where there is no UV exposure. Avoid contact with VKP tape.

- ¹⁾ Functionality in sanitation applications depends on the moisture load and the ventilation properties.
- ²⁾ The ten-year warranty applies exclusively to product properties relating to weathering, UV and ageing resistance, and colour fastness. Functionality cannot be guaranteed as this is dependent on proper application.
- ³⁾ Different polycarbonate types require adhesion and compatibility tests prior to application. Stress cracks can appear in particular when applying on cutting edge.

Food-grade silicone acetate

Special, high-quality sealant for sealing in food processing and drinking water sector, as well as for aquarium construction

- Meets the requirements of NSF/ANSI Standard 61
- Adhesion to a range of substrates present in the food processing sector
- Good smoothing properties
- High degree of resistance to chemicals
- Building material class B2 according to DIN 4102

Container	Cartridge
Contents	310 ml
Chemical basis	Sauer silicones (acetate systems)



Continuous motion absorption	25 %
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-40 to 180 °C
Min./max. full curing speed/conditions	2-3 mm/d/23°C and 50% relative humidity

Colour	Art. no.	P. Qty.
Gold, Copper coloured	0892 550 3	1/12
Silver coloured, Stainless steel coloured	0892 550 4	1/12
Transparent	0892 550 1	1/12
White	0892 550 2	1/12

Please consider the legal instruction at the beginning of this chapter.



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

Due to the large number of existing paint systems, you should conduct your own tests to check compatibility with paint. Risk of yellowing on contact with white alkyd resin paints cannot be excluded. Not suitable for non-ferrous metals and metals without corrosion protection. Food-grade silicone acetate is not suitable for bonding or filling cavities.

Silicone has a tendency to discolour in dark areas where there is no UV exposure.

Due to various colour definitions, we recommend using the colour chart, art. no. 5995000406, to ensure precise colour-matching.

*This 10-year warranty applies exclusively to product properties relating to weathering, UV and ageing resistance and colour fastness. Functionality cannot be guaranteed as this is dependent on proper application.

**Due to the various types of stainless steel, we recommend you carry out preliminary testing.

Silicone acetate, crystal clear

Crystal-clear sealant for joints in glass, display window and display case construction

- Highly transparent
- Permanently elastic

Container	Cartridge
Contents	310 ml
Chemical basis	Sauer silicones (acetate systems)
Colour	Crystal clear
Continuous motion absorption	12.5 %
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-40 to 150 °C
Min./max. full curing speed/conditions	2-3 mm/d/23°C and 50% relative humidity



Continuation **Silicone acetate, crystal clear**

Art. no. 0892 215

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Use of a smoothing agent may cause the silicone to become cloudy.

For further information regarding application, please refer to the Würth Online Catalogue under „General notes on processing sealants“

Colour chart, sealants

True colour chart for shade selection

Color chart for	Silicone acetate bathroom unit
Length	21 cm
Height	30 cm

Art. no. 5995 000 405

P. Qty.: 1



Silicone residue remover

For removing cured and fresh silicone sealants

- Extremely thorough for completely silicone-free surfaces
- Can be removed very quickly and conveniently
- Neutral odour
- Excellent material compatibility

Contents	300 ml
Container	Cartridge
Smell/fragrance	Characteristic
Chemical basis	Mix of organic solvents
Shelf life from production	24 Month

Art. no. 0890 500

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Not suitable for use with façade and natural stone sealant, or with acrylic and PU sealants. Do not bring into contact with polyamide (nylon) or natural stone. Preliminary tests required on paintwork and porous substrates.



Silicone primer

Universal primer for improving adhesion of silicone sealants on absorbent and non-absorbent surfaces

Chemical basis	2-propanol
Density	0.81 g/cm ³
Colour	Colourless
Smell/fragrance	Alcohol
Container	Can
Contents	250 ml
Viscosity/consistency	Liquid
Min. flash-off time	30 min
Shelf life from production	12 Month



Art. no. 0892 170

P. Qty.: 1/6

- Apply a thin coat of the silicone primer and allow it to flash off for 30–45 minutes.
- With absorbent surfaces, the surface should be pre-primed in an additional 1 or 2 steps.
- Not suitable for underwater use.

Sealant smoothing agent

Universal smoothing agent suitable for all types of sealants

- Easy to apply from the aerosol can
- Uniform cross-linking of surface hardens the sealant joint quicker
- By moistening the sealant and then scraping the joint, the joint surface becomes more flexible and smoother.

Chemical basis	Anionic tenside
Density	1 g/cm ³
Silicone-free	Yes
Min./max. processing temperature	0 to 40 °C



Colour	Smell/fragrance	Contents	Container	Shelf life from production	Art. no.	P. Qty.
Colourless	Odourless	5 l	Canister	24 Month	0893 3	1
Light yellow	Faint odour	400 ml	Can	18 Month	0893 003	1/12

Please consider the legal instruction at the beginning of this chapter.

Joining steel parts can lead to corrosion if the sealant smoothing agent is used.

Caution: Discoloured edges or surfaces may begin to show on absorbent surfaces. To prevent streaking, remove excess smoothing agent from the glass shortly after application. When applying to natural stone, excess smoothing agent should be rinsed away with clean water before drying to avoid stains forming.

Hold the can at an angle during application to ensure that the riser tube is below the surface of the liquid. Holding the can level for too long will result in the can only half emptying.

Joint smoother

Geometric shape with angled edges

Material	Plastic
Colour	White
Length	80 mm
Width	10 mm



Art. no. 0891 181

P. Qty.: 5

Joint smoother Uni

Slim shape and high flexibility

- Broad range of applications
- Flexible working
- Precise application in a variety of usages

Material	Plastic
Colour	Red
Length	95 mm
Width	5 mm



Included in delivery (Lieferumfang)	Design	Art. no.	P. Qty.
Angle 5 6 8 10 90°; radius 3	Angular	0891 184 003	1/12
Radii 4 6 8 10 12 14	Round	0891 184 004	1/12

Joint smoother Plus

Can be used in six different ways for any jointing task

Fits perfectly in your hand

Comfortable size makes it easy to use. In addition, no bead forms while scraping, allowing seamless scraping.

Material	Plastic
Colour	White
Length	70 mm
Width	5 mm



Art. no. 0891 182

P. Qty.: 1

SMP sealant

Special sealant for sealing self-cleaning glass

- Tested safety for window glazing
- Approval for self-cleaning glass
- Suitable for double glazing of insulating and laminated safety glass panes
- Can be painted/compatible with paint
- UV and weathering resistant
- Odourless
- Silicone-free
- Building material class B2 to DIN 4102



Chemical basis	MS polymer
Continuous motion absorption	25 %
Contents	290 ml
Container	Cartridge
Smell/fragrance	Neutral
Full curing speed	2 mm/d
Fully hardening/curing conditions	23°C and 50% relative humidity
Min./max. skin-formation time	10-15 min
Conditions for skin-formation time	at 23°C and 50% relative humidity
Min./max. temperature resistance	-40 to 90 °C
Silicone-free	Yes
Ultraviolet resistance	Yes
Recoatable/Can be painted over	Yes
Building material class	B2 - Normally inflammable
Building material class conditions	in accordance with DIN 4102

Colour	Art. no.	P. Qty.
Black	0893 350 803	1/12
White	0893 350 801	1/12

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with DIN EN 15651 Part 1/Part 2

- Fire behaviour: Class E
- Stability under load: ≤ 3 mm
- Volume loss: $\leq 10\%$
- Adhesion/expansion under pre-stress after immersion in water: No failure
- Elastic recovery: $\geq 60\%$
- Tensile behaviour under pre-stress at -30°C: No failure



Ventilation duct sealant

Odourless, elastic and ecologically safe special sealant

- Odourless
No unpleasant odours for users and the environment.
- Elastic
Absorbs material stretching over the long term, thereby preventing joint cracks effectively.
- Ageing and weather-resistant

Contents	310 ml
Container	Cartridge
Colour	Grey
Chemical basis	Acrylic resin dispersion
Continuous motion absorption	10 %
Full curing speed	3 mm/d
Fully hardening/curing conditions	23 °C and 50% relative humidity
Min. skin-formation time	10 min
Conditions for skin-formation time	at 23 °C and 50% relative humidity
Min. temperature resistance	-40 °C
Max. temperature resistance	80 °C
Min. processing temperature	5 °C
Max. processing temperature	50 °C
Resistance against	Aging, Citric acid (10%), Disinfectants, Chlorine solution (5%), Acetic acid (5%), Formaldehyde (30%), Isopropyl alcohol, Saline solution, Caustic soda, Soapsuds (20%), Water, Hydrogen peroxide (10%), Weather



Art. no. 0892 325 1

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Ventilation duct sealant Hybrid

Ready-to-use, hybrid polymer-based single-component sealant

- Quick to harden
- Metallic surface effect
- Quick and simple to use
- Silicone-free, UV-resistant, age-resistant and weather-resistant
- Does not contain any substances that impair paint adhesion
- No primer required
- Short-term temperature resistance max. +100 °C to max. 1 h

Contents	310 ml
Container	Cartridge



Colour	Grey
Chemical basis	Hybrid polymer
Continuous motion absorption	20 %
Full curing speed	2.5 mm/d
Fully hardening/curing conditions	23 °C and 50% relative humidity
Min. skin-formation time	10 min
Conditions for skin-formation time	at 23 °C and 50% relative humidity
Min. temperature resistance	-40 °C
Max. temperature resistance	80 °C
Max. short-term temperature resistance	100 °C
Min. processing temperature	5 °C
Max. processing temperature	40 °C
Resistance against	Aging, Weather, Water, Formaldehyde (30%), Acetic acid (5%), Isopropyl alcohol, Chlorine solution (5%), Hydrogen peroxide (10%), Soapsuds (20%), Disinfectants, Caustic soda (50%), Citric acid (10%), Formic acid (25%), Ethyl alcohol, Washing-up liquid, Saline solution (25%), Laundry detergent, Methanol, Edible fats, Lactic acid

Art. no. 0892 325 3

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Resistant to various substances on request. Please observe the „General Notes on Application for Sealants“ overview sheet.

The sealant must not be continually exposed to fluid media. The persistent accumulation of fluid substances above the joint must be prevented in the system construction.

Acrylic sealant

For sealing indoor joints with low absorption of movements.

- Can be coated/plastered over with commercially available paints/plasters applied to sealant
- Wide range of applications for joints indoors subject to less stretching.
- Silicone-free
- Resistant to ageing, weathering and UV

Colour	White
Chemical basis	Acrylic resin dispersion
Continuous motion absorption	5 %
Min. skin-formation time	10 min
Conditions for skin-formation time	at 23 °C and 50% relative humidity
Silicone-free	Yes
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-20 to 80 °C
Recoatable/Can be painted over	Yes



Continuation **Acrylic sealant**

Contents	Container	Art. no.	P. Qty.
310 ml	Cartridge	0892 165	1/24
600 ml	Bag	0892 169 1	20

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with EN 15651 Part 1

- Fire behaviour: Class E
- Stability under load: $\leq 5\%$
- Volume loss: $\leq 45\%$
- Tensile behaviour after immersion in water (at 23°C), ductile: $\geq 25\%$
- Durability: Passed

Building material class B2 in accordance with DIN 4102



Due to the wide variety of paint and lacquer formulas available, we recommend that you always carry out preliminary testing in order to rule out any interactions. Caution: Sealant joints that have been fully painted over tend to crack when movement occurs in the joint, as the applied paint is generally less elastic than the sealant.

The 600 ml bags are packed with 6 bag tips, art. no. 0891601001.

Acrylic

Special acrylic sealant that minimises formation of cracks and discolouration of emulsion paints at the joint.

- Can be plastered/painted over with high-quality emulsion paints in just a few hours
- Minimises the risk of crack formation and discolouration of the applied emulsion paint
- Age, weather, and UV-resistant
- Plastoelastic
- Silicone-free, solvent-free, and phthalate-free



Chemical basis	Polyacrylic dispersion
Colour	White
Continuous motion absorption	7.5 %
Smell/fragrance	Odourless
Min. skin-formation time	10 min
Min./max. processing temperature	5 to 40 °C
Recoatable/Can be painted over	After completely through drying

Container	Contents	Art. no.	P. Qty.
Bag	600 ml	0892 161 002	20
Cartridge	310 ml	0892 161 001	1/24

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with EN 15651 Part 1

- Fire behaviour: Class E
- Release of chemicals hazardous to health or the environment: See safety data sheet
- Stability under load: $\leq 3\text{mm}$
- Volume loss: $\leq 25\%$
- Adhesion/expansion under pre-stress after being immersed in water: $\geq 25\%$
- Durability: Passed



The setting speed depends on the processing temperature, the weather conditions and the surface moisture. The speed is greatly delayed in cold, damp weather. The joint must be protected at least 5 hours before rain. Not suitable for PE, PP, PMMA, PTFE, neoprene and bitumen substrates.

Parquet acrylic

For sealing indoor parquet joints

Flexibility

High absorption of movements.

Sanding

During subsequent sanding work on parquet, parquet acrylic can be sanded without damaging the sealant.

Painting over

Once hardened, can be treated and painted with commercially available parquet sealing products (preliminary testing is required).

Silicone-free



Contents	310 ml
Container	Cartridge
Continuous motion absorption	10 %
Min. skin-formation time	10 min
Min./max. temperature resistance	-25 to 80 °C
Min./max. processing temperature	5 to 40 °C
Min. final strength	28 d
Can be sanded after	10 d

Colour	Art. no.	P. Qty.
Ash, bright	0892 171 2	1/12
Beech, light	0892 171 1	1/12
Maple, Birch	0892 171 0	1/12
Oak	0892 171 3	1/12
Walnut	0892 171 6	1/12

Please consider the legal instruction at the beginning of this chapter.

The colour display is for guidance only. For an exact colour selection, please use our colour sample cards.

Textured acrylic

Particularly suitable for repairing cracks and damage in structured or textured plaster, both indoors and outdoors

- Fine-grained structure
- Can be painted over with emulsion paints
- Resistant to UV and ageing



Container	Cartridge
Contents	310 ml
Chemical basis	Acrylate dispersion
Colour	White
Continuous motion absorption	5 %
Smell/fragrance	Odourless
Min. skin-formation time	5 min
Min./max. processing temperature	5 to 40 °C
Recoatible/Can be painted over	Yes

Art. no. 0892 160 500

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with EN 15651 Part 1

- Fire behaviour: Class E
- Stability under load: ≤ 3 mm
- Volume loss: $\leq 25\%$
- Tensile behaviour after immersion in water at 23 °C (ductile): $\geq 25\%$
- Durability: Passed



Attention:

Due to the wide variety of paint and lacquer formulas available, we recommend that you always carry out preliminary testing in order to rule out any interactions. Caution: Sealant joints that have been fully painted over tend to crack when movement occurs in the joint, as the applied paint is generally less elastic than the sealant.

Not suitable for bitumen, civil engineering and underwater joining, on silicate substrates or joints that can be walked or driven on.

Painter's acrylic

High-quality acrylic sealant for window sealing inside and other internal and external expansion joints

- Can be painted/plastered
- Highly elastic
- Resistant to ageing, weathering and UV

Chemical basis	Acrylic resin dispersion
Continuous motion absorption	20 %
Smell/fragrance	Characteristic
Min. skin-formation time	10 min
Min./max. processing temperature	5 to 40 °C
Recoatable/Can be painted over	Yes



Container	Contents	Colour	Art. no.	P. Qty.
Bag	300 ml	White	0892 162 1	20
Bag	600 ml	White	0892 163 1	20
Cartridge	310 ml	Black	0892 161 4	1/24
Cartridge	310 ml	Brown	0892 161 2	1/24
Cartridge	310 ml	Grey	0892 161 3	1/24
Cartridge	310 ml	White	0892 161 1	1/24

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with EN 15651 Part 1

- Fire behaviour: Class E
- Stability under load: ≤ 3 mm
- Volume loss: $\leq 25\%$
- Tensile behaviour after immersion in water (at 23 °C), ductile: $\geq 100\%$
- Durability: Passed



The setting speed depends on the processing temperature, the weather conditions, the depth and width of the joint, and the substrate moisture. Drying mostly occurs from the surface into the depth of the joint, and is slower with increasing joint depth. The speed is greatly delayed in cold, damp weather. In warmer weather, in which the relative humidity can reach 100%, no skin formation or hardening occurs. This is because in acrylates, a concentration gradient must be specified as a prerequisite. Standing water should be prevented in the acrylic joint as this can lead to erosion. For vertical joints, please observe the run-off behaviour of the sealant. For vertical joints, please observe the run-off behaviour of the sealant.

Do not use on corrosion-sensitive substrates.

The 600 ml bags are packed with 6 bag tips, art. no. 0891601001.

Floor joint sealant

Single-component, solvent-free PU sealant for high-stress joints, both indoors and outdoors. Hazard label not required.



Approved for use with foodstuffs (ISEGA certificate)

Elastic

- Compensates different material expansions
- Dampens vibrations and noise

Colour	Grey
Contents	600 ml
Chemical basis	Single component polyurethane
Continuous motion absorption	20 %
Min. processing temperature	5 °C
Max. processing temperature	40 °C
Min. skin-formation time	65 min
Conditions for skin-formation time	at 23°C and 50% relative humidity

Art. no. 0892 351 200

P. Qty.: 20

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with EN 15651 Part 4

- Fire behaviour: Class E
- Resistance to tearing: Passed
- Volume loss: ≤ 10%
- Tensile behaviour under pre-stress: Passed

Adhesion/expansion after being immersed in water for 28 days:

- Passed
- Adhesion/expansion after being immersed in salt water for 28 days: Passed
- Tensile behaviour under pre-stress at -30 °C: Passed
- Durability: Passed



Window and façade-tight

Sealing of connection and expansion joints indoors and outdoors

- Good adhesion even without primer on most surfaces even if damp
- Non-corrosive, suitable for many alkaline and metallic surfaces
- Free of isocyanates, solvents, phthalates, tin and silicone

Chemical basis	Silane modified polymer
Continuous motion absorption	25 %
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-40 to 90 °C
Ultraviolet resistance	Yes



Recoatble/Can be painted over	Yes
Shelf life from production	18 Month

Contents	Colour	Art. no.	P. Qty.
290 ml	White	0892 320 010	1/24
290 ml	Grey	0892 320 011	1/24
290 ml	Light grey	0892 320 012	1/24
290 ml	Anthracite	0892 320 013	1/24
600 ml	White	0892 320 020	20
600 ml	Grey	0892 320 021	20
600 ml	Light grey	0892 320 022	20

Please consider the legal instruction at the beginning of this chapter.

- DIN EN 15651 – 1/4 Sealants for façade elements/pedestrian walkways
- GEV-EMICODE EC 1 PLUS



The sealant should be painted over within the first 3 days after sufficient skin formation. Subsequent application of paint may cause adhesion problems. Due to the large number of paint systems, preliminary tests are required before painting over. Paints often have a lower elasticity than sealants, which can lead to cracking. Alkyd resin paints can cause drying problems. Risk of yellowing on contact with white alkyd resin paints cannot be excluded. As a general rule, in line with DIN 52452 Part 4, sealants should not be painted over. Preliminary tests are required, especially with easily damageable natural stone, such as Jura and Carrara marble. Remove excess smoothing agent from surfaces. Not suitable for use in floor joints for traffic routes. Pre-treat surfaces if necessary.

Natural stone sealant 4 in 1

Versatile, natural stone-compatible silicone sealant for indoors and outdoors, even in food-related areas

- **Low emission and odour, therefore MEKO-free**
- Permanently elastic once hardened
- Very good processability and smoothing
- Suitable for many alkaline and metallic surfaces as not corrosive

Contents	310 ml
Chemical basis	Oxime-curing sealant
Continuous motion absorption	25 %
Min./max. processing temperature	+5 to +40 °C
Min./max. temperature resistance	-40 to +220 °C



Colour	Art. no.	P. Qty.
Anthracite	0893 351 008	1/24
Bahama beige	0893 351 005	1/24
Black	0893 351 007	1/24
Light grey, structured	0893 351 020	1/24
Manhattan	0893 351 003	1/24
Sand red, structured	0893 351 022	1/24
Sanitary grey	0893 351 004	1/24
Stainless steel coloured	0893 351 009	1/24
Thistle grey, structured	0893 351 021	1/24

Continuation **Natural stone sealant 4 in 1**

Colour	Art. no.	P. Qty.
Transparent	0893 351 000	1/24
White	0893 351 001	1/24

Please consider the legal instruction at the beginning of this chapter.

- Fire behaviour in accordance with DIN EN 13501: Class E
- DIN EN 15651 - 1/2/3/4 Sealants for façade elements/glazing/sanitary joints/pedestrian walkways
- GEV-EMICODE EC 1 PLUS
- VDI 6022 „Room ventilation, room air quality“
- ISEGA tested for food preparation areas



Avoid contact with bitumen, tar or plasticiser-emitting materials (EPDM, APTK, NEOPRENE, butyl, insulating coatings and foams) as this may cause incompatibilities.

Furnace putty 1000

Solvent-free 1-component sealing compound with optimum heat resistance, high degree of strength and excellent adhesion to metal surfaces.

- Ready to use, can be pressed out easily with a cartridge gun
- Storage temperature below 0 °C (approx. -5 °C) possible
- Silicone-free



Chemical basis	Water glass luting with mineral fillers
Contents	310 ml
Container	Cartridge
Max. temperature resistance	1000 °C
Density	2.21 g/cm³
Colour	Cast grey
Smell/fragrance	Neutral
Viscosity/consistency	Pasty
Long-term elasticity	Virtually no elasticity
Shrinkage	Minimal
Full curing speed	1 mm/d
Water-soluble	Not readily soluble in water
Min./max. temperature resistance	-5 to 1000 °C
Min./max. processing temperature	5 to 30 °C
Resistance against	Fats, Household cleaning products, Oil, Flue gases and their condensates
Shelf life from production	12 Month
Conditions to maintain shelf life from production	in sealed cartridge, max. 30 °C

Art. no. 0893 290 0

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

The putty is not elastic once it has dried.

Sealant RKD-Flex

Duroplastic sealant for sealing cable and pipe openings in areas in contact with the ground.

- Ready to apply
- Permanently plastic
- Pasty consistency
- Good adhesion to dry and damp surfaces

Contents	310 ml
Chemical basis	Polyolefin
Colour	Grey
Viscosity/consistency	Pasty
Min./max. processing temperature	5 to 35 °C
Max. temperature resistance	50 °C

Art. no. 0892 350 310

P. Qty.: 6

Please consider the legal instruction at the beginning of this chapter.

The ratio of the sealant to the diameter ratio of the opening should not fall below 1.5 to 1. The maximum opening diameter should not exceed 300 mm. Consumption is approx. 1.6 kg/l cavity. Surfaces can be dry, damp or wet, but must be free from grease, tar and oil.



Sealant Seal Flex

High-quality sealant for sealing in sloped and flat roof areas

- Excellent adhesion to bitumen strips
- Can be used on damp surfaces
- Suitable for virtually all heavily loaded joints in the roof area
- Can be painted over

Contents	310 ml
Container	Cartridge
Chemical basis	Synthetic rubber
Smell/fragrance	Characteristic
Continuous motion absorption	25 %
Resistance against	Aging, Weather
Min./max. skin-formation time	3-8 min
Conditions for skin-formation time	at 23 °C and 50% relative humidity
Min. processing temperature	5 °C
Max. processing temperature	40 °C
Silicone-free	Yes



Colour	Art. no.	P. Qty.
Black	0892 322 5	1/24
Grey	0892 322 3	1/24
Transparent	0892 322 1	1/24
White	0892 322 2	1/24

Please consider the legal instruction at the beginning of this chapter.

Continuation **Sealant Seal Flex**

- 1. To achieve sufficient adhesion on anodised aluminium, prime the surface using AdhesionPlus primer for plastic/wood/stone or a silicon primer. Adhesion to aluminium is only achieved once the Seal Flex is completely cured. Depending on the thickness applied, this can take several days up to 2 weeks.
- 2. When sealing the transparent, white and grey colour versions in contact with bitumen, prime the surface using AdhesionPlus primer for plastic/wood/stone.
- 3. To improve adhesion and avoid clouding on polycarbonate glass/Plexiglas, we recommend using silicone primer.

Full adhesion is only achieved once the Seal Flex is completely cured. Adhesion may be reduced when the product is used in standing water. Not suitable for sealing glass.

Bitumen sealant

For sealing joints between bitumen strips

Excellent adhesion to bitumen strips

Very secure sealing of roof sheeting and roofing cardboard

Good adhesion to damp substrates

- Use largely unaffected by the weather
- Suitable for emergency repairs

Contents	310 ml
Container	Cartridge
Chemical basis	Bitumen
Colour	Black
Continuous motion absorption	10 %
Min. skin-formation time	30 min
Conditions for skin-formation time	at 23°C and 50% relative humidity
Min. processing temperature	1 °C
Max. processing temperature	30 °C



Art. no. 0890 103 100

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Repairs performed in damp conditions must be checked when dry

1C liquid plastic Easy

Fibre-reinforced, solvent-free liquid sealing for hard-to-reach areas

- Single-component liquid plastic is ready for application immediately after mixing
- This eliminates the need to incorporate the fleece inlay and enables fast, safe processing
- Partial amounts can be removed so that remaining material does not need to be disposed of



Weight of content	7 kg
Chemical basis	Polyurethane
Colour	Grey
Suitable for further processing up to	24 h
Min./max. processing temperature	5 to 35 °C
Able to withstand rain after	60 min
Max. temperature resistance	80 °C
Shelf life from production	12 Month

Art. no. 0838 892 500

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Application only by consultation and agreement with building owner. The product should be considered only as a special solution. The certification in accordance with ETAG 005 and the general construction test certificates are not available for 1C liquid plastic Easy.

1C liquid plastic Pro

Single-component solvent-free liquid plastic for standard sealing for use in odour-sensitive areas

- Solvent and isocyanate-free
- UV-resistant
- Rainproof after approx. 60 min

Fire protection

- $B_{ROOF}(t1)$; $B_{ROOF}(t2)$; $B_{ROOF}(t3)$; $B_{ROOF}(t4)$ to DIN EN 13501-5
- Class E to DIN EN 13501-1



Chemical basis	Polyurethane
Suitable for further processing up to	24 h
Min./max. processing temperature	5 to 35 °C
Able to withstand rain after	60 min
Max. temperature resistance	80 °C
Shelf life from production	12 Month

Continuation 1C liquid plastic Pro

Weight of content	Colour	Art. no.	P. Qty.
7 kg	Light grey (bright grey)	0838 892 551	1
7 kg	Traffic grey B RAL 7043	0838 892 553	1
14 kg	Light grey (bright grey)	0838 892 550	1
14 kg	Traffic grey B RAL 7043	0838 892 554	1

Please consider the legal instruction at the beginning of this chapter.

- ETAG 005: ETA – 17/0284. Guideline for the European Technical Approval for liquid roof seals
- General test certificates from construction authorities for sealing buildings indoors and outdoors as well as for use on surfaces inclined at up to 90°.
- DIN 18531 Sealing of roofs and balconies
- DIN 18532 Sealing of traffic areas
- DIN 18533 Sealing of components in contact with the ground
- DIN 18535 Sealing of containers and basins

Can be used on almost all surfaces without primer – even on wet concrete no primer is required (see substrate table, technical data sheet)

Authoritative directive in Germany

- Building Regulation List A, Part 2, No. 2.52, unused roof surfaces. The minimum layer thickness of 1.8 mm according to abP must be strictly adhered to.
- In accordance with the Building Regulation List, for roofs with a pitch less than 2% a minimum layer thickness of 2.0 mm must be adhered to.
- For processing 1C LIQUID PLASTIC Pro, it is also necessary to use the WÜRTH fleece (110 g/m²).

1C liquid plastic primer Special

Solvent-based 1-component primer for FPO, TPO and EPDM roof membranes

- Short drying time

Contents	400 ml
Chemical basis	Polyolefin
Viscosity/consistency	Liquid
Solvent-free	No
Min./max. processing temperature	5 to 35 °C
Min/max. application quantity in weight/area	40-80 g/m²
Can be further processed after min.	20 min
Further processing conditions	at 20°C



Art. no. 0838 892 557

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

The ventilation time is delayed for temperatures below 20°C.

1C flat roof seal fleece inlay, roll

For processing the 1C flat roof seal Pro.

Material	Polyester fibre
Coating weight per m ²	110 g



Width	Length	Art. no.	P. Qty.
15 cm	50 m	0838 892 580	1
20 cm	50 m	0838 892 581	1
26.25 cm	5 m	0838 892 579	1
26.25 cm	50 m	0838 892 582	1
35 cm	50 m	0838 892 583	1
52.5 cm	50 m	0838 892 584	1
70 cm	50 m	0838 892 585	1

1-component bitumen-latex thick coating

Polystyrene-filled, plastic-modified, one-component bitumen-latex thick coating

- Good for bridging cracks
- Brush on, spray or use a spatula
- Ready for use
- The hardened coating will not rot and is resistant to all common chemicals in the soil.
- Solvent-free



Weight of content	21 kg
Chemical basis	Polystyrene- and plastic-filled bituminous emulsion
Colour	Black
Min./max. processing temperature	5 to 35 °C
Min./max. surface processing temperature	5 to 30 °C
Max. temperature resistance	70 °C
Building material class	B2 - Normally inflammable
Shelf life from production	6 Month

Art. no. 0893 212 115

P. Qty.: 6/8/10/18

Please consider the legal instruction at the beginning of this chapter.



The minimum processing temperature is +5°C. It is essential that the effects of rain and frost and water stresses are prevented until both coats have completely dried. Direct sunlight should be avoided. Ideally, surfaces not to be coated (e.g. in an area to be subsequently plastered) should be covered, as the bitumen compound cannot be removed without leaving residue. During application, it is recommended that you wear personal protective equipment (safety goggles, art. no. 0892 102 ff./gloves, art. no. 0899 435 ff.).

2-component bitumen-latex thick coating

Polystyrene-free, rubber-modified, fibre-reinforced, two-component bitumen-latex thick coating

- Meets the slot pressure test criteria
- Applied layer thickness is permanent and cannot be as strongly compressed as polystyrene-filled systems
- Permanently elastic, durable in crack-prone areas
- Suitable for bonding wall insulation panels, even in areas in contact with the ground
- Quickly becomes rainproof, quick setting
- Brush on, spray or use a spatula
- Solvent-free
- Radon-proof



Weight of content	28 kg
Chemical basis	Natural rubber-modified bituminous emulsion with reactive powder
Colour	Black
Max. working life	60 min
Min. curing time	24 h
Max. curing time	72 h
Min./max. processing temperature	5 to 35 °C
Min./max. surface processing temperature	5 to 30 °C
Max. temperature resistance	70 °C
Building material class	B2 - Normally inflammable
Shelf life from production	6 Month

Art. no. 0893 212 120

P. Qty.: 6/8/10/18

Please consider the legal instruction at the beginning of this chapter.

Radon-proof according to Radio Ökologisches Institut Keller



2-component cement-based sealing

Polystyrene-free, bitumen-free, two-component cement/plastic-based surface sealing.

- Solid surface, resulting in mechanical and chemical protection of walkable concrete surfaces
- Quick and definite to set, resulting in fast progress of work
- No blistering on warm surfaces
- Excellent friction adhesion to mineral surfaces, high degree of functionality
- Bitumen-free and polystyrene-free
- Remains permanently flexible and bridges cracks, thereby guaranteeing a high degree of functionality
- Resistant to all standard chemically aggressive substances found in floors, as well as diluted acids and caustics that attack concrete
- Solvent-free



Weight of content	26.4 kg
Chemical basis	Mineral mixture with polymers added
Colour	Light beige
Max. working life	2 h
Min./max. processing temperature	5 to 35 °C
Min./max. surface processing temperature	5 to 30 °C
Shelf life from production	12 Month

Art. no. 0893 212 125

P. Qty.: 6/18

Please consider the legal instruction at the beginning of this chapter.

Certified radon-proof by Radio Ökologisches Institut Keller



The minimum application temperature is +5°C. It is essential that the effects of rain and frost and water stresses are prevented until both coats have completely dried. In the event of prolonged exposure to sunlight, discolouration cannot be ruled out and should therefore be avoided. Not for use in horizontal silos, biogas plants and similar systems. Not suitable for sealing against backwards flowing water and for sealing roofs. During application, it is recommended that you wear personal protective equipment (safety goggles, art. no. 0892 102 ff./gloves, art. no. 0899 435 ff.). The powder component contains cement; therefore avoid contact with skin.

Repair asphalt Premium

For permanent repairs of potholes and damaged areas on roads of all stress classes

Quick application

- No priming necessary
- Direct application possible
- Immediate traffic approval
- Can be covered with hot tarmac
- Suitable for water protection zones 2 + 3



Continuation **Repair asphalt Premium**

Weight of content	25 kg
Chemical basis	Bitumen
Colour	Black
Min./max. processing temperature	10 to 20 °C
Min./max. ambient processing temperature	-20 to 40 °C
Shelf life from production	12 Month

Grid size	Min./max. material thickness	Art. no.	P. Qty.
0-5	15-35 mm	0890 368	1
0-3	10-25 mm	0890 360 000	1

Please consider the legal instruction at the beginning of this chapter.

Observe the minimum thickness depending on the grain size. Not suitable for asphalt work over large areas. Premium repair asphalt is slow-hardening and dependent on the ambient temperature and degree of compaction.

Repair layer

For simple repairs to small and large surfaces, both indoors and out

Silicone-based

- Retains long-term elasticity even in extreme weather conditions and does not become brittle
- UV and weathering resistant
- Solvent-free

Crack-bridging

Easy to process and clean

Bitumen-compatible



Chemical basis	Neutral silicones, water-based
Colour	Grey
Min. skin-formation time	30 min
Full curing speed	2 mm/d
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-50 to 150 °C
Min./max. application quantity in volume/area	1-3 l/m²
Shelf life from production	18 Month

Contents	Art. no.	P. Qty.
0.75 l	0893 350 810	1/8
4 l	0893 350 820	2

Please consider the legal instruction at the beginning of this chapter.

Not suitable for area continuously exposed to water (e.g. fountains, cisterns).

Waterproofing system primer coat

Surface pre-treatment under bituminous and cement-based building waterproofing systems

- Can be used on saline and problematic surfaces
- Can be used on surfaces in old and new buildings
- Penetrates surfaces well
- Ready for use, fast-drying
- Solvent-free



Contents	10 l
Chemical basis	Polymer/silicate
Min./max. surface processing temperature	5 to 30 °C
Min./max. processing temperature	5 to 30 °C
Application quantity in weight/area	0.13 kg/m ²
Application quantity in weight/area/conditions	0.13 kg/m ² /with absorbent surfaces, e.g. aerated concrete: double coat
Shelf life from production/conditions	12 Month/cool and frost-free storage
Colour	Transparent, whitish
Container	Canister
Product weight (per item)	10457 g

Art. no. 0893 212 100

P. Qty.: 1/60

Please consider the legal instruction at the beginning of this chapter.



Glass surfaces (windows or similar) must be protected from contact with the building waterproofing system primer coat, as contact may cause discolouration. During application, we recommend using personal protective equipment (protective goggles/gloves) occupational safety reasons. Clean with water immediately after use.

Multi-purpose torch

Including torch attachment for clean and residue-free combustion

- Excellent price-performance ratio
- Maintenance-free and space-saving
- 360° swivel without affecting function
- Flame temperature up to approx. 1000°C

Contents	300 ml
Min. processing temperature	-10 °C
Max. processing temperature	50 °C



Art. no. 0984 900 600

P. Qty.: 4

Avoid localised overheating. Adjust torch distance to the respective application.

Lining tape

For glazing on windows, doors and fixed glazing

- Compressible
- Prevents three-point adhesion
- Fills glazing rebates and reduces sealant consumption
- Acts as motion-damping section when subject to strong winds



Chemical basis	Closed-cell polyethylene foam
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Colour	Total thickness	Width	Length of roll	Art. no.	P. Qty.
Grey	2 mm	9 mm	20 m	0875 709 02	100
Grey	2 mm	12 mm	20 m	0875 712 02	100
Grey	2 mm	15 mm	20 m	0875 715 02	100
Grey	3 mm	9 mm	20 m	0875 709 03	100
Grey	3 mm	12 mm	20 m	0875 712 03	100
Grey	3 mm	15 mm	20 m	0875 715 03	100
Grey	4 mm	9 mm	20 m	0875 709 04	100
Grey	4 mm	12 mm	20 m	0875 712 04	100
Grey	4 mm	15 mm	20 m	0875 715 04	100
Grey	5 mm	9 mm	10 m	0875 709 05	100
Grey	5 mm	12 mm	10 m	0875 712 05	100
Grey	5 mm	15 mm	10 m	0875 715 05	100
White	2 mm	9 mm	20 m	0875 809 02	100
White	3 mm	9 mm	20 m	0875 809 03	100
White	3 mm	12 mm	20 m	0875 812 03	100
White	4 mm	9 mm	20 m	0875 809 04	100

Please consider the legal instruction at the beginning of this chapter.

Without cover film

Block trowel

Facilitates lifting and alignment of glazing units

Length x width x height (L x B x H)	265 x 70 x 20 mm
Colour	Red
Material	Plastic



Art. no. 0875 400

P. Qty.: 1

Glazing block

With anti-slip protection for long-lasting, professional block setting of glazing units

- Material: Polypropylene
- Ageing-resistant
- Temperature-resistant
- Optimised rib system for high load-bearing capacity
- Verified compatibility with conventional glazing sealants (based on polysulphide, polyurethane and silicone)
- An injected spring element prevents the vertical sides of the window element from slipping after block setting

Length	100 mm
Material	PP - Polypropylene

Thickness	Width	Colour	Art. no.	P. Qty.
1 mm	24 mm	White	0875 424 1	1000
2 mm	24 mm	Blue	0875 424 2	1000
3 mm	24 mm	Red	0875 424 3	1000
3 mm	26 mm	Red	0875 426 3	1000
4 mm	24 mm	Yellow	0875 424 4	1000
5 mm	24 mm	Green	0875 424 5	1000
6 mm	24 mm	Black	0875 424 6	1000
8 mm	24 mm	Grey	0875 424 8	500

Glazing packers verified as compatible with cured sealants of double glazing edge bond

- Test report 607 41481/4
- Tests carried out in line with IfT Rosenheim guideline VE 05/01 „Verified compatibility of glazing packers“ in conjunction with conventional sealants used for double glazing edge bonds based on polysulphide, polyurethane, silicone, Würth Natural Stone Sealant and Würth Glass Active Sealing Compound.

Notes on application

Glazing must be set in such a way that the glass edges are not overstrained. The glass edges must not touch the frame at any point. The installation position and number of glazing blocks should comply with glazing trade technical guideline no. 3 „Packing glazing units“.

Glazing block

For long-lasting, professional frame blocking of glazing units

- Material: Polypropylene
- Ageing-resistant
- Temperature-resistant
- Optimised rib system for high load-bearing capacity
- Verified compatibility with conventional glazing sealants (based on polysulphide, polyurethane and silicone)
- Ventilation channel for vapour pressure compensation (from 32 mm block width and 2 mm thickness upwards)

Length	100 mm
Material	PP - Polypropylene

Continuation **Glazing block**

Thickness	Width	Colour	Art. no.	P. Qty.
1 mm	20 mm	White	0875 520 1	1000
1 mm	22 mm	White	0875 522 1	1000
1 mm	24 mm	White	0875 524 1	1000
1 mm	26 mm	White	0875 526 1	1000
1 mm	28 mm	White	0875 528 1	1000
1 mm	30 mm	White	0875 530 1	1000
1 mm	32 mm	White	0875 532 1	500
1 mm	34 mm	White	0875 534 1	500
1 mm	36 mm	White	0875 536 1	500
1 mm	38 mm	White	0875 538 1	500
1 mm	40 mm	White	0875 540 1	500
1 mm	40 mm	White	0875 542 1	500
1 mm	44 mm	White	0875 544 1	500
1 mm	46 mm	White	0875 546 1	500
1 mm	48 mm	White	0875 548 1	500
1 mm	50 mm	White	0875 550 1	500
2 mm	20 mm	Blue	0875 520 2	1000
2 mm	22 mm	Blue	0875 522 2	1000
2 mm	24 mm	Blue	0875 524 2	1000
2 mm	26 mm	Blue	0875 526 2	1000
2 mm	28 mm	Blue	0875 528 2	1000
2 mm	30 mm	Blue	0875 530 2	1000
2 mm	32 mm	Blue	0875 532 2	500
2 mm	34 mm	Blue	0875 534 2	500
2 mm	36 mm	Blue	0875 536 2	500
2 mm	38 mm	Blue	0875 538 2	500
2 mm	40 mm	Blue	0875 540 2	500
2 mm	42 mm	Blue	0875 542 2	500
2 mm	44 mm	Blue	0875 544 2	500
2 mm	46 mm	Blue	0875 546 2	500
2 mm	48 mm	Blue	0875 548 2	500
2 mm	50 mm	Blue	0875 550 2	500
3 mm	20 mm	Red	0875 520 3	1000
3 mm	22 mm	Red	0875 522 3	1000
3 mm	24 mm	Red	0875 524 3	1000
3 mm	26 mm	Red	0875 526 3	1000
3 mm	28 mm	Red	0875 528 3	1000
3 mm	30 mm	Red	0875 530 3	1000
3 mm	32 mm	Red	0875 532 3	500
3 mm	34 mm	Red	0875 534 3	500
3 mm	36 mm	Red	0875 536 3	500
3 mm	38 mm	Red	0875 538 3	500
3 mm	40 mm	Red	0875 540 3	500
3 mm	42 mm	Red	0875 542 3	500
3 mm	44 mm	Red	0875 544 3	500
3 mm	46 mm	Red	0875 546 3	500
3 mm	48 mm	Red	0875 548 3	500
3 mm	50 mm	Red	0875 550 3	500
4 mm	20 mm	Yellow	0875 520 4	1000
4 mm	22 mm	Yellow	0875 522 4	1000
4 mm	24 mm	Yellow	0875 524 4	1000
4 mm	26 mm	Yellow	0875 526 4	1000
4 mm	28 mm	Yellow	0875 528 4	1000

Thickness	Width	Colour	Art. no.	P. Qty.
4 mm	30 mm	Yellow	0875 530 4	1000
4 mm	32 mm	Yellow	0875 532 4	500
4 mm	34 mm	Yellow	0875 534 4	500
4 mm	36 mm	Yellow	0875 536 4	500
4 mm	38 mm	Yellow	0875 538 4	500
4 mm	40 mm	Yellow	0875 540 4	500
4 mm	42 mm	Yellow	0875 542 4	500
4 mm	44 mm	Yellow	0875 544 4	500
4 mm	46 mm	Yellow	0875 546 4	500
4 mm	48 mm	Yellow	0875 548 4	500
4 mm	50 mm	Yellow	0875 550 4	500
5 mm	20 mm	Green	0875 520 5	1000
5 mm	22 mm	Green	0875 522 5	1000
5 mm	24 mm	Green	0875 524 5	1000
5 mm	26 mm	Green	0875 526 5	1000
5 mm	28 mm	Green	0875 528 5	1000
5 mm	30 mm	Green	0875 530 5	300/1000
5 mm	32 mm	Green	0875 532 5	500
5 mm	34 mm	Green	0875 534 5	500
5 mm	36 mm	Green	0875 536 5	500
5 mm	38 mm	Green	0875 538 5	500
5 mm	40 mm	Green	0875 540 5	500
5 mm	42 mm	Green	0875 542 5	500
5 mm	44 mm	Green	0875 544 5	500
5 mm	46 mm	Green	0875 546 5	500
5 mm	48 mm	Green	0875 548 5	500
5 mm	50 mm	Green	0875 550 5	500
6 mm	20 mm	Black	0875 520 6	1000
6 mm	22 mm	Black	0875 522 6	1000
6 mm	24 mm	Black	0875 524 6	1000
6 mm	26 mm	Black	0875 526 6	1000
6 mm	28 mm	Black	0875 528 6	1000
6 mm	30 mm	Black	0875 530 6	1000
6 mm	32 mm	Black	0875 532 6	500
6 mm	34 mm	Black	0875 534 6	500
6 mm	36 mm	Black	0875 536 6	500
6 mm	38 mm	Black	0875 538 6	500
6 mm	40 mm	Black	0875 540 6	500
6 mm	42 mm	Black	0875 542 6	500
6 mm	44 mm	Black	0875 544 6	500
6 mm	46 mm	Black	0875 546 6	500
6 mm	48 mm	Black	0875 548 6	500
6 mm	50 mm	Black	0875 550 6	500
8 mm	22 mm	Grey	0875 522 8	500
8 mm	24 mm	Grey	0875 524 8	500
8 mm	26 mm	Grey	0875 526 8	500
8 mm	30 mm	Grey	0875 530 8	500

Glazing blocks verified as compatible with cured sealants of double glazing edge bond

- Test report 607 41481/4
- Tests carried out in line with IFT Rosenheim guideline VE 05/01 „Verified compatibility of glazing blocks“ in conjunction with conventional sealants used for double glazing edge bonds based on polysulphide, polyurethane, silicone, Würth Natural Stone Sealant and Würth Glass Active Sealing Compound.

Continuation **Glazing block**



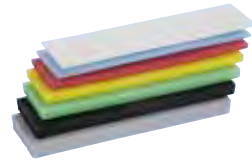
Notes on application

Glazing must be set in such a way that the glass edges are not overstrained. The glass edges must not touch the frame at any point. The installation position and number of glazing blocks should comply with glazing trade technical guideline no. 3 „Packing glazing units“.

Glazing packer assortment

For long-lasting, professional frame packing of glazing units

- Material: Polypropylene
- Ageing-resistant
- Temperature-resistant
- Optimised rib system for high load-bearing capacity
- Verified compatibility with conventional glazing sealants (based on polysulphide, polyurethane and silicone)
- Ventilation channel for vapour pressure compensation (from 32 mm packer width and 2 mm thickness upwards)



Width	Number of pieces in assortment/ set	Art. no.	P. Qty.
20 mm	600 PCS	0875 520 000	1
30 mm	420 PCS	0875 530 000	1
46 mm	240 PCS	0875 546 000	1

Contents for art. no. 0875 520 000

Designation	Art. no.	Quantity
Glazing block White	0875 520 1	100
Glazing block Blue	0875 520 2	100
Glazing block Red	0875 520 3	100
Glazing block Yellow	0875 520 4	100
Glazing block Green	0875 520 5	100
Glazing block Black	0875 520 6	100

Contents for art. no. 0875 530 000

Designation	Art. no.	Quantity
Glazing block White	0875 530 1	50
Glazing block Blue	0875 530 2	50
Glazing block Red	0875 530 3	50
Glazing block Yellow	0875 530 4	100
Glazing block Green	0875 530 5	100
Glazing block Black	0875 530 6	50
Glazing block Grey	0875 530 8	20

Contents for art. no. 0875 546 000

Designation	Art. no.	Quantity
Glazing block White	0875 546 1	30
Glazing block Blue	0875 546 2	30
Glazing block Red	0875 546 3	50

Designation	Art. no.	Quantity
Glazing block Yellow	0875 546 4	50
Glazing block Green	0875 546 5	50
Glazing block Black	0875 546 6	30

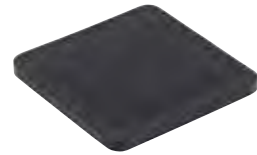
Glazing packers verified as compatible with cured sealants of double glazing edge bond

- Test report 607 41481/4
- Tests carried out in line with IFT Rosenheim guideline VE 05/01 „Verified compatibility of glazing packers“ in conjunction with conventional sealants used for double glazing edge bonds based on polysulphide, polyurethane, silicone, Würth Natural Stone Sealant and Würth Glass Active Sealing Compound.

Spacer block/mounting plate

For compensating height differences when positioning pre-fabricated concrete components and formwork elements

Material: Regranulated HDPE



Length	70 mm
Width	70 mm
Material	PS - Polystyrene
Colour	Black

Thickness	Art. no.	P. Qty.
2 mm	0875 605 130	250
3 mm	0875 605 131	250
5 mm	0875 605 132	125
7 mm	0875 605 133	125
8 mm	0875 605 134	125
10 mm	0875 605 136	125
15 mm	0875 605 137	50
20 mm	0875 605 138	50

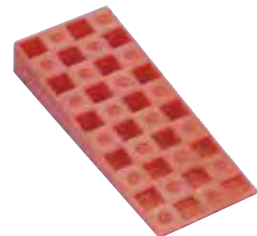
Only a temporary installation aid, not intended for permanent use.

Colour may vary.

Grid wedge

Professional, versatile assembly aids for packing, levelling, aligning and much more.

- Sawtooth-like surface allows accurate and non-slip alignment in 0.5 mm increments (1 sawtooth = 0.5 mm)
- Extremely high loads, up to 6750 kg in a single load
- Proven footfall sound insulation
- Suitable for universal use: Problem-free cutting, drilling, nailing, bolting etc.
- Rot-proof, moisture-repellent, tested service life up to 100 years
- Free of plasticisers
- Guarantees cost-effective work thanks to enormous time savings
- No need to waste time cutting wedges to length
- Time-saving processing in a matter of seconds, since precise adjustments of the correct base thickness are possible with a single movement



Continuation **Grid wedge**

Length x width x height	Colour	Art. no.	P. Qty.
80 x 30 x 10 mm	Green	0875 605 005	400
80 x 40 x 8 mm	Orange	0875 605 004	400
90 x 45 x 15 mm	Brown	0875 605 003	300
150 x 45 x 25 mm	Yellow	0875 605 002	150
150 x 60 x 25 mm	Blue	0875 605 001	100
150 x 60 x 25 mm	Red	0875 605 000	100

Grid wedge assortment

234 pieces Professional, versatile assembly aids for packing, levelling, aligning and much more. Supplied in a practical, reusable plastic box.



Number of pieces in assortment/set	245 PCS
Included in delivery (Lieferumfang)	40 x grid wedges, yellow 150x45x25 mm, 75 x grid wedges, brown 90x45x15 mm, 60 x grid wedges, orange 80x40x8 mm, 70 x grid wedges, green 80x30x10 mm

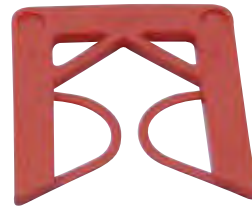
Art. no. 0875 605 010

P. Qty.: 1

Contents for art. no. 0875 605 010			
Designation	Art. no.	Quantity	
Grid wedge 150 x 45 x 25 mm	0875 605 002	40	
Grid wedge 90 x 45 x 15 mm	0875 605 003	75	
Grid wedge 80 x 40 x 8 mm	0875 605 004	60	
Grid wedge 80 x 30 x 10 mm	0875 605 005	70	

Installation spacer clip

Professional, versatile assembly aids for packing, levelling, aligning and much more.



- Exact, millimetre-precise and efficient installation.
- Separate shims can be combined as required using corner connectors as shown in Fig. 1.
- Clip easily into place for quick, economical work.
- The special clip rib allows the installation spacer clips to be easily pushed over screws and nails while guaranteeing a perfect seat during installation (fig. 2).

Thickness	Colour	Art. no.	P. Qty.
1 mm	Blue	0875 605 021	500
2 mm	Black	0875 605 022	500
3 mm	Red	0875 605 023	500
4 mm	White	0875 605 024	500
5 mm	Yellow	0875 605 025	500

Installation spacer clip, assortment

Supplied in handy, reusable plastic box

Contents: 500 pieces 40 x 60 mm

100 pieces each in blue 1 mm, black 2 mm, red 3 mm, white 4 mm, yellow 5 mm



Number of pieces in assortment/set	500 PCS
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Art. no. 0875 605 020

P. Qty.: 1

Contents for art. no. 0875 605 020		
Designation	Art. no.	Quantity
Installation spacer clip Thickness 1 mm	0875 605 021	100
Installation spacer clip Thickness 2 mm	0875 605 022	100
Installation spacer clip Thickness 3 mm	0875 605 023	100
Installation spacer clip Thickness 4 mm	0875 605 024	100
Installation spacer clip Thickness 5 mm	0875 605 025	100

Mounting clip AMO® clip assortment

Universally usable mounting clip with fixing strip.

Ideal for professional block setting during window installation and an ideal helper for many installation and fixing tasks as a practical mix.

400-piece assortment

- Ideal as an underlay and to even out for a variety of installation and fixing tasks
- For professional load transfer and block setting during window installation
- Simple application thanks to the securing tang, fixing strip and lead-in chamfer



Number of pieces in assortment/set	400 PCS
------------------------------------	---------

Art. no. 0875 604 500

P. Qty.: 1

Spacer block assortment

Professional, versatile assembly aids for packing, levelling, aligning and much more.

- Universal processing: Easy to cut, drill, nail, staple etc.
- Contents: 520 pcs., sorted, height 1-5 mm. Contains 50 mm and 100 mm versions of every height (52 pieces per size)
- Supplied in a practical, reusable plastic box



Included in delivery (Lieferumfang)	Spacer blocks, sorted from 1-5 mm (52 per size): blue (LxWxH:50x22 x1)-(LxWxH:100x22 x1), black (LxWxH:50x22 x2)-(LxWxH:100x22 x2), red (LxWxH:50x22 x3)-(LxWxH:100x22 x3), white (LxWxH:50x22 x4)-(LxWxH:100x22 x4), yellow (LxWxH:50x22 x5)-(LxWxH:100x22 x5)
Number of pieces in assortment/set	520 PCS

Art. no. 0875 605 030

P. Qty.: 1

Mounting block

Universal assembly aids for aligning, levelling or use as shims. Particularly suitable for ensuring correct load transfer when installing windows.

- Many applications
- Variable height
- Extremely resilient



Length	40 mm
Width	60 mm
Material	PP - Polypropylene

Thickness	Colour	Art. no.	P. Qty.
1 mm	Beige	0875 604 010	500
1.5 mm	White	0875 604 015	500
2 mm	Blue	0875 604 020	500
3 mm	Red	0875 604 030	500
4 mm	Yellow	0875 604 040	500
5 mm	Green	0875 604 050	500
10 mm	Brown	0875 604 100	250

The load-bearing strength of the substrate in question is critical for calculating the compressive strength, as well as the load-bearing strength of the block.

XL mounting block

Versatile, large-scale mounting block for alignment and support with many additional features

- Ideal for support and alignment in structural wood construction and with the assembly of lift-and-slide elements or other large-scale structural elements
- With many useful additional features



Width	60 mm
Material	PP - Polypropylene

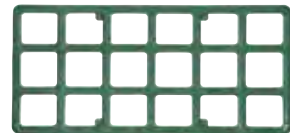
Length	Thickness	Colour	Art. no.	P. Qty.
100 mm	1.5 mm	Beige	0875 601 001	250
100 mm	3 mm	Claret	0875 601 003	250
100 mm	5 mm	Olive green	0875 601 005	250
100 mm	10 mm	Brown	0875 601 010	250
120 mm	1.5 mm	Beige	0875 601 201	250
120 mm	3 mm	Claret	0875 601 203	250
120 mm	5 mm	Olive green	0875 601 205	250
120 mm	10 mm	Brown	0875 601 210	250
160 mm	1.5 mm	Beige	0875 601 601	250
160 mm	3 mm	Claret	0875 601 603	250
160 mm	5 mm	Olive green	0875 601 605	250
160 mm	10 mm	Brown	0875 601 610	150
200 mm	1.5 mm	Beige	0875 602 001	250
200 mm	3 mm	Claret	0875 602 003	250
200 mm	5 mm	Olive green	0875 602 005	250
200 mm	10 mm	Brown	0875 602 010	150

The XL mounting blocks are made of polypropylene (PP) and are not permanently UV-stable. Protect from permanent, direct sunlight. The XL mounting blocks are not suitable for permanent load removal in static-bearing systems.

Grid spacer block

Large, universal assembly aids for aligning and laying formwork elements, pre-fabricated concrete and wood parts, lift-sliding doors etc.

- Material: Plastic, PP/polypropylene
- Stackable with anti-slip protection
- Pressure test up to 8 tonnes (from 5 mm)
- For aligning timber frame walls



Length	160 mm
Width	75 mm
Material	PP - Polypropylene

Thickness	Colour	Art. no.	P. Qty.
2 mm	Blue	0875 605 202	250
3 mm	Red	0875 605 203	250
5 mm	Green	0875 605 205	250
7 mm	Brown	0875 605 207	250

Continuation **Grid spacer block**

Thickness	Colour	Art. no.	P. Qty.
10 mm	White	0875 605 210	100
15 mm	Green	0875 605 215	100
20 mm	Black	0875 605 220	100

The compressive strength is determined by the load-bearing capacity both of the substrate in question and of the block. Not for long-term outdoor use; avoid direct exposure to UV radiation.

Mounting block set

Handy assortment of universal assembly aids for aligning, levelling or use as shims. Particularly suitable for ensuring correct load transfer when installing windows.

- Broad range of uses
To ensure correct load transfer when installing windows and doors or for levelling and aligning interior fittings and drywall elements. Würth mounting blocks are a universal aide for spacing and levelling work.
- Heavy-duty solid cast blocks made from polypropylene (PP)



Number of pieces in assortment/set	400 PCS
------------------------------------	---------

Art. no. 0875 604 000

P. Qty.: 1

Contents for art. no. 0875 604 000		
Designation	Art. no.	Quantity
Mounting block Thickness 1.5 mm	0875 604 015	100
Mounting block Thickness 3.0 mm	0875 604 030	100
Mounting block Thickness 5.0 mm	0875 604 050	100
Mounting block Thickness 10.0 mm	0875 604 100	100

Block assortment 137 pieces

The large, universal assembly aids for aligning and laying formwork elements, pre-fabricated concrete and wood parts, lift-sliding doors, etc... Handy assortment.



Number of pieces in assortment/set	137 PCS
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Art. no. 0875 605 200

P. Qty.: 1

The compressive strength is determined by the load-bearing capacity both of the substrate in question and of the block. Not for long-term outdoor use; avoid direct exposure to UV radiation.

Partition wall tape B1

One-sided self-adhesive PE foam for preventing noise bridges when installing partition walls

Easy to use

- Simple, quick and clean to apply
- Compensates any uneven areas

Long service life

- Resistant to UV, ageing and weathering
- Moisture-repellent



Colour	Anthracite
Building material class	B1 - Of low flammability
Acoustic insulation for joints	58 dB
Length of roll	30 m

Width	Art. no.	P. Qty.
30 mm	0875 303 30	1/15
50 mm	0875 303 50	1/10
70 mm	0875 303 70	1/7
95 mm	0875 303 95	1/5

Please consider the legal instruction at the beginning of this chapter.

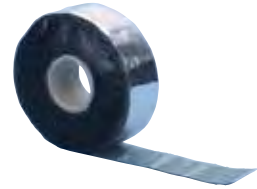
Building material class B1 in line with DIN 4102

Tested by the Leipzig Institute for Materials Research and Testing (MPFA), test certificate no. ÜB III/B-01-001

Bitumen tape with lamination

Self-adhesive and cold-processing bitumen-based sealing tape.

- Excellent adhesion
- Good resistance to UV, weather and water
- Bitumen compound is protected by siliconised PE film
- Compatible with Plexiglas and Makrolon



Chemical basis	Bitumen sealing compound
Design	With lamination
Backing material	Aluminium composite foil
Colour	Aluminium (base material)
Length	10 m
Total thickness	1.5 mm
Building material class	B2 - Normally inflammable
Min./max. processing temperature	5 to 45 °C
Min./max. temperature resistance	-40 to 80 °C
Shelf life from production/conditions	24 Month/cool and dry storage area, no exposure to sunlight and weather conditions

Continuation **Bitumen tape with lamination**

Width	Art. no.	P. Qty.
50 mm	0875 610 50	1/6
75 mm	0875 610 75	1/4
100 mm	0875 610 100	1/3
150 mm	0875 610 150	2

Please consider the legal instruction at the beginning of this chapter.

The bitumen tape is not suitable for use on surfaces that can be walked or driven on!

Butyl tape with aluminium lamination

Self-adhesive butyl rubber assembly and sealing tape with permanently anchored aluminium lamination

Excellent resistance to UV, weathering and water

- The butyl tape can also be used outdoors and withstands rain and any other weather influences (not suitable for use under water).
- Non-corrosive

High adhesion to absorbent and non-absorbent surfaces

Can be used on all the surfaces in the construction sector, e.g. steel, aluminium, glass, plastic, wood, concrete, masonry, bitumen etc.



Chemical basis	Butyl natural rubber
Design	With aluminium lamination
Colour	Black
Length	20 m
Total thickness	1.5 mm
Min./max. processing temperature	10 to 30 °C
Min./max. temperature resistance	-40 to 90 °C

Width	Art. no.	P. Qty.
35 mm	0875 620 35	1/8
40 mm	0875 620 40	1/8
45 mm	0875 620 45	1/6
50 mm	0875 620 50	1/6
60 mm	0875 620 60	1/6
80 mm	0875 620 80	1/4
100 mm	0875 620 100	1/4

Please consider the legal instruction at the beginning of this chapter.

- Complies with IVD technical data sheets no. 5, 19-1, 19-2, 25, 29, 31, 35
- Compatibility with bitumen according to DIN EN 1548

Complies with VOC requirements according to:

- EMICODE EC 1 Plus
- AgBB scheme
- French VOC Class A+ and „KMR ordinance“

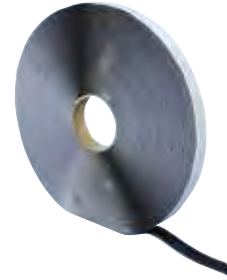
- Screwing in/penetrating the butyl tape must be avoided
- Butyl cannot be secured mechanically!

Butyl tape

Highly adhesive, double-sided sealing tape made from butyl rubber for overlapping sealing.

- Excellent compatibility with a range of surfaces
- Excellent resistance to UV, weathering and water
- Self-fusing

Chemical basis	Butyl natural rubber
Colour	Black
Sealing-tape thickness	2 mm
Length	15 m
Min./max. temperature resistance	-40 to 100 °C
Min./max. processing temperature	5 to 30 °C



Width	Art. no.	P. Qty.
12 mm	0894 700 122	1
20 mm	0894 700 202	1

Please consider the legal instruction at the beginning of this chapter.

Butyl flexible tape EURASOL®

Very flexible sealing tape for airtight, windproof and raintight sealing of indoor and outdoor openings.

- Suitable for virtually all types of openings
- Retrospective application possible if pipes and cables have already been laid
- Can be stretched in all directions, thereby providing excellent three-dimensional deformation around the joints
- Reliably compensates for component movement
- High adhesive strength
- Excellent material compatibility
- Quick to apply thanks to protruding separating paper (lifts up with finger) with central division

Adhesive base	Synthetic natural rubber
Colour	Grey
Length	20 m
Width	80 mm
Total thickness	2 mm
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-40 to 90 °C



Art. no. 0875 635 080

P. Qty.: 2

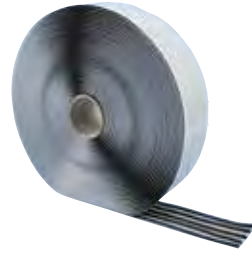
Please consider the legal instruction at the beginning of this chapter.

EURASOL butyl flexible tape is ideally suited for WÜTOP vapour barriers, vapour seals and joist protection films. We therefore recommend using these films.

Butyl round cord

Highly adhesive, double-sided sealing tape made from butyl rubber for overlapping sealing.

- Excellent compatibility with all common surfaces
- Good resistance to UV, weather and water
- Impervious to vapour diffusion
- Self-fusing
- Compatible with Plexiglas and Makrolon



Chemical basis	Butyl natural rubber
Colour	Black
Outer diameter	3 mm
Length of roll	16 m
Number of cords	5 PCS
Length	80 m
Min./max. processing temperature	5 to 30 °C
Min./max. temperature resistance	-40 to 100 °C

Art. no. 0894 700 380

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Primer Butyl primer

Improved adhesion on rough, porous and absorbent surfaces. Also suitable for bitumen tapes.

Ultimate adhesion to a wide variety of surfaces

Easy to use

Apply butyl primer to the surface being treated with a brush and let the surface flash off until the primer stiffens and exhibits a strong surface adhesiveness.



Chemical basis	Solvent-containing synthetic natural rubber
Colour	Transparent, yellowish
Min./max. application quantity in volume/area/conditions	150-250 ml/m ² /depending on the absorbency of the surface
Min. flash-off time	10 min
Min./max. processing temperature	5 to 30 °C
Flash-off time conditions	at 20°C

Contents	Art. no.	P. Qty.
750 ml	0892 875	1/6
5 l	0892 876	1

Please consider the legal instruction at the beginning of this chapter.

Primer spray

Spray adhesion promoter for applying butyl and bitumen tapes to porous and absorbent surfaces.

Improves adhesive strength

- Significantly improves the reliability of the bond by forming a stable film on the surface
- Rough and porous substrates are consolidated

Simple spray-action application

- Fast application
- Spray head can be turned to spray horizontally or vertically

Flash-off time:

- At +5°C – approx. 20 min.
- At 0°C – approx. 30 min.
- At -5°C – approx. 40 min.



Chemical basis	Solvent-containing synthetic natural rubber
Colour	Transparent
Contents	500 ml
Min. flash-off time	10 min
Min./max. processing temperature	-5 to 35 °C
Flash-off time conditions	at 20°C
Coverage distance	50 m
Conditions for coverage distance	with 4-cm spray width

Art. no. 0893 876 002

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Not compatible with paint. Paints, lacquers and plastics may be softened. Compatibility with adjacent materials must be tested.

Compression band clamp

The fastening at the end of the tape prevents swelling of compressed sealing tape

Started rolls of joint sealing tape are temporarily held together by the staple



Min./max. clamping range	Art. no.	P. Qty.
0-32 mm	0875 600 32	1
32-95 mm	0875 632 95	1

Adhesive WÜTOP® WRD

For wind-proof and rain-proof bonding of roof protection films and for sealing nails

- Guarantees rain-proof seal
- Complies with the requirements of EnEV 2016
- Adhesive foams easily to reliably seal nail and tack sites

Contents	310 ml
Chemical basis	Single component polyurethane
Colour	Black
Min./max. surface processing temperature	-5 to 40 °C
Min./max. processing temperature	7 to 40 °C
Min./max. temperature resistance	-40 to +120 °C
Shelf life from production	12 Month



Art. no. 0893 700 115

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



- Please refer to the processing instructions of the system warranty.
- The viscosity of WÜTOP® WRD is around twice as high at +15°C than at +25°C.
- WÜTOP® WRD foams easily during bonding; excess adhesive can be removed in a fresh state with cleaner type 60 (item no.: 0892 130 030/0892 130 031).

Film adhesive WÜTOP®

Tested system adhesive for permanent sealing of vapour retarders/barriers without a clamping batten in accordance with DIN 4108-7/SIA 180.

- For bonding of all Würth vapour retarders and vapour barriers as well as sealing films on construction surfaces
- Air and wind tightness tests performed by the Institute for Building Physics in Stuttgart in combination with WÜRTH vapour retarders/barriers are available.
- Can also be applied at external and surface temperatures down to -5°C . Adhesive temperature from +10°C.

Chemical basis	Acrylic copolymers
Colour	Light yellow
Min./max. curing time	2-3 d
Min./max. surface processing temperature	-5 to 40 °C
Min./max. processing temperature	10 to 35 °C
Shelf life from production	12 Month



Contents	Min./max. temperature resistance	Art. no.	P. Qty.
310 ml	-30 to +60 °C	0893 700 100	1/15
600 ml	-30 to 60 °C	0893 700 110	20

Please consider the legal instruction at the beginning of this chapter.

German Energy Saving Ordinance (EnEV)



- Please refer to the processing instructions of the system warranty
- Detached bonds can be joined together once again due to the self-adhesive properties of the adhesive film.
- When working at temperatures below +15°C, you are advised to work with professional glue gun art. no.: 0891 300 310.
- The hardened WÜTOP® adhesive film is largely highly water resistant, however you should avoid working with it in places where humidity levels are always high, e.g. swimming pools or other wet areas.

Flexible tape adhesive

Special adhesive for secure and long-term bonding of Würth SK and Vario active flexible tape

- Excellent adhesive properties
- Even adheres to slightly damp (but not wet) surfaces
- Can be plastered and painted-over

Chemical basis	Polyurethane
Colour	Sand beige
Full curing speed	3 mm/d
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-40 to +80 °C
Shelf life from production/conditions	12 Month/at 20°C



Container	Contents	Art. no.	P. Qty.
Bag	600 ml	0893 710 001	20
Cartridge	310 ml	0893 710 000	1/12

Please consider the legal instruction at the beginning of this chapter.

Joint sealing connection systems according to ift certification program QM360: 2014, Reg. no. 188 7050098



- Flexible tape adhesive, flexible tape adhesive plus and EPDM sealing tape adhesive may not come into contact with each other while wet.
- Do not use on surfaces pre-treated with butyl and bitumen primer and do not bring into contact with butyl strips.
- The hardening time is heavily dependent on the ambient temperature, material temperature and ambient humidity.

Flexible tape adhesive plus

Special adhesive for secure and long-term bonding of Würth SK and Vario active flexible tape

- Very low emissions
- Excellent adhesive and processing properties
- High adhesive strength after full curing time
- Thixotropic properties
- Permanently elastic and moisture-resistant
- Solvent and silicone-free



Chemical basis	Acrylate polymer dispersion
Colour	Saffron yellow
Full curing speed	1 mm/d
Min./max. processing temperature	-5 to 40 °C
Min./max. processing temperature for cartridge	5 to 35 °C
Min./max. temperature resistance	-30 to +80 °C
Shelf life from production/conditions	12 Month/at 20°C

Container	Contents	Art. no.	P. Qty.
Bag	600 ml	0893 710 011	20
Cartridge	310 ml	0893 710 010	1/12

Please consider the legal instruction at the beginning of this chapter.

Structure adhesive systems according to ift certification program QM360: 2014, Reg. no. 188 7050098



Do not use on surfaces pre-treated with butyl and bitumen primer (art. no. 0982 875/876) and do not bring into contact with butyl strips.

Sealing tape VKP® BASIC

Waterproofed, pre-compressed BG2 sealing tape with tested resistance to driving rain up to 300 Pascal.

- Tested tape quality in line with DIN 18542-BG2
- In addition to BG2: tested direct resistance to weathering and UV
- Large tolerance range of the tapes
- Time-saving application as no pre-treatment with primer necessary
- Pre-compressed and self-adhesive for secure and permanent sealing



Chemical basis	Fine open-cell polyurethane foam
Min. resistance against driving rain (pressure)/conditions	300 Pa/in accordance with DIN 18542-BG2
Building material class/conditions	B2 - Normally inflammable/in accordance with DIN 4102
Ultraviolet resistance	Yes, when installed to be resistant to driving rain

Shelf life from production	18 Month
Conditions to maintain shelf life from production	at 5°C to 25°C

Colour	Width	Min./max. joint width for watertightness in driving rain	Length of roll	Art. no.	P. Qty.
Black	10 mm	2-4 mm	12.5 m	0875 110 004	30
Black	15 mm	2-4 mm	12.5 m	0875 115 004	20
Black	15 mm	3-6 mm	10 m	0875 115 006	20
Black	15 mm	4-8 mm	8 m	0875 115 008	20
Black	15 mm	6-10 mm	5.6 m	0875 115 010	20
Black	20 mm	8-14 mm	4.3 m	0875 120 014	15
Black	20 mm	12-20 mm	6.5 m	0875 120 018	15
Grey	15 mm	6-10 mm	5.6 m	0875 115 011	20
Grey	20 mm	8-14 mm	4.3 m	0875 120 015	15
Grey	20 mm	12-20 mm	6.5 m	0875 120 019	15

Please consider the legal instruction at the beginning of this chapter.

Select the correct tape size:

1. Define the joint widths from the structure and classify in the „resistance to driving rain“ scale
2. Then select the required tape size
3. Select the art. no. according to the tape colour
4. Define the roll quantity

The expansion speed of VKP Basic depends on the temperature. The tape's expansion behaviour is not subject to any particular specification and is based only on empirical values. The tape's reset time depends on the storage and processing temperature. The following applies: The longer the storage times and the lower the processing temperature, the longer the reset times.

In high temperatures, store the tape in a cool location; in low temperatures, store in a warm location.

** Only for installation resistant to driving rain.

Sealing tape VKP® MAX

Impregnated and pre-compressed sealing tape in line with BG1 for compensating joint tolerances.

- Tape is excellent at adapting to surrounding area
- Tested sealing properties over 600 Pa
- Water-repellent but permeable to water vapour
- Excellent weather resistance



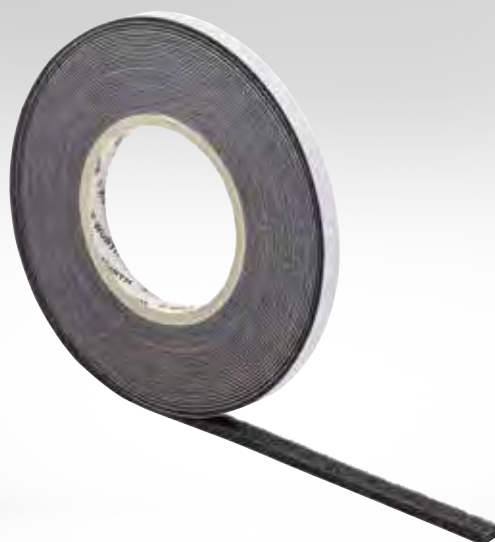
Colour	Black
Chemical basis	Impregnated polyurethane foam
Min. resistance against driving rain (pressure)/conditions	600 Pa/in accordance with DIN 18542-BG1
Min./max. processing temperature	5 to 25 °C
Min./max. temperature resistance	-30 to 80 °C
Building material class/conditions	B1 - Of low flammability/in accordance with DIN 4102
Ultraviolet resistance	Yes, when installed to be resistant to driving rain
Shelf life from production/conditions	18 Month/at 20°C

Continuation **Sealing tape VKP® MAX**

Width	Min./max. joint width for watertightness in driving rain	Length of roll	Art. no.	P. Qty.
15 mm	1-4 mm	20 m	0875 191 502	26
15 mm	4-9 mm	10 m	0875 191 504	26
15 mm	5-12 mm	7.5 m	0875 191 505	26
20 mm	8-18 mm	5 m	0875 192 008	20

Please consider the legal instruction at the beginning of this chapter.

The expansion speed of VKP MAX depends on the temperature. In high temperatures, store the tape in a cool location; in low temperatures, store in a warm location. Compatibility when coating with paints and sealants must be tested. The tape must not come into contact or be cleaned with chemicals containing solvents or aggressive chemicals.



Sealing tape VKP® PLUS

High-quality, waterproofed, pre-compressed BG1 sealing tape for secure and permanent joint sealing up to over 600 Pa

- Tested sealing properties over 600 Pa, BG1 and BGR in accordance with DIN 18542:2020-04
- Bridging of large joint differences that will withstand driving rain
- Water-repellent, yet permeable to water vapour

Joint sealing connection systems according to ift certification program
QM360: 2014, reg. no. 188 7050098

Chemical basis	Fine open-cell polyurethane foam
Min. resistance against driving rain (pressure)/conditions	600 Pa/in accordance with DIN 18542-BG1
Building material class/conditions	B1 - Of low flammability/in accordance with DIN 4102
Max. water-vapour diffusion resistance factor value μ	100
Ultraviolet resistance	Yes, when installed to be resistant to driving rain
Shelf life from production	24 Month
Conditions to maintain shelf life from production	at 5°C to 25°C

Continuation **Sealing tape VKP® PLUS**

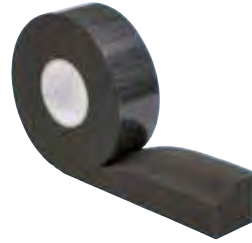
Colour	Width	Min./max. joint width for watertightness in driving rain	Length of roll	Art. no.	P. Qty.
Black	10 mm	2-3 mm	12.5 m	0875 011 02	30
Black	10 mm	3-5 mm	10 m	0875 011 03	30
Black	15 mm	2-3 mm	12.5 m	0875 011 52	20
Black	15 mm	3-5 mm	10 m	0875 011 53	20
Black	15 mm	4-7 mm	8 m	0875 011 54	20
Black	15 mm	6-10 mm	5.6 m	0875 011 56	20
Black	15 mm	8-12 mm	4.3 m	0875 011 58	20
Black	20 mm	4-7 mm	8 m	0875 012 04	15
Black	25 mm	10-15 mm	6.5 m	0875 012 510	12
Black	35 mm	18-32 mm	4 m	0875 013 518	8
Grey	10 mm	2-3 mm	12.5 m	0875 021 02	30
Grey	10 mm	3-5 mm	10 m	0875 021 03	30
Grey	15 mm	2-3 mm	12.5 m	0875 021 52	20
Grey	15 mm	3-5 mm	10 m	0875 021 53	20
Grey	15 mm	4-7 mm	8 m	0875 021 54	20
Grey	15 mm	6-10 mm	5.6 m	0875 021 56	20
Grey	15 mm	8-12 mm	4.3 m	0875 021 58	20
Grey	20 mm	4-7 mm	8 m	0875 022 04	15
Grey	25 mm	10-15 mm	6.5 m	0875 022 510	12
Grey	35 mm	18-32 mm	4 m	0875 023 518	8

Please consider the legal instruction at the beginning of this chapter.

Sealing tape VKP®TRIO

Joint sealing tape for simultaneous internal and external sealing and insulation of window and door joints

- Complete sealing and insulation in a single step
- Suitable for quality-controlled installation in accordance with RAL-Gütegemeinschaft für Fenster und Haustüren (RAL Quality Association for Windows and Doors) requirements
- The product provides completely secure sealing in virtually any kind of weather



Colour	Black
Chemical basis	Impregnated polyurethane foam
Water-vapour diffusion resistance (description)	Inside more impermeable than outside
Min. resistance against driving rain (pressure)/conditions	600 Pa/in accordance with DIN 18542-BG1
Min./max. processing temperature	5 to 25 °C
Min./max. temperature resistance	-30 to 80 °C
Building material class/conditions	B1 - Of low flammability/in accordance with DIN 4102 according to construction permit Z-56.212-3607
Stress group	MF1
Ultraviolet resistance	Yes, when compressed to be resistant to driving rain, outdoor weathering
Shelf life from production/conditions	12 Month/at 20 °C

Width	Min./max. joint width for watertightness in driving rain	Length of roll	Art. no.	P. Qty.
58 mm	5-10 mm	6.5 m	0875 345 805	6
58 mm	8-15 mm	4.5 m	0875 345 808	6
58 mm	9-20 mm	3 m	0875 345 809	6
58 mm	13-30 mm	2.3 m	0875 345 813	6
66 mm	5-10 mm	6.5 m	0875 346 605	6
66 mm	8-15 mm	4.5 m	0875 346 608	6
66 mm	9-20 mm	3 m	0875 346 609	6
66 mm	13-30 mm	2.3 m	0875 346 613	6
75 mm	5-10 mm	6.5 m	0875 347 505	5
75 mm	8-15 mm	4.5 m	0875 347 508	5
75 mm	9-20 mm	3 m	0875 347 509	5
75 mm	13-30 mm	2.3 m	0875 347 513	5
86 mm	5-10 mm	6.5 m	0875 348 605	4
86 mm	8-15 mm	4.5 m	0875 348 608	4
86 mm	9-20 mm	3 m	0875 348 609	4
86 mm	13-30 mm	2.3 m	0875 348 613	4

Please consider the legal instruction at the beginning of this chapter.



The expansion speed of VKP Trio depends on the temperature. In high temperatures, store the tape in a cool location; in low temperatures, store in a warm location.

Please use VKP Plus for joints between solid components. In the bottom joint area, we recommend flex tape or EPDM outdoor sealing tape.

For tapes with a joint width of 12–20 mm and 20–30 mm, the tape has two layers, and the self-adhesive area is located on the wavy side (for technical reasons).

Carry out sufficient tests of your own for paints and sealants. No interactions with commercially available grout. The window is secured as a spaced installation. Façade joints under a heavy load must be sealed with VKP Plus.

Sealing tape VKP® Trio 1050 Butterfly

Premium dual-purpose tape for the highest requirements when sealing window and door joints

- Complete sealing and insulation in a single step
- For separating internal and external components

Two foam components for the best possible impermeability

- Red, closed-cell soft foam is attached to the window frame and masonry and, in conjunction with the barrier layer, ensures the air tightness of the joint.
- Grey, impregnated and pre-compressed foam for easy installation.
- Air and smoke-tightness provides a high level of safety in blower door tests



Colour	Anthracite, Red
Backing material	PUR foam
Adhesive base	Acrylate dispersion
Width	82 mm

Continuation **Sealing tape VKP® Trio 1050 Butterfly**

Min./max. joint width for water-tightness in driving rain	6-15 mm
Length of roll	12 m
Min. resistance against driving rain (pressure)/conditions	1050 Pa/in accordance with DIN 18542-BG1
Min./max. processing temperature	+5 to +25 °C
Min./max. temperature resistance	-30 to +80 °C
Building material class/conditions	B2 - Normally inflammable/in accordance with DIN 4102-1
Stress group	BG 1 and BG R
Ultraviolet resistance	Yes, when compressed to be resistant to driving rain, outdoor weathering
Shelf life from production/conditions	12 Month/at 1 °C to 20 °C

Art. no. 0875 478 206

P. Qty.: 5

Please consider the legal instruction at the beginning of this chapter.

The expansion speed of VKP® Trio 1050 Butterfly depends on the temperature. In high temperatures, store the tape in a cool location; in low temperatures, store in a warm location. Please use VKP® Plus for joints between solid components. In the bottom joint area, we recommend flex tape or external EPDM sealing tape. Carry out sufficient tests of your own for paints and sealants. No interactions with commercially available grout. The window is secured as a spaced installation. Façade joints under a heavy load must be sealed off with VKP® Plus.

Sealing tape VKP Trio 750 High Performance

Premium multifunctional sealing tape with polymer film and water barrier for completely sealing window and door joints.

- Quick and easy window sealing in only one work step
- Water barrier on outer side
- Polymer film technology on inside



Colour	Anthracite
Backing material	PUR foam
Min./max. processing temperature	5 to 25 °C
Min./max. temperature resistance	-30 to 80 °C
Building material class/conditions	B1 - Of low flammability/in accordance with DIN 4102
Ultraviolet resistance	Yes, when installed to be resistant to driving rain
Shelf life from production/conditions	12 Month/at 1 °C to 20 °C

Width	Min./max. joint width for watertightness in driving rain	Length of roll	Art. no.	P. Qty.
54 mm	5-12 mm	10 m	0875 465 405	5
54 mm	7-18 mm	15 m	0875 465 407	5
54 mm	10-25 mm	10 m	0875 465 410	5
64 mm	5-12 mm	10 m	0875 466 405	4

Width	Min./max. joint width for watertightness in driving rain	Length of roll	Art. no.	P. Qty.
64 mm	7-18 mm	15 m	0875 466 407	4
64 mm	10-25 mm	10 m	0875 466 410	4
74 mm	5-12 mm	10 m	0875 467 405	4
74 mm	7-18 mm	15 m	0875 467 407	4
74 mm	10-25 mm	10 m	0875 467 410	4

Please consider the legal instruction at the beginning of this chapter.



Take into account component movements and temporary changes in length of the existing joints when determining the appropriate tape dimension. The expansion speed of VKP® Trio 750 High Performance depends on the temperature. In high temperatures, store the tape in a cool location; in low temperatures, store in a warm location. Please use VKP® Plus for joints between solid components. In the bottom joint area, we recommend flex tape or EPDM outdoor sealing tape. Carry out sufficient tests of your own for paints and sealants. No interactions with commercially available grout. The window is secured as a spaced installation. Façade joints under a heavy load must be sealed with VKP® Plus.

Sealing tape VKP® Trio SF

Pre-compressed and impregnated joint sealing tape for simultaneously sealing indoor and outdoor window and door joints, particularly shallow joints

- Tested sealing properties over 600 Pa, complies with BG1 requirements in accordance with DIN 18542
- Tested air tightness properties ($\alpha < 0.1$) meet BGR requirements in accordance with DIN 18542
- Tested and assured sealing against driving rain



Colour	Anthracite
Backing material	PUR foam
Chemical basis	Impregnated polyurethane foam
Water-vapour diffusion resistance (description)	Inside more impermeable than outside
Min. resistance against driving rain (pressure)/conditions	600 Pa/in accordance with DIN 18542-BG1
Min./max. processing temperature	5 to 23 °C
Min./max. temperature resistance	-30 to 80 °C
Building material class/conditions	B2 - Normally inflammable/in accordance with DIN 4102
Ultraviolet resistance	Yes, when compressed to be resistant to driving rain, outdoor weathering
Shelf life from production/conditions	24 Month/at 1°C to 20°C

Width	Min./max. joint width for watertightness in driving rain	Length of roll	Art. no.	P. Qty.
30 mm	5-10 mm	10 m	0875 363 005	10
30 mm	7-15 mm	8 m	0875 363 007	7
30 mm	10-20 mm	6.5 m	0875 363 010	7
35 mm	7-15 mm	8 m	0875 363 507	6
35 mm	10-20 mm	6.5 m	0875 363 510	6

Continuation **Sealing tape VKP® Trio SF**

Width	Min./max. joint width for watertightness in driving rain	Length of roll	Art. no.	P. Qty.
40 mm	5-10 mm	10 m	0875 364 005	7
40 mm	7-15 mm	8 m	0875 364 007	5
40 mm	10-20 mm	6.5 m	0875 364 010	5

Please consider the legal instruction at the beginning of this chapter.

The tape is resistant to driving rain, but must also be sealed with butyl tape with laminated foil for standing water (e.g. horizontal and above) or water pressing on the seal, if the joint is not immediately covered following mounting. A second level leading water away (tub-shaped sealing film) must be created in the lower connection area, so that the water is diverted away to the outside in a controlled manner. The expansion speed of VKP Trio SF depends on the temperature. In high temperatures, store the tape in a cool location; in low temperatures, store in a warm location.

Decoupling tape

Self-adhesive, dimensionally stable decoupling tape for minimising heat bridges in light metalworking according to Type 7 as per IFBS.

- Extremely high compression hardness
- Fulfils the guidelines of EnEV and German ordinance on thermal insulation
- Extremely high adhesive strength
- Excellent wear resistance



Material	Closed cell polyethylene foam
Adhesive base	Synthetic natural rubber
Colour	Grey
Total thickness	3 mm
Length of roll	30 m
Building material class	E - Normally inflammable
Building material class conditions	in accordance with DIN EN 13501-1
Compression strength	347 kPa
Compression strength conditions	at 10% compression
Volumetric weight	250 kg/m ³
Heat conductance λ	0.055 W/(m*K)

Width	Art. no.	P. Qty.
40 mm	0875 305 040	12
60 mm	0875 305 060	8
80 mm	0875 305 080	6

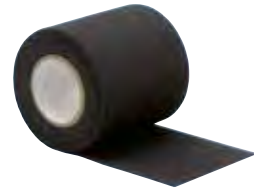
Please consider the legal instruction at the beginning of this chapter.

Self-adhesive action acts as temporary assembly aid; the tape must be fixed mechanically between the elements.

EPDM sealing tape Outdoors

Breathable, elastic and weather-resistant sealing tape.

- Watertight and breathable
- Extremely high elasticity
- Excellent resistance to weathering
- Reliable attachment on uneven substrates
- Good bitumen compatibility



Colour	Black
Backing material	EPDM
Design	Without self-adhesive strips
Chemical basis	Ethylene propylene diene natural rubber
Length of roll	20 m
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-30 to 120 °C
Building material class/conditions	B2 - Normally inflammable/in accordance with DIN 4102
Ultraviolet resistance	Yes

Width	Art. no.	P. Qty.
150 mm	0875 350 150	6
200 mm	0875 350 200	4
250 mm	0875 350 250	4
300 mm	0875 350 300	3
400 mm	0875 350 400	2
500 mm	0875 350 500	2

Please consider the legal instruction at the beginning of this chapter.

Not suitable for sealing in the areas in contact with the ground/not suitable for sealings according to DIN 18533.

Tape cannot be plastered over.

EPDM butyl outdoor sealing tape

Breathable, elastic and weather-resistant sealing tape

- Thanks to its high-quality and flexible material, the EPDM film remains permanently sealed and compensates particularly well for component movements
- Its high UV and weathering resistance make the EPDM film ideally suited for permanently secure sealing
- Reliable installation is also achieved on slightly uneven construction surfaces, when combined with EPDM sealing tape adhesive



Colour	Black
Adhesive base	Butyl
Design	With butyl adhesive strip
Chemical basis	Ethylene propylene diene natural rubber
Length of roll	20 m
Min./max. temperature resistance	-30 to 75 °C
Building material class/conditions	B2 - Normally inflammable/in accordance with DIN 4102
Ultraviolet resistance	Yes

Continuation **EPDM butyl outdoor sealing tape**

Width	Art. no.	P. Qty.
150 mm	0875 350 152	6
200 mm	0875 350 202	4
250 mm	0875 350 252	4
300 mm	0875 350 302	3
400 mm	0875 350 402	2
500 mm	0875 350 502	2

Please consider the legal instruction at the beginning of this chapter.



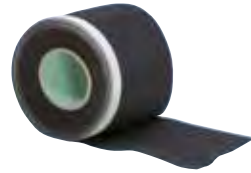
Not suitable for seals in accordance with the water influence classes W2.2-E (high exposure to pressurised water ≥ 3 m immersion depth), W3-E (non-pressurised water on ceilings covered with earth) according to DIN 18533, as well as seals against pressurised water according to DIN 18195-6.

Tape cannot be plastered over.

EPDM sealing tape Outdoors

Breathable, elastic and weather-resistant sealing tape with one-sided self-adhesive strips

- Waterproof and breathable
- Extremely high elasticity
- Excellent resistance to weathering
- Secure installation on uneven surfaces
- Good compatibility with bitumen



Colour	Black
Adhesive base	Acrylate
Design	With self-adhesive strips
Chemical basis	Ethylene propylene diene natural rubber
Length of roll	20 m
Min./max. temperature resistance	-30 to 75 °C
Building material class/conditions	B2 - Normally inflammable/in accordance with DIN 4102
Ultraviolet resistance	Yes

Width	Art. no.	P. Qty.
150 mm	0875 350 151	6
200 mm	0875 350 201	4
250 mm	0875 350 251	4
300 mm	0875 350 301	3
400 mm	0875 350 401	2
500 mm	0875 350 501	2

Please consider the legal instruction at the beginning of this chapter.

Not suitable for sealing in the areas in contact with the ground/not suitable for sealings according to DIN 18533.

Tape cannot be plastered over.

EPDM sealing tape Indoor butyl

Breathable, elastic and weather-resistant sealing tape.

- Thanks to its high-quality and flexible material, the EPDM film remains permanently sealed and compensates particularly well for component movements
- Its high UV and weathering resistance make the EPDM film ideally suited for permanently secure sealing
- Reliable installation is also achieved on slightly uneven construction surfaces, when combined with EPDM sealing tape adhesive



Colour	Black
Adhesive base	Butyl
Design	With self-adhesive strips
Chemical basis	Polyisobutylene natural rubber
Length of roll	20 m
Min./max. temperature resistance	-30 to 75 °C
Building material class/conditions	B2 - Normally inflammable/in accordance with DIN 4102
Ultraviolet resistance	Yes

Width	Art. no.	P. Qty.
150 mm	0875 350 153	6
200 mm	0875 350 203	4
250 mm	0875 350 253	4
300 mm	0875 350 303	3
400 mm	0875 350 403	2
500 mm	0875 350 503	2

Please consider the legal instruction at the beginning of this chapter.



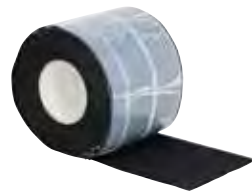
Not suitable for seals in accordance with the water influence classes W2.2-E (high exposure to pressurised water ≥ 3 m immersion depth), W3-E (non-pressurised water on ceilings covered with earth) according to DIN 18533, as well as seals against pressurised water according to DIN 18195-6.

Tape cannot be plastered over.

EPDM sealing tape Outdoors full-surface SK

Strong self-adhesive, breathable and weather-resistant sealing tape.

- Full-surface, very strong self-adhesive
- Watertight and breathable
- Extremely high elasticity
- Excellent resistance to weathering
- Easier application through division of the separating paper 3 cm from the edge and in the centre (from width of 150 mm).



Colour	Black
Backing material	EPDM
Adhesive base	Acrylate

Continuation **EPDM sealing tape Outdoors full-surface SK**

Length of roll	20 m
Min./max. processing temperature	5 to 30 °C
Min./max. temperature resistance	-30 to 75 °C
Building material class/conditions	E - Normally inflammable/in accordance with DIN EN 13501
Ultraviolet resistance	Yes

Width	Art. no.	P. Qty.
70 mm	0875 350 076	12
110 mm	0875 350 116	6
150 mm	0875 350 156	6
200 mm	0875 350 206	4
250 mm	0875 350 256	4
300 mm	0875 350 306	3
400 mm	0875 350 406	2
500 mm	0875 350 506	2

Please consider the legal instruction at the beginning of this chapter.

For smoothing out unevenness, patching the film edge as protection from running, in corners or for joints, we recommend EPDM sealing tape adhesive. Additionally mount tape to element with a mechanical mounting, e.g. windowsill, clamping in the element, clamping batten, terminal block etc.

Not suitable for sealing against water under pressure. Tape cannot be plastered over.

EPDM sealing tape adhesive

Low-solvent special adhesive for reliable, long-term adhesive bonding of EPDM tapes

- Excellent material compatibility
- High elasticity: Building movements are optimally compensated
- Excellent stability
- Acid-, isocyanate- and silicone-free



Chemical basis	Hybrid polyurethane
Colour	Black
Full curing speed/conditions	2 mm/d/23°C and 50% relative humidity
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-30 to +70 °C
Shelf life from production/conditions	12 Month/at 20°C

Contents	Container	Art. no.	P. Qty.
300 ml	Cartridge	0893 700 153	1/12
600 ml	Bag	0893 700 150	20

Please consider the legal instruction at the beginning of this chapter.

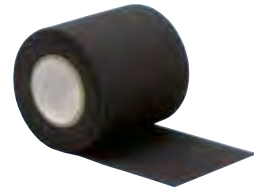


- Store the original container tightly sealed in a dry place at temperatures between +5°C and +25°C without exposure to direct sunlight.
- EPDM sealing tape adhesive, Flexband adhesive and Flexband adhesive Plus must not come into contact in wet conditions.
- Do not use EPDM sealing tape adhesive on surfaces which have been pretreated with Butyl and Bitumen Primer (item no. 0982 875/876).
- We recommend performing preliminary tests on bitumen strips due to the large number of different systems.

EPDM sealing tape, internal

Vapour proof and flexible sealing tape.

Colour	Black
Backing material	EPDM
Chemical basis	Polyisobutylene natural rubber
Length of roll	20 m
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-30 to 120 °C
Building material class/conditions	B2 - Normally inflammable/in accordance with DIN 4102
Ultraviolet resistance	Yes



Width	Art. no.	P. Qty.
150 mm	0875 350 155	6
200 mm	0875 350 205	4
250 mm	0875 350 255	4
300 mm	0875 350 305	3
400 mm	0875 350 405	2
500 mm	0875 350 505	2

Please consider the legal instruction at the beginning of this chapter.

Not suitable for sealing against pressurized water. The tape cannot be plastered.

Universal window sealing tape Euraseal U-305

Very strong adhesive window sealing tape with active drying membrane for inner and outer joint sealing

- Very high adhesive strength due to special acrylate adhesive
- Very convenient to apply due to the high-quality, flexible fabric
- Suitable for quality-controlled installation in accordance with RAL-Gütegemeinschaft für Fenster und Haustüren (RAL Quality Association for Windows and Doors) requirements

Colour	White
Backing material	PET fleece
Min. resistance against driving rain (pressure)/conditions	900 Pa/in accordance with DIN EN 1027
Min./max. processing temperature	-5 to 30 °C



Continuation **Universal window sealing tape Euraseal U-305**

Min./max. temperature resistance	-30 to 100 °C
Building material class/conditions	E - Normally inflammable/in accordance with DIN EN 13501-1
Ultraviolet resistance	9 months
Max. outdoor exposure	3 Month
Shelf life from production/conditions	12 Month/at 15°C to 20°C

Width	Length of roll	Art. no.	P. Qty.
70 mm	40 m	0875 594 070	8
100 mm	40 m	0875 594 100	4
150 mm	40 m	0875 594 150	4
200 mm	20 m	0875 594 200	5
250 mm	20 m	0875 594 250	5

Please consider the legal instruction at the beginning of this chapter.



On mineral and highly absorbent surfaces, use primer spray or butyl/bitumen primer.

Window sealing tape Euraseal universal U-305 can be combined:

- Interior: Window sealing tape Euraseal universal U-305/exterior: VKP®Plus
- Interior: Perfect neutral silicone/outdoors: Window sealing tape Euraseal universal U-305

PE backfill sealant

Silicone-free and good joint filling strength

- Corresponds to DIN 18540
- Prevents three-edge adhesion and thus the formation of cracks
- Dispenser carton
- Suitable for universal use on plumbing, concrete and window connection joints

Chemical basis	Polyethylene
Colour	Grey
Min. temperature resistance	-40 °C
Max. temperature resistance	60 °C
CFC (fuel gas) free	Yes
Silicone-free	Yes
DIN	18540



Diameter (Ø)	Length	Art. no.	P. Qty.
6 mm	100 m	0875 806 100	100
10 mm	100 m	0875 810 100	100
15 mm	100 m	0875 815 100	100
20 mm	50 m	0875 820 100	50
30 mm	25 m	0875 830 100	25

Diameter (Ø)	Length	Art. no.	P. Qty.
40 mm	50 m	0875 840 100	50
50 mm	50 m	0875 850 100	50

Please consider the legal instruction at the beginning of this chapter.

Cellular rubber EPDM sealing tape

Particularly resistant to ageing and weathering; sealing tape for permanent sealing with increased requirements for indoor and outdoor use.

- Closed-cell foam for best possible impermeability
- High resilience and material flexibility
- Excellent resistance to weathering, ageing, UV and temperature
- Solvent-free for excellent material compatibility
- Excellent abrasion resistance



Backing material	Ethylene propylene diene natural rubber
Adhesive base	Acrylate dispersion
Width	30 mm
Length	10 m
Total thickness	3 mm
Min./max. temperature resistance	-30 to 100 °C
Ultraviolet resistance	Yes, with outdoor weathering

Art. no. 0875 850 330

P. Qty.: 10

Please consider the legal instruction at the beginning of this chapter.

Vehicle sealing tape

The vehicle sealing tape protects against vibrations and securely and permanently seals joints in a single step.

- Pre-compressed to 20%
- Self-adhesive on one side
- Temperature resistance: -30°C to +90°C
- Vapour-permeable, thereby preventing water build-up
- Once the compression is released, the sealing tape develops a reset force, which presses firmly against the joint edges and compensates for uneven areas.



Min./max. temperature resistance	-30 to 90 °C
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Continuation **Vehicle sealing tape**

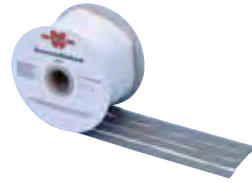
Width	Sealing-tape thickness on delivery	Max. sealing-tape thickness after expansion	Length	Art. no.	P. Qty.
10 mm	2 mm	10 mm	12.5 m	0875 410 2	1/8
15 mm	3 mm	15 mm	10 m	0875 415 3	1/8
15 mm	4 mm	20 mm	8 m	0875 415 4	1/8
20 mm	2 mm	10 mm	12.5 m	0875 420 2	1/8

Please consider the legal instruction at the beginning of this chapter.

Bodywork sealing tape

Permanently plastic, self-adhesive sealing tape for sealing overlaps on bodywork

- Excellent adhesive property
- Good resistance to UV, weather and water
- Resistant to ageing and high temperatures
- Impervious to vapour diffusion
- Noise-damping and vibration-damping
- Self-fusing
- Solvent-free and silicone-free
- Immediate seal



Chemical basis	Butyl natural rubber
Colour	Grey
Width	20 mm
Sealing-tape thickness	2 mm
Length	26 m
Min./max. temperature resistance	-30 to 100 °C
Min./max. processing temperature	5 to 40 °C

Art. no. 0890 100 030

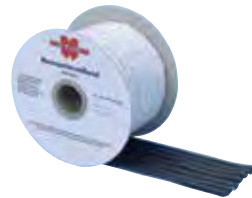
P. Qty.: 1/4

Please consider the legal instruction at the beginning of this chapter.

Round bodywork tape

Permanently plastic, self-adhesive round tape for sealing overlaps on bodywork

- Excellent adhesive property
- Good resistance to UV, weather and water
- Resistant to ageing and high temperatures
- Impervious to vapour diffusion
- Noise-damping and vibration-damping
- Self-fusing
- Solvent-free and silicone-free
- Immediate seal



Chemical basis	Butyl natural rubber
Colour	Black

Min./max. temperature resistance	-30 to 100 °C
Min./max. processing temperature	5 to 40 °C

Diameter (Ø)	Length	Art. no.	P. Qty.
8 mm	17.5 m	0890 100 033	1/4
10 mm	10 m	0890 100 032	1/4

Please consider the legal instruction at the beginning of this chapter.

Leak detector Plus

Testing foam for fast and safe location of leaking areas, micro-leaks and hairline cracks.

- Non-flammable
- Temperature application range (-15°C to +50°C), tested in accordance with DIN51421
- pH-neutral
- Non-corrosive

Contents	0.4 l
Colour	Clear
Smell/fragrance	Mild
Chemical basis	Water tenside
Shelf life from production	24 Month

Art. no. 0890 27

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Leak detector

Detects leaking areas in compressed air and gas systems

- Effortless, time-saving detection of pressurised, leaking areas with success guaranteed
- Non-flammable, therefore can also be used on systems, containers and pipes with flammable gases
- Processing temperature: +5°C to +50°C
- Freezes at 0°C

Colour	Colourless
Smell/fragrance	Product-typical
Chemical basis	Water, soap and glycol
Shelf life from production	24 Month



Contents	Art. no.	P. Qty.
0.4 l	0890 20	1/12
5 l	0890 201	1
20 l	0890 300 20	1

Please consider the legal instruction at the beginning of this chapter.

Continuation **Leak detector**

Is resistant to frost, can be applied again once thawed.

When using with systems containing oxygen, it must be ensured that these are constantly pressurised during testing. If not, low pressure could result in the leak-finding fluid entering the system and reacting with the oxygen. Rinse residual leak-finding fluid out with clear water immediately after testing.

Only spray suspected areas lightly; leaks are shown by foam forming

Fluid leak detector

Quick-drying powder spray for detecting leaks in systems carrying fluids

Grease and silicone-free

Contents	400 ml
Colour	White
Shelf life from production	24 Month

Art. no. 0890 200 400

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Only use in well-ventilated areas. Do not inhale aerosols, use a dust mask.



Sealant remover

Removes sealing materials, adhesives, paints, etc. in just minutes

Firm consistency

No dripping off vertical surfaces

Contents	300 ml
Smell/fragrance	Alcohol
Chemical basis	Mix of organic solvents
pH value	10.6-11.0

Art. no. 0893 100 0

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

- Protect painted surfaces
- Check compatibility prior to application
- Not suitable for sensitive plastics, PVC and synthetics



Exhaust assembly paste

Soft compound for quick, easy and completely gas-tight assembly of sleeve (pipe plug) and flange connectors in exhaust systems.



- No complicated welding required
- Becomes as hard as metal due to the heat from the exhaust
- Temperature resistant up to approx. 700°C
- Seals off permanently
- Resistant to impacts and vibration
- Not susceptible to rust – hence easy to dismantle

Weight of content	140 g
Colour	Grey
Smell/fragrance	Odourless
Chemical basis	Sodium silicate
Shelf life from production	12 Month

Art. no. 0890 100 045

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Exhaust putty

Small holes and cracks in the silencer system can be easily and permanently repaired so that they are gas-tight.



- Extremely heat-resistant
- Resistant to major temperature fluctuations
- No need to remove the silencer or carry out welding work

Weight of content	200 g
Colour	Grey
Smell/fragrance	Odourless
Shelf life from production	12 Month

Art. no. 0890 100 046

P. Qty.: 1/10

Please consider the legal instruction at the beginning of this chapter.

For quicker hardening, leave the engine to idle at low speed for around quarter of an hour.

Super RTV silicone adhesive and sealing compound

High-quality adhesive and sealing compound for use in industry and the automotive sector.

- Excellent chemical resistance
- Non-acidic hardening system
- Sealant in compressed-air can



Contents	200 ml
Chemical basis	Neutral crosslinked silicones, oxime-based

Colour	Min./max. temperature resistance	Max. short-term temperature resistance	Range of applications	Art. no.	P. Qty.
Black	-60 to 260 °C	300 °C	Water pumps, Oil pumps, Front cover, Camshaft bearing cover, Thermostat housing, Oil pans, Transmission cover, Sunroof, Doors	0893 331 1	1/12
Red	-60 to 315 °C	370 °C	Oil pumps, Front cover, Camshaft bearing cover, Oil pans, Transmission cover, Exhaust manifold, Exhaust flange, Cover and flange on engines, Intake area	0893 331 2	1/12
Blue	-60 to 260 °C	300 °C	Oil pans, Valve cover, Rear axle housing, Crankshaft housing, Differential housing, Camshaft bearing cover	0893 331 3	1/12
Transparent	-60 to 260 °C	300 °C	Sealing of accumulators, Sealing of halogen lamp, Sealing of vehicle body parts, Sealing of transformer	0893 331 4	1/12
Grey	-60 to 260 °C	300 °C	Water pumps, Oil pumps, Front cover, Camshaft bearing cover, Thermostat housing, Oil pans, Transmission cover, Intake area, Sealing of accumulators	0893 331 6	1/12

Please consider the legal instruction at the beginning of this chapter.

When sealing e.g. oil pans and gearboxes it is vital that no sealant gets into the interior. For this reason we recommend to apply the sealant on a joining part surface. Join both parts and then carefully press by hand and lightly slide against each other. Afterwards separate the parts again and then remove the sealant that has gone inside. Join the components again within a max. of 5 minutes and tighten firmly. Before commissioning, observe the hardening time (depending on the sealant thickness).

Engine and housing sealing compound DP 300

Permanently plastic engine and housing sealing compounds with high degree of temperature resistance

- Excellent sealing ability thanks to permanently plastic (non-hardening) properties
- Resistance to vibration guaranteed even after years of exposure
- Temperature-resistant from -50°C to +270°C; for brief periods up to +300°C



Weight of content	89.6 g
Chemical basis	Polyurethane
Colour	Red
Min./max. temperature resistance	-50 to 250 °C
Shelf life from production	60 Month

Art. no. 0890 100 048

P. Qty.: 1/10

Please consider the legal instruction at the beginning of this chapter.

NSF registered, class P1, reg. no. 151822



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Not suitable for sealing oil pans.

Material combinations:

1. Metal – metal
2. Metal – plastic
3. Plastic – plastic

Engine sealing compound Silicone Special 180

Permanently elastic silicone sealing compounds for engine and bodywork with excellent adhesion

- Cold-vulcanising silicone rubber
- Bridges larger unevenness
- Reliable at sealing, even after withstanding years of vibrations
- Does not run or pull threads
- Excellent adhesion and chemical resistance
- Skin formation after just a few minutes, vulcanisation rate approx. 1.5 mm/day



Contents	70 ml
Colour	Transparent
Min. skin-formation time	8 min
Max. skin-formation time	15 min

Continuation **Engine sealing compound Silicone Special 180**

Conditions for skin-formation time	at 23 °C and 50% relative humidity
Elongation at break	300 %
Continuous motion absorption (up to 150 °C)	25 %
Min./max. temperature resistance	-50 to 150 °C
Max. short-term temperature resistance	180 °C
Min./max. processing temperature	5 to 60 °C

Art. no. 0890 320

P. Qty.: 1/10

Please consider the legal instruction at the beginning of this chapter.

Engine sealing compound Silicone Special 250

Permanently elastic silicone sealing compounds for engine and bodywork, brief temperature resistance of 300 °C



- Seals reliably even after years of vibration
- Outstanding adhesion and chemical resistance
- Does not run or draw threads
- Forms a skin after a few minutes, vulcanisation time approx. 1.5 mm/day

Contents	70 ml
Min. skin-formation time	6 min
Max. skin-formation time	12 min
Conditions for skin-formation time	at 23 °C and 50% relative humidity
Elongation at break	300 %
Continuous motion absorption (up to 150 °C)	25 %
Min./max. temperature resistance	-50 to 250 °C
Max. short-term temperature resistance	300 °C
Min./max. processing temperature	5 to 40 °C

Colour	Art. no.	P. Qty.
Black	0890 323	1/10
Red	0890 321	1/10

Please consider the legal instruction at the beginning of this chapter.

1C engine sealant

Replacement for solid seals around the engine, on pressure tanks as well as on screw connections.

High temperature resistance

Compression-proof up to approx. 700 bar

Excellent bonding

100% seal is achieved even on uneven surfaces

Permanently elastic

Protects against corrosion

Weight of content	100 g
Chemical basis	Epoxy resin
Colour	Red
Min./max. skin-formation time	5-7 min
Min./max. temperature resistance	-50 to 280 °C
Shelf life from production	12 Month



Art. no. 0893 260 100

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Not suitable as a cylinder head gasket.

Resistance list: Engine sealant has a proven track record against the following media:

Engine oil, gearbox oil, hydraulic oil, diesel, heating oil, coolant, brake fluid, waste water, alkaline lye, formic acid, alcohols (methyl, ethyl etc.), ethyl acetate, acetone, chlorinated solution, phosphoric acid (10%).
Gases: Acetylene, carbon dioxide, propane, sulphur dioxide, nitrogen.

Hydraulic seal

For sealing pneumatic and hydraulic screw connections subject to high loads. With screw connections, up to the burst pressure of the pipe/hose

- Excellent resistance to all hydraulic fluids and fuels
- Quick to harden, even at low temperatures
- 100% sealing
- Resistant to a large number of alkaline solutions, gases, solvents, oils and fuels
- Silicone-free

Chemical basis	Methacrylic acid ether
Colour	Violet
Density	1.2 g/cm ³
Max. gap-filling ability	0.15 mm
Suitable for	Thread diameter max. R 3/4 inch
Min./max. initial strength	30-40 min
Min./max. functional strength	2-3 h
Min./max. final strength	12 h-24 h
Min./max. processing temperature	5 to 35 °C
Min./max. temperature conditions	-55 to 150 °C
Shelf life from production	12 Month



Continuation **Hydraulic seal**

Weight of content	Art. no.	P. Qty.
50 g	0893 545 050	1
250 g	0893 545 250	1

Please consider the legal instruction at the beginning of this chapter.

The following plastics can be affected in the event of prolonged exposure: ABS, celluloid, polystyrene, polycarbonate (Macrolon), PMMA (Plexiglas), polysulfone, SAN (Iurane, Tyril), Vinidur, vulcanised fibre and painted surfaces. We always recommend that you conduct your own tests.

Sealant Dichtfix

Sprayable, MS polymer-based sealant for restoring the original texture following accident repair work.

- Very broad adhesive range
- High Shore A hardness
- High tensile strength and elongation at tear

Contents	310 ml
Chemical basis	POP mixed polymer
Density/conditions	1.48 g/cm ³ /at 23 °C, 50% relative humidity
Min./max. processing temperature	5 to 30 °C
Min./max. temperature resistance	-40 to 80 °C
Shelf life from production	12 Month



Colour	Art. no.	P. Qty.
Black	0893 226	1/12
Grey	0893 228	1/12
White	0893 227	1/12

Please consider the legal instruction at the beginning of this chapter.

Do not allow Seal/Fix to come into contact with fresh PU materials (i.e. those that have not yet hardened). When painting over with metallic paints, a blocking primer should definitely be applied. Optimum adhesion between the paint and the Seal/Fix is achieved when the material is painted immediately following application.

The painting over should be done within 2 hours of application.

Paintable body sealant

Sealant for true-to-original reproduction of the brushed texture from the factory.

- Fast drying
- Can be painted over after one hour
- Silicone-free
- Permanently elastic
- Easy to spread
- Suitable for application with the brush
- Resistant to water and mineral oil
- Adheres well to bare, primed and painted metal
- Basis: Nitrile rubber



Colour	Light grey (bright grey)
Chemical basis	Nitrile natural rubber
Min./max. temperature resistance	-25 to 80 °C
Max. short-term temperature resistance	150 °C
Resistance against	Mineral oils, Water

Art. no. 0892 010

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

The product is not UV-resistant, but can be painted over for protection against UV radiation.

Sealing compound Modelling clay

Soft, permanently plastic sealing compound in original state

Can be moulded by hand

Can be pushed into the joint to be sealed etc.

Good adhesion

Does not shrink

Resistant to water



Colour	Dark grey
Min./max. temperature resistance	-30 to 100 °C
Max. short-term temperature resistance	150 °C
Resistance against	Water

Art. no. 0890 100 028

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.



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Medium-strength screw retainer

Removable screw retainer and sealing compound – one-handed dispensing system

- Produces medium-strength connection
- Can also be applied to stainless steel and passivated surfaces
- Prevents detachment, e.g. through vibration and shock loads

NSF-tested in accordance with ANSI 61, DVGW (German association of gas and water) (DIN EN 751-1)

Chemical basis	Dimethacrylic acid ester
Colour	Blue fluorescent
Suitable for max. thread	M36
Max. gap-filling ability	0.25 mm
Min./max. initial strength	5-15 min
Min./max. functional strength	0.5-1 h
Min./max. final strength	1 h-3 h
Min./max. temperature conditions	-55 to 150 °C
Shelf life from production	12 Month

Weight of content	Art. no.	P. Qty.
25 g	0893 243 025	1
50 g	0893 243 050	1
250 g	0893 243 250	1

Please consider the legal instruction at the beginning of this chapter.

Movement detection paint

Solvent-free locking, marking and sealing lacquer with good adhesion to virtually all materials

- Suitable for outdoor use
- High insulation resistance
- High mechanical strength, but removable.
- No corrosion
- High resistance to water, limited resistance to oil, petrol and diesel
- Solvent and silicone-free

Practical accordion bottle

- Easy handling
- Better residue removal
- No clogging of the tip



Contents	50 ml
Min./max. processing temperature	5 to 30 °C
Min./max. temperature resistance	-40 to 145 °C
Min. initial strength	30 min
Min./max. final strength	12 h-24 h
Shelf life from production	24 Month

Colour	Art. no.	P. Qty.
Colza Yellow RAL 1021	0893 741 452	1/12
Flame red RAL 3000	0893 741 451	1/12
Light blue RAL 5012	0893 741 453	1/12
Pure green RAL 6037	0893 741 454	1/12

Please consider the legal instruction at the beginning of this chapter.

High-strength screw retainer

Tough removable screw retainer and sealing compound – single-handed dispensing system

- Ideal for screw connections exposed to high stresses
- 100% sealing – no additional fixings necessary
- Protects against corrosion due to friction, and against rust
- Excellent media and heat resistance
- Prevents removal e.g. due to vibrations and impacts
- Highly resistant
- Silicone-free

Chemical basis	Dimethacrylic acid ester
Colour	Green fluorescent
Suitable for max. thread	M25
Max. gap-filling ability	0.15 mm
Min./max. initial strength	5-15 min
Min./max. functional strength	1-3 h
Min./max. final strength	5 h-10 h
Min./max. temperature conditions	-55 to 150 °C
Shelf life from production	12 Month



Continuation **High-strength screw retainer**

Weight of content	Art. no.	P. Qty.
25 g	0893 270 025	1
50 g	0893 270 050	1
250 g	0893 270 250	1

Please consider the legal instruction at the beginning of this chapter.

NSF-tested in accordance with ANSI 61



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

The following plastics can be affected in the event of prolonged exposure: ABS, celluloid, polystyrene, polycarbonate (Makrolon), PMMA (Plexiglas), polysulfone, SAN (Luran, Tyril), Vinidur, vulcanised fibre and painted surfaces. We always recommend that you conduct your own tests.

Fügest heat-resistant

For fastening bushings and bearings exposed to high temperatures.

- Maximum joint filling capacity of 0.2 mm
- Prevents frictional corrosion
- Strength at 100°C still 85% of maximum strength
- Fast curing
- Resistant to a large number of bases, gases, solvents, oils and fuels
- Silicone and solvent-free



Colour	Green
Min./max. initial strength	30-40 min
Min./max. final strength	12 h-24 h
Min./max. processing temperature	5 to 35 °C
Suitable for max. thread	M36
Min./max. temperature conditions	-55 to 200 °C
Shelf life from production	12 Month

Weight of content	Chemical basis	Art. no.	P. Qty.
50 g	Dimethacrylic acid ester	0893 620 050	1
250 g	Dimethacrylic acid ether	0893 620 250	1

Please consider the legal instruction at the beginning of this chapter.

The following plastics can be affected in the event of prolonged exposure: ABS, celluloid, polystyrene, polycarbonate (Macrolon), PMMA (Plexiglas), polysulfone, SAN (lurane, Tyril), Vinidur, vulcanised fibre and painted surfaces. We always recommend that you conduct your own tests.

High-strength bearing locking

For high-strength connection of cylindrical parts subject to high loads

- Reliable hardening at low temperatures around 0 °C.
- Able to fill gaps of 0.15 mm
- Prevents frictional corrosion
- Resistant to a large number of bases, gases, solvents, oils and fuels

DOS system:

- Practical one-handed use thanks to the clever turn lock.
You always have one hand free.
- Infinitely adjustable dosing system enables dispensing to be adjusted to suit the application, and to keep consumption and costs to a minimum.
- No residue material in dispensing neck
Costs optimised thanks to emptying with virtually no remaining product



Chemical basis	Methacrylic acid ether
Colour	Green
Min./max. initial strength	5-10 min
Min./max. final strength	3 h-6 h
Min./max. processing temperature	5 to 35 °C
Suitable for max. thread	M12
Min./max. temperature conditions	-55 to 150 °C
Shelf life from production	12 Month

Weight of content	Art. no.	P. Qty.
25 g	0893 603 025	1
50 g	0893 603 050	1

Please consider the legal instruction at the beginning of this chapter.

NSF registered, class P1, reg. no. 151997



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

Caution:

The following plastics can be affected in the event of prolonged exposure: ABS, celluloid, polystyrene, polycarbonate (Macrolon), PMMA (Plexiglas), polysulfone, SAN (Iurane, Tyril), Vinidur, vulcanised fibre and painted surfaces. We always recommend that you conduct your own tests.

Surface sealant Green

For sealing flanges and surfaces with minimum joints up to max. 0.3 mm. Replacement for solid seals.

- Low-strength
- 100% seal
- Resistant to a large number of bases, gases, solvents, oils and fuels
- Easy to drain residual product due to accordion bottle
- Silicone and solvent-free



Chemical basis	Dimethacrylic acid ester
Colour	Green fluorescent
Fully hardening/curing conditions	Exclusion of oxygen and contact with metal (copper or iron ions)
Density/conditions	1.05 g/cm ³ /in accordance with DIN EN ISO 2811-1
Min./max. initial strength	15-30 min
Min./max. functional strength	3-6 h
Min./max. final strength	6 h-24 h
Min./max. processing temperature	5 to 35 °C
Min./max. temperature conditions	-55 to 150 °C
Shelf life from production/conditions	18 Month/at room temperature

Weight of content	Art. no.	P. Qty.
50 g	0893 573 050	1
250 g	0893 573 250	1

Please consider the legal instruction at the beginning of this chapter.

NSF registered, class P1, reg. no. 151996



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

The following plastics can be affected in the event of prolonged exposure: ABS, celluloid, polystyrene, polycarbonate (Macrolon), PMMA (Plexiglas), polysulfone, SAN (Iurane, Tyril), Vinidur, vulcanised fibre and painted surfaces.

Surface sealant Orange

For sealing flanges and surfaces with minimum joints up to max. 0.5 mm. Replacement for solid seals.

Chemical basis	Dimethacrylic acid ester
Colour	Orange fluorescent
Fully hardening/curing conditions	Exclusion of oxygen and contact with metal (copper or iron ions)
Density/conditions	1.05 g/cm ³ /in accordance with DIN EN ISO 2811-1
Min./max. initial strength	10-20 min
Min./max. functional strength	3-6 h
Min./max. final strength	6 h-24 h
Min./max. processing temperature	5 to 35 °C
Min./max. temperature conditions	-55 to 150 °C
Shelf life from production/conditions	18 Month/at room temperature



Weight of content	Art. no.	P. Qty.
50 g	0893 574 050	1
250 g	0893 574 250	1

Please consider the legal instruction at the beginning of this chapter.

NSF registered, class P1, reg. no. 151995



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

The following plastics can be affected in the event of prolonged exposure: ABS, celluloid, polystyrene, polycarbonate (Macrolon), PMMA (Plexiglas), polysulfone, SAN (Iurane, Tyril), Vinidur, vulcanised fibre and painted surfaces.

Non-running surface sealant

For sealing flanges and surfaces with a large gap.

Viscous product.

- Viscous product
- 100% seal
- Slight flexibility up to 120 °C
- Seals immediately under low pressure
- Also suitable for passive metals
- Quick to harden
- Resistant to a large number of alkaline solutions, gases, solvents, oils and fuels



Chemical basis	Methacrylic acid ether
Colour	Red fluorescent
Fully hardening/curing conditions	Exclusion of oxygen and contact with metal (copper or iron ions)
Density/conditions	1.1 g/cm ³ /in accordance with DIN EN ISO 2811-1
Min./max. initial strength	30-60 min
Min./max. functional strength	1-3 h
Min./max. final strength	24 h-72 h
Min./max. processing temperature	5 to 35 °C
Min./max. temperature conditions	-55 to 150 °C
Shelf life from production/conditions	18 Month/at room temperature

Weight of content	Art. no.	P. Qty.
50 g	0893 518 050	1
250 g	0893 518 250	1

Please consider the legal instruction at the beginning of this chapter.

The following plastics can be affected in the event of prolonged exposure: ABS, celluloid, polystyrene, polycarbonate (Macrolon), PMMA (Plexiglas), polysulfone, SAN (Iurane, Tyril), Vinidur, vulcanised fibre and painted surfaces. We always recommend that you conduct your own tests.

Medium-strength pipe sealant

For sealing all metallic pipe couplings and fittings with conical/cylindrical threads in line with DIN 2999

- Firmly tightened connections can be immediately loaded up to approx. 5 bar after final curing up to the burst pressure of the pipes
- High media resistance to most industrial liquids and gases
- Sealing compound does not leak out of thread

Weight of content	50 g
Chemical basis	Dimethacrylic acid ester
Fully hardening/curing conditions	Exclusion of oxygen and contact with metal (copper or iron ions)
Colour	Yellow fluorescent
Max. gap-filling ability	0.5 mm
Min./max. initial strength	15-30 min
Min./max. functional strength	1-3 h



Max. final strength	6 h
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-55 to 150 °C
Suitable for	Thread diameter max. R 3 inch (M80)

Art. no. 0893 577 050

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Certified quality

- DVGW approval (Reg. No. NG-5146BM0336+0037), tested to DIN EN 751-1
- NSF-tested to NSF/ANSI 61



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

- Not suitable for screw connections containing copper (brass, bronze, red brass) that come into contact with water > 40°C. Not permitted for gas connections in buildings in Germany. In accordance with TRGI '86/96.
- The thread must be cut in accordance with the standard. During and once the product has hardened, the connections may not be rotated against each other, i.e. readjustment is not permitted.
- The following plastics can be affected in the event of prolonged exposure: ABS, celluloid, polystyrene, polycarbonate (Macrolon), PMMA (Plexiglas), polysulfone, SAN (Iurane, Tyril), Vinidur, vulcanised fibre and painted surfaces. We always recommend that you conduct your own tests
- The initial strength, final strength and functional strength depend on the material
- Not permitted for gas connections in buildings in Germany in accordance with TRGI '86/96.

Low-strength pipe sealant with PTFE

For sealing all metallic pipe couplings and fittings with conical/cylindrical threads in line with DIN 2999

- Low-strength – Easy to disassemble
- Immediate seal against pressures up to 5 bar
- Sealing compound does not leak out of thread
- Resistant to most gases and liquids, in accordance with DIN 2999

Weight of content	250 g
Chemical basis	Methacrylic acid ether
Fully hardening/curing conditions	Exclusion of oxygen and contact with metal (copper or iron ions)
Colour	White
Max. gap-filling ability	0.5 mm
Min./max. initial strength	10-20 min
Min./max. functional strength	1-3 h
Max. final strength	24 h
Min./max. processing temperature	5 to 35 °C



Continuation **Low-strength pipe sealant with PTFE**

Min./max. temperature resistance	-55 to 150 °C
Shelf life from production/conditions	18 Month/at room temperature
Suitable for	Thread diameter max. M80, Thread diameter max. R 3 inch

Art. no. 0893 511 250

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Certified quality

- DVGW approval (reg. no. NG-5146BM0338), tested to DIN EN 751-1
- NSF-tested to NSF/ANSI 61



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

- Not suitable for screw connections containing copper (brass, bronze, red brass) that come into contact with water > 40°C. Not permitted for gas connections in buildings in Germany. In accordance with TRGI '86/96.
- The thread must be cut in accordance with the standard. During and once the product has hardened, the connections may not be rotated against each other, i.e. readjustment is not permitted.
- The following plastics can be affected in the event of prolonged exposure: ABS, celluloid, polystyrene, polycarbonate (Macrolon), PMMA (Plexiglas), polysulfone, SAN (Iurane, Tyril), Vinidur, vulcanised fibre and painted surfaces. We always recommend that you conduct your own tests
- The initial strength, final strength and functional strength depend on the material



Tile adhesive Classic CERAFix® 402 C2 TE Flex

For all ceramic coverings in accordance with EN12004, C2 TE, for indoor and outdoor use

- Very good durability and high initial adhesion
- Long adhesive open and processing times
- Water-resistant and alternating frost/thaw-resistant
- Suitable for underfloor heating

Tested in accordance with EN 12004 C1

- Fire behaviour: A1R/A1
- Adhesive tensile strength after dry storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after wet storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after thermal storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after freeze/thaw alternating load: $\geq 1 \text{ N/mm}^2$

Weight of content	25 kg
Chemical basis	Cement, polymer modified additives
Standards	EN 12004
Colour	Grey
Processing time	2 h
Application conditions	at 20 °C and 65% relative humidity
May be walked on after max.	24 h
May be walked on in following conditions	at 20 °C and 65% relative humidity
Groutable after	24 h
Grouting condition	at 20 °C and 65% relative humidity

Continuation **Tile adhesive Classic CERAFix® 402 C2 TE Flex**

Full load capacity/conditions	28 d/at 20°C and 65% relative humidity
Min./max. processing temperature	5 to 25 °C
Shelf life from production/conditions	12 Month/cool and dry storage area

Art. no. 5875 100 402

P. Qty.: 24/42

Please consider the legal instruction at the beginning of this chapter.

Tile adhesive CERAFix® 402-2 C2 TE Flex

Hydraulically hardening, flexible thin bed and medium bed mortars in accordance with EN 12004 C2 TE

- Can be used on all common surfaces and all ceramic coverings
- Resistant to thawing/freezing alternations
- Suitable for underfloor heating



Weight of content	25 kg
Container	Paper bag
Chemical basis	Cement
Standards	EN 12004
Colour	Grey
Processing time	20 min
Min./max. open time/conditions	20-20 min/at 20°C
May be walked on after max.	12 h
May be walked on in following conditions	at 20°C and 50% relative humidity
Groutable after	12 h
Grouting condition	at 20°C and 50% relative humidity
Full load capacity/conditions	7 d/at 20°C and 50% relative humidity
Min./max. processing temperature	5 to 25 °C

Art. no. 5875 200 402

P. Qty.: 24/42

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with EN 12004:2007+A1:2012 C2 TE

- Fire behaviour: A1/A1fl
- Adhesive tensile strength after dry storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after wet storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after thermal storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after freeze/thaw alternating load: $\geq 1 \text{ N/mm}^2$



For further information, please refer to the technical data sheet.

Light tile adhesive PLUS CERAfix® 403 C2 TE S1Flex/XL

Light tile adhesive that produces little dust for all ceramic coverings in accordance with EN 12004, C2 TE S1

Excellent stability and high degree of initial adhesion

- Prevents wall covering tiles from slipping
- Heavy and large tiles can be securely bonded

Long adhesive drying and processing times

- Corrections can be made long after tiles are laid
- Fast laying progress

Resistant to thawing/freezing alternations

- Suitable for indoor and outdoor use



Weight of content	15 kg
Container	Plastic sack
Chemical basis	Cement, polymer modified additives
Standards	EN 12004
Colour	Grey
Processing time	2 h
Application conditions	at 20 °C and 65% relative humidity
May be walked on after max.	24 h
May be walked on in following conditions	at 20 °C and 65% relative humidity
Groutable after	24 h
Grouting condition	at 20 °C and 65% relative humidity
Full load capacity/conditions	7 d/at 20 °C and 65% relative humidity
Min./max. processing temperature	5 to 25 °C
Shelf life from production/conditions	12 Month/cool and dry storage area

Art. no. 5875 100 403

P. Qty.: 24

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with EN 12004 C2

- Fire behaviour: A1/A1fl
- Adhesive tensile strength after dry storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after wet storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after thermal storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after freeze/thaw exposure: $\geq 1 \text{ N/mm}^2$
- Slip size: $\geq 0.5 \text{ N/mm}^2$

Flexible mortar, EMICODE EC1 Plus



Higher temperatures and low relative humidity accelerate the film formation time; lower temperatures and higher relative humidity extend the hardening time.

Tile adhesive CERAfix® 403-2 C2 TE S1 Flex/XL

Hydraulically hardening, flexible, highly pourable thin bed and medium bed mortars in accordance with EN 12004 C2 TE S1

- Suitable for thin bed and medium bed mortars
- Can be used on all common surfaces and is resistant to water and alternating freezing/thawing
- Suitable for all ceramic coverings and underfloor heating



Weight of content	25 kg
Container	Paper bag
Chemical basis	Cement - DIN EN 197 Selected Aggregates - DIN EN 13139 additives and aggregates
Standards	EN 12004
Colour	Grey
Processing time	30 min
May be walked on after max.	12 h
May be walked on in following conditions	at 20°C and 50% relative humidity
Groutable after	12 h
Grouting condition	at 20°C and 50% relative humidity
Full load capacity/conditions	14 d/at 20°C and 50% relative humidity
Min./max. processing temperature	5 to 25 °C
Shelf life from production/conditions	12 Month/dry storage area

Art. no. 5875 200 403

P. Qty.: 24/42

Please consider the legal instruction at the beginning of this chapter.

Tested in line with EN 12004 C2 FE S1

- Fire behaviour: A1/A1fl
- Adhesive tensile strength after dry storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after wet storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after thermal storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after freeze/thaw exposure: $\geq 1 \text{ N/mm}^2$
- Slip size: $\geq 0.5 \text{ N/mm}^2$



For further information, please refer to the technical data sheet.

Tile adhesive CERAfix® 412-2 C2 TE Flex

White, hydraulically hardened, plastic-coated natural stone thin-bed mortar in accordance with EN 12004 C2 TE

- White tile adhesive, specifically for natural stone
- The positioned tiles adhere immediately, but can still be moved
- Resistant to water and alternating freezing/thawing and suitable for underfloor heating systems



Weight of content	25 kg
Container	Paper bag
Chemical basis	White cement - DIN EN 197 selected aggregates - DIN EN 12620 additives and admixtures
Standards	EN 12004
Colour	White
Processing time	20 min
May be walked on after max.	12 h
May be walked on in following conditions	at 20 °C and 50% relative humidity
Groutable after	24 h
Grouting condition	at 20 °C and 50% relative humidity
Full load capacity/conditions	14 d/at 20 °C and 50% relative humidity
Min./max. processing temperature	5 to 25 °C
Shelf life from production/conditions	12 Month/dry storage area

Art. no. 5875 200 412

P. Qty.: 24/42

Please consider the legal instruction at the beginning of this chapter.

Tested in line with EN 12004 C2 TE

- Fire behaviour: A1/A1fl
- Adhesive tensile strength after dry storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after immersion in water: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after heat storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after freeze/thaw alternating load: $\geq 1 \text{ N/mm}^2$



For further information, please refer to the technical data sheet.

Tile adhesive CERAfix® 404-2 C2 FT S1 Flex/XL

Fast bonding flexible mortar C2 FT S1 in accordance with DIN EN 12004

- Excellent adhesive strength of $\geq 1.0 \text{ N/mm}^2$ and high initial adhesion
- Very smooth and malleable application
- Resistant to thawing/freezing alternations



Weight of content	25 kg
Container	Sack
Chemical basis	Cement - DIN EN 197 Selected Aggregates - DIN EN 12620 additives and admixtures
Standards	EN 12004
Colour	Grey
Processing time	30 min
Application conditions	at 20°C and 65% relative humidity
Min./max. open time/conditions	20-20 min/at 20°C and 65% humidity
May be walked on after max.	3 h
May be walked on in following conditions	at 20°C and 65% relative humidity
Groutable after	4 h
Grouting condition	at 20°C and 65% relative humidity
Full load capacity/conditions	3 d/at 20°C and 65% relative humidity, by rain
Min./max. processing temperature	5 to 25 °C
Shelf life from production/conditions	9 Month/at room temperature

Art. no. 5875 200 404

P. Qty.: 24/42

Please consider the legal instruction at the beginning of this chapter.



Cement has an alkaline reaction with moisture or mixing water. Material that is already binding may not be subsequently diluted with water. For unusually absorbent, new, or unusual surfaces and laying materials, a test patch should be applied. This product is low in chromate in accordance with directive 2003/53/EC, Giscod ZP1

Tile adhesive PLUS CERAfix® 403 C2 TE S1Flex/XL

Extremely high stability and flexible tile adhesive for floors and walls according to EN 12004, C2 TE S1 for internal and external applications. Up to 35% higher yields.

- Suitable for thin and medium bed mortars
- Fulfils and exceeds class C2 in accordance with EN 12004
- Fulfils class S1 for pliable tile adhesive
- Excellent stability and high degree of initial adhesion
- Long adhesive drying and processing times
- Very smooth and malleable application



Weight of content	25 kg
Container	Plastic sack
Chemical basis	Cement, polymer modified additives
Standards	EN 12004
Colour	Cement grey
Processing time	2 h
Application conditions	at 23 °C and 50% relative humidity
May be walked on after max.	12 h
May be walked on in following conditions	at 23 °C and 50% relative humidity
Groutable after	12 h
Grouting condition	at 23 °C and 50% relative humidity
Full load capacity/conditions	7 d/at 23 °C and 50% relative humidity
Min./max. processing temperature	5 to 25 °C
Shelf life from production/conditions	12 Month/cool and dry storage area

Art. no. 5875 100 404

P. Qty.: 24/42

Please consider the legal instruction at the beginning of this chapter.

EMICODE EC1plus: Very low emission – the EMICODE classification system indicates the environmental and health compatibility of construction products. Low-emission products have the EC1plus label.



Chromate-reduced. For further information, please refer to the technical data sheet.

Tile adhesive PLUS CERAfix® 412 C2 FT Flex

**White, flexible, fast-hardening natural stone adhesive
in accordance with EN 12004, C2 FT**

- Quality tested according to EURO-NORM
- High degree of flexibility
- Quick to set
- Good stability and high degree of initial adhesion
- Water-resistant
- Suitable for underfloor heating
- Fast crystalline water binding



Weight of content	25 kg
Container	Sack
Chemical basis	White cement, sand, additives (polymer modified)
Standards	EN 12004
Colour	White
Processing time	1 h
Application conditions	at 20°C and 65% relative humidity
Min./max. open time/ conditions	15-20 min/at 20°C and 65% humidity
May be walked on after max.	4 h
May be walked on in following conditions	at 20°C and 65% relative humidity
Groutable after	4 h
Grouting condition	at 20°C and 65% relative humidity
Full load capacity/conditions	7 d/at 20°C and 65% relative humidity
Min./max. processing temperature	5 to 25 °C
Shelf life from production/ conditions	12 Month/dry storage area

Art. no. 5875 100 412

P. Qty.: 24

Please consider the legal instruction at the beginning of this chapter.

Tested in line with EN 12004 C2 FT

- Fire behaviour: A1/A1fl
- Adhesive tensile strength after dry storage for 24 hours: $\geq 0.5 \text{ N/mm}^2$
- Adhesive tensile strength after dry storage for 28 hours: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after wet storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after thermal storage: $\geq 1 \text{ N/mm}^2$
- Adhesive tensile strength after storage in alternating freezing/thawing conditions: $\geq 1 \text{ N/mm}^2$
- Slip size: $\geq 0.5 \text{ N/mm}^2$



Priming Rendering base

White-pigment, solvent-free special primer with quartz for optimum adhesion and grip for indoor and outdoor use

For wall and ceiling surfaces

Flexible application

- Apply with a paint roller, brush, paintbrush or suitable spray device
- With machine application, it is possible to obtain a spraying consistency by adding just a little water

Makes working practices easier

Weight of content	15 kg
Chemical basis	Acrylate dispersion
Colour	White
Drying time	8 h
Min. processing temperature	5 °C
Shelf life from production	24 Month

Art. no. 0890 545 15

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Do not work surfaces already coated with a rendering base must with gypsum or cement-based fillers. The object and ambient temperatures must not drop below 5°C.

40 items on one pallet



Priming Concrete contact

Ready-to-use etching primer containing quartz for smooth, mineral surfaces for indoor and outdoor applications

Application with a roller, brush or suitable spraying device

Improves the adhesion of gypsum, cement and lime-based fillers and plasters to smooth, non-absorbent or slightly absorbent mineral surfaces

Environmentally friendly

- Solvent-free
- Low emissions
- Highly resistant to alkali

Can be diluted with water for machine application

Weight of content	20 kg
Chemical basis	Acrylate polymer dispersion
Adhesive agent	Synthetic dispersion to DIN 55945
Colour	Reddish glaze
Drying time	24 h
Min. processing temperature	5 °C
Shelf life from production	60 Month



Continuation **Priming Concrete contact**

Art. no. 0890 545 20

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

32 pieces on one pallet

Avoid contact with skin and eyes. In case of contact, rinse immediately with water. Wear safety goggles when working overhead. Store the container in a cool, dry and frost-protected place. Keep the container tightly closed.

Deep-penetrating primer

Solvent-free, transparent primer for surface hardening and regulation of absorbency.

- High penetration due to fine-particle Hydrosol
- Excellent adhesive action
- Quick-drying
- Suitable for indoor and outdoor use
- Ready-to-use
- Alkali-resistant
- Minimised emissions and solvent-free



Contents	10 l
Chemical basis	Acrylic copolymer hydrosol
Colour	Transparent
Can be further processed after max.	8 h
Min./max. processing temperature	5 to 35 °C
Shelf life from production	12 Month

Art. no. 0890 545 10

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Tile dispersion primer CERAfix® 101

Solvent-free, ready-to-use, dispersion-based universal primer for indoor and outdoor use

Ready to use

- Can be used directly from the container
- No mixing required
- Fast application

Quick drying time

- Quick to build up layers (e.g. with subsequent sealing and laying work).
- Reduces downtimes



Colour	Light blue (bright blue)
Can be covered after min.	3 h

Min./max. processing temperature	5 to 30 °C
Min/max. application quantity in weight/area	180-200 g/m ²
Shelf life from production	15 Month
Drying time	3 h
Conditions for drying time	at 20°C and 65% relative humidity

Weight of content	Contents	Art. no.	P. Qty.
	10 l	5875 100 101	1
26125 g	25 l	5875 101 101	1

Please consider the legal instruction at the beginning of this chapter.



CERAFix 101 must be dry before the next coat is applied. Cover surfaces not to be treated (e.g. windows and doors) prior to application. Surface may not be sticky when further work is carried out! Do not work wet in wet. Protect from frost.

2-C special adhesive primer CERAFix® 103

Solvent-free 2-component special epoxy resin-based primer and sealant for indoor and outdoor applications

- For universal use
- Reduces substrate absorption
- Excellent adhesive bond
- Balanced mixture ratio
- Low viscosity setting for easy processing and pore sealing
- High material strength once fully cured
- Resistant to bases, acids, lubricants and fuels



Colour	Transparent, yellowish
Min./max. processing temperature	10 to 30 °C
Min/max. application quantity in weight/area	300-600 g/m ²
Shelf life from production	24 Month

Weight of content	Art. no.	P. Qty.
3 kg	5875 100 103	1
10 kg	5875 110 103	1

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with EN 1504-2

- Capillary water absorption and water permeability: $w < 0.1 \text{ kg/m}^2 \times \text{h}^{0.5}$
- Penetration depth: Class I < 10 mm
- Steam permeability: Class II
- Pull-off test for adhesive strength: $\geq 1.5 (1.0) \text{ N/mm}^2$
- Fire behaviour: Class E
- Hazardous substances: Conformity with 5.3 (En 1504-2)

Continuation **2-C special adhesive primer CERAfix® 103**



CERAfix 103 must be fully cured before the next coat is applied. Cover surfaces not to be treated (e.g. windows and doors) prior to application. Do not work wet in wet. Protect from frost. Higher temperatures and low relative humidity accelerate the film formation time; lower temperatures and higher relative humidity extend the film formation time.

1-C special adhesive primer CERAfix® 104

Aqueous, solvent-free, fast-setting primer for absorbent and non-absorbent surfaces.

- Promotes adhesion
- Quick-drying even on smooth, non-absorbent surfaces (old tiling)
- Can be used either undiluted or diluted 1:1 with water
- Once dried, creates a non-slip surface for an optimum adhesive bond
- Suitable for underfloor heating



Colour	Blue-purple
Min./max. processing temperature	5 to 25 °C
Shelf life from production	18 Month
Drying time	60 min
Conditions for drying time	at 23°C and 50% relative humidity
Min./max. application quantity in volume/area	100-150 ml/m²

Weight of content	Contents	Art. no.	P. Qty.
1344 g	1 l	5875 200 104	1/6
6630 g	5 l	5875 210 104	1

Please consider the legal instruction at the beginning of this chapter.

For further information, please refer to the technical data sheet.

Floor levelling mass CERAfix® 201

Plastic-containing, self-spreading liquid cement filler for layer thicknesses from 3 to 30 mm

- Self-spreading
- Quick setting
- Suitable for underfloor heating and electric heating mats

Weight of content	25 kg
Colour	Grey
Processing time	30 min
May be walked on after max.	4 h
Can be covered after max.	16 h
Full resilience	7 d



Min./max. processing temperature	5 to 25 °C
Shelf life from production	9 Month

Art. no. 5875 100 201

P. Qty.: 24/42

Please consider the legal instruction at the beginning of this chapter.

Fire behaviour A2fl-s1

Tested to EN 13813

- Fire behaviour: A2fl-s1
- Release of corrosive substances: CT
- Compressive strength: C30
- Bending tensile strength: F7



Do not mix more CERAfix 201 than can be used within the processing time. Not suitable as a top surface without additional coverings or top surfaces. Refer to the primer table before use. From a layer thickness of 20 mm, epoxy primer CERAfix 103 must be applied; then dust with quartz sand 0.2 to 1.0 mm diameter in size.

Higher temperatures and low relative humidity accelerate the film formation time; lower temperatures and higher relative humidity extend the film formation time.

Floor levelling mass CERAfix® 201-2

Low-stress self-spreading liquid cement filler for layer thicknesses of 2–40 mm

- Reduces the amount of dust
- Good running properties
- Quick to be able to walk on and use
- Suitable for underfloor heating



Weight of content	25 kg
Chemical basis	Cement, mineral aggregates, high-quality additives (polymer-modified)
Colour	Grey
May be walked on after max.	3 h
Can be covered after max.	24 h
Full resilience	14 d
Min./max. processing temperature	5 to 25 °C
Shelf life from production	9 Month

Art. no. 5875 200 201

P. Qty.: 24/42

Please consider the legal instruction at the beginning of this chapter.

Tested in accordance with EN 13813

- Fire behaviour: A2 fl
- Release of corrosive substances: CT
- Compressive strength: C25
- Bending tensile strength: F5

Continuation **Floor levelling mass CERAfix® 201-2**



Joint mortar CERAfix® 505

For natural stone and ceramic floor and wall coverings from 2–25 mm

- Suitable for natural stone and ceramic coverings
- Can be used in underfloor and wall heating
- Resistant to water and alternating freezing/thawing



Max. working life	3 h
May be walked on after max.	7 h
Min./max. processing temperature	5 to 30 °C
Full resilience	48 h
Shelf life from production	18 Month

Weight of content	Colour	Art. no.	P. Qty.
5 kg	Anthracite	5875 107 505	1
5 kg	Bahama beige	5875 104 505	1
5 kg	Concrete grey	5875 105 505	1
5 kg	Edelweiss	5875 101 505	1
5 kg	Manhattan	5875 103 505	1
5 kg	Mouse grey	5875 108 505	1
5 kg	Sanitary grey	5875 106 505	1
5 kg	Silver grey	5875 102 505	1
15 kg	Concrete grey	5875 115 505	1
15 kg	Silver grey	5875 112 505	1

Please consider the legal instruction at the beginning of this chapter.

Colour deviations may occur due to temperature differences, structural conditions and different ceramics, natural stone coverings. We make no guarantee with regard to colour variations.

2-component casting and adhesive resin CERAfix® 203

2-component epoxy-based casting and adhesive resin for positive casting of cracks and joints in cement screed and concrete



- Portion bags to suit requirements make for easy, quick dispensing
- Easy to mix in the bag without the need for tools
- Excellent creep and penetration properties

Weight of content	2.5 kg
Colour	Transparent
Min./max. processing temperature	8 to 25 °C
Can be covered after max.	6 h
Shelf life from production	18 Month

Art. no. 5875 100 203

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Do not close cracks and dummy joints until the surface is ready to be covered. Higher temperatures shorten the application and hardening times (refer to technical data). Be careful, as the remaining material in the bag will get hot!

Sound and decoupling panel CERAfix® 206

For top coverings such as ceramics, natural stone, parquet and after spreading under carpets and plastic coverings as well



- Can be used on adhesion-friendly surfaces with a class C2 thin-bed adhesive
- Can be covered with conventional laying materials
- Suitable for underfloor heating
- High crack and compression resistance
- Low emissions

Material	Polyester fibre
Length	1 m
Conditions for sound-insulation performance	under tiles, DIN ISO 140-8
Width	60 cm

Total thickness	Coating weight per m²	Art. no.	P. Qty.
4 mm	3.8 kg	5875 101 206	15
9 mm	7.2 kg	5875 102 206	10
15 mm	12 kg	5875 103 206	5

Please consider the legal instruction at the beginning of this chapter.

Electrical underfloor heating is significantly more effective on CERAfix 206 due to its excellent heat insulation; the ideal addition under ceramic and natural stone coverings.

2-C slurry-type seal coating CERAfix® 301

Flexible, mineral 2-component slurry-type seal coating for indoor and outdoor use



- Tested quality
- Particularly high degree of flexibility
- Vapour-permeable
- High bond adhesion without priming
- Resistant to water and alternating freezing/thawing

Chemical basis	Cement, styrene-acrylate dispersion
Min./max. surface processing temperature	5 to 30 °C
Min./max. processing temperature	5 to 30 °C
May be walked on after max.	1 d

Continuation **2-C slurry-type seal coating CERAfix® 301**

May be walked on in following conditions	at 20°C and 65% relative humidity
Building material class/ conditions	E - Normally inflammable/in accordance with DIN EN 13501-1
Colour	Grey
Container	Bucket
Product weight (per item)	21 kg

Art. no. 5875 100 301

P. Qty.: 1/18

Please consider the legal instruction at the beginning of this chapter.

P-DD 4863/1/2008 Bauteist Dresden **Tested in accordance with EN 14891**

- Initial adhesion strength: $\geq 0.5 \text{ N/mm}^2$
- Adhesive tensile strength on contact with water: $\geq 0.5 \text{ N/mm}^2$
- Adhesive tensile strength after thermal ageing: $\geq 0.5 \text{ N/mm}^2$
- Adhesive tensile strength after alternating freezing/thawing stress: $\geq 0.5 \text{ N/mm}^2$
- Adhesive tensile strength on contact with lime water: $\geq 0.5 \text{ N/mm}^2$
- Impermeable to water: No penetration of water
- Crack bridging: $\geq 0.75 \text{ mm}$

Classification of fire behaviour in accordance with EN 13501-1 and EN ISO 11925-2
Tested for water impermeability in line with DIN 4030



CERAfix 301 is a hydraulically hardening sealing mortar that must be protected against water and frost until it has fully hardened; this process can take several days in the worst case scenario.

Liquid foil CERAfix® 302

Watertight, elastic, synthetic resin dispersion-based sealing compound

Ready to use

- Ready for use directly from the container
- No mixing necessary
- Quick to use

Quick drying time

- Quick to build up layers, e.g. with subsequent sealing and laying work
- Reduced downtimes



Chemical basis	Polymer dispersion with fillers
Min./max. processing temperature	5 to 30 °C
Building material class	E - Normally inflammable
Shelf life from production	15 Month

Weight of content	Colour	Art. no.	P. Qty.
12 kg	Ochre yellow RAL 1024	5875 101 302	1/40
20 kg	Grey	5875 100 302	1/32

Please consider the legal instruction at the beginning of this chapter.



Do not allow water to make contact with surface until fully hardened! Not suitable for underwater applications.

Sealing and isolation strip CERAfix® 305

Fleece-laminated, crack-bridging sealing strip for fast and secure sealing of floors and walls

- Can be used for moisture resistance classes A, B0
- Secure sealing with consistent layer thickness
- Support material made from polypropylene fleece, on top and underside



Material	Polyethylene film
Backing material	Polypropylene fleece
Thickness	0.51 mm
Length of roll	30 m
Roll width	1 m
Shelf life from production	24 Month

Art. no. 5875 100 305

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Inside corner CERAfix® 306

Inner corner for quick and secure sealing of corner formations in walls and floors

- Broad range of uses

For moisture resistance classes A, B0 and C

- Secure sealing with consistent layer thickness
- Support material made from polypropylene fleece, on top and underside



Material	Polypropylene fleece (top and bottom side)/polyethylene film (middle)
Limb length	120 mm
Thickness	0.42 mm
Shelf life from production	24 Month

Art. no. 5875 100 306

P. Qty.: 25

Please consider the legal instruction at the beginning of this chapter.

Continuation **Inside corner CERAfix® 306**

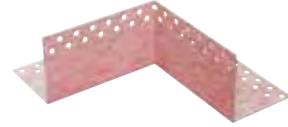


Same material as sealing strip CERAfix 305.

Outside corner CERAfix® 307

Outer corners for quick and secure sealing of corner formations in walls and floors

- For stress classes A, B0 and C
- Secure sealing with consistent layer thickness
- Excellent adhesive bond
- Highly elastic and water-resistant
- Temperature-resistant and resistant to ageing
- Easy and quick to apply



Material	Polypropylene fleece (top and bottom side)/polyethylene film (middle)
Limb length	120 mm
Thickness	0.42 mm
Shelf life from production	24 Month

Art. no. 5875 100 307

P. Qty.: 25

Please consider the legal instruction at the beginning of this chapter.



Same material as sealing strip CERAfix 305.

Edge insulating strips, self-adhesive foot and rising effect CERAfix 208

Ideal for renovation work that involves separating the floor and wall screeds

- Excellent acoustic insulation properties
- Fire behaviour Class E according to EN 13501-1/B2 according to DIN4102
- Prevents structure-borne sound paths caused by mortar



Length of roll	20 m
Height	50 mm
Thickness	5 mm
Material	PE - Polyethylene
Max. usage temperature	85 °C

Art. no. 5875 100 328

P. Qty.: 5

Please consider the legal instruction at the beginning of this chapter.

Insulating and sealing primer

High-quality insulating and sealing primer for indoor and outdoor applications

Excellent insulating and sealing effect

- Suitable for a range of critical surfaces
- Compatible for use with polystyrene
- Free from aromatic compounds

Saves time

- Quick-drying
- High coverage
- High yield



Chemical basis	Acrylic copolymers
Colour	White
Min./max. processing temperature	+8 to +30 °C
Shelf life from production	24 Month

Contents	Dust-drying time	Recoatable/ Can be painted over	Yield (area)	Art. no.	P. Qty.
400 ml	10 min	Yes, after 30 minutes	2 m ²	0890 540	1/6
2.5 l	20 min	Yes, after 2 hours	7 m ²	0890 540 1	1/6

Please consider the legal instruction at the beginning of this chapter.

Based on very mild, low-odour solvents. Can be painted with all emulsion paints, alkyd and all acrylic paints that can be diluted with water; however, it cannot be painted with two-component paints.

Universal glue

Secure adhesive strength for wallpapering devices, airless devices, brush application and wall adhesive technology

- Very strong adhesive strength with high degree of initial adhesion
- Optimum glue distribution
- Easy to correct
- Secure adhesion to edges
- Very high degree of resistance to moisture
- Excellent machine suitability
- Extra-transparent when drying
- Resistant to lime and cement
- Secure adhesive strength for virtually all carpets and wall coverings
- Universal use for all types of application



Continuation **Universal glue**

Weight of content	800 g
Chemical basis	Methyl cellulose, additive, synthetic resin powder
Min. processing temperature	5 °C
Paste swelling time	15 min
Application quantity in volume/area	200 ml/m ²
Shelf life from production	24 Month

Art. no. 0893 000 130

P. Qty.: 1/5

Please consider the legal instruction at the beginning of this chapter.

Store in a cool and dry place.

Repair cement

Quick-setting assembly cement

Quick installation with earlier load-bearing capacity

- Solidification finished after approx. 3 minutes
- Can be reworked after an hour (coating, plasters)
- Quickly reaches a high level of tensile bending and compressive strength



Chemical basis	Mix of Portland/alumina cement
Colour	Grey
Min./max. processing temperature	5 to 30 °C
Max. processing temperature	30 °C
Building material class	A1 - Non-flammable
Shelf life from production	12 Month

Weight of content	Art. no.	P. Qty.
5 kg	0890 350	1
15 kg	0890 351	1

Please consider the legal instruction at the beginning of this chapter.

Protect from frost!

All clean and load-bearing, solid, non-slip, mineral and permitted surfaces are classed as suitable surfaces. (Gypsum surfaces must be primed beforehand with CERAfix 101). Do not mix with other substances (such as gypsum). Do not over-water. Do not use in a pourable state. The processing time is based on an air and object temperature of +20°C. Do not mix with other materials (e.g. gypsum). It is essential that the repair cement is not over-watered. Repair cement must not be applied in a pourable state.

Concrete release agent

Universal concrete release agent for almost all absorbent and non-absorbent formwork types.

- Can be used on heated steel formwork up to +60°C
- Reduces the occurrence of rust stains
- Prevents embrittlement and swelling of raw timber formwork
- Neutral odour, residue-free
- Biodegradable

Min./max. temperature conditions	5 to 60 °C
Shelf life from production	24 Month



Contents	Product weight (per item)	Art. no.	P. Qty.
25 l	23.35 kg	0893 110 230	1
210 l	195.4 kg	0893 110 231	1

Please consider the legal instruction at the beginning of this chapter.

- Preliminary tests should be carried out
- Avoid puddling
- Cannot be diluted with water
- Excessive application may result in build-up and sanding down of the surface
- Heated formwork up to max. +60°C

Concrete release agent Plus

High-quality concrete release agent for manufacturing exposed concrete, finished parts and filigree elements.

- Can be used on heated steel formwork up to +60°C
- Reduces staining on exposed concrete

Min./max. temperature conditions	8 to 60 °C
Shelf life from production	12 Month



Contents	Product weight (per item)	Art. no.	P. Qty.
25 l	22350 g	0893 110 240	1
210 l	189.1 kg	0893 110 241	1

Please consider the legal instruction at the beginning of this chapter.

- Preliminary tests should be carried out
- Avoid puddling
- Cannot be diluted with water
- Excessive application may result in build-up and sanding down of the surface
- Heated formwork up to max. +60°C
- Fire, flying sparks and welding should be avoided in the vicinity of the freshly sprayed formwork

Formwork release oil sprayer

Corrosion-resistant, polyester-coated steel container

- Flexible, 2.5-m spiral hose with safety latch
- The brass spray pipe is rotatable by 360° and facilitates comfortable and effortless working by adjusting direction.
- The precision flat jet nozzle with fine nozzle distributes the formwork oil evenly and sparingly.
- Quick and convenient to refill
- Dirt-free
- Secure storage



Working pressure	6 bar
Flow capacity conditions	at 2 bar
Flow capacity	0.64 l/min
Max. operating temperature	40 °C
Recoil force	5 N
Material	Steel
Hose length	2.5 m

Liquid volume	Container capacity	Height x width	Product weight (per item)	Art. no.	P. Qty.
6 l	9 l	495 x 255 mm	4352 g	0651 150 209	1
10 l	13 l	650 x 255 mm	5138 g	0651 150 207	1

Spray pipe with nozzle

For formwork release oil sprayer

Product weight (per item)	91 g
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Art. no. 0993 893 032

P. Qty.: 1

Formwork tape

Self-adhesive foam tape for temporary sealing of formwork joints

- The tape fills out the joint and prevents liquid concrete sludge from getting into the formwork joint.

Material	Foam material
Colour	White
Length	10 m
Width	19 mm
Thickness of adhesive tape	6 mm



Art. no. 0875 330 019

P. Qty.: 16

Please consider the legal instruction at the beginning of this chapter.

Not suitable for permanent sealing of joints. The surface must be dry and free from dust, oil and grease.



1-component gun foam PURLOGIC® Top

1-component gun foam for a variety of applications

- Small can with high foam output (40 litres)
- Can even be applied at surface and ambient temperatures down to -5°C
- Fine-celled and uniform foam structure

Structure adhesive systems according to ift certification program
QM360: 2014, Reg. no. 188 7050098

Contents	500 ml
Chemical basis	Single component polyurethane
Tack-free after	7 min
Can be cut after	40 min
Full resilience	12 h
Min./max. processing temperature	5 to 25 °C
Yield (volume) approx.	40 l
Building material class	B2 - Normally inflammable
Shelf life from production	12 Month

Colour	Art. no.	P. Qty.
Concrete grey	0892 142	15
Light ivory	0892 142 1	15

Please consider the legal instruction at the beginning of this chapter.

1-component expanding foam PURLOGIC® Easy

1-component assembly foam to insulate, fill and seal cavities

- Small box with high foam yield (up to 30 litres)
- Can also be applied at surface and ambient temperatures down to -5°C
- Fine-celled and uniform foam structure

Contents	500 ml
Cell structure	Medium - fine
Chemical basis	Single component polyurethane
Colour	Ice blue
Tack-free after	9 min
Can be cut after	15 min
Full resilience	12 h
Min./max. processing temperature for can	5 to 25 °C
Min./max. temperature resistance	-40 to 80 °C
Yield (volume) approx.	30 l
Building material class	B2 - Normally inflammable
Shelf life from production	12 Month



Art. no. 0892 143

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Primer should be applied to porous and absorbent surfaces.

Single-component expanding foam PURlogic® Easy white

Is a ready-to-use, single-component, self-expanding rigid polyurethane foam. With combination valve for use with our foam guns or the supplied angled adapter.

- For all common substrates such as concrete, masonry, stone, plaster and wood.
- With combination valve for processing using our foam guns or the supplied angled adapter
- Halogen-free, contains no halogenated flame retardants or halogenated propellants
- Does not contain TCEP, TCPP or chlorinated paraffins and is free from plasticisers

Contents	500 ml
Cell structure	Fine
Chemical basis	Polyurethane
Colour	White
Tack-free after	15 min
Can be cut after	60 min
Full resilience	24 h
Min./max. temperature resistance	-40 to 90 °C



Yield (volume) approx.	25 l
Building material class	B1 - Of low flammability
Shelf life from production	12 Month

Art. no. 0892 143 300

P. Qty.: 12

Please consider the legal instruction at the beginning of this chapter.

EMICODE EC1 Plus



- Not UV-resistant
- The single-component PURlogic® Easy white expanding foam can be used in the foam guns PURlogic Xpress (art. no. 08911524) and PURlogic COMBIpress (art. no. 08911526). Other guns are not compatible.

1-component gun foam PURLOGIC® Flex

1C premium foam for elastic joint insulation

- Extremely flexible, thereby significantly preventing the risk of a break in the foam bead. (approx. 3 times the flexibility of commercially available PU foams).
- Prevents heat bridges
- Down to -15°C surface and ambient temperature

Contents	500 ml
Chemical basis	Single component polyurethane
Colour	Pebble grey
Tack-free after	6 min
Can be cut after	20 min
Full resilience	12 h
Min./max. processing temperature	5 to 25 °C
Yield (volume) approx.	18 l
Building material class	B2 - Normally inflammable
Shelf life from production	12 Month



Art. no. 0892 142 8

P. Qty.: 1/15

Please consider the legal instruction at the beginning of this chapter.

Structure adhesive systems according to ift certification program QM360: 2014, Reg. no. 188 7050098



Adheres to concrete, stone, hard PVC, metal and wood. Does not adhere to polyethylene, silicone, PTFE and grease. PURLOGIC FLEX can be applied with PURLOGIC Xpress and PURLOGIC COMBIpress. Primer should be applied to porous and absorbent surfaces. Unhardened foam must not come into contact with wet adhesive.

Joint foam B1

1-component polyurethane foam for applications with building material class B1 requirements

For universal use

- Suitable for a range of indoor and outdoor applications
- Excellent adhesion on nearly all structural substrates
- Once hardened, can be plastered over, painted and glued
- Resistant to ageing, non-rotting, mould-resistant, but not UV-resistant

Contents	750 ml
Chemical basis	Polyurethane
Colour	Blue
Tack-free after	25 min
Can be cut after	30 min
Full resilience	24 h
Min./max. processing temperature	5 to 35 °C
Yield (volume) approx.	40 l
Building material class	B1 - Of low flammability
Shelf life from production	12 Month

Art. no. 0892 400 100

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

All common construction surfaces such as concrete, masonry, stone, plaster, wood, corrosion-protected metal, polystyrene, PIR/PUR hard foam, polyester and hard PVC. Does not adhere to PE, PP, PTFE and silicone.



1C well-drilling foam Combi

1-component special foam with safety combination valve for bonding and sealing components in civil engineering applications

- Combination valve technology enables use as gun and adapter foam
- Replaces labour and time-intensive mortaring
- Watertight bonding
- Suitable for a broad range of uses due to great durability
- Environmentally friendly

Contents	750 ml
Chemical basis	Single component polyurethane
Colour	Grey
Tack-free after	10 min
Can be cut after	60 min
Full resilience	24 h
Min./max. surface processing temperature	5 to 30 °C
Yield (volume) approx.	40 l
Yield with gun application	40 l



Building material class	B2 - Normally inflammable
Shelf life from production	12 Month

Art. no. 0892 400 9

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Store in a cool and dry place. Store the can upright to prevent damage to the valve.
Protect decorative surfaces from dirt; cover adjacent surfaces with adhesive tape/film.

1-component foam gun PURLOGIC® Xpress

For professional application of 1-component gun foams

- Foam dispensing quantity can be adjusted variably for a clean spraying pattern
- Easy to clean as foam accumulations are reduced thanks to the nano coating on the needle and cone



Material	Plastic
Colour	Red
Product weight (per item)	430 g

Art. no. 0891 152 4

P. Qty.: 1

A polyurethane foam can should always be screwed onto the PURLOGIC® guns. The gun should be cleaned with PURLOGIC® Clean at regular intervals. Please refer to the instructions for use

Can be used for all Würth 1-component gun foams.

When used with other polyurethane foam cans, the function should be tested beforehand

1-component foam gun PURLOGIC® Premiumpress

High-quality and ergonomically shaped foam gun for applying 1C PU foams

- Ergonomic grip with rubber trim
- Foam dispensing quantity can be adjusted variably for a clean spraying pattern
- Conical nozzle, ideally suited for extension tips for slim joints



Material	Fibre glass
Colour	Red, Black
Product weight (per item)	444 g
Length	350 mm

Art. no. 0891 152 600

P. Qty.: 1

2C frame foam PURLOGIC® Fast

2C cartridge foam for secure door frame installation

- Reduces expansion time to 15 minutes. This saves time and costs
- Good adhesion to virtually all surfaces found in construction
- Dimensionally stable foam

No pressure needed once spreading time is reached

Contents	400 ml
Chemical basis	Polyurethane prepolymer
Colour	Green
Tack-free after	5 min
Can be cut after	15 min
Full resilience	1 h
Min./max. processing temperature	10 to 25 °C
Yield (volume) approx.	10 l
Building material class	B2 - Normally inflammable
Shelf life from production	12 Month



Art. no. 0892 144

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Does not adhere to polyethylene, silicone, PTFE and grease.

Primer should be applied to porous and absorbent surfaces. When installing door frames, make sure that counter-wedges and bracing are used at the setting points. The despreding time can increase significantly with damp building surfaces. Moisture does not need to be added (wetting the adhesive surfaces) with 2-component foams. Max. joint width 20 mm in accordance with IfT directive.

*Measured at 23°C and 50% humidity

2-component cartridge foam PURLOGIC® Sprint

2C cartridge foam for fast and easy door frame installation, non-stick after just 3 minutes

Very quick to reach final strength

Reduces expansion time to 20 minutes. This saves time and costs

Adheres well to various wall joint and frame materials

Dimensionally stable foam

- No pressing during and after the hardening phase
- < 5% dimensional change, tested in accordance with ift directive from the ift Rosenheim Institute in Germany.

Contents	210 ml
Chemical basis	Mix of polyether polyols, diphenylmethane-4, 4'-diisocyanate
Colour	Sand beige
Tack-free after	3 min



Can be cut after	7 min
Full resilience	30 min
Min./max. processing temperature	10 to 25 °C
Yield (volume) approx.	5 l
Building material class	B2 - Normally inflammable
Shelf life from production	9 Month

Art. no. 0892 146

P. Qty.: 16

Please consider the legal instruction at the beginning of this chapter.

Does not adhere to polyethylene, silicone, PTFE and grease. Please refer to the operating instructions and the technical data sheet. Store upright cartridges in a cool, dry and frost-protected place. Protect from heating up to over +30°C.

2C frame foam PURLOGIC® Turbo

2-component cartridge foam for fast and easy door installation, non-stick after just 90 seconds

- Set to touch after just 90 seconds
- Reduces spreading time to 20 minutes, saving you time and money
- Good adhesive properties
- Stable foam structure
- General Building Inspectorate Test Certificate
- Even, fine-celled foam structure
- Empties fully
- Resistant to ageing



Contents	210 ml
Chemical basis	Mix of polyether polyols, diphenylmethane-4, 4'-diisocyanate
Colour	Light beige
Tack-free after	1.5 min
Can be cut after	8 min
Full resilience	20 min
Min./max. processing temperature	10 to 30 °C
Yield (volume) approx.	5.5 l
Building material class	B2 - Normally inflammable
Shelf life from production	9 Month

Art. no. 0892 147

P. Qty.: 16

Please consider the legal instruction at the beginning of this chapter.

- Does not adhere to polyethylene, silicone, PTFE and grease
 - Primer must be applied to porous and absorbent surfaces
- *Tested in accordance with the respective Würth testing methods

PURLOGIC® PU foam cleaner Clean

Quickly and simply removes fresh PU foam residue

500 ml can is adapted to PU foam guns

- It is particularly well suited for cleaning foam guns
- Contains an additional spray head for external cleaning of foam guns and other surfaces

Contents	150 ml
Chemical basis	Acetone
Colour	Transparent
Shelf life from production	12 Month

Art. no. 0892 16

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Can etch surfaces such as lacquer, paint and plastics. Can cause colour fading or dissolving in textiles. Hardened PU foam can only be removed with PURLOGIC foam cleaner, art. no. 0892 160 000, or mechanically.



PURLOGIC® PU foam cleaner Foam cleaner

Cleaning set for easy removal of hardened PU foam on a wide variety of surfaces.

- Easy removal of soiling with hardened PU foam
- Long-lasting cleaning agent
- Numerous application possibilities

Scope of delivery

- 1 can (150 ml) foam cleaner
- 1 bottle (250 ml) PVC protective polish
- 1 wooden spatula
- 1 cleaning cloth
- 1 information sheet

Chemical basis	Mix of organic solvents
Number of pieces in assortment/set	5 PCS
Shelf life from production	12 Month

Art. no. 0892 160 000

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Dispersion spray cork

Single-component, acrylic dispersion- and granulated cork-based insulation with no solvents

- Acoustic, damping and insulating effect
- Environmentally friendly
- Can be sanded and painted
- Tested product features



Contents	500 ml
Chemical basis	Natural cork/acrylate dispersion
Colour	Cork colour
Min./max. full curing speed	1-2 mm/d
Min./max. processing temperature	5 to 35 °C
Building material class	B2 - Normally inflammable
Shelf life from production	12 Month

Art. no. 0892 140

P. Qty.: 30

Please consider the legal instruction at the beginning of this chapter.



To improve adhesion to absorbent surfaces such as concrete, stone etc., pre-treatment of the adhesive surfaces with a primer is recommended. A 500-ml tubular bag is sufficient for approx. 5 running metre joint. (10x10 mm² joint cross-section)



Structural adhesive Bond+Seal

Elastic PU adhesive and sealant for a wide range of applications

- For universal use
- Approved for use with foodstuffs (ISEGA certificate)
- Highly elastic
- Long skin formation time enables complicated bonds and large-area bonds
- Can be sanded/painted
- Non-corrosive
- Virtually odourless
- Silicone-free

ISEGA:

Can be used where food is processed or stored, e.g. for bonding wall and floor areas in food processing companies.

Clearance certificate no.: 41958 U 16

Chemical basis	Single component polyurethane
Min./max. skin-formation time	45-60 min
Full curing speed/conditions	3 mm/d/23°C and 50% relative humidity, moisture curing
Min./max. processing temperature	5 to 35 °C
Shelf life from production/conditions	12 Month/at 10°C to 25°C

Container	Contents	Colour	Min./max. temperature resistance	Max. short-term temperature resistance	Art. no.	P. Qty.
Cartridge	300 ml	White	-40 to +90 °C	120	0890 100 1	1/12/24
Cartridge	300 ml	Grey	-40 to +90 °C	120	0890 100 2	1/12/24
Cartridge	300 ml	Black	-40 to 90 °C	120 °C	0890 100 3	1/12/24
Cartridge	300 ml	Dark brown	-40 to 90 °C	120 °C	0890 100 4	1/12
Cartridge	300 ml	Light brown	-40 to 90 °C	120 °C	0890 100 5	1/12
Cartridge	300 ml	Sand beige	-40 to 90 °C	120 °C	0890 100 6	1/12
Tube	70 ml	White	-40 to 90 °C	120 °C	0890 100 11	1/24
Tube	70 ml	Black	-40 to +90 °C	120	0890 100 31	1/24
Bag	400 ml	White	-40 to 90 °C	120 °C	0890 100 111	12
Bag	400 ml	Grey	-40 to +90 °C	120	0890 100 112	12
Bag	400 ml	Black	-40 to 90 °C	120 °C	0890 100 113	12
Bag	600 ml	White	-40 to 90 °C	120 °C	0890 100 181	20
Bag	600 ml	Grey	-40 to 90 °C	120 °C	0890 100 182	20
Bag	600 ml	Black	-40 to 90 °C	120 °C	0890 100 183	20

Please consider the legal instruction at the beginning of this chapter.

Structural adhesive Bond + Seal Fast

Fast-acting, brushable PU sealant

- Highly adhesive, permanently elastic sealing compound
- Good stability
- Short skin formation time
- Can be painted over quickly
- Approved for use with foodstuffs (ISEGA certificate)
- Non-corrosive
- Low-odour
- Silicone-free



Container	Cartridge
Contents	300 ml
Chemical basis	Single component polyurethane
Min./max. skin-formation time	19-20 min
Full curing speed/conditions	3 mm/d/23 °C and 50% relative humidity, moisture curing
Min./max. processing temperature	5 to 35 °C
Shelf life from production/conditions	12 Month/at 10 °C to 25 °C

Colour	Min./max. temperature resistance	Max. short-term temperature resistance	Art. no.	P. Qty.
Black	-40 to 90 °C	120 °C	0890 100 730	1/12/24
Grey	-40 to 90 °C	120 °C	0890 100 720	1/12/24
White	-40 to +90 °C	120	0890 100 710	1/12/24

Please consider the legal instruction at the beginning of this chapter.



Continuation **Structural adhesive Bond + Seal Fast**

- Not suitable for glass groove sealing in areas in which UV back reflection can occur.
- Direct exposure to sunlight can result in slight surface yellowing.
- Following skin formation, can be mechanically machined and painted over without surface activation.
- Due to the multitude of different paints and coatings, preliminary tests must be performed to check compatibility.
- Do not allow this product to come into contact with alkyd-resin paint systems.
- Caution: In the case of high surface moisture, very wide adhesive bead application, and/or cavities/air pockets created, backfill foams in the application, there is a risk of bubble formation in the adhesive compound.

Structural adhesive Bond and Seal Power

Heavy-duty, elastic hybrid structural adhesive

Excellent adhesive range and high level of initial strength

- Very good adhesion to almost all surfaces
- Simple to attach components
- Can be painted over before and after skin formation with all commercially available paint systems (except alkyd resin paints).
- UV-resistant
- NSF (P1) registered (no.136996)



Container	Cartridge
Contents	300 ml
Chemical basis	Hybrid polymer
Min./max. skin-formation time	30-40 min
Full curing speed/conditions	3 mm/d/23°C and 50% relative humidity, moisture curing
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-40 to +90 °C
Shelf life from production/conditions	12 Month/at max. 25°C

Colour	Max. short-term temperature resistance	Art. no.	P. Qty.
Black	150	0893 235 3	1/12
Grey	150 °C	0893 235 2	1/12
White	150	0893 235 1	1/12

Please consider the legal instruction at the beginning of this chapter.

NSF-registered, Class P1, No. 136996



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

- In the case of B and S Power, an additional layer can be added within the skin-formation time. Due to the multitude of different paints and coatings, preliminary tests must be performed to check compatibility. 2C epoxy paints are compatible. Do not allow this product to come into contact with alkyd-resin paint systems.
- Since the elasticity of the paint is lower than that of the adhesive/sealant, cracks may form in the paint around the joint.

PU Marine adhesive sealant Multi

Versatile, elastic one-component PU adhesive and sealant for marine applications or caravan construction

- Flame-retardant
- Typical uses are sealing work in bathrooms, indoor and outdoor use, and also use when working with decorative panels.
- Can be sanded and painted over

Container	Cartridge
Contents	310 ml
Chemical basis	Moisture curing 1K polyurethane
Full curing speed/conditions	3 mm/d/23 °C and 50% relative humidity
Min./max. processing temperature	5 to 35 °C
Max. short-term temperature resistance	90 °C
Shelf life from production/conditions	12 Month/at max. 25 °C



Colour	Min./max. temperature resistance	Art. no.	P. Qty.
Black	-40 to 80 °C	0893 291 3	12
White	-40 to +80 °C	0893 291 1	12

Please consider the legal instruction at the beginning of this chapter.

EC type examination certificate: Approved for bonding in shipbuilding and boat building.



Do not allow this product to come into contact with alkyd-resin paint systems. When painting over the sealant, it must be taken into account that the thickness and hardness of the paint film may impair the adhesive's elasticity and thereby cause cracks.

Seam sealing Bond and Seal All-in-One

Hybrid-based sprayable and brushable seam sealant for restoring the original structure

- Sprayable and brushable
- Solvent-free
- Permanently elastic after hardening
- Can be painted over up to five days later
- UV-resistant
- Broad range of applications
- Isocyanate-free, PVC-free and silicone-free



Continuation **Seam sealing Bond and Seal All-in-One**

Contents	310 ml
Chemical basis	Hybrid polymer
Min./max. processing temperature	5 to 30 °C
Min./max. temperature resistance	-40 to +80 °C
Shelf life from production	15 Month

Colour	Art. no.	P. Qty.
Black	0893 236 130	1/12
Grey	0893 236 120	1/12
White	0893 236 110	1/12

Please consider the legal instruction at the beginning of this chapter.

Preliminary tests are required with critical surfaces such as PE, PP, PS, PC, PMMA and PTFE. The best adhesion between the paint and the sealant is achieved the sooner the material is painted following application.

Adhesive sealant PU Marine Power

Versatile, elastic one-component polyurethane adhesive for marine applications or caravan construction

- Flame-retardant
- For use on the deck, hull and keel. In the installation of structures, walls, vertically fitted panels, the railing etc.
- Can be sanded and painted over

Container	Cartridge
Contents	310 ml
Chemical basis	Moisture curing 1K polyurethane
Colour	White
Full curing speed/conditions	3 mm/d/23°C and 50% relative humidity
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-40 to +90 °C



Art. no. 0892 292 1

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

EC type examination certificate: Approved for bonding in shipbuilding and boat building.



Do not allow this product to come into contact with alkyd-resin paint systems. When painting over the sealant, it must be taken into account that the thickness and hardness of the paint film may impair the adhesive's elasticity and thereby cause cracks.

SMP adhesive sealant

Universal SMP-based elastic adhesive and sealant

Universal applications indoors and outdoors

- Very good, permanent adhesion to almost all surfaces
- Effective resistance to UV and weathering
- Not corrosive to metals
- Suitable for bonding and sealing in food processing plants (ISEGA)

Container	Cartridge
Contents	290 ml
Chemical basis	Silane modified polymer
Min./max. skin-formation time	15-20 min
Full curing speed/conditions	3 mm/d/23°C and 55% relative humidity
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-40 to +90 °C
Shelf life from production/conditions	18 Month/at 5°C to 25°C



Colour	Art. no.	P. Qty.
Black	0893 237 102	1/12
Grey	0893 237 101	1/12
White	0893 237 100	1/12

Please consider the legal instruction at the beginning of this chapter.

ISEGA:

Can be used where food is processed or stored, e.g. for bonding wall and floor areas in food processing companies. Clearance certificate no.: 42221 U16



- Once the adhesive is completely dry, it can be covered perfectly with water-based paint and two-component paint. We recommend that you perform a compatibility test beforehand. If the adhesive is to be painted over, it should be roughened with abrasive paper first.
- Not suitable for natural stone or mirrors.
- Not suitable for movement or glazing joints.

Surface bonding agent Primer for Metal

Surface optimisation of metallic surfaces

Contents	250 ml
Min. flash-off time	30 min

Art. no. 0890 100 61

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.



Primer for metal primer reacts with moisture. To retain the quality of the primer, seal the can with the inner plastic lid immediately after each use. When pre-treatment is finished, close the can with the screw lid.

Continuation **Surface bonding agent Primer for Metal**

Once opened, primer for metal primer should be used up within approx. one month if used on a regular basis. If the can is rarely opened, use the primer within 2 months. Discontinue use of primer for metal primer if it gels, is not homogeneous or is too viscous.

Do not dilute primer for metal primer or mix with other substances.



SMP adhesive HIGH TACK

Structural adhesive with extreme initial SMP-based bonding

Universal applications indoors and outdoors

- Adheres perfectly to most surfaces including wet surfaces, mainly without primer
- Good UV stability and weather-resistance outdoors
- Can be painted over perfectly once fully dry
- Not corrosive to metals

Container	Cartridge
Contents	290 ml
Chemical basis	Silane modified polymer
Colour	White
Full curing speed/conditions	3 mm/d/23°C and 55% relative humidity
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-40 to +90 °C
Shelf life from production/conditions	18 Month/at 5°C to 25°C

Art. no. 0893 237 140

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Surface bonding agent Adhesion Plus for plastic/wood/stone

Optimisation of plastic, wood, stone and concrete surfaces

The adhesion agent is used to improve the performance of the respective adhesive on hard-to-bond surfaces.

Contents	250 ml
Min. flash-off time	30 min

Art. no. 0890 100 62

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

- Primer for plastic/wood/stone reacts to moisture. To retain the quality of the primer, seal the can with the inner plastic lid immediately after each use. When pre-treatment is finished, close the can with the screw lid.
- Once opened, the primer should be used up within approx. one month if used on a regular basis. If the can is rarely opened, use the primer within 2 months. Discontinue use of the primer if it gels, is not homogeneous or is too viscous.
- Do not dilute the primer or mix with other substances.
- AdhesionPlus primer can lead to coloured residues on natural stone. Please refer to the surface table in the technical data sheet.



2-component liquid metal filler FLM 50

Fast-acting repair system for installers and workshops in the metalworking sector. Particularly suitable for filling moulds, and for sealing and covering leaking areas.

- Quick to harden
- Very high final strength
- Practical dual cartridge for an optimal mixing ratio

Contents	50 ml
Chemical basis	Epoxy
Colour	Grey
Min. functional strength	30 min
Min. final strength	24 h
Min./max. processing temperature	20 to 25 °C
Min./max. temperature resistance of the hardened material	-45 to 120 °C
Shelf life from production	24 Month

Art. no. 0893 680

P. Qty.: 1/10

Please consider the legal instruction at the beginning of this chapter.

The metals must be cleaned and degreased bare. The hardened liquid metal can be easily machined by lathing, milling, drilling etc.



Methyl methacrylate adhesive MAK 38

2-component structural adhesive for bonding metal, composite materials and various plastics to each other

- Wide adhesive range
- Primers are not required for many metal surfaces
- High strength
- Excellent resistance to media
- High temperature resistance up to 120°C

Container	Double cartridge
Chemical basis	Methyl methacrylate
Colour	Black
Min. press-setting time of glue	35 min
Min./max. working life	15-25 min
Min./max. processing temperature	20 to 25 °C
Shelf life from production/conditions	12 Month/cool and frost-free storage



Contents	Min./max. temperature resistance	Max. short-term temperature resistance	Art. no.	P. Qty.
38 ml	-40 to +125 °C	230	0893 580	1/10
250 ml	-40 to 125 °C	230 °C	0893 580 250	1

Please consider the legal instruction at the beginning of this chapter.

ISEGA:

Can be used in food-related areas, e.g. for bonding components made of plastic and metals in areas where food is processed or stored. Components manufactured with the adhesive may be used in direct contact with food, as far as the adhesive is concerned, as long as it has hardened sufficiently. Clearance certificate no.: 46630 U18

- Not suitable for permanent use in highly concentrated acids and bases or aggressive organic solutions, such as toluene, ketones and esters.
- Protect from frost.

Surface cleaner Activating Cleaner

Surface optimisation of non-porous surfaces

For cleaning and activating non-porous substrates such as metals, plastics, glazed ceramic and painted surfaces.

Contents	400 ml
Min. flash-off time	10 min

Art. no. 0890 100 60

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Suitable for aluminium (anodised), steel, high-grade steel (stainless), galvanised steel (hot-dipped or galvanic), 2-component top coat, (PU, epoxy), 2-component water-based primers and paints, cathodic dip painting, primers (EP/2-component), powder coatings, glass fibre-reinforced plastic (unsaturated polyester), laminate gelcoat or SMC, glass fibre-reinforced plastic (unsaturated polyester), laminate layup, ABS, hard PVC, glass (mineral) and glass ceramic. Not suitable for smoothing or removing adhesives/sealants.

2C plastic adhesive 210sec.

2-component adhesive for repairing plastic parts – for repairing cracks in plastic

- For repairing and bonding many types of plastic
- H351- (R40-) label required
- Coarse sanding dust
- Special shorter mixer nozzle for lower material consumption
- Can be sanded and painted over after a very short period of time
- High degree of flexibility: Absorbs movements optimally
- Solvent-free and silicone-free



Contents	50 ml
Container	Double cartridge
Chemical basis	Two-component polyurethane
Colour	Black
Processing time	3.5 min
Min./max. processing temperature	15 to 25 °C
Min./max. temperature resistance	-30 to +100 °C
Shelf life from production/conditions	24 Month/at 23°C and 50% relative humidity

Art. no. 0893 500 043

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Limited adhesion (no constructive adhesives) of PP and PE. Not suitable for PVC, PPS and PTFE. There may be adhesion problems in individual cases due to the coatings and release agents used in some cases in the plastic production process. Observe the work instructions when repairing PP/EPDM. Check material compatibility on a non-visible area if necessary. The product must be stored in a frost-free location.

2C plastic adhesive 25sec.

2-component adhesive for repairing plastic parts – for rapid attachment

- For repairing and bonding many types of plastic
- No H351- (R40-) label required
- Coarse sanding dust
- Special shorter mixer nozzle for lower material consumption
- Can be sanded and painted over after a very short period of time
- High degree of flexibility: Absorbs movements optimally
- Solvent-free and silicone-free



Contents	50 ml
Container	Double cartridge
Chemical basis	Two-component polyurethane
Colour	Black
Processing time	25 s
Min./max. processing temperature	15 to 25 °C
Min./max. temperature resistance	-30 to +100 °C
Shelf life from production/conditions	24 Month/at 23°C and 50% relative humidity

Art. no. 0893 500 041

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Limited adhesion (no constructive adhesives) of PP and PE. Not suitable for PVC, PPS and PTFE. There may be adhesion problems in individual cases due to the coatings and release agents used in some cases in the plastic production process. Observe the work instructions when repairing PP/EPDM. Check material compatibility on a non-visible area if necessary. The product must be stored in a frost-free location.

2C plastic adhesive 90sec.

2-component adhesive for repairing plastic parts – for repairing small holes

- For the repair and bonding of many types of plastic
- Can be sanded and painted over after a very short period of time
- High flexibility: Optimal cushioning of movement
- Solvent and silicone-free

Contents	50 ml
Container	Double cartridge
Chemical basis	Two-component polyurethane
Colour	Black
Processing time	1.5 min
Min./max. processing temperature	15 to 25 °C
Min./max. temperature resistance	-30 to +100 °C
Shelf life from production/conditions	24 Month/at 23 °C and 50% relative humidity



Art. no. 0893 500 042

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Limited adhesion (no constructive adhesives) of PP and PE. Not suitable for PVC, PPS and PTFE. There may be adhesion problems in individual cases due to the coatings and release agents used in some cases in the plastic production process. Observe the work instructions when repairing PP/EPDM. Check material compatibility on a non-visible area if necessary. The product must be stored in a frost-free location.

2-component adhesive AL-1

Low-emission adhesive for bonding angle brackets in aluminium windows, doors and façade construction

- Long-lasting application
- Can be painted over
- Easy application with manual gun or pneumatic gun
- Cartridge is highly impact-resistant and shock-resistant
- Highly temperature-resistant and weather-resistant
- Solvent-free and silicone-free

Weight of content	890 g
Chemical basis	Two-component epoxy reaction adhesive



Continuation **2-component adhesive AL-1**

Colour	Grey, similar to RAL 7042
Processing time	30 min
Working life	60 min
Min. processing temperature	5 °C
Min./max. temperature conditions	-30 to 120 °C
Shelf life from production	12 Month

Art. no. 0892 130 010

P. Qty.: 6

Please consider the legal instruction at the beginning of this chapter.

For safety reasons (due to cartridge filling technology), the first 20 g of mixed adhesive should not be used for bonding.

Unhardened adhesive impurities are cleaned using type 60 cleaner. Cleaning hardened adhesive can normally only be done mechanically.

2-component adhesive PUR

For structural bonding of angle brackets in aluminium windows, doors and façade construction

- Wide application range
- Can be painted over
- Easy application with manual gun or pneumatic gun
- Short, mixer nozzle specially designed for cartridge
- Cartridge is highly impact-resistant and shock-resistant
- The adhesive has a high degree of weather resistance once hardened
- Solvent-free and silicone-free



Chemical basis	Two-component PUR reaction adhesive
Colour	Ivory
Processing time	30 min
Working life	60 min
Min. processing temperature	7 °C
Shelf life from production	12 Month

Weight of content	Art. no.	P. Qty.
550 g	0892 135 1	1/6
900 g	0892 135	6

Please consider the legal instruction at the beginning of this chapter.

For safety reasons (due to cartridge filling technology), the first 20 g of mixed adhesive should not be used for bonding. Cleaning hardened adhesive can normally only be done mechanically. Cleaner type 60 is ideally suited for removing unhardened adhesive residues.

Anti-static plastic cleaner Type 20

Non-corrosive cleaning agent with antistatic agent for various plastics and powder-painted and metallic surfaces

- Anti-static – effectively prevents the rapid re-soiling of surfaces
- Quick-drying cleaner
- Free of chlorinated hydrocarbons and aromatic compounds

Contents	1000 ml
Container	Can
Smell/fragrance	Characteristic
Chemical basis	Mineral oil



Art. no. 0892 100 11

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Double cartridge gun

Plastic pistol for 38-ml and 50-ml double cartridges with a mixing ratio of 1:1, 4:1 and 10:1.

- Made of impact-resistant plastic
- Accurate and consistent dosage
- With integrated pressure relief



Material	Plastic impact-resistant
Included in delivery (Lieferumfang)	1:1 and 1:10 mixing adapter
Product weight (per item)	275 g

Art. no. 0891 893 486

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Double cartridge gun

Cartridge gun for 50 ml double cartridges with a 1:1 mixing ratio

- Made of sturdy metal
- Dosing, mixing and discharge of highly viscous two-component adhesives
- Accurate and consistent dosage



Material	Metal/Plastic
Product weight (per item)	474 g

Art. no. 0891 893 485

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

SMP EPDM sealing tape adhesive

Solvent-free SMP-based adhesive sealant for the reliable and permanent bonding of EPDM sealing tapes

- Can also be processed at cold temperatures down to -5°C
- Very low emissions
- Free from solvents, isocyanate and silicone

Chemical basis	Silane modified polymer
Colour	Black
Full curing speed/conditions	2 mm/d/23°C and 50% relative humidity
Min./max. processing temperature	-5 to 40 °C
Min./max. temperature resistance	-40 to 80 °C
Shelf life from production/conditions	12 Month/cool and dry storage area, 5°C to 25°C



Contents	Container	Art. no.	P. Qty.
290 ml	Cartridge	0893 700 155	1/12
600 ml	Bag	0893 700 154	20

Please consider the legal instruction at the beginning of this chapter.

- GEV: Classified as EMICODE class EC1^{PLUS} in accordance with GEV criteria
- General test certificate from construction authorities



Store original container tightly sealed in a dry place at temperatures between +5°C and +25°C without exposure to direct sunlight.

Fast-acting epoxy resin adhesive ESK-50

Solvent-free two-component adhesive

- Quick to harden
- Wide range of applications
- High tensile strength values
- Excellent chemical resistance
- Can be sanded when fully hardened
- High level of transparency
- Silicone-free and solvent-free

Contents	50 ml
Chemical basis	Epoxy resin
Colour	Clear, Light yellow
Min. open time	3.5 min
Min. processing time	4 min
Min. final strength	48 h
Min./max. temperature resistance	-60 to +100 °C
Shelf life from production	36 Month



Art. no. 0893 480 1

P. Qty.: 3

Please consider the legal instruction at the beginning of this chapter.

Discolouration due to UV influence is possible.

Liquid Metal Fe 1

Fast-acting repair system, ideal for installers and workshops in the metal processing sector.

- High-quality two-component reaction resin system that exhibits characteristics similar to metal due to its special formula
- The ideal mixing ratio of the components (A:B = 1:1, pressing out two strands of the same length from the tubes) makes it almost impossible to incorrectly mix the repair compound
- After hardening, Liquid Metal Fe1 can easily be processed via lathing, milling, drilling, filing or thread cutting, just like with metal



Weight of content	500 g
Colour	Grey
Min./max. temperature resistance of the hardened material	-60 to 120 °C
Shelf life from production	24 Month

Art. no. 0893 449

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Bodywork adhesive Powerbond

High-strength 2-component epoxy resin system for bodywork repairs

- Restores the original strength and rigidity
- Less spot welding
- Meets the requirements of automotive manufacturers
- Glass particle technology guarantees a layer thickness of 0.7-1.2 mm
- Excellent stability
- Excellent corrosion protection
- Weldable
- Can be sanded/painted
- Silicone-free and VOC-free



Chemical basis	Epoxy resin
Colour	Black
Min. tensile strength	30 N/mm ²
Working life	60 min
Curing time	4 h
Resistance against	Petrol, Diesel, Cooling liquid, Engine and gear oils
Shelf life from production	12 Month

Continuation **Bodywork adhesive Powerbond**

Min./max. temperature resistance	-30 to +120 °C
Min./max. processing temperature	15 to 25 °C

Container	Contents	Art. no.	P. Qty.
Cartridge	195 ml	0893 450 110	1/6
Double cartridge	225 ml	0893 450 100	1/6

Please consider the legal instruction at the beginning of this chapter.



Not suitable for load-bearing bodywork parts (e.g. A-pillars, longitudinal chassis beams etc.). If bodywork parts are only partially replaced, do not glue on visible surfaces as shadow seams may appear. Observe the repair instructions provided by the vehicle manufacturer.

Glass-clear adhesive sealant

Universal and elastic construction adhesive and sealant, clear as glass

- Ideal for visible seals/bonds
- Can be painted with emulsion paints
- Anti-fungal

Contents	290 ml
Chemical basis	Silane modified polymer
Colour	Transparent
Min. skin-formation time	10 min
Full curing speed	2 mm/d
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-40 to +90 °C
Shelf life from production	18 Month



Art. no. 0893 225 0

P. Qty.: 1/12

Tested in accordance with EN 15651-1, F-INT



With prolonged UV exposure, Würth glass-clear adhesive may yellow and become brittle, especially when used outdoors.

Not suitable for building construction expansion joints, glazing rebate seals, joints continuously exposed to water as well as heavily expanded perimeter joints.

Attention!

Not suitable for adhesion of PE, PP, PMMA, PTFE, silicon rubber and plasticized plastics.

Only for use on fully hardened paints. Not suitable for use on artificial resin surfaces (alkyd resin).

Plastic adhesive REPLAST® Easy Fast

For REPLAST® Easy plastic repair system

Fast curing

Further processing, such as sanding, possible after minimal time

Outstanding resistance to chemicals

Resistant to a range of liquids, such as petrol, many lubricating oils and ethyl acetate

Solvent-free

Contents	50 ml
Chemical basis	Two-component polyurethane
Colour	Black
Processing time	1.5 min
Min. initial strength	10 min
Min./max. processing temperature	15 to 25 °C
Min./max. temperature resistance	-30 to +100 °C



Art. no. 0893 500 3

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

There may be adhesion problems in individual cases due to the coatings and release agents used in some cases in the plastic production process. Not suitable for PE (polyethylene), PP (polypropylene) or PTFE (polytetrafluor ethylene) plastics. Check material compatibility on an invisible area if necessary.

Adhesive remover

For removing unhardened PU and hybrid adhesives/ sealants

Contents	400 ml
Min. flash-off time	0.01 s

Art. no. 0890 100 63

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Do not use on porous substrates.

Structural adhesive Multi-fibre adhesive

High-strength adhesive reinforced with fibreglass

- Tested water resistance level D4 in accordance with EN 204 (test number: 50533042/3)
- Thermal stability in accordance with EN 14257 - Watt 91 (test number: 505 33042/4)
- Fast reaction time with high initial strength after only approx. 15 minutes.



Container	Cartridge
Contents	310 ml
Chemical basis	Polyurethane
Colour	Transparent
Min. functional strength	20 min
Min. wet skin-formation time	3 min
Full curing speed/conditions	1 mm/d/Depending on the density of the substrate
Min./max. processing temperature	7 to 35 °C
Min./max. temperature resistance	-30 to +110 °C
Shelf life from production/conditions	24 Month/at 15°C to 25°C

Art. no. 0893 100 115

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

- ift Rosenheim: In the case of wood/wood gluing according to EN 204, achieves stress group D4, test report no.: 505 33042/3
- ift Rosenheim: In the case of wood/wood gluing according to DIN EN 14257 (WATT 91) achieves a heat resistance of 10.5 N/mm², test report no.: 505 33042/4
- French VOC emissions class A+
- The viscosity of 1-C-PUR adhesives when processed at +15°C is approximately double that when used at +25°C.
- Sunlight discolours the adhesive but does not affect the adhesive strength!
- Bonding aluminium, copper, brass: Only on chemically pre-treated or coated surfaces; these materials cannot be permanently bonded in an age-resistant manner without appropriate pre-treatment of the bonding surfaces.
- Powder-coated workpieces should always be cleaned with cleaner type 60 (art. no.: 0892 130 030/0892 130 031), powder coatings with PTFE content cannot be reliably bonded without pre-treatment (for example, plasma pre-treatment).
- Pressing force: for gluing surfaces $\geq 0.015 \text{ N/mm}^2$
- for gluing solid wood $\geq 1 \text{ N/mm}^2$
- For bonding gap thicknesses $\geq 2.0 \text{ mm}$, the bonding, pressing and hardening times are considerably longer, bonding gap thicknesses $\geq 3 \text{ mm}$ are not possible.
- If moisture is expected to have an impact, the bonding gaps/bonding surfaces must also be sealed/protected with a suitable sealing compound!
- When bonding metals to absorbent materials (e.g. wood, construction materials etc.), the moisture can be slowly transported through the bonding gap by the absorbent material onto the metal surface, where it can cause corrosion damage to the metal. The metallic bonding surface must therefore have suitable corrosion protection, e.g. paint or powder coating!
- When bonding different materials (with different expansion properties), the bonding gap dimensions must be adapted according to the long-term behaviour.
- The bonded workpieces should not be coated until after the adhesive is fully hardened; if they are coated too early, the formation of bubbles in the coating cannot be ruled out.
- Zinc-plated sheets should always be protected against the permanent influence of moisture. To prevent the formation of „white rust“, any moisture that arises must be prevented from coming into contact with the bonding surface!

- In the production and processing of stainless steel, auxiliary materials such as wax, oils, etc. are used. These materials cannot be simply wiped clean. It has been shown that after cleaning with solvents, grinding or (even better), sandblasting the surface, followed by repeated cleaning with solvents delivers considerably better bonding results.
- Bonding larch: 1-C-PUR adhesives must never be used for bonding larch surfaces in outdoor areas. The substance „arabinogalactan“ which is contained in the wood, or forms within it, considerably weakens the bonding strength! No problems have been identified with PVAC and EPOXI adhesives.
- When bonding solid wood, the adhesive should preferably be applied to both bonding surfaces.
- For bonding solid wood in outdoor applications, suitable tests should be performed to determine the optimum permanent bond depending on the type of wood, weather intensity, surface protection, and geometry of the bonding gap.
- The adhesive is mildly foaming and is therefore well-suited to be used on slightly uneven surfaces. The pressing time must be adjusted according to the thickness of the gluing joint.
- Skin-forming and joining times, as well as the respective pressing and processing times required, are influenced by criteria such as material, temperature, amount applied and air moisture, amongst others. As a result, they can only be precisely determined through independent tests. Corresponding safety margins for the specified reference values should be accounted for by the installer.

Structural adhesive PUR Rapid

Rapid PUR structural adhesive for high-strength bonded connections in trade and industry

- Proven water resistance D4 in accordance with DIN/EN 204 by ift Rosenheim
- Meets window construction requirements in accordance with WATT 91 DIN EN 14257 (WATT 91)
- The foaming of the adhesive makes it possible to fill the joints very well

Container	Cartridge
Contents	310 ml
Chemical basis	Polyurethane
Colour	Transparent, yellowish
Min. wet skin-formation time	5 min
Min./max. processing temperature	7 to 35 °C
Min./max. temperature resistance	-30 to +110 °C
Max. short-term temperature resistance	200 °C
Shelf life from production/conditions	15 Month/at 15 °C to 25 °C



Art. no. 0892 100 102

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Tested stress group D4 in accordance with DIN/EN 204 by ift Rosenheim. Test number: 555 25355/4

- The viscosity of 1-C-PUR adhesives when processed at +15 °C is approximately double that when used at +25 °C.
- Sunlight discolours the adhesive but does not affect the adhesive strength.
- Bonding aluminium, copper, brass: Only on chemically pre-treated or coated surfaces: these materials cannot be permanently bonded in an age-resistant manner without appropriate pre-treatment of the bonding surfaces.
- Powder-coated workpieces should always be cleaned with cleaner type 60 (art. no.: 0892 130 030/0892 130 031), powder coatings with PTFE content cannot be reliably bonded without pre-treatment (for example, plasma pre-treatment).
- Pressing force: for gluing surfaces $\geq 0.015 \text{ N/mm}^2$
- for gluing solid wood $\geq 1 \text{ N/mm}^2$

Continuation **Structural adhesive PUR Rapid**

- For bonding gap thicknesses ≥ 2.0 mm, the bonding, pressing and hardening times are considerably longer, bonding gap thicknesses ≥ 3 mm are not possible.
- If moisture is expected to have an impact, the bonding gaps/bonding surfaces must also be sealed/protected with a suitable sealing compound!
- When bonding metals to absorbent materials (e.g. wood, construction materials etc.), the moisture can be slowly transported through the bonding gap by the absorbent material onto the metal surface, where it can cause corrosion damage to the metal. The metallic bonding surface must therefore have suitable corrosion protection, e.g. paint or powder coating!
- When bonding different materials (with different expansion properties), the bonding gap dimensions must be adapted according to the long-term behaviour.
- The bonded workpieces should not be coated until after the adhesive is fully hardened; if they are coated too early, the formation of bubbles in the coating cannot be ruled out.
- In the production and processing of stainless steel, auxiliary materials such as wax, oils, etc. are used. These materials cannot be simply wiped clean. It has been shown that after cleaning with solvents, grinding or (even better), sandblasting the surface, followed by repeated cleaning with solvents delivers considerably better bonding results.
- Zinc-plated sheets should always be protected against the permanent influence of moisture. To prevent the formation of „white rust“, any moisture that arises must be prevented from coming into contact with the bonding surface!
- Bonding larch: 1-C-PUR adhesives must never be used for bonding larch surfaces in outdoor areas. The substance „arabinogalactan“ which is contained in the wood, or forms within it, considerably weakens the bonding strength! No problems have been identified with PVAC and EPOXI adhesives.
- When bonding solid wood, the adhesive should preferably be applied to both bonding surfaces.
- For bonding solid wood in outdoor applications, suitable tests should be performed to determine the optimum permanent bond depending on the type of wood, weather intensity, surface protection and geometry of the bonding gap.
- The adhesive is mildly foaming and is therefore well-suited to be used on slightly uneven surfaces. The pressing time must be adjusted according to the thickness of the gluing joint.
- Skin-forming and joining times, as well as the respective pressing and processing times required, are influenced by criteria such as material, temperature, amount applied and air moisture, amongst others. As a result, they can only be precisely determined through independent tests. Corresponding safety margins for the specified reference values should be accounted for by the installer.

Plastic adhesive REPLAST® Easy Superfast

For REPLAST® Easy plastic repair system

- An adhesive for virtually every type of plastic
- Special positive mixer for optimum mixing with low adhesive loss
- Rapid curing
- Excellent chemical resistance
- Free from solvents



Contents	50 ml
Chemical basis	Two-component polyurethane
Colour	Black
Processing time	30 s
Min./max. processing temperature	15 to 25 °C
Min./max. temperature resistance	-30 to +100 °C

Art. no. 0893 500 5

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

There may be adhesion problems in individual cases due to the coatings and release agents used in some cases in the plastic production process. Not suitable for PE (polyethylene), PP (polypropylene) or PTFE (polytetrafluor ethylene) plastics. Check material compatibility on an invisible area if necessary.

Plastic adhesive REPLAST® Easy, transparent

For colourless bonding of transparent or coloured plastic parts

- An adhesive for virtually every type of plastic
- Special positive mixer for optimum mixing with low adhesive loss
- Excellent chemical resistance
- Free from solvents

Contents	50 ml
Container	Cartridge
Chemical basis	Two-component polyurethane
Colour	Transparent
Processing time	3 min
Min./max. processing temperature	15 to 35 °C
Min./max. temperature resistance	-35 to +90 °C
Shelf life from production/conditions	12 Month/at 23°C and 50% relative humidity, no exposure to direct sunlight



Art. no. 0893 500 8

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

There may be adhesion problems in individual cases due to the coatings and release agents used in some cases in the plastic production process. Not suitable for PE (polyethylene), PP (polypropylene) or PTFE (polytetrafluoroethylene) plastics. Check material compatibility on an invisible area if necessary.

Plastic adhesive REPLAST® Easy Universal

For REPLAST® Easy plastic repair system

- An adhesive for virtually every type of plastic
- Special positive mixer for optimum mixing with low adhesive loss
- Rapid curing
- Excellent chemical resistance
- Free from solvents

Contents	50 ml
Chemical basis	Two-component polyurethane
Colour	Black
Processing time	3.5 min
Min. initial strength	30 min
Min./max. processing temperature	15 to 25 °C
Min./max. temperature resistance	-30 to +100 °C



Continuation **Plastic adhesive REPLAST® Easy Universal**

Art. no. 0893 500 4

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

There may be adhesion problems in individual cases due to the coatings and release agents used in some cases in the plastic production process. Not suitable for PE (polyethylene), PP (polypropylene) or PTFE (polytetrafluoroethylene) plastics. Check material compatibility on an invisible area if necessary.

Plastic adhesive Special

Quick-hardening adhesive for plastics, especially PP/PE

Excellent adhesion to plastics and metals

Secure and long-lasting bonding to the widest range of materials possible.

Rapid processing

No primer or activator necessary

Excellent resistance to moisture and media



Contents	37 ml
Container	Double cartridge
Chemical basis	Acrylate
Colour	Yellowish
Working life	5 min
Min. initial strength	2 h
Min./max. temperature resistance	-55 to +80 °C

Art. no. 0893 480 001

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

The adhesive is UV-resistant behind glass or plastics in internal areas. The adhesive may discolour and become brittle in direct sunlight or weather.

2-component plastic repair adhesive REPLAST®

38-piece assortment for repairing plastic parts, including all required accessory products in system case

- 2C adhesive for the repair and bonding of many types of plastic
- Fast curing
 - Can be sanded and painted over after a very short period of time
- High degree of flexibility of cured adhesive
 - Absorbs more movement and vibrations at the bumper



Shelf life from production/conditions	24 Month/at 23 °C and 50% relative humidity
Product weight (per item)	3280 g
Number of pieces in assortment/set	40 PCS
Min. processing temperature	15 °C

ORSY

Art. no. 5964 089 301

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Contents for art. no. 5964 089 301		
Designation	Art. no.	Quantity
Static mixing tube	0891 486	25
Double cartridge gun für 50 ml Kartuschen	0891 893 485	1
Superglue Super-fast glue	0893 090	1
Activator	0893 301 20	1
2C plastic adhesive 25sec.	0893 500 041	2
2C plastic adhesive 90sec.	0893 500 042	2
2C plastic adhesive 210sec.	0893 500 043	2
Plastic cleaner REPLAST	0893 500 1	1
Plastic primer REPLAST	0893 500 2	1
Reinforcement tape	0893 500 6	1
Contour film	0893 500 7	1

Plastic cleaner Type 10

Slightly softening cleaning agent for profiles in white rigid PVC in plastic window construction

- Fast flash-off time
- Free of chlorinated hydrocarbons and aromatic compounds

Contents	1000 ml
Container	Can
Smell/fragrance	Characteristic
Chemical basis	Monocarboxylic acid esters



Art. no. 0892 100 10

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Assembly adhesive

Assembly adhesive for fast and high-strength adhesive bonding for indoor and outdoor applications

- Resistant to weathering, ageing and UV
- Hardens quickly
- Can be used on a wide range of surfaces

Container	Cartridge
Contents	310 ml
Chemical basis	Styrene-butadiene natural rubber
Colour	Light beige
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-40 to +100 °C



Continuation **Assembly adhesive**

Art. no. 0892 100 100

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

The flash-off time for the solvent may be longer (ranging from days to weeks) on large bonded joints, at low temperatures and on strongly compressed constructions.

Solvent-free assembly adhesive

Solvent-free, acrylic dispersion-based adhesive with high initial strength for bonding a wide range of indoor materials

- Paint-compatible/can be painted over
- Resistant to ageing
- Silicone-free

Contents	310 ml
Chemical basis	Acrylate dispersion
Colour	Light beige
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-25 to +80 °C
Shelf life from production	12 Month



Art. no. 0893 100 100

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

The assembly adhesive should not be used in sanitary areas, on marble/natural stone, underground, on bituminous substrates, on untreated (non-primed) metal surfaces or on joints in constant contact with moisture (e.g. concrete surfaces in contact with the ground).

The setting speed is determined by the ambient temperature and quantity of adhesive applied. This increases with high amounts of adhesive and in cold and damp conditions.



Multi high-strength adhesive

Very fast, high-strength adhesive

- Very high adhesive strength
- Hardens quickly
- Very good adhesion to a wide range of substrates, such as marble, synthetic stone, etc.
- Resistant to weathering and ageing
- Tested adhesion for „stay-in-place formwork elements“* by MPA Braunschweig. Test number: 5131/2446-a
- Tested stress group D4 in accordance with DIN/EN 204 by ift Rosenheim. Test number: 55524676
- Tested heat resistance to WATT 91 by ift Rosenheim. Test number: 555 34457

*Stay-in-place formwork elements: The wood cement flat-pressed panels are used in building construction for ring beam formwork, ceiling edge formwork and lintel formwork. The formwork is encapsulated in concrete and remains in the element, giving the name „stay-in-place formwork“.

Contents	310 ml
Chemical basis	Polyurethane
Colour	Beige
Min. wet skin-formation time	2 min
Min. dry skin-formation time	5 min
Full curing speed/conditions	2.5 mm/d/20°C and 50% relative humidity
Min./max. processing temperature	7 to 30 °C

Continuation **Multi high-strength adhesive**

Min./max. temperature resistance	-30 to 110 °C
Shelf life from production	24 Month

Art. no. 0893 100 110

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Profile rubber adhesive

Contact adhesive for universal use

Good adhesion properties on a wide variety of substrates

- High initial adhesion
- Quick drying
- Ready to use
- Practical can with brush
- Easy to spread
- Resistant to the effects of water (including seawater), petrol, dilute acids and alkali solutions
- Resistant to ageing
- Cures to transparent
- Silicone-free



Contents	250 ml
Chemical basis	Polychloroprene
Colour	Amber
Min./max. flash-off time	10 min-90 min
Min./max. processing temperature	18 to 35 °C
Min./max. temperature resistance	-20 to +80 °C
Shelf life from production	24 Month

Art. no. 0890 100 014

P. Qty.: 1/22

Please consider the legal instruction at the beginning of this chapter.

Protect from exposure to direct sunlight and heat. The profile rubber cement should be kept cool and dry and stored at temperatures between +15°C and +25°C

Plastic primer REPLAST

Adhesive primer for most common plastics

The plastic primer improves the adhesion of REPLAST plastic adhesives on various plastic surfaces.

Contents	200 ml
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Art. no. 0893 500 2

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Carry out preliminary tests to ensure surface compatibility.

Retouching putty Metal epoxy stick

2-component compound for quick and simple repairs of surface damage.

- No mixing necessary
- Excellent adhesion properties
- High temperature resistance
- Can be painted over



Chemical basis	Epoxy resin
Colour	Silver coloured
Length	175 mm
Diameter (Ø)	22 mm
Min./max. processing time	2-5 min
Can be further processed after min.	20 min
Min. final strength	3 h
Min./max. processing temperature	5 to 25 °C
Min./max. temperature resistance of the hardened material	-20 to 120 °C
Max. short-term temperature resistance	150 °C
Shelf life from production/conditions	24 Month/frost-free storage area, no exposure to sunlight

Art. no. 0893 449 011

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Protect from frost and direct sunlight when not applied. Gloves should be worn when applying the repair compound. Due to the different material densities, there are differences in the information regarding the weight of each stick type. For applications subject to high material stresses, the suitability of the repair compound must be checked with preliminary testing.

SMP adhesive sealant, 2-component

Fast curing 2-component adhesive sealant for controlled curing regardless of air humidity

Benefits of the 2 components

- Very safe due to controlled hardening
- Air humidity does not affect the process
- Also suitable for large surfaces



Container	Coaxial cartridge
Contents	195 ml
Chemical basis	Silane modified polymer
Colour	Grey
Min. functional strength	3.5 h
Min./max. processing temperature	7 to 30 °C
Min./max. temperature resistance	-40 to +100 °C
Max. short-term temperature resistance	200
Shelf life from production/conditions	15 Month/dry storage area, no exposure to direct sunlight, in sealed original containers, 5 °C to 25 °C

Art. no. 0893 237 170

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

- GEV: Classified as EMICODE class EC2 in accordance with GEV criteria
- ILAK, Institut für Lackprüfung: Salt spray test in accordance with DIN EN ISO 9227
- Test report no.: 9-5-18/4
- Application times are reduced to around half the time at +30°C and extend to around double the time at +10°C.
- The bonded workpieces should not be coated until after the adhesive is fully hardened; if they are coated too early, the formation of bubbles in the coating cannot be ruled out.
- The long-term behaviour of bonds between materials with different linear expansion rates must be evaluated, in particular when placed under load in areas with variable temperatures

Bonding metals

- No general statement can be made concerning the wettability or bonding ability of anodised surfaces due to the variety, age and potential additional treatments on these adhesive surfaces, such as oils or waxes.
- Due to aluminium surfaces and properties being difficult to define, we always recommend that you obtain sufficient information from the supplier to enable you to choose the optimum pre-treatments for your particular bonding application. Sufficient preliminary tests are necessary
- In the production and processing of stainless steel, auxiliary materials such as wax, oils etc. are frequently used. These materials cannot be simply wiped clean. It has been shown that cleaning with the universal cleaner type 60 (art. no. 0892 130 030, 0892 130 031), grinding or (preferably), sandblasting the surface, followed by repeated cleaning delivers considerably better bonding results.
- In principle, zinc-plated sheets must always be protected against ongoing ingress of moisture to prevent „white rust formation“. For bonding, this includes preventing any moisture that arises from coming into contact with the bonding surface.
- When bonding metals to absorbent materials (e.g. wood, construction materials etc.), the moisture can be slowly transported through the bonding gap by the absorbent material onto the metal surface, where it can cause corrosion damage to the metal. The metallic bonding surface must therefore have suitable corrosion protection, e.g. paint or powder coating.
- Powder coatings with PTFE components cannot be coated reliably without pre-treatment (e.g. plasma procedure).

SMP adhesive sealant METALLIC

Universal SMP-based elastic adhesive and sealant with a metallic appearance

- Ideal for bonding and sealing metal substrates
- Remains flexible and can therefore compensate for dynamic loads
- Resistant to ageing and odourless

Container	Cartridge
Contents	290 ml
Chemical basis	Silane modified polymer
Colour	Silver metallic
Full curing speed/conditions	2.5 mm/d/23 °C and 50% relative humidity
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-40 to +90 °C
Shelf life from production/conditions	18 Month/at 10 °C to 25 °C



Art. no. 0893 237 160

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

- The SMP metallic adhesive sealant may become yellow and possibly become brittle after long-term UV exposure, especially in outdoor applications.
- Not suitable for building construction expansion joints, glazing rebate seals, joints continuously exposed to water, or heavily expanded perimeter joints.
- Only for use on fully hardened paints. Not suitable for use on artificial resin surfaces (alkyd resin).

SMP adhesive sealant SPRINT

Rapid-curing, permanently elastic SMP-based adhesive and sealant with high temperature resistance

Excellent adhesive range

- Very good adhesion to almost all surfaces, mostly without primer
- Adheres to damp surfaces and underwater (for temporary repairs)
- Not corrosive to metals
- Compatible with natural stone - does not leave stains on porous surfaces

Can be sanded once cured

Container	Cartridge
Contents	290 ml
Chemical basis	Silane modified polymer
Min./max. skin-formation time	8-12 min
Min./max. processing temperature	0 to 40 °C
Shelf life from production/conditions	12 Month/at 5 °C to 25 °C



Continuation **SMP adhesive sealant SPRINT**

Colour	Full curing speed/conditions	Min./max. temperature resistance	Max. short-term temperature resistance	Art. no.	P. Qty.
Black	3.5 mm/d/20°C and 50% relative humidity	-40 to 100 °C	200 °C	0893 237 122	1/12
Grey	3.5 mm/d/20°C and 50% relative humidity	-40 to 100 °C	200 °C	0893 237 121	1/12
White	3.5 mm/d/23°C and 50% relative humidity	-40 to +100 °C	200	0893 237 120	1/12

Please consider the legal instruction at the beginning of this chapter.



- PMMA and polycarbonate must only be glued when not under tension; otherwise, stress cracks are likely to occur. In the case of polycarbonate, we always recommend preliminary tests.
- In general, for plastics, it must be ensured that the release agents used in production or the protective films used for transport are removed without residue before bonding, as these sometimes considerably worsen adhesion.
- For plastics containing softeners (e.g. soft PVC, butyl rubber, EPDM and APTK), incompatibilities such as discolouration and loss of adhesion can result. Suitability in this respect should be systematically tested.
- Although the SMP adhesive sealant SPRINT has excellent adhesion on aluminium and cement fibre panels, stated applications do not include bonding of facade panels.

SMP adhesive sealant XTREME

Elastic SMP-based adhesive and sealant for large bonded areas and with high temperature resistance

Many areas of application

- Good adhesion properties on a variety of surfaces
- Good UV stability and weather resistance outdoors
- Not corrosive to metals
- Suitable for bonding and sealing in food processing plants (ISEGA)
- Compatible with natural stone
- Can be sanded and painted after hardening
- Solvent and silicone-free
- Not suitable for permanent underwater use in swimming pools



Container	Cartridge
Contents	290 ml
Chemical basis	Silane modified polymer
Colour	White
Min./max. skin-formation time	20-25 min
Full curing speed/conditions	4 mm/d/20°C and 50% relative humidity
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-40 to +100 °C

Max. short-term temperature resistance	180
Shelf life from production/conditions	18 Month/at 15°C to 25°C

Art. no. 0893 237 130

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

ISEGA: Can be used where food is processed or stored, e.g. for bonding wall and floor areas in food processing companies. Clearance certificate no.: 42178 U16

GEV: Classified as EMICODE class EC1^{plus} in accordance with GEV criteria (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e. V. – German Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials e. V.)



- Store original container tightly sealed in a dry place at temperatures between +15°C and +25°C without exposure to direct sunlight
- Polyolefins (among others PE, PP) cannot be bonded without pre-treatment e.g. plasma or corona procedures.
- When bonding to PVC, ABS, hard PS, concrete and powder-coated surfaces, priming with AdhesionPlus for plastic/wood/stone (art. no. 0890 100 62) is recommended.
- When joining non-absorbent materials (moisture content of material $\leq 8\%$), the adhesive must also be finely misted with water in order for the adhesive to fully cure.
- The bonded workpieces should not be coated until after the adhesive is fully hardened; if they are coated too early, the formation of bubbles in the coating cannot be ruled out.

The long-term behaviour of bonds between materials with different linear expansion rates must be evaluated, in particular when placed under load in areas with variable temperatures

- No general statement can be made concerning the wettability or bonding ability of anodised surfaces due to the variety, age and potential additional treatments on these adhesive surfaces, such as oils or waxes.
- Due to aluminium surfaces and properties being difficult to define, we always recommend that you obtain sufficient information from the supplier to enable you to choose the optimum pre-treatments for your particular bonding application. Sufficient preliminary tests are necessary.
- In the production and processing of stainless steel, auxiliary materials such as wax, oils etc. are frequently used. These materials usually cannot be simply wiped clean. It has been shown that cleaning with universal cleaner type 60 (art. no. 0892 130 030, 0892 130 031), grinding or (preferably) sand-blasting the surface, followed by repeated cleaning with solvent delivers considerably better bonding results.
- In principle, zinc-plated sheet metal must always be protected against ongoing ingress of moisture to prevent white rust formation. This includes preventing any moisture that arises from coming into contact with the bonding surface
- Powder coatings with PTFE components cannot be coated reliably without pre-treatment (e.g. plasma procedure).
- PMMA must only be glued when it is not under tension; otherwise, stress cracks are likely to occur
- The current version of the Technical Guidelines for the Glazing Industry No. 11 must be observed for mirror bonding.

Static mixing tube

For ESK-50 fast-acting epoxy resin adhesive, MAK-38 methyl methacrylate, Spezial plastic adhesive and FLM 50 2-component liquid metal filler

Art. no. 0891 481

P. Qty.: 3

Please consider the legal instruction at the beginning of this chapter.



Static mixing tube

For 2-component PUR adhesive

Short, static mixing tube specially designed for cartridges of 2-component PUR adhesive

- Quick dispensing
- Reduced adhesive consumption, as less residue is left in the mixer nozzle

Material	PP - Polypropylene
Colour	Yellow, White
Length	231 mm

Art. no. 0892 135 20

P. Qty.: 15

Please consider the legal instruction at the beginning of this chapter.



Static mixing tube

For Powerbond bodywork adhesive

Art. no. 0891 450 101

P. Qty.: 15

Please consider the legal instruction at the beginning of this chapter.



Static mixing tube

For 2C plastic adhesive

Material	PP - Polypropylene
Colour	Red
Length	74 mm

Art. no. 0891 486

P. Qty.: 25

Please consider the legal instruction at the beginning of this chapter.



FSK system adhesive

For cold-welding hard PVC in plastic window construction, plumbing, exhibition construction and sign construction.

- User-friendly
- Suitable for indoor and outdoor use
- Short curing time
- Excellent resistance to media
- Silicone-free



Contents	204.08 ml
Weight of content	200 g
Chemical basis	Vinyl chloride polymer
Min./max. functional strength	2-4 min
Curing time	24 h
Min. processing temperature	5 °C
Shelf life from production	24 Month

Colour	Min./max. temperature resistance	Art. no.	P. Qty.
Transparent	-40 to +130 °C	0892 100 09	1/30
White	-40 to 130 °C	0892 100 091	1/30

Please consider the legal instruction at the beginning of this chapter.

When bonding additional profiles to Renolit film surfaces, it must be ensured that the additional profiles lie flat on the window profile and no adhesive gets on the film surface. This could result in bubbles forming in the acrylic layer before the adhesive has hardened sufficiently when exposed to high temperatures.

Not to be used with pressure pipes.

The FSK System Adhesive can only bridge adhesive gaps < 0.1 mm permanently.

The adhesive quantity is to be selected depending on the material thickness; the adhesive can "snap through" or lead to the formation of predetermined breaking points.

Adhesive joint can take weight after 16 hrs, depending on situation, complete hardness may take up to 8 weeks to achieve.

Universal cleaner Type 60

Non-corrosive universal cleaning agent for various plastics and powder-painted and metallic surfaces

- Fast flash-off time
- Free of chlorinated hydrocarbons and aromatic compounds

Smell/fragrance	Characteristic
Chemical basis	Mineral oil



Contents	Container	Art. no.	P. Qty.
1 l	Can	0892 130 030	12
5 l	Canister	0892 130 031	1

Please consider the legal instruction at the beginning of this chapter.

Static mixing tube

For 2-component adhesive AL-1

Short, static mixing tube specially designed for cartridges of 2-component adhesive AL-1

- Quick dispensing
- Reduced adhesive consumption, as less residue is left in the mixer nozzle

Material	PP - Polypropylene
Colour	Green, White
Length	157 mm

Art. no. 0892 130 015

P. Qty.: 15

Please consider the legal instruction at the beginning of this chapter.



Static mixer for Klebfix 2C

Allows precise application

- Correct mixing ratio
- Easy application

Colour	Grey, Orange
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Material	Length	Art. no.	P. Qty.
Plastic	60 mm	0891 481 000	10
PP - Polypropylene	77 mm	0891 481 001	10

Mixer nozzle for MAK 38

For methyl methacrylate adhesive MAK 38 in a 250 ml container

Material	PP - Polypropylene
Colour	Green
Length	15.5 cm

Art. no. 0891 481 002

P. Qty.: 10



Windscreen/window adhesive Revolution

Isocyanate-free 1C PU hybrid window adhesive to be processed with clear primer

- Can be used for all common car and van types
- Prevents contact corrosion
- Ideal for use on aluminium, magnesium and hybrid bodywork
- Tested according to FMVSS208/212. Meets requirements of original equipment manufacturers (vehicle manufacturers). Manufactured in accordance with OEM standard ISO 9001

Contents	300 ml
Container	Cartridge
Chemical basis	1-component polyurethane hybrid adhesive
Min. skin-formation time	15 min
Min./max. processing temperature	5 to 35 °C
Shelf life from production/conditions	12 Month/below 25°C



Art. no. 0890 023 501

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

During surface preparation, it is recommended that the panel be cleaned with the abrasive cleaning cloth and Würth Active Cleaner. It is absolutely essential that Würth Contact Clean is used. The products must be checked to ensure that they have not expired before they are used. Observe the information regarding bead geometry provided by the vehicle manufacturer. The application and drive-away times must be observed.

Window adhesive Ultimate 600 ml pack set

High-quality 1-component window adhesive for all types of vehicles that can be used in almost any season



- High-modulus
- Suitable for aerals, non-conductive
- Prevents contact corrosion

Safety tested

- 1-hour drive-away time with airbag at an ambient temperature of -10°C to +35°C
- Drive-away time confirmed with crash test and TÜV certificate in accordance with FMVSS208/212!
- Meets requirements of original equipment manufacturers (vehicle manufacturers)

Contents	600 ml
Number of pieces in assortment/set	7 PCS
Drive-away time (with airbag)	1 h
Drive-away time (without airbag)	0.5 h
Min./max. processing temperature	-10 to 35 °C

Art. no. 0890 023 871

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

It is imperative that the Würth active cleaner and Würth Varioprimer are used when preparing surfaces. The products must be checked to ensure that they have not expired before they are used. Apply the adhesive with the gun perpendicular to the frame, starting from the centre of the bottom edge of the window. Do not park the vehicle on a lifting platform. Observe the information regarding bead geometry provided by the vehicle manufacturer. The application and drive-away times must be observed.

1-component window adhesive Ultimate

High-quality 1-component window adhesive for all types of vehicles that can be used in any season

- Highly modular vehicle-strengthening window adhesive
- Suitable for aerals, non-conductive
- Prevents contact corrosion, therefore ideal for use on aluminium, magnesium and hybrid bodywork

Chemical basis	Moisture curing 1K polyurethane
Max. open time/conditions	15 min/at 23°C and 50% humidity
Min./max. processing temperature	5 to 35 °C
Shelf life from production/conditions	12 Month/at 5°C to 25°C



Contents	Container	Art. no.	P. Qty.
310 ml	Cartridge	0890 023 801	1/12
400 ml	Bag	0890 023 831	15

Please consider the legal instruction at the beginning of this chapter.

Not suitable for bonding rear windows in convertibles with a fabric cover.

It is imperative that the Würth active cleaner and Würth Varioprimer are used when preparing surfaces. The products must be checked to ensure that they have not expired before they are used. Apply the adhesive with the gun perpendicular to the frame, starting from the centre of the bottom edge of the window. Do not park the vehicle on a lifting platform. Observe the information regarding bead geometry provided by the vehicle manufacturer. The application and drive-away times must be observed.

The application instructions are recommendations based on the tests we have conducted and on our experience; please carry out your own tests before each application. Due to the large number of applications and storage and processing conditions, we do not assume any liability for a specific application result. If our free customer service provides technical information or acts as an advisory service, no responsibility is assumed by this service except where the advice or information given falls within the scope of our specified, contractually agreed service or the advisor was acting deliberately. We guarantee the consistent quality of our products. We reserve the right to make technical changes and further develop products.

Window adhesive Ultimate 310 ml cartridge set

High-quality 1-component window adhesive for all types of vehicles that can be used in almost any season

- High-modulus
- Antenna-compatible, non-conducting
- Prevents contact corrosion



Tested safety

- 1 h drive-away time with air bag at an ambient temperature of -10°C to +35°C
- Drive-away time confirmed by crash test and TÜV certification according to FMVSS208/212!
- Meets requirements of original equipment manufacturers (vehicle manufacturers)

Contents	310 ml
Container	Cartridge
Number of pieces in assortment/set	5 PCS
Drive-away time (with airbag)	1 h
Drive-away time (without airbag)	30 min
Drive-away time conditions	at ambient temperature -10°C to 35°C
Min./max. processing temperature	5 to 35 °C
Max. open time/conditions	15 min/at 23°C and 50% humidity

Art. no. 0890 023 800

P. Qty.: 1/24

Please consider the legal instruction at the beginning of this chapter.

Contents for art. no. 0890 023 800		
Designation	Art. no.	Quantity
1-component window adhesive Ultimate	0890 023 801	1
Varioprimer safe + easy	0890 024 021	1
Primer brush	0891 650	1
Standard window application nozzle	0891 651	1

Window adhesive Ultimate 400 ml pack set

High-quality 1-component window adhesive for all types of vehicles that can be used in almost any season



- High-modulus
- Suitable for aerals, non-conductive
- Prevents contact corrosion

Safety tested

- 1-hour drive-away time with airbag at an ambient temperature of -10°C to +35°C
- Drive-away time confirmed with crash test and TÜV certificate in accordance with FMVSS208/212!
- Meets requirements of original equipment manufacturers (vehicle manufacturers)

Contents	400 ml
Container	Bag
Number of pieces in assortment/set	6 PCS
Drive-away time (with airbag)	1 h
Drive-away time (without airbag)	30 min
Drive-away time conditions	at ambient temperature -10°C to 35°C
Max. open time/conditions	15 min/at 23°C and 50% humidity

Art. no. 0890 023 830

P. Qty.: 1/24

Please consider the legal instruction at the beginning of this chapter.

Contents for art. no. 0890 023 830		
Designation	Art. no.	Quantity
1-component window adhesive Ultimate	0890 023 831	1
Varioprimer safe + easy	0890 024 021	1
Primer brush	0891 650	1
Standard window application nozzle	0891 651	1
Adapters	0891 651 10	1

Glass cleaner Active cleaner

Special cleaner for pre-treatment in window repair

For cleaning the entire pane of glass incl. ceramic screen printing, PVC or PUR-RIM resprayed surfaces.

Chemical basis	Aliphatic hydrocarbon
Contents	500 ml
Colour	Colourless
Smell/fragrance	Characteristic
pH value	9

Art. no. 0890 024 1

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Adhesion promoter Contact Clean

Transparent primer for Revolution window adhesive

- Transparent adhesion promoter for Revolution window adhesive
- Activator for trimming (remaining bead) and PU/PVC pre-coated windows

Colour	Transparent
Min. flash-off time	15 min
Flash-off time conditions	at 23 °C and 50% relative humidity
Min. processing temperature	5 °C
Max. processing temperature	25 °C



Container	Contents	Art. no.	P. Qty.
Can	20 ml	0890 024 5	1/24
Can	250 ml	0890 024 500	1/6
Pad	1.1 ml	0890 024 515	15

Please consider the legal instruction at the beginning of this chapter.

Product provides no UV protection. Please do not wipe off.

Shake the container well before opening.

Varioprimer safe + easy

Multi-purpose surface pre-treatment agent for all common substrates found in replacement glazing

4-in-1 system

- Adhesion agent
- Corrosion protection
- Activator
- Protects the adhesive from UV radiation

Colour	Black
Min. flash-off time	10 min
Max. flash-off time	24 h



Continuation **Varioprimer safe + easy**

Flash-off time conditions	at 23 °C and 50% relative humidity, as a primer, corrosion protection, activator
Min. processing temperature	10 °C
Max. processing temperature	35 °C

Container	Contents	Art. no.	P. Qty.
Can	20 ml	0890 024 021	1/24
Can	100 ml	0890 024 101	1/12
Stick	10 ml	0890 024 010	12

Please consider the legal instruction at the beginning of this chapter.

Shake the container before using the Varioprimer. Do not use the primer if it has gelled. Once opened, use as quickly as possible.

When used on translucent surfaces such as windscreens without screen print edge, UV protection for the adhesive surface (to protect the primer) is mandatory.

Sealant, removable

A versatile sealant that can be dabbed off, does not harden and cannot be painted over.

For sealing overlaps, joints, seams, fittings and under cover strips.

Can be used in caravan, motorhome, commercial vehicle, ship and equipment construction.

Remains permanently sticky, does not harden and does not run.

High degree of material compatibility

Chrome, paint and rubber are not affected

Chemical basis	Polyisobutylene
Resistance against	Water, Alkaline water



Colour	Min./max. temperature resistance	Art. no.	P. Qty.
Black	-30 to +100 °C	0890 100 043	1/12
Grey	-30 to 100 °C	0890 100 143	1/12

Please consider the legal instruction at the beginning of this chapter.

Not suitable for expansion joints.

Universal adhesive Extra

Neoprene-based contact adhesive

- Can be easily applied to the surface to be adhered with a brush and toothed spatula.
- Resistant to ageing
- Good elasticity
- Silicone-free

Chemical basis	Solvent neoprene
Colour	Brownish



Max. final strength	24 h
Min./max. processing temperature	15 to 25 °C
Shelf life from production	12 Month

Contents	Container	Min./max. temperature resistance	Art. no.	P. Qty.
65.5 ml	Tube	-20 to 125 °C	0893 100 021	1/12
185 ml	Tube	-20 to 125 °C	0893 100 022	1/12
730 ml	Can	-20 to +110 °C	0893 100 023	1/12
4600 ml	Canister	-20 to 125 °C	0893 100 024	1

Please consider the legal instruction at the beginning of this chapter.

Not to be used on polystyrene, soft PVC, PVC films, PE and PP. Smooth surfaces should be sanded.

Superglue Klebfix 4-in-1

Universal superglue specially designed for porous materials and uneven, rough components as well as for metal, plastic and rubber.

- Typical bonding applications include profile rubber for wood and plastic windows
- Adheres both smooth and absorbent surfaces
- The adhesive hardens extremely quickly

Weight of content	50 g
Chemical basis	Cyanoacrylate acidic ester
Colour	Transparent
Max. gluing gap size	0.25 mm
Min./max. hardening time/conditions	10-60 s/Depending on the material
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-30 to +80 °C
Shelf life from production/conditions	12 Month/at room temperature



Art. no. 0893 423

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

- It is advisable to wear safety gloves and safety goggles.
- If surfaces are too dry or acidic, this will delay or prevent hardening, while higher levels of moisture and alkaline surfaces will have an accelerating effect.
- Due to the vapour pressure of the liquid adhesive, slow curing excess product around the adhesive area may result in a white deposit (blooming effect). These are adhesive vapours that are hardening. These can be removed with e.g. isopropanol or acetone. However, it is important to note that the surfaces of the parts to be cleaned are also resistant to these solvents. Blooming can be prevented/reduced by using the adhesive economically and ensuring sufficient air humidity and ventilation in the work area.

Superglue Klebfix GEL

Run-proof superglue in gel form enables precise application, even on overhead or vertical surfaces.



- For bonding different materials to each other effectively
Aluminium, steel, iron, copper, brass, paint, wood, MDF, chipboard, decorative panels, cork, cardboard, felt, leather, porcelain, fibre glass, rubber, plastics (such as hard PVC, ABS, PMMA)
Not suitable for PP, PE, PTFE, silicone and bitumen.
- Fast-setting
- Solvent- and silicone-free

Chemical basis	Ethyl-2-cyanoacrylate monomer
Colour	Transparent
Max. gluing gap size	0.25 mm
Min./max. hardening time/conditions	20-100 s/Depending on the material
Min./max. processing temperature	5 to 20 °C
Shelf life from production/conditions	24 Month/cool and dry storage area

Weight of content	Min./max. temperature resistance	Art. no.	P. Qty.
3 g	-40 to 85 °C	0893 403	1/40
20 g	-40 to +85 °C	0893 403 1	1/10

Please consider the legal instruction at the beginning of this chapter.

- It is advisable to wear safety gloves and safety goggles.
- If surfaces are too dry or acidic, this will delay or prevent hardening, while higher levels of moisture and alkaline surfaces will have an accelerating effect.
- Due to the high vapour pressure and moisture on the surrounding surfaces, a white deposit may appear around the point of adhesion (blooming effect). These are adhesive vapours that are hardening. These can be removed with e.g. acetone. However, it is important to note that the surfaces of the parts to be cleaned are also resistant to acetone. Blooming can be prevented/reduced by using the adhesive economically and ensuring sufficient air humidity and ventilation in the work area.

Superglue Klebfix PLASTOBOND

For bonding hard-to-glue plastics quickly.

- For bonding plastics to each other
Like ABS, PVC, PMMA, PA, PBT, PET, PI, EPDM, filled elastomers and natural rubbers.
The primer also allows POM, TPE, TPO, PE, PP, PTFE and silicone rubber to be bonded.
- Solvent- and silicone-free

Weight of content	20 g
Chemical basis	Cyanoacrylate acidic ester
Colour	Transparent
Max. gluing gap size	0.15 mm
Min./max. processing temperature	5 to 35 °C



Min./max. temperature resistance	-55 to +105 °C
Shelf life from production/conditions	12 Month/at room temperature

Art. no. 0893 091

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

- It is advisable to wear safety gloves and safety goggles.
- If surfaces are too dry or acidic, this will delay or prevent hardening, while higher levels of moisture and alkaline surfaces will have an accelerating effect.
- Due to the vapour pressure of the liquid adhesive, slow curing excess product around the adhesive area may result in a white deposit (blooming effect). These are adhesive vapours that are hardening. These can be removed with e.g. isopropanol or acetone. However, it is important to note that the surfaces of the parts to be cleaned are also resistant to these solvents. Blooming can be prevented/reduced by using the adhesive economically and ensuring sufficient air humidity and ventilation in the work area.

Superglue KLEBFIX 4-in-1

Universal superglue with brush applicator for extremely thin, flat adhesive application.

- With application brush for bonding very thin and small surfaces
- „Overhead“ application even possible for extremely thin adhesive layers
- The adhesive hardens extremely quickly
- Bonds both smooth and porous substrates
- Solvent- and silicone-free



Weight of content	4 g
Chemical basis	Cyanoacrylate acidic ester
Colour	Transparent
Max. gluing gap size	0.25 mm
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-40 to +120 °C
Shelf life from production/conditions	12 Month/at room temperature

Art. no. 0893 094

P. Qty.: 1/25

Please consider the legal instruction at the beginning of this chapter.

- It is advisable to wear safety gloves and safety goggles.
- Due to the high vapour pressure and moisture on the surrounding surfaces, a white deposit may appear around the point of adhesion (blooming effect). These are adhesive vapours that are hardening. These can be removed with e.g. acetone. However, it is important to note that the surfaces of the parts to be cleaned are also resistant to acetone. Blooming can be prevented/reduced by using the adhesive economically and ensuring sufficient air humidity and ventilation in the work area.

Superglue Super-fast glue

For bonding metal, plastic and rubber parts with and to each other in a matter of seconds.

- Bonds metal, plastic and rubber parts to each other in seconds
- High level of resistance to ageing and climatic conditions
- Solvent- and silicone-free



Chemical basis	Cyanoacrylate acidic ester
Colour	Transparent
Max. gluing gap size	0.1 mm
Min./max. hardening time/conditions	2-90 s/Depending on the material
Min./max. processing temperature	5 to 35 °C
Shelf life from production/conditions	12 Month/at room temperature

Weight of content	Min./max. temperature resistance	Art. no.	P. Qty.
5 g	-30 to +80 °C	0893 090 0	1/25
50 g	-30 to 80 °C	0893 090	1

Please consider the legal instruction at the beginning of this chapter.

NSF registered, class P1, reg. no. 151993

NSF-tested in accordance with NSF/ANSI 61 for use in service water and drinking water



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

- It is advisable to wear safety gloves and safety goggles.
- If surfaces are too dry or acidic, this will delay or prevent hardening, while higher levels of moisture and alkaline surfaces will have an accelerating effect.
- Due to the vapour pressure of the liquid adhesive, slow curing excess product around the adhesive area may result in a white deposit (blooming effect). These are adhesive vapours that are hardening. These can be removed with e.g. isopropanol or acetone. However, it is important to note that the surfaces of the parts to be cleaned are also resistant to these solvents. Blooming can be prevented/reduced by using the adhesive economically and ensuring sufficient air humidity and ventilation in the work area.

Superglue Klebfix Easy Pen

For easy and effortless work. Very easy to use one-handed.

- Easy Pen design
Fits ergonomically in your hand
- Bonds in seconds
For bonding metal, plastic and rubber parts to each other
- Solvent- and silicone-free



Weight of content	30 g
Chemical basis	Cyanoacrylate acidic ester

Colour	Transparent
Max. gluing gap size	0.1 mm
Min./max. hardening time/ conditions	2-90 s/Depending on the material
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-30 to +80 °C
Shelf life from production/ conditions	12 Month/dry, at room temperature

Art. no. 0893 090 030

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

NSF-registered, class P1, reg. no. 151994

NSF-tested according to NSF/ANSI 61 for use with water for drinking and other domestic uses



NSF = international-
ally recognised
organisation for
the supervision
and registration
of products used
in the food pro-
cessing sector

- It is advisable to wear safety gloves and safety goggles.
- If surfaces are too dry or acidic, this will delay or prevent hardening, while higher levels of moisture and alkaline surfaces will have an accelerating effect.
- Due to the vapour pressure of the liquid adhesive, slow curing excess product around the adhesive area may result in a white deposit (blooming effect). These are adhesive vapours that are hardening. These can be removed with e.g. isopropanol or acetone. However, it is important to note that the surfaces of the parts to be cleaned are also resistant to these solvents. Blooming can be prevented/reduced by using the adhesive economically and ensuring sufficient air humidity and ventilation in the work area.

Superglue Klebfix FLEX

Tough yet flexible black superglue with excellent thermal resistance.

- Bonds metal, plastic and rubber parts to each other in seconds
- High thermal stability
- High degree of impact and peel resistance

Weight of content	20 g
Chemical basis	Cyanoacrylate acidic ester
Colour	Black
Max. gluing gap size	0.15 mm
Min./max. processing temperature	10 to 35 °C
Min./max. temperature resistance	-55 to +120 °C



Art. no. 0893 092

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Continuation **Superglue Klebfix FLEX**

- It is advisable to wear safety gloves and safety goggles.
- If surfaces are too dry or acidic, this will delay or prevent hardening, while higher levels of moisture and alkaline surfaces will have an accelerating effect.
- Due to the vapour pressure of the liquid adhesive, slow curing excess product around the adhesive area may result in a white deposit (blooming effect). These are adhesive vapours that are hardening. These can be removed with e.g. isopropanol or acetone. However, it is important to note that the surfaces of the parts to be cleaned are also resistant to these solvents. Blooming can be prevented/reduced by using the adhesive economically and ensuring sufficient air humidity and ventilation in the work area.

Activator

To accelerate the curing of superglues

Contents	150 ml
Chemical basis	Aliphatic hydrocarbon
Colour	Transparent
Min./max. flash-off time	2 min-10 min
Shelf life from production	24 Month

Art. no. 0893 301 20

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Using the activator may reduce the final strength of the adhesive used by about 20% compared to ideal values.

The activator is very compatible with common plastics. However, when used for the first time, it should be tested in an invisible location to check whether the plastic is resistant to the activator (as a precautionary measure).



Primer for superglues

For improving adhesion of hard-to-glue plastics

Contents	50 ml
Chemical basis	Aliphatic solvent
Colour	Transparent
Min. flash-off time	60 s
Min./max. processing temperature	5 to 35 °C
Shelf life from production	24 Month

Art. no. 0893 091 5

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Caution: For combination bonding with different materials, only the non-polar surface may be primed





High-strength spray adhesive Plus

Contact adhesive with high immediate adhesive strength and high heat resistance

- Excellent heat resistance up to 110°C
- Fast-drying
- Transparent hardening

Contents	400 ml
Chemical basis	Synthetic rubber
Colour	Transparent
Min./max. flash-off time	5 min-15 min
Min./max. processing temperature	0 to 30 °C
Min./max. temperature resistance	-20 to +110 °C
Shelf life from production	12 Month

Art. no. 0890 100 064

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Spray contact adhesive BOND 90

Spray adhesive for quick and reliable bond with high adhesive force and high temperature resistance

Versatile thanks to good material compatibility and high adhesive force

- Suitable for adhering high-quality and thicker coatings and laminates
- Adhesive does not show through – ideal for thin or reflective surface materials

Enables simple, quick working

- Mobile system, can be used directly from the pressure tank
- Tension-free bonds can be processed further directly after pressing
- No cleaning of the system is required

Supplied without application gun, nozzle and without connection hose



Contents	22.1 l
Chemical basis	Styrene-butadiene natural rubber
Colour	Transparent
Min./max. processing temperature	15 to 25 °C
Min./max. temperature resistance	-20 to +95 °C
Shelf life from production	15 Month

Art. no. 0893 100 014

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

- Supplied without application gun, nozzle and without connection hose
- Important: Only use original Würth accessories and spare parts.
- The hardened adhesive joint must not come into contact with solvents or harsh industrial cleaners.
- Do not store above +50°C and do not expose to direct sunlight.
- Disposal: Do not disconnect hose from the container unless it is depressurised and emptied, and the container valve is closed. Then open the valve completely and use a non-sparking tool to open the pre-punched rated breaking point on the unpressurised tank and dispose of the tank in accordance with local regulations.

Application gun Premium

For applying the contact adhesive BOND 90

- Easy and precise spray pattern adjustment
- Very homogeneous spray pattern
- Durable premium quality due to robust all-metal design

Material	Metal
Colour	Silver



Art. no. 0891 602 030

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Spray adhesive

Fast-drying contact and assembly adhesive for all lightweight materials

- Permanent firm hold for virtually all applications
- Fast-drying
- Adjustable spray nozzle
- Silicone-free

Contents	500 ml
Colour	Beige
Min./max. temperature resistance	-40 to +60 °C
Shelf life from production	12 Month



Art. no. 0890 100 055

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

- When bonding hard foam/Styrofoam, the adhesive must be applied to a small suitable area first to check compatibility, depending on the type of hard foam; wait for at least 60 minutes to check for any changes or cratering.
- Caution: Not suitable for bonding soft PVC, PVC films and particle board cutting edges. After use, turn the can on its head and spray until the valve is empty.

Cold wood glue D2

For gluing all types of wood. Complies with stress group D2 in accordance with DIN EN 204.

- Universal use
- Simple dispensing design
- High gluing quality
- Transparent when hardened

Chemical basis	Polyvinyl acetate dispersion
Container	Bucket
Min. film forming temperature	6 °C
Min./max. open time/conditions	6-7 min/at 20 °C and 150 g/m²
Max. temperature resistance of the hardened material	80 °C
Min. room temperature, material temperature and glue temperature	18 °C



Weight of content	Art. no.	P. Qty.
12 kg	0892 100	1
28 kg	0892 100 050	1

Please consider the legal instruction at the beginning of this chapter.

- In conjunction with the tannic acid in the wood, the impact of bare metal may result in blue discolouration, especially with oak, and in red discolouration with beech.
- At a pressing temperature above +50 °C, brown discolouration may occur with softwood veneers.
- Fresh splashes of glue can be removed with water. Older adhesive residues can be softened with nitro thinner or acetone and then rubbed off. Stir the contents thoroughly before application and always close the container tightly after use. Protect from frost.

Continuation Cold wood glue D2

- The processing time and the setting time are heavily dependent on the working conditions, e.g. the temperatures, moisture and absorption levels of the materials, application quantities and tensions in the material.

Würth white glues are not suitable for use in the static range. Specially approved adhesives must be used for this purpose. Würth glues may only be used for non-load-bearing applications.

Cold wood glue D3

For particularly demanding wood bonding in indoor and outdoor applications

- High level of resistance to water and heat
- Easy to pour with screw-on tap
- Transparent hardening



Chemical basis	Polyvinyl acetate dispersion
Colour after curing	Transparent
Min. film forming temperature	6 °C
Min./max. open time/conditions	8-10 min./at 20°C and 150 g/m ²
Max. temperature resistance of the hardened material	80 °C
Min. room temperature, material temperature and glue temperature	18 °C

Container	Weight of content	Art. no.	P. Qty.
Bottle	0.5 kg	0892 100 16	1/6
Bucket	12 kg	0892 100 14	1
Bucket	28 kg	0892 100 150	1

Please consider the legal instruction at the beginning of this chapter.

When gluing external joints (e.g. front door panels), the effects of heat (direct exposure to sunlight) can cause stresses in the wood and softening of glued joints. Duroplastic adhesives, such as PUR glue in the dispensing system, art. no. 0892100180 are suitable for this purpose. In conjunction with the tannic acid in the wood, the impact of bare metal may result in blue discolouration, especially with oak, and in red discolouration with beech. In isolated cases, substances contained in wood may result in unpredictable discolouration with various types of wood, e.g. beech, cherry, maple. At a pressing temperature above +50°C, brown discolouration may occur with softwood veneers. Fresh splashes of glue can be removed with water. Older adhesive residues can be softened with nitro thinner or acetone and then rubbed off. Stir the contents thoroughly before application and always close the bottle tightly after use. Protect from frost. The processing time and the setting time are heavily dependent on the working conditions, e.g. the temperatures, moisture and absorption levels of the materials, application quantities and tensions in the material.

Würth white glues are not suitable for use in the static range. Specially approved adhesives must be used for this purpose. Würth glues may only be used for non-load-bearing applications.

1-component cold wood glue D4

For gluing all types of wood. Fulfills stress group D4 in accordance with DIN EN 204 and the requirements of DIN EN14257 (WATT91).

- High level of heat and water resistance
- Easy to pour
- No need to mix with hardener
- No pot life limitation to be observed
- Transparent hardening



Chemical basis	Polyvinyl acetate dispersion
Colour after curing	Transparent
Min. film forming temperature	7 °C
Min./max. open time/conditions	8-10 min/at 20 °C and 150 g/m ²
Max. temperature resistance of the hardened material	80 °C
Min. room temperature, material temperature and glue temperature	18 °C

Container	Weight of content	Art. no.	P. Qty.
Bottle	0.5 kg	0892 100 221	1/6
Bucket	5 kg	0892 100 225	1
Bucket	12 kg	0892 100 222	1
Bucket	28 kg	0892 100 224	1

Please consider the legal instruction at the beginning of this chapter.

When gluing outdoor joints (such as front door gluing), the effects of heat (e.g. direct exposure to sunlight) may result in tension in the wood and glued joints softening. Thermoplastic adhesives as well as PUR glue in a dispensing system or PUR gun glue are not suitable for these kinds of applications. The processing time and setting time, as well as the pressing time, are affected by working conditions such as ambient temperature, surface temperature, air humidity or material moisture, absorption level of materials, application quantity and tensions in the material. The viscosity of the one-component D4 glues may increase while being stored. Stirring the glue without adding water makes it free-flowing again. The viscosity can thus be adjusted by stirring alone. Storage does not affect the gluing parameters. The glue container must always be stored firmly closed and in a frost-free environment.

Würth white glues are not suitable for use in the static range. Specially approved adhesives must be used for this purpose. Würth glues may only be used for non-load-bearing applications.

Quick hardening glue

Very quick hardening universal glue for gluing all types of wood

- Quick to set
- High degree of initial strength
- Transparent when dry
- Complies with stress group D2 in accordance with DIN/EN 204

Colour	White
Chemical basis	Polyvinyl acetate dispersion
pH value	5
Density	1.09 g/cm ³



Continuation **Quick hardening glue**

Min. proportion of solids	53 %
Min. film forming temperature	7 °C
Max. temperature resistance of the hardened material	70 °C
Min./max. room temperature, material temperature and glue temperature	15 to 20 °C
Min./max. wood moisture	8-12 %
Min. wood moisture	8 %
Max. wood moisture	12 %
Min./max. open time	5-10 min
Conditions for open time	at 20°C and 150 g/m ²
Max. pressing pressure	0.7 N/mm ²

Container	Weight of content	Art. no.	P. Qty.
Bottle	500 g	0892 100 111	1/12
Bucket	10 kg	0892 100 112	1

Please consider the legal instruction at the beginning of this chapter.

Application equipment should be made from stainless steel or plastic. Processing time depends on the material, humidity, temperature and application quantity. Please refer to the technical data sheet

Parquet glue

Single-component dispersion glue for bonding parquet/laminate for floating installation.

- High water resistance
- Special bottle and cap shape for clean application
- Fast adhesion
- Transparent when hardened
- Solvent-free

Chemical basis	Polyvinyl acetate dispersion
Container	Bottle
Weight of content	750 g
Density	1.09 g/cm ³
Colour	White
pH value	3
Min./max. processing temperature	15 to 25 °C
Max. temperature resistance	80 °C
Min./max. open time/conditions	9-10 min/at 20°C and 150 g/m ²
Max. final strength	48 h
Conditions for final strength	at 23°C
Application quantity per running metre	25 g/m
Max. temperature resistance of the hardened material	80 °C
Min. press-setting time of glue	30 min
Shelf life from production	12 Month



Art. no. 0892 100 040

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Transparent PUR glue

In dispensing system

- High water resistance
- High temperature resistance
- Special dispensing cap for clean working without blockage of the opening
- For practical construction of condensation-proof windows, gluing door frames and cartridges, stairs, handrails
- Foaming
- No discolouration

Weight of content	500 g
Container	Bottle
Chemical basis	Polyurethane
Colour	Transparent/slightly cloudy (hardened)
Min. film forming temperature	5 °C
Min./max. wood moisture	8-14 %
Conditions for open time	at 20 °C and 150 g/m ²
Min./max. temperature resistance of the hardened material	-30 to 100 °C
Min./max. processing temperature	10 to 20 °C
Max. application quantity in surface bonding	220 g/m ²



Art. no. 0892 100 180

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Preliminary tests should be carried out to ascertain that the appropriate adhesion properties are achieved for the relevant design and wood type.

For ash, we recommend a substrate pre-treatment with Adhesion Plus plastic/stone/wood (art. no. 089010062).

Oily woods should be glued immediately after processing in order to minimise the risk of formation of a separating layer.

Refer to the overview table for technical data

Hot-melt edge adhesive pellets

EVA-based hot-melt adhesive for universal use

Good running properties

- Low-viscosity adjustment
- Highly heat resistant
- Very good after-flow properties without threading

For universal use

- For use on all commercially available edge bonding machines
- Rollers and slot nozzles available on request

Easy refills

Keeps joints moist.

Silicone-free

Weight of content	25 kg
Chemical basis	Ethyl vinyl acetate
Softening point	90 °C
Min./max. processing temperature	190 to 210 °C
Min./max. temperature resistance	-25 to +85 °C
Shelf life from production	12 Month



Colour	Art. no.	P. Qty.
Natural	0892 100 035	1
White	0892 100 034	1

Please consider the legal instruction at the beginning of this chapter.

Adhesive residues can only be removed mechanically.

Hot-melt edge adhesive cartridge

EVA-based hot-melt adhesive for universal use

Good running properties

- Low-viscosity adjustment
- Highly heat resistant
- Very good after-flow properties without threading

For universal use

- For use on all commercially available edge bonding machines
- Rollers and slot nozzles available on request

Easy refills

Keeps joints moist.

Silicone-free

Weight of content	15.5 kg
Chemical basis	Ethyl vinyl acetate
Softening point	103 °C
Min./max. processing temperature	190 to 210 °C
Min./max. temperature resistance	-20 to +90 °C



Colour	Shelf life from production	Art. no.	P. Qty.
Natural	12 Month	0892 100 032	1
White	24 Month	0892 100 031	1

Please consider the legal instruction at the beginning of this chapter.

Adhesive residues can only be removed mechanically.

Veneer glue

Ready-to-use surface glue for veneer work

- Short pressing times for relatively long processing time
- Simple dispensing design
- No unpleasant odour
- Universal application
- High gluing quality
- Complies with stress group D2 in accordance with DIN/EN 204



Chemical basis	Polyvinyl acetate dispersion
Container	Bucket
Stress group	D2
EN standard	204
Colour	White
pH value	5
Min./max. processing temperature	18 to 20 °C
Min./max. open time/ conditions	10-14 min/at 20°C and 150 g/m ²
Min. film forming temperature	5 °C
Max. temperature resistance of the hardened material	80 °C

Weight of content	Art. no.	P. Qty.
12 kg	0892 100 038	1
28 kg	0892 100 046	1

Please consider the legal instruction at the beginning of this chapter.

With highly absorbent material and low pressing force, a relatively large quantity of glue must be applied. The higher the pressing force, the smaller the required application quantities. With large-pore veneer, a thin layer of glue must be applied to prevent the glue from bleeding through. Glue bleed-through may result in colour changes during staining, as the pores in the veneer are already filled with glue, thereby preventing the stain from penetrating the surface.

In conjunction with the tannic acid of the wood, the impact on bare metal may result in blue discolouration, especially with oak.

At a pressing temperature above +50°C, brown discolouration may occur with softwood veneers.

Fresh splashes of glue can be removed with water. Stir glue thoroughly before application and always close container tightly after use. Protect from frost.

The processing time and the setting time are highly dependent on the working conditions, e.g. the temperatures, moistures, absorption of the materials, application quantities and tensions in the material.

The adhesive can be defined as formaldehyde-free insofar as no formaldehyde is used during production. However, extremely small quantities may occur during polymerisation due to secondary reactions.

Würth white glues are not suitable for use in the static range. Specially approved adhesives must be used for this purpose. Würth glues may only be used for non-load-bearing applications.

PUR foam adhesive D4

Special, moisture-curing 1-component polyurethane foam in pressurised cans for the timber/construction sector.

- For structural gluing of stairs and for use in window and door production.
- Water-resistant, in accordance with DIN EN 204, D4 quality
- Can be painted over



Weight of content	744 g
Container	Aerosol can
Chemical basis	Modified polyurethane
Colour	Cream
Min. film forming temperature	5 °C
Min./max. wood moisture	12-16 %
Open time	8 min
Conditions for open time	at 23 °C and 50% humidity
Min./max. temperature resistance of the hardened material	-40 to 90 °C
Min./max. processing temperature	5 to 35 °C
Max. application quantity in surface bonding	200 g/m ²
Resilient after	24 h
Tensile strength	10 N/mm ²
Min./max. storage temperature	15 to 25 °C
Building material class	B2 - Normally inflammable

Art. no. 0892 100 174

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Smooth surfaces such as metals and PVC should be ground. To maintain the functionality, a foam can (even if empty) should be fastened to the foam/glue gun during storage.

The bonding should be protected from direct weathering (for example, by a canopy)

Glue roller

With polyurethane roller

- For quick and even application of glues
- For use with edge and surface adhesives
- Using the inner plastic roller removes the need to wipe glue at the edges
- Time saving compared to brush approx. 30%

Width	90 mm
Outer diameter	125 mm



Art. no. 0891 186

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

The supply reservoir should be cleaned with water during longer breaks in work.

Glue dispenser unit

For glue application

Art. no. 0892 100 0

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Façade adhesive

1C polyurethane foam for securing insulation panels to façades in accordance with DIN EN 13163

Tested product features

Building material class B1 test certificate in accordance with DIN 4102-1:1998-05, issued by MPA Hanover

- Time-consuming process of applying mortar no longer needed
- Enables additional heat insulation
- High initial adhesion, even at low temperatures

Contents	800 ml
Chemical basis	Single component polyurethane
Colour	Yellowish
Tack-free after	10 min
Curing time	2 h
Min./max. processing temperature	5 to 30 °C
Yield (volume) approx.	47 l
Yield (area)	10 m ²
Building material class	B1 - Of low flammability
Shelf life from production	12 Month



Art. no. 0892 400 10

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Additional fastening of insulation boards may be required depending on the quality of the construction surface. Anchoring is always required at the foot of the building, on old plaster, concrete and on non-load-bearing surfaces. In addition, mechanical fastenings should be used from a height of 5 m.

Perimeter adhesive

1-component polyurethane adhesive for bonding polystyrene hard foam boards in perimeter areas

- Quick to harden and good adhesive properties
- Very low post-expansion
- Simple handling and application method
- High yield (15 m²/can)
- High degree of material durability
- Environmentally friendly
- Free from HFCs and HCFCs



Contents	750 ml
Chemical basis	Single component polyurethane
Colour	Green
Tack-free after	8 min
Curing time	30 min
Full resilience	12 h
Min./max. processing temperature	15 to 25 °C
Yield (area)	15 m ²
Building material class	B3 - Of high flammability
Shelf life from production	12 Month

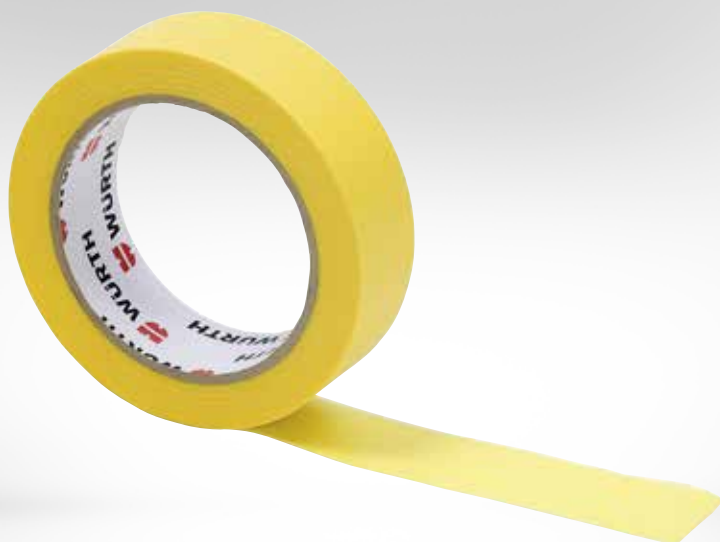
Art. no. 0892 400 5

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Not suitable for use with pressing water, and is not watertight. Not UV-resistant. Does not adhere to PE, PP, PTFE or silicone. An adhesive strand distance of approx. 25 cm should be maintained during application. Adhesive hardens by means of humidity at room temperature.

The perimeter adhesive is only an assembly aid for securing insulation boards. The final bonding strength is achieved by the contact pressure of the shaken soil, gravel etc. The shaking process must take place within 14 days of bonding.



Precision crepe tape

Special paper tape for stringent requirements during masking work in the automotive, metal and painting sectors

- Extremely thin, soft and high-quality special paper
- Special acrylate adhesive for particularly gentle bonding on delicate surfaces
- Excellent UV resistance for up to 6 months
- Heat resistant up to +100 °C

Adhesive base	Acrylate
Adhesive tape backing material	Japanese rice paper
Colour	Yellow (base material)
Length	50 m
Elongation at break	4 %
Min./max. processing temperature	5 to 40 °C
Max. temperature resistance	100 °C
Ultraviolet resistance	6 months, outdoor weathering

Width	Art. no.	P. Qty.
19 mm	0992 000 319	12/48
25 mm	0992 000 325	9/36
30 mm	0992 000 330	8/32

Continuation **Precision crepe tape**

Width	Art. no.	P. Qty.
38 mm	0992 000 338	6/24
50 mm	0992 000 350	6/24

Please consider the legal instruction at the beginning of this chapter.

Precision crepe tape strong

Fibre-reinforced special paper tape that meets the toughest requirements for masking in the painting, metalworking and automotive sectors.

- Reduced tearing due to reinforced fibres
- Suitable for both solvent- and water-based paint systems
- Heat resistant up to +100°C



Adhesive base	Acrylate
Adhesive tape backing material	Japanese rice paper
Backing material	Japanese rice paper
Colour	Orange
Length	50 m
Thickness	0.11 mm
Elongation at break	8 %
Min./max. processing temperature	5 to 40 °C
Max. temperature resistance	100 °C
Ultraviolet resistance	4 months, outdoor weathering

Width	Art. no.	P. Qty.
19 mm	0992 000 519	12/48
25 mm	0992 000 525	9/36
30 mm	0992 000 530	8/32
38 mm	0992 000 538	6/24
50 mm	0992 000 550	6/24

Please consider the legal instruction at the beginning of this chapter.

Not suitable for use on copper, zinc, galvanised surfaces, polycarbonate or natural stone (e.g. marble).
Tape must be pulled off when dry.

Exercise caution with paints containing zinc or zinc oxide, since residues may be left.

Precision crepe tape Light

Special paper tape for standard requirements during masking work in painting applications

- Particularly fine paint edges reduce running paint
- Good adhesion and residue-free removal on many substrates
- UV resistance of up to four weeks

Adhesive base	Acrylate
Adhesive tape backing material	Japanese rice paper
Backing material	Japanese rice paper



Colour	Salmon
Length	50 m
Elongation at break	4 %
Ultraviolet resistance	4 weeks

Width	Thickness	Max. temperature resistance	Art. no.	P. Qty.
25 mm	0.1 mm	100 °C	0992 000 725	9/36
30 mm	0.1 mm		0992 000 730	8/32
38 mm	0.1 mm		0992 000 738	6/24
50 cm	0.01 mm		0992 000 750	6/24

Please consider the legal instruction at the beginning of this chapter.

Not suitable for use on carbon, copper, zinc, lead (also lead-based paint), anodised metals and natural stone (e.g. marble). Tape must be pulled off when dry.

Crepe masking tape

Slightly crepe paper adhesive tape for general masking tasks.

- Heat-resistant up to +80°C
- Excellent adhesion to smooth and painted surfaces
- Moisture-resistant and solvent-resistant



Adhesive base	Natural rubber
Adhesive tape backing material	Paper
Backing material	Weak creped paper backing
Colour	Cream
Length	50 m
Thickness	130 µm
Elongation at break	10 %
Min./max. processing temperature	5 to 40 °C
Max. temperature resistance	80 °C
Ultraviolet resistance	No

Width	Art. no.	P. Qty.
15 mm	0992 001 5	20
19 mm	0992 001 9	16
25 mm	0992 002 5	12
30 mm	0992 003 0	10
38 mm	0992 003 8	8
50 mm	0992 005 0	6

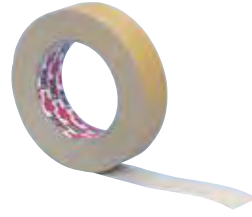
Please consider the legal instruction at the beginning of this chapter.

To ensure residue-free removal, the tape must be removed immediately after the paint or varnish has dried. The adhesive tape is not UV-resistant and is therefore not suitable for outdoor applications.

Crepe masking tape

High-quality crepe adhesive tape for professional painting work.

- Heat resistant up to +110°C
- Excellent adhesive strength and adaptability
- Can be labelled



Backing material	Creped paper, latex impregnated
Thickness of adhesive tape	0.18 mm
Adhesive base	Rubber resin adhesive
Colour	Brown (base material)
Length	50 m
Dynamic peel strength at 25 mm	10.5 N
Min./max. temperature resistance	-20 to 110 °C
Min./max. processing temperature	15 to 40 °C
Moisture resistance	Yes
Shelf life from production/conditions	12 Month/at 20°C and 50% humidity

Width	Art. no.	P. Qty.
18 mm	0992 619	16
24 mm	0992 625	12
30 mm	0992 630	10
36 mm	0992 638	8
48 mm	0992 650	6

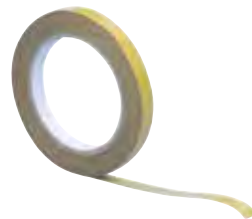
Please consider the legal instruction at the beginning of this chapter.

To ensure residue-free removal, the tape must be removed immediately after the paint or varnish has dried
The adhesive tape is not UV-resistant and is therefore not suitable for outdoor applications

Double-sided adhesive tape

Adhesive tape with special paper backing and acrylate adhesive.

- Excellent adhesion
- Can be removed by hand
- UV-resistant and moisture-resistant
- Ageing-resistant



Backing material	Special paper
Adhesive base	Acrylate
Colour	Transparent (base material)
Roll width	12 mm
Length of roll	25 m
Thickness	0.13 mm
Min./max. processing temperature	15 to 30 °C
Min./max. temperature resistance	-30 to 120 °C
Ultraviolet resistance	Yes

Moisture resistance	Yes
Shelf life from production/conditions	12 Month/at 20 °C and 50% humidity

Art. no. 0894 500 4

P. Qty.: 3

Please consider the legal instruction at the beginning of this chapter.

The surfaces to be adhered must be dry and free from dust, grease and silicone. To ensure proper adhesion, the tape must be sufficiently pressed onto the material to be glued. Optimum final strength is achieved after 24 hours. Please carry out preliminary tests on sensitive surfaces (e.g. PP, PE, rubber) and porous surfaces (e.g. wood, stone). In cases where plastics containing softener additives are to be adhered, the softener may change the adhesive coating. This will impair the strength of the adhesive.

Double-sided adhesive sealing tape WÜTOP® Filmfix Plus

Quick and easy-to-apply adhesive film or airtight and windproof connection bonding for indoor and outdoor use.

- Very strong initial and final adhesion on many typical construction surfaces
- Simple, quick and clean to apply
- Complies with EnEV 2016, DIN 4108-7



Adhesive base	Thermoplastic elastomer
Length of roll	16 m
Thickness	2.5 mm
Min. processing temperature	5 °C
Max. processing temperature	35 °C
Ultraviolet resistance	No

Art. no. 0992 820 012

P. Qty.: 8

Please consider the legal instruction at the beginning of this chapter.



We recommend using WÜTOP vapour barriers or vapour retarders for optimum results.

Cannot be used in swimming pool areas.

Permanently set after 24 hours.

During seasonally high temperatures $\geq +70^{\circ}\text{C}$ without a roof covering, additional mechanical fixing is required.

Mounting tape Power

Gluing instead of welding, drilling or riveting.

Highly-adhesive, double-sided adhesive tape for indoor and outdoor use

Extremely high and long-lasting adhesive strength

Per running metre, holds up to:

- 8 kg/25 mm width
- 6 kg/19 mm width
- 4 kg/12 mm width



Adhesive base	Acrylate
Length of roll	10 m
Min./max. processing temperature	15 to 40 °C
Min./max. temperature resistance	-15 to 90 °C
Max. short-term temperature resistance	150 °C
Min. final strength	72 h

Colour	Roll width	Thickness	Shelf life from production/conditions	Art. no.	P. Qty.
Grey	25 mm	1.2 mm	12 Month/at 20°C and 50% humidity	0894 909 003	1
Transparent	19 mm	1 mm		0894 909 004	1
Transparent	25 mm	1 mm		0894 909 005	1

Please consider the legal instruction at the beginning of this chapter.

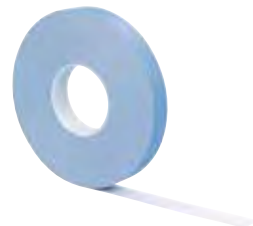
Use is not recommended on low-energy materials such as PE or PP and hard-to-stick surfaces such as, for example, PA, rubber, silicone, soft PVC, EPDM or powder-coated aluminium. Adhesion may be impaired on painted surfaces. Final adhesive strength is achieved after approx. 72 hrs at room temperature.

Please familiarise yourself with the applicable building regulations, which may differ from region to region, before using the adhesion solutions presented and ensure you comply with them when designing and executing your application. We recommend that you always use a mechanical safeguard for adhesive bonding above head level at 1.80 m.

Mirror adhesive tape

Double-sided adhesive tape with polyethylene backing and acrylate adhesive

- Excellent compatibility with a range of common surfaces
- High degree of initial tackiness
- UV- and moisture-resistant



Adhesive base	Acrylate
Backing material	Polyethylene foam
Length	25 m
Min./max. temperature resistance	-40 to 95 °C
Shelf life from production	24 Month

Colour	Thickness	Width	Art. no.	P. Qty.
Black	1.6 mm	12 mm	0894 919	1
White	1 mm	19 mm	0894 918 0	1
White	1 mm	25 mm	0894 918	1

Please consider the legal instruction at the beginning of this chapter.

- The surfaces to be adhered must be smooth, dry and free from dust, grease and silicone. We recommend IPA cleaner for pre-cleaning.
- To ensure proper adhesion, the tape must be sufficiently pressed onto the material to be glued.
- Optimum final strength is achieved after 24 hours.
- Please conduct preliminary tests on sensitive surfaces (e.g. PP, PE, rubber) and rough or porous surfaces (e.g. wood, stone).
- If plastics containing plasticising additives are to be adhered, the plasticisers may change the adhesive layer. This will impair the strength of the adhesive.
- For safety mirrors (identifiable by a blue or green film on the back of the mirror), mirror manufacturers generally recommend using an additional mechanical fastening.
- With safety mirrors (identifiable by a blue or green film), there may be adhesive problems with the tape due to the reciprocal action between the film used and the adhesive. Adhesion is particularly poor on PE/PP-based films. Preliminary testing must therefore be conducted in all cases. As a variety of different films can be used for safety mirrors, the use of additional mechanical fastenings is strongly recommended.

Please observe the assembly instructions.

Long-life fabric masking tape

PR-coated fabric masking tape for long-term covering work indoors or outdoors.

- UV filter as intermediate layer
- UV-resistant rubber adhesive
- High-quality rubber adhesive with high initial adhesion
- Can be removed by hand
- Dimensionally stable



Backing material	PE-coated fabric
Adhesive base	Natural rubber adhesive
Colour	Black/white (base material)
Length	25 m
Thickness of adhesive tape	0.31 mm
Moisture resistance	Yes
Ultraviolet resistance	Yes
Max. usage duration	4 Weeks
Min./max. processing temperature	-5 to 35 °C
Min./max. temperature resistance	-15 to 50 °C
Shelf life from production/conditions	12 Month/at 20 °C and 50% humidity



Width	Art. no.	P. Qty.
38 mm	0992 400 038	1/32
50 mm	0992 400 050	1/24

Please consider the legal instruction at the beginning of this chapter.

To ensure residue-free removal, the maximum duration of use should not exceed 4 weeks.

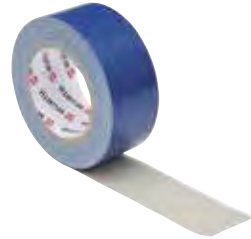
Continuation **Long-life fabric masking tape**

Plastic surfaces with softening agents and nitrocellulose varnishes and precious metals may lead to residues. In these cases, a test application for 48 hours is recommended. Not suitable for porous and absorbent substrates, e.g. porous natural stone, marble, granite, concrete and wood (non-varnished). It may cause discolouration.

Painter's fabric tape

Strong fabric tape for indoor and outdoor medium-term masking work

- Very high-quality and strong special fabric
- Highly weather-resistant thanks to its PE coating and UV-stabilised rubber adhesive
- Very high degree of initial and final adhesion



Backing material	PE-coated fabric
Adhesive base	Natural rubber adhesive
Colour	Blue (base material)
Length	25 m
Thickness of adhesive tape	0.3 mm
Moisture resistance	Yes
Ultraviolet resistance	3 weeks, outdoor weathering
Max. usage duration	3 Weeks
Min./max. processing temperature	-5 to 35 °C
Min./max. temperature resistance	-15 to 50 °C
Shelf life from production/conditions	12 Month/at 20°C and 50% humidity

Width	Art. no.	P. Qty.
38 mm	0992 400 338	32
50 mm	0992 400 350	24

Please consider the legal instruction at the beginning of this chapter.

To ensure residue-free removal, the maximum duration of use should not exceed 3 weeks. The maximum adhesion time can vary, depending on sunshine and season. The surfaces to be adhered must be fully dry and free from dust, grease and oil. With sensitive surfaces containing softeners (e.g. PVC) and porous surfaces (e.g. wood), we recommend carrying out an adhesion test for 48 hours. Not recommended for marble or natural stone.

Precision fabric tape

Robust special fabric tape for highest requirements in protective masking

- Improved adhesive strength outdoors
- Maximum reliability outdoors due to waterproof layer
- Protects the surface optimally due to sturdy and abrasion-resistant fabric



Backing material	PE-coated fabric
Adhesive base	Acrylate
Colour	White

Width	50 mm
Length	33 m
Moisture resistance	Conditionally
Ultraviolet resistance	2 months, inside/outside use (Western Europe)
Max. usage duration	8 Weeks
Min./max. processing temperature	0 to 80 °C
Shelf life from production/conditions	12 Month/at 15 °C to 25 °C and max. 60% relative humidity

Art. no. 0992 460 050

P. Qty.: 6/24

Please consider the legal instruction at the beginning of this chapter.

Not suitable for use on copper, zinc, zinc-plated surfaces, polycarbonate or natural stone (e.g. marble). Tape must be pulled off when dry.

Exercise caution with paints containing zinc or zinc oxide, since residues may be left.

Painter's crepe tape

High-resistance flat crepe tape for indoor painting tasks

- Heat resistant up to +80 °C
- Excellent adhesion, even on slightly uneven surfaces
- Highly resistant to commercially available paint and varnish systems



Adhesive base	Modified natural rubber
Adhesive tape backing material	Paper
Backing material	Paper
Colour	White
Length	50 m
Elongation at break	8 %
Min./max. processing temperature	5 to 40 °C
Max. temperature resistance	80 °C
Ultraviolet resistance	No

Width	Art. no.	P. Qty.
19 mm	0992 340 19	16/96
25 mm	0992 340 25	12/72
30 mm	0992 340 30	10/60
38 mm	0992 340 38	8/48
50 mm	0992 340 50	6/36

Please consider the legal instruction at the beginning of this chapter.

To ensure residue-free removal, the tape must be removed immediately after the paint or varnish has dried. The adhesive tape is not UV-resistant and is therefore not suitable for outdoor applications.

Smooth PVC plaster tape

Masking tape for protecting smooth surfaces during painting, plastering and varnishing both indoors and outdoors.

- Smooth, rugged backing
- Selected natural rubber adhesive
- Strong connection between adhesive and carrier tape



Adhesive base	Natural rubber
Colour	White
Length	33 m
Thickness of adhesive tape	0.13 mm
Elongation at break	150 %
Shelf life from production/conditions	24 Month/dry and dust-free storage area, 20°C and 50% relative humidity

Width	Art. no.	P. Qty.
30 mm	0992 402 30	60
50 mm	0992 402 50	36

Please consider the legal instruction at the beginning of this chapter.

The surface to be covered must be fully dry and free from dust, grease and oil. After use (max. adhesion period: 6 weeks), the tape should be removed at room temperature (+5°C to +40°C) by being pulled off at a 45° angle to the edge of the paint or to the plaster in a slow, smooth manner.

Never expose the adhesive side to direct sunlight! Not suitable for oven drying!

Ribbed PVC plaster tape

Masking tape for protecting smooth surfaces during painting, plastering and varnishing both indoors and outdoors.

Crosswise grooves in adhesive tape

The tape can be ripped easily and with a perfect edge at a 90° angle

Select natural rubber adhesive

Excellent adhesion, even on slightly uneven surfaces

Strong connection between adhesive and carrier tape

This enables residue-free removal



Adhesive base	Natural rubber
Length	33 m
Thickness of adhesive tape	0.15 mm
Elongation at break	120 %
Shelf life from production/conditions	24 Month/dry and dust-free storage area, 20°C and 50% relative humidity

Colour	Width	Art. no.	P. Qty.
White	50 mm	0992 401 150	36
Yellow	30 mm	0992 401 30	60
Yellow	50 mm	0992 401 50	36

Please consider the legal instruction at the beginning of this chapter.

The surface to be covered must be fully dry and free from dust, grease and oil. After use (max. adhesion period: 6 weeks), the tape should be removed at room temperature (+5°C to +40°C) by being pulled off at a 45° angle to the edge of the paint or to the plaster in a slow, smooth manner. On natural stone, particularly marble, can lead to discolouration. Never expose the adhesive side to direct sunlight. Not suitable for oven drying.

Plaster tape Soft

Masking tape for protecting smooth surfaces during painting, plastering and varnishing both indoors and outdoors.

Especially soft adhesive

- Tape is very easy to pull off the roll and is highly dimensionally stable
- Particularly soft; moulds to the surface very well

Easy application and secure adhesion on surfaces, even at low temperatures from 0°C

Highly weather-resistant

Tape can be removed from many surfaces after 4 weeks (orange) or 2 weeks (white) without leaving residue behind



Adhesive base	Natural rubber
Width	50 mm
Length	33 m
Thickness of adhesive tape	0.13 mm
Elongation at break	180 %
Shelf life from production/conditions	12 Month/at 20°C and 50% humidity

Colour	Art. no.	P. Qty.
Orange	0992 401 650	36
White	0992 401 750	36

Please consider the legal instruction at the beginning of this chapter.

The surface to be covered must be fully dry and free from dust, grease and oil. After use (max. adhesion period: 6 weeks), the tape should be removed at room temperature (+5°C to +40°C) by being pulled off at a 45° angle to the edge of the paint or to the plaster in a slow, smooth manner. On natural stone, particularly marble, can lead to discolouration. Never expose the adhesive side to direct sunlight. Not suitable for oven drying.

Double-sided protective tape Duoband

Double-sided protective tape with a full-surface coated adhesive side and one side with adhesive-free edge

Good UV resistance of up to 6 weeks

One fully-coated adhesive side, while one side has an adhesive-free edge

- Solid backing paper enables easy, manual working
- Adhesive-free edge ensures easy removal of the silicone-coated cover film and prevents separated adhesive residue from ending up in the varnish or paint



Backing material	PVC
Adhesive base	Acrylate

Continuation **Double-sided protective tape Duoband**

Colour	White, Green
Length	25 m
Min. temperature resistance	-10 °C
Max. temperature resistance	70 °C
Max. usage duration	6 Weeks

Width	Art. no.	P. Qty.
25 mm	0992 404 25	48
35 mm	0992 404 35	48

Please consider the legal instruction at the beginning of this chapter.

- Never expose the adhesive side to direct sunlight
- Not suitable for oven drying
- Limited suitability for porous, sanded and rough surfaces that would absorb the adhesive on the tape or physically attack it, e.g. sanded metals. When used on water-based acrylate coatings, nitrocellulose paints with a high proportion of thinner, other chemically aggressive substances and all non-ferrous metals, e.g. copper and aluminium and eloxal and powder-coating, preliminary testing is absolutely required. Otherwise there is the possibility that residues will be left
- Not suitable for any surface with insufficient internal stability, such as poorly adhering varnish or weathered wood

Masking tape Easy Masking Tape

Multi-part special tape for difficult masking work on vehicles



- Two-part plastic lip for simple insertion into a variety of seal depths
- Perforated tape for easy removal and masking curves
- Heat-resistant up to +150°C
- No masking materials containing silicone
- Resistant to water-based paint

Adhesive base	Modified natural rubber
Adhesive tape backing material	Special paper with two-part slide-bar of PES
Backing material	Special paper
Colour	Beige (base material)
Width	50 mm
Length	10 m
Min./max. processing temperature	5 to 40 °C
Max. temperature resistance	150 °C
Ultraviolet resistance	No

Art. no. 0992 050 010

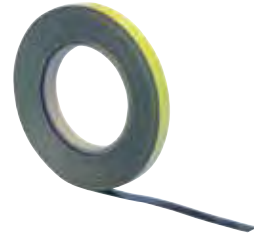
P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Decorative trim adhesive tape

Double-sided adhesive tape that can withstand high loads, with polyethylene backing and acrylate adhesive

- Excellent adhesion
- Vibration-damping
- Compensates the various expansion behaviours of different materials
- High degree of resistance to temperatures, UV and weathering



Adhesive base	Acrylate
Backing material	Polyethylene foam
Colour	Anthracite (base material)
Thickness	0.8 mm
Length	10 m
Min./max. temperature resistance	-40 to 95 °C
Shelf life from production	24 Month

Width	Art. no.	P. Qty.
4 mm	0894 910 4	1
12 mm	0894 910	1
19 mm	0894 910 0	1
24 mm	0894 910 1	1

Please consider the legal instruction at the beginning of this chapter.

Dividing strip

Closed-cell, white PE foam with one-sided 12-mm adhesive strip for dry construction and plastering

- Insulation and sealing material for facing joints
- Prevents tension and cracks with plaster connections in conjunction with suspended ceilings and partition walls
- Reliable sealing against capillary effects
- Prevents cold bridges
- The protruding part of the tape can be easily and cleanly cut off at the edge of the plaster or the gypsum plasterboard



Colour	White
Width	35 mm
Length of roll	25 m

Art. no. 0992 500 020

P. Qty.: 10

Please consider the legal instruction at the beginning of this chapter.

Fibreglass reinforcement strip

For filling plasterboard and for bridging holes and cracks

Material	Fibre glass
Colour	White
Width	48 mm
Length	90 m

Art. no. 0992 500 001

P. Qty.: 1/24

Please consider the legal instruction at the beginning of this chapter.



Glass fibre fleece joint strip

For filling and restoring cracks in indoor plaster and gypsum plasterboard panels

- Filling and sanding operations are reduced
- Breathable and water-permeable
- Low moisture absorption

Width	50 mm
Thickness	0.34 mm
Length	25 m

Art. no. 0992 500 005

P. Qty.: 40

Please consider the legal instruction at the beginning of this chapter.



Cover film

Rolled LDPE cover film for large-scale covering during renovation or painting tasks

Advantage of LDPE quality

LDPE (low-density polyethylene) films are softer and more supple than HDPE films. On account of their increased flexibility/elasticity, LDPE films have greater tear resistance.

Width	2 m
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Area	Length	Foil thickness	Art. no.	P. Qty.
100 m ²	50 m	16 µm	0818 001 110	800
100 m ²	50 m	40 µm	0818 001 120	100
200 m ²	100 m	16 µm	0818 001 210	200/800

Please consider the legal instruction at the beginning of this chapter.

Cover film

Rolled HDPE cover film

Advantage of HDPE quality

- The high density of HDPE films adds increased rigidity and has a higher melting temperature (130–135°C).

Therefore, HDPE has greater temperature resistance and chemical resistance than LDPE films.

- Polyethylene films protect against all standard types of paint and varnish. However, the solvents contained migrate through the film after prolonged exposure.

However, the mechanical characteristics are barely affected by this migration.

- HDPE films of the same thickness are more resistant to paints and varnishes and have greater migration resistance than LDPE films.



Width	2 m
Width (folded)	0.5 m
Foil thickness	6 µm

Area	Length	Art. no.	P. Qty.
100 m ²	50 m	0818 001 100	2000
200 m ²	100 m	0818 001 200	200/2000

Please consider the legal instruction at the beginning of this chapter.

The film is not resistant to UV, which means that the film must be protected from UV radiation. If exposed to UV light, the product loses its mechanical properties in as little as approx. 1–2 months.

Paint tarpaulin

In HDPE quality

Advantages of HDPE quality:

- The high density of HDPE films adds increased rigidity and has a higher melting temperature (130–135°C).

Therefore, HDPE has greater temperature resistance and chemical resistance than LDPE films.

- Polyethylene films protect against all standard types of paint and varnish. However, the solvents contained migrate through the film after prolonged exposure.

However, the mechanical characteristics are barely affected by this migration.

- HDPE films of the same thickness are more resistant to paints and varnishes and have greater migration resistance than LDPE films.



Width	4 m
Length (folded)	25 cm
Width (folded)	21 cm
Foil thickness	6 µm

Continuation **Paint tarpaulin**

Area	Length	Art. no.	P. Qty.
20 m ²	5 m	0818 000 020	30
50 m ²	12.5 m	0818 000 050	15

Please consider the legal instruction at the beginning of this chapter.

The film is not resistant to UV, which means that the film must be protected from UV radiation. If exposed to UV light, the product loses its mechanical properties in as little as approx. 1–2 months.

Paint tarpaulin

In LDPE quality

Advantage of LDPE quality:

- The melting point of LDPE films is between 105–118 °C.
- Polyethylene films protect against all standard types of paint and varnish, however the solvents contained migrate through the film after prolonged exposure.
However, the mechanical characteristics are barely affected by this migration.



Area	20 m ²
Length	5 m
Width	4 m

Foil thickness	Art. no.	P. Qty.
10 µm	0818 000 120	20
16 µm	0818 000 220	20

Please consider the legal instruction at the beginning of this chapter.

The film is not resistant to UV, which means that the film must be protected from UV radiation. If exposed to UV light, the product loses its mechanical properties in as little as approx. 1–2 months.

HDPE UV fold masker

Statically charged, pre-folded cover film with a UV-resistant PE-coated fabric masking tape for indoor and outdoor use.

- UV-resistant
- The paint will not run thanks to the embossed film

Edge-adhering HDPE film

- Pre-folded
- Lightly embossed
- Charged with static electricity



Adhesive tape backing material	PE-coated fabric
Foil backing material	Polyethylene
Foil thickness	0.01 mm
Adhesive base	Natural rubber
Colour	Blue (base material), Transparent (film material)
Min./max. processing temperature	5 to 40 °C

Min./max. temperature resistance	-10 to 50 °C
Max. usage duration	3 Weeks
Moisture resistance	Yes
Ultraviolet resistance	Yes
Shelf life from production/conditions	12 Month/at 20 °C and 50% humidity

Length of roll	Width (opened out)	Art. no.	P. Qty.
17 m	266 cm	0992 406 266	1/30
20 m	55 cm	0992 406 055	1/60
20 m	140 cm	0992 406 140	1/30

Please consider the legal instruction at the beginning of this chapter.

- Adhesive edge not suitable for use on coated glass (e.g. tinted glass/self-tinting glass).
- Plastic surfaces with plasticisers and nitrate varnishes and precious metals may lead to residues. In these cases, a test application of 48 hours is recommended. Not suitable for porous or absorbent surfaces, e.g. porous natural stone, marble, granite, concrete and wood (non-painted). Discolouration may occur on these surfaces.

UV HDPE precision folding masker

Pre-folded cover film with a very thin and supple special paper tape for demanding indoor and outdoor masking work

- Very thin and supple tear-off paper
- Special acrylate adhesive for especially gentle bonds on delicate surfaces
- Outstanding UV resistance of up to 6 months



Adhesive tape backing material	Tear paper
Foil backing material	Polyethylene
Foil thickness	9 µm
Adhesive base	Acrylate
Min./max. processing temperature	5 to 40 °C
Max. usage duration	4 Month
Moisture resistance	Yes
Ultraviolet resistance	4 months, outdoor weathering

Colour	Length of roll	Width (opened out)	Shelf life from production/conditions	Art. no.	P. Qty.
Transparent (film material), Yellow (base material)	20 m	270 cm		0992 409 270	5/35
Transparent (film material), Yellow (base material)	33 m	110 cm		0992 409 110	5/40
Yellow (base material), Transparent (film material)	20 m	180 cm	24 Month/at 20 °C and 50% relative humidity	0992 409 180	5/30

Continuation **UV HDPE precision folding masker**

Colour	Length of roll	Width (opened out)	Shelf life from production/conditions	Art. no.	P. Qty.
Yellow (base material), Transparent (film material)	33 m	55 cm		0992 409 055	5/60
Yellow (base material), Transparent (film material)	33 m	140 cm	24 Month/at 20 °C and 50% relative humidity	0992 409 140	5/40

Please consider the legal instruction at the beginning of this chapter.

- The tape must be pulled off when dry
- Exercise caution with paints containing zinc or zinc oxide, since residues may be left

HDPE fold masker

Statically charged, pre-folded cover film with a crepe masking tape for indoor use

Edge-adhering HDPE film

- Pre-folded
- Lightly embossed
- Charged with static electricity

Highly adhesive on paint

The paint will not run thanks to the embossed film.



Adhesive tape backing material	Impregnated paper
Foil backing material	Polyethylene
Foil thickness	0.01 mm
Adhesive base	Natural rubber
Colour	Transparent (film material), Chamois (base material)
Min./max. processing temperature	10 to 40 °C
Min. temperature resistance	0 °C
Max. temperature resistance	50 °C
Max. usage duration	2 d
Moisture resistance	Yes

Width (opened out)	Length of roll	Art. no.	P. Qty.
55 cm	33 m	0992 405 055	1/60
140 cm	33 m	0992 405 140	1/20
266 cm	20 m	0992 405 266	1/20

Please consider the legal instruction at the beginning of this chapter.

To ensure residue-free removal, the tape must be removed immediately after the paint or varnish has dried. The adhesive tape is not UV-resistant and is therefore not suitable for outdoor applications.

LDPE fold masker

High tear-resistant, pre-folded cover film with UV-resistant PE-coated fabric cover tape for indoor and outdoor applications.

UV-resistant

Can be removed residue-free within up to three weeks

- Long-term fabric adhesive with thick natural rubber adhesive
- Good water and solvent resistance

Adhesive tape backing material	PE-coated fabric
Foil backing material	Polyethylene
Foil thickness	0.05 mm
Adhesive base	Natural rubber
Colour	Blue (base material), Transparent (film material)
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-10 to 50 °C
Length of roll	15 m
Max. usage duration	3 Weeks
Moisture resistance	Yes
Ultraviolet resistance	Yes
Shelf life from production/conditions	12 Month/at 20 °C and 50% humidity



Width (opened out)	Art. no.	P. Qty.
60 cm	0992 416 060	1/24
160 cm	0992 416 160	1/12

Please consider the legal instruction at the beginning of this chapter.

- Adhesive edge not suitable for use on glass e.g. tinted glass/self-tint glass).
- Certain plastic surfaces (certain types of PVC) and cellulose nitrate varnishes and precious metals may cause residues. In these cases a test application for 48 hours is recommended. Not suitable for porous or absorbent surfaces, e.g. porous natural stone, marble, granite, concrete and untreated wood. Discolouration may occur on these surfaces.

Dust protection door

Resealable doorway made of dustproof special fleece with zip, fastened with double-sided adhesive tape (included)

Special dustproof but air-permeable fleece

- Protects adjacent rooms from dust whilst renovations are carried out
- Also screens the site and protects against unauthorised access to the room
- Air-permeable material allows for fresh air supply
- Easy to fit and remove

Material	Polypropylene fleece
Adhesive base	Acrylate dispersion
Height	2.1 m



Continuation **Dust protection door**

Width	1.1 m
Passageway height	1.9 m
Passageway width	0.7 m
Length of adhesive tape	7 m
Width of adhesive tape	38 mm
Max. usage duration	7 d
Min. processing temperature	15 °C

Art. no. 0992 419 990

P. Qty.: 1/5

Adhesive tape must not be exposed to direct sunlight once applied. The surface must be dry and free from dust or grease. Paint or varnish must be completely cured. Do not use on marble or granite surfaces, very absorbent surfaces or surfaces with insufficient inner stability, such as poorly adhering paint. We recommend performing an adhesion test in an inconspicuous area.

Dust protection wall

Resealable access for larger room partitions, made of dustproof special fleece with three zips, fastened with double-sided adhesive tape (included)

- Special dustproof but air-permeable fleece
- High-quality zip fastening
- Versatile use
- Easy to remove from majority of surfaces
- Reusable



Material	Polypropylene fleece
Adhesive base	Acrylate dispersion
Height	3.2 m
Width	3.3 m
Passageway height	3.2 m
Passageway width	1.1 m
Length of adhesive tape	7 m
Width of adhesive tape	38 mm
Max. usage duration	7 d
Min. processing temperature	15 °C

Art. no. 0992 419 992

P. Qty.: 1/3

Please consider the legal instruction at the beginning of this chapter.

Universal assembly support

Universal mounting aid that can be used even in instances where a single person is performing the installation work, and goes a long way to making work easier.

- Easy to use
- Extremely safe
- Robust design
- One-handed operation
- Continuously adjustable
- Automatic feed
- Ball joints and slip-proof rubber plates allow angled settings for up to 50° roof inclines

Load capacity	60 kg
Min./max. length	145-290 cm
Max. roof slope	50 Degree
Product weight (per item)	1870 g

Art. no. 0962 980 850

P. Qty.: 1



Corner angle with fabric

For reinforcement of external 90° corners in ETICS

High tear resistance

Profile with continuous fabric

Material of the profile	PVC-U, impact resistant
Side dimension of profile	21 x 21 mm
Material of the mesh	Fibre glass
Length	2.5 m



Side dimension of fabric	Art. no.	P. Qty.
8 x 12 cm	0519 520 012	125
10 x 15 cm	0519 520 015	125

Corner angle with fabric Flexible

For reinforcement of external 50° to 180° corners in ETICS

Universal application for edges from 50° to 180°

Bendable

Retains shape even after bending

Firmly attached legs, midsection not in plasticised PVC

High degree of tear resistance

Continuous fabric on profile

Material of the profile	PVC-U, impact resistant
Side dimension of profile	23 x 23 mm



Continuation **Corner angle with fabric Flexible**

Material of the mesh	Fibre glass
Length	2.5 m

Side dimension of fabric	Art. no.	P. Qty.
8 x 12 cm	0519 520 112	125
10 x 15 cm	0519 520 115	125

Corner angle with fabric Endless

Continuous product, for reinforcement of external 50° to 180° corners in ETICS

Universal application for edges from 50° to 180°

Bendable

Retains shape even after bending

Firmly attached legs, midsection not in plasticised PVC

No waste

- Continuous product
- Simply cut off the required lengths using scissors

Space-saving in vehicles and stockrooms, product is permanently protected

Handy dispenser box

High tear resistance

Continuous fabric on profile



Material of the profile	PVC-U, impact resistant
Side dimension of profile	23 x 23 mm
Material of the mesh	Fibre glass
Length of roll	50 m

Side dimension of fabric	Art. no.	P. Qty.
8 x 12 cm	0519 520 212	50
10 x 15 cm	0519 520 215	50

Corner angle with fabric with smoothing edge

For simple reinforcement of external 90° corners in ETICS

- Easier smoothing, defined plaster thickness
- Permanent bond between profile/fabric, high tear resistance
- Includes plug connector

Material of the profile	PVC-U, impact resistant
Side dimension of profile	28 x 28 mm
Material of the mesh	Fibre glass
Length	2.5 m



Side dimension of fabric	Art. no.	P. Qty.
8 x 12 cm	0519 520 312	60
10 x 15 cm	0519 520 315	60

Round arch profile with fabric

For curved plaster edges

High degree of tear resistance

Continuous fabric on profile

Material of the profile	PVC-U, impact resistant
Material of the mesh	Fibre glass
Side dimension of fabric	10 x 15 cm
Length	2.5 m



Art. no. 0519 522 001

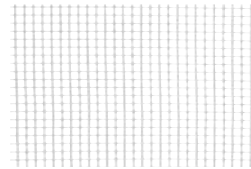
P. Qty.: 60

Pre-cut mesh patch

For reinforcing surfaces in ETICS

Non-slip

Material	Fibre glass, shift resistant
Coating weight per m ²	160 g
Mesh size	4 x 4 mm
Colour	White



Roll width x roll length	Art. no.	P. Qty.
0.33 x 100 m	0519 520 005	33
0.5 x 100 m	0519 520 006	50

ETAG-tested

Sheet metal end profile Professional

For compensating, flexible connections between plaster connections in ETICS and sheet metal flashing or roller shutter casing connections

Includes plug-in connector

Material	Polyvinyl chloride - PVC hard, impact resistant
Material of the mesh	Fibre glass
Length	2 m



Art. no. 0519 522 052

P. Qty.: 50

Attic profile Professional

For clean connections to attic covers

Prevents damage caused by water saturation from rear

Precise edge formation

Easier smoothing, defined plaster thickness

Smoothing edge



Material	Polyvinyl chloride - PVC hard, impact resistant
Material of the mesh	Fibre glass
Plaster thickness	5.9 mm
Length	2 m

Art. no. 0519 522 150

P. Qty.: 50

Basic skirting profile Uni

For the skirting finish

Material of the profile	PVC-U, impact resistant
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Profile width	Suitable for insulation thickness (D)	Length	Art. no.	P. Qty.
100 mm	100 - 180 mm	2 m	0519 524 101	30
160 mm	160 - 240 mm	2 m	0519 524 161	20

Skirting profile, aluminium

To finish bottom of façade insulation

- Good dripping properties
- Fast economical application

Material	Aluminium
Length	2.5 m



Profile width	Material thickness	Art. no.	P. Qty.
40 mm	1 mm	0519 526 040	25
50 mm	1 mm	0519 526 050	25
60 mm	1 mm	0519 526 060	25
80 mm	1 mm	0519 526 080	25
100 mm	1 mm	0519 526 100	25
120 mm	1.2 mm	0519 526 120	15
140 mm	1.2 mm	0519 526 140	15
160 mm	1.2 mm	0519 526 160	15
180 mm	1.2 mm	0519 526 180	15
200 mm	1.2 mm	0519 526 200	15

Clip-in profile

For aluminium skirting profile

Material	Polyvinyl chloride - PVC hard
Material of the mesh	Fibre glass
Length	2.5 m

Art. no. 0519 528 001

P. Qty.: 50



Expansion joint profile With type E smoothing edge

For expansion joints between building surfaces

Soft and weather-resistant

Loop made of plasticised PVC

Permanent bond between profile/fabric

Co-extrusion

Type description	Type E (surface)
Material of the profile	Plastic
Material of the mesh	Fibre glass
Plaster thickness	5 mm
Length	2 m

Art. no. 0519 522 021

P. Qty.: 50



Movement joint profile

For movement joints, flush-mounted or as internal corner

Permanent bond between profile/fabric

Co-extrusion

Material	Polyvinyl chloride - PVC hard, impact resistant
Material of the mesh	Fibre glass
Plaster thickness	6 mm
Length	2 m

Art. no. 0519 522 031

P. Qty.: 50

Bridges component movements up to max. 5 mm. Not suitable for building expansion joints or horizontal applications. After applying the final coat, the protective tape is to be removed.



Window-sill connection strip Professional

For connecting the second sealant layer of windowsill to the ETICS system

Rainwater is channelled away by the second layer of sealant

5° incline prescribed by profile geometry

Avoids dirtying façades

With drip edge

Includes plug-in connector



Material of the profile	PVC-U, impact resistant
Material of the mesh	Fibre glass
Length	2.5 m

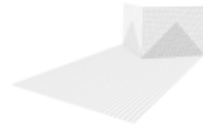
Art. no. 0519 522 061

P. Qty.: 25

Fabric lintel corner edge

Prefabricated ETICS fabric corner edge with diagonal reinforcement

High rigidity, excellent application



Material	Fibre glass, shift resistant
Coating weight of mesh per m ²	160 g
Mesh size	4 x 4 mm
Colour	White

Reveal depth	Art. no.	P. Qty.
10 cm	0519 519 010	25
20 cm	0519 519 020	25

ETAG-tested

Roller shutter connection profile 3D Plus

Ideal profile for sealing roller shutter profile joints against driving rain

Very high 3D movement absorption

- High-quality TPE membrane
- Suitable for large-scale glazing up to 10 m²

Secure and long-lasting integration of fabric

Coextruded fabric



Material of the profile	PVC-U, impact resistant
Material of the foam	Closed-cell PE foam
Width	11 mm
Motion absorption capacity compression	2.2 mm
Motion absorption capacity elongation	5 mm

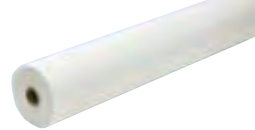
Length	Art. no.	P. Qty.
1.4 m	0519 556 111	35
2.4 m	0519 556 112	60

Please note the assembly instructions for this product.

Reinforcement fabric

For reinforcing bituminous and cement-based surface seals

- Required for seals in line with DIN 18533
- Extremely tear-resistant
- Free from plasticisers and non-rotting
- Alkali-resistant
- Unlimited shelf life



Material	Glass fibre
Roll width x roll length	1 x 100 m
Coating weight per m ²	75 g
Mesh size	5 x 5 mm
Colour	White
DIN	18533

Art. no. 0893 212 105

P. Qty.: 100/2400

Please consider the legal instruction at the beginning of this chapter.

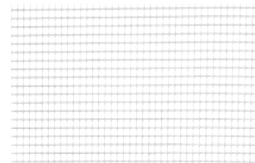


EIFS material 160 G, 4 x 4

For reinforcing surfaces in ETICS with rigid foam insulation materials

Non-slip

Material	Fibre glass, shift resistant
Roll width x roll length	1 x 50 m
Coating weight per m ²	160 g
Mesh size	4 x 4 mm



Colour	Art. no.	P. Qty.
White	0519 530 001	50
Yellow	0519 530 002	50

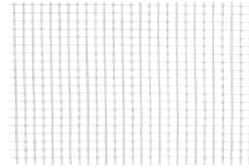
ETAG-tested

EIFS material 200 G, 7 x 7

For reinforcing surfaces in ETICS with mineral wool insulation materials

Non-slip

Material	Fibre glass, shift resistant
Roll width x roll length	1 x 50 m
Coating weight per m ²	200 g
Mesh size	7 x 7 mm
Colour	White



Art. no. 0519 530 010

P. Qty.: 50

ETAG-tested

EIFS material, 310 G 8.5 x 6.5

Reinforcement fabric for high loads for reinforcing surfaces inside and outside

- The material is non-slip and alkali-resistant
- Withstands high shock loads

Material	Fibre glass, shift resistant
Roll width x roll length	1 x 50 m
Coating weight per m ²	310 g
Mesh size	8,5 x 6,5 mm
Colour	White



Art. no. 0519 530 011

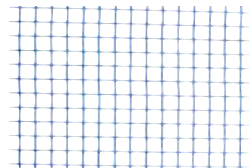
P. Qty.: 50

Exterior rendering fabric

For reinforcing surfaces in exterior rendering

Anti-slip

Material	Fibre glass, shift resistant
Roll width x roll length	1 x 100 m
Coating weight per m ²	145 g
Mesh size	10 x 10 mm
Colour	Blue



Art. no. 0519 530 020

P. Qty.: 100

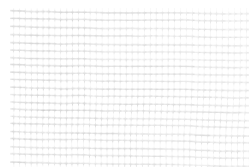
ETAG-tested

Interior plaster fabric

For reinforcing surfaces in interior plaster

Non-slip

Material	Fibre glass, shift resistant
Roll width x roll length	1 x 100 m
Coating weight per m ²	75 g
Mesh size	5 x 5 mm
Colour	White



Art. no. 0519 530 030

P. Qty.: 100

ETAG-tested

Plastering border with shadow gap and fabric

One piece

Absorption of movements >2 mm

Shadow gab

- Neat finish (only approx. 1 mm visible white edge)
- Protects the foam tape

Coextruded fabric

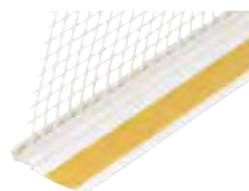
Secure and long-lasting integration of fabric

Supported removal tab

Keeps profiles upright

Two smoothing edges (with 9 mm width)

- Simplifies smoothing the reinforcement and plaster layer
- Reinforcement fabric positioned in upper third of reinforcement adhesive



Material of the profile	PVC-U, impact resistant
Material of the foam	Closed-cell PE foam
Min. motion absorption	2 mm
Length	2.4 m

Width	Art. no.	P. Qty.
6 mm	0519 550 624	72
9 mm	0519 550 924	72

Plaster stop bead Standard with fabric

Standard plaster stop bead with fabric, for sealing window and door joints in ETICS against driving rain

Absorption of movements >2 mm

Secure and long-lasting integration of fabric

Coextruded fabric

Simplifies smoothing the fabric and plaster coat

- Two smoothing edges (with 9 mm width)
- Reinforcement fabric positioned in upper third of reinforcement adhesive



Material of the profile	PVC-U, impact resistant
Material of the foam	Closed-cell PE foam
Min. motion absorption	2 mm

Width	Length	Art. no.	P. Qty.
6 mm	1.4 m	0519 552 614	42
6 mm	2.4 m	0519 552 624	72
9 mm	1.4 m	0519 552 914	42
9 mm	2.4 m	0519 552 924	72

Please note the assembly instructions for this product.

Drip edge, UP

For horizontal plaster edges on overhanging façades

Permanent bond between profile/fabric, high tear resistance

Co-extrusion

Better plaster adhesion

Profiled surface

Includes plug-in connector



Material of the profile	PVC-U, impact resistant
Material of the mesh	Fibre glass
Min./max. plaster thickness	5-6 mm
Length	2 m

Art. no. 0519 522 005

P. Qty.: 50

Skirting plug-in profile Uni with mesh

For insertion between façade and perimeter insulation

Insulation thicknesses of up to 240 mm are possible in combination with Uni skirting plug-in profile

One product for multiple insulation thicknesses

Easy flush alignment

Smoothly adjustable

Can be shortened to 80 mm overhang

With breakage point

Easier smoothing, defined plaster thickness

With smoothing edge

With drip edge

Includes plug-in connector



Material of the profile	PVC-U, impact resistant
Material of the mesh	Fibre glass
Length	2 m

Art. no. 0519 522 110

P. Qty.: 50

We recommend using a compressed sealing tape between skirting insulation and profile.

Expansion joint profile With type V smoothing edge

For expansion joints between building corners

Soft and weather-resistant

Loop made of plasticised PVC

Permanent bond between profile/fabric

Co-extrusion



Type description	Type V (corner)
Material of the profile	Plastic
Material of the mesh	Fibre glass
Plaster thickness	5 mm
Length	2 m

Art. no. 0519 522 020

P. Qty.: 50

Sealing plaster stop bead 3D Plus with mesh

Sealing plaster stop bead with high 3D movement absorption for sealing window and door joints against driving rain

Suitable for large-scale glazing up to 10 m²

- High 3D movement absorption
- High-quality TPE membrane

Secure and long-lasting integration of fabric

Coextruded fabric

Keeps profiles upright

Supported removal tab



Material of the profile	PVC-U, impact resistant
Material of the foam	Closed-cell PE foam
Width	19 mm
Motion absorption capacity compression	2.1 mm

Length	Art. no.	P. Qty.
1.4 m	0519 553 191	35
2.4 m	0519 553 192	60

Please note the assembly instructions for this product.

Sealing plaster stop bead 3D Reno with mesh

Narrow sealing plaster stop bead for sealing window and door joints against driving rain

Suitable for large-scale glazing up to 10 m²

- Very high 3D movement absorption
- High-quality TPE membrane

Ideally suited for use in renovations

Secure and long-lasting integration of fabric

Coextruded fabric

Keeps profiles upright

Supported removal tab



Material of the profile	PVC-U, impact resistant
Material of the foam	Closed-cell PE foam
Width	6 mm
Motion absorption capacity compression	2 mm

Length	Art. no.	P. Qty.
1.4 m	0519 554 061	35
2.4 m	0519 554 062	60

Should only be used in renovation projects or in exceptional cases in new builds, where there is not enough space for conventional sealing plaster stop beads.

Please note the assembly instructions for this product.

Sealing plaster stop bead 3D Premium with mesh

Premium sealing plaster stop bead with very high 3D movement absorption for sealing window and door joints against driving rain

Very high 3D movement absorption

- High-quality TPE membrane
- Suitable for large-scale glazing up to 10 m²

Secure and long-lasting integration of fabric

Coextruded fabric

Keeps profiles upright

Supported removal tab



Material of the profile	PVC-U, impact resistant
Material of the foam	Closed-cell PE foam
Motion absorption capacity compression	2.2 mm

Width	Length	Art. no.	P. Qty.
10 mm	1.4 m	0519 555 101	35
10 mm	2.4 m	0519 555 102	60
17 mm	1.4 m	0519 555 171	35
17 mm	2.4 m	0519 555 172	60

Please note the assembly instructions for this product.

Sealing plaster stop bead 3D aluminium with mesh

Ideal profile for sealing window and door joints with aluminium facings against driving rain

Very high 3D movement absorption

Secure and long-lasting integration of fabric

Coextruded fabric

Can be used with facings of 5–25 mm

Keeps profiles upright

Supported removal tab



Material of the profile	PVC-U, impact resistant
Material of the foam	Closed-cell PE foam
Width	19 mm
Motion absorption capacity compression	2.2 mm

Length	Art. no.	P. Qty.
1.4 m	0519 558 191	28
2.4 m	0519 558 192	48

Please note the assembly instructions for this product.

Plaster stop bead Standard

For sealing connection joints on windows and doors

Absorption of movements >2 mm

Material	Polyvinyl chloride - PVC hard, impact resistant
Adhesive system	Self-adhesive



Width	Length	Art. no.	P. Qty.
6 mm	1.4 m	0519 542 614	84
6 mm	2.4 m	0519 542 624	144
9 mm	1.4 m	0519 542 914	42
9 mm	2.4 m	0519 542 924	72
15 mm	2.4 m	0519 542 152	72

Please note the assembly instructions for this product.

Sealing plaster stop bead 3D Smart

Sealing plaster stop bead with high 3D movement absorption. For sealing window and door joints against driving rain in both inner and outer plastering systems

High 3D movement absorption

- High-quality TPE membrane
- Suitable for large-scale glazing up to 10 m²

Ideal plaster connection through perforated and angled plaster-in bracket

Material	Polyvinyl chloride - PVC hard, impact resistant
Width	12 mm
Adhesive system	Self-adhesive



Length	Art. no.	P. Qty.
1.4 m	0519 543 121	42
2.4 m	0519 543 122	72

Please note the assembly instructions for this product.

Corner profile, aluminium, 90°

High-quality aluminium ensures exceptional protection on edges and corners

Strong triangular box

Improved protection of goods against transport damage

Material	Aluminium
Material thickness	0.4 mm
Side dimension of profile	25 x 25 mm
Design	Perforated



Length	Art. no.	P. Qty.
2.5 m	0519 400 025	250
3 m	0519 400 030	300

Aluminium end profile

Göppinger profile

Strong triangular box

Improved protection of goods against transport damage

Material	Aluminium
Material thickness	0.4 mm
Side dimension of profile	13.5 x 23 mm
Design	Nonperforated/perforated



Length	Art. no.	P. Qty.
2.5 m	0519 400 225	250
3 m	0519 400 230	300

Plastic 90° corner profile

Impact-resistant

No impact damage, so less susceptible to transport damage

Arms 0.6 mm

For thin skim coats

Material	Polyvinyl chloride - PVC hard, impact resistant
Min./max. material thickness	0.6-1 mm
Side dimension of profile	25 x 25 mm
Design	Perforated



Continuation **Plastic 90° corner profile**

Length	Art. no.	P. Qty.
2.5 m	0519 402 025	125
3 m	0519 402 030	150

Bordering strip Professional

Unequal legs

Foam adhesive tape

Flexible join, prevents separation

Shadow gab

Neat join

Material	Polyvinyl chloride - PVC hard, impact resistant
Material thickness	0.8 mm
Suitable for plate thickness	12.5 mm
Length	2.5 m



Art. no. 0519 402 625

P. Qty.: 100

Linen adhesive tape

Universal fabric adhesive tape

High-quality spun rayon fabric base

The tape is particularly tear-resistant and is therefore suitable for strengthening and protecting a range of objects.

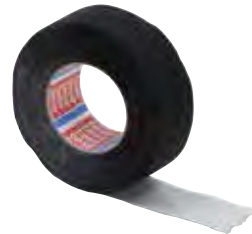
Extremely strong rubber adhesive

Excellent adhesion even on uneven, rough and fibrous surfaces.

Can be written on

The tape is ideally suited for marking.

Adhesive base	Natural rubber
Backing material	Rayon fabric
Thickness	0.29 mm
Length	50 m
Min./max. temperature resistance	-40 to 190 °C



Colour	Width	Art. no.	P. Qty.
Black	19 mm	0992 383	1/8
Black	50 mm	0992 382	1/3
Grey	19 mm	0992 385	1/8
Grey	50 mm	0992 384	1/3

Please consider the legal instruction at the beginning of this chapter.

The linen adhesive tape is not resistant to UV; therefore, it should not be exposed to direct sunlight.

The surfaces to be adhered must be dry and free from dust, grease and silicone.

To ensure proper adhesion, the tape must be sufficiently pressed onto the material to be glued.

Special PP packing tape

Very strong and tear-proof backing film

- High-quality packing tape
- The highest tear resistance in longitudinal and cross direction
- High initial adhesive strength allows optimum and secure sealing, even with poor grades of cardboard packaging.

Backing material	PP foil
Adhesive base	Acrylate
Colour	Transparent
Width	50 mm
Thickness	62 µm
Length	66 m

Art. no. 0985 050 5

P. Qty.: 6

Please consider the legal instruction at the beginning of this chapter.

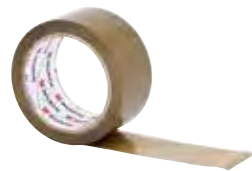


PP packing tape

Universal use for sealing shipping boxes made of cardboard, solid board and corrugated cardboard

- High tear resistance
- Solvent-free

Backing material	PP foil
Adhesive base	Acrylate
Width	50 mm
Length	66 m



Colour	Thickness	Art. no.	P. Qty.
Brown	0.052 mm	0985 050 2	6
Transparent	0.05 mm	0985 050 4	6

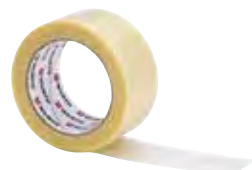
Please consider the legal instruction at the beginning of this chapter.

PVC packing tape

High degree of longitudinal tear resistance and lateral flexibility

- Can be unrolled quietly
- Protects against wet and damage
- Slightly textured
- High degree of adhesion

Backing material	PVC film
Adhesive base	Natural rubber
Width	50 mm
Thickness	0.055 mm
Length	66 m



Continuation **PVC packing tape**

Colour	Art. no.	P. Qty.
Brown	0985 050 001	6
Transparent	0985 050	6

Please consider the legal instruction at the beginning of this chapter.

Paper packing tape

Easy to tear off by hand

- With reinforced stretching
- Solvent-free
- Environmentally friendly alternative

Backing material	Paper
Adhesive base	Synthetic natural rubber
Colour	Brown
Width	50 mm
Thickness	0.107 mm
Length	50 m



Art. no. 0985 050 1

P. Qty.: 6

Please consider the legal instruction at the beginning of this chapter.

Packing tape dispenser

Universal use for all commercially available packing tape dispensers up to 50 mm tape width. With protective cover.

- Retractable blade with protective cover protects against injuries
- Ergonomic soft grip for user-friendly and easy handling
- Adjustable roller brake for simple application

Width of band	50 mm
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Art. no. 0985 052 005

P. Qty.: 1



Shipping box

High-quality box for shipping or storing products

- Sturdy structure with high-quality corrugation protects products against damage or loss
- Cardboard box can be set up quickly



Design	External length	External width	External height	Internal length	Art. no.	P. Qty.
Folding carton	580 mm	352 mm	295 mm	574 mm	0992 905 040	10
Tuck-end, auto-bottom folding carton	287 mm	188 mm	100 mm	278 mm	0992 905 010	15
Tuck-end, auto-bottom folding carton	287 mm	188 mm	200 mm	280 mm	0992 905 020	20
Tuck-end, auto-bottom folding carton	393 mm	289 mm	205 mm	390 mm	0992 905 030	14

Air bubble film

High-quality air bubble film in a practical dispenser box for surface protection, as padding to protect delicate products and for filling in cavities.

- Film with barrier layer material made of environmentally friendly LDPE
- Storage and transport volume reduced by up to 40%
- Film can be torn off easily, cleanly and straight to the desired length



Material	LDPE - Low density polyethylene
Colour	Transparent
Width	300 mm
Length	75 m
Bubble diameter	10 mm

Art. no. 0992 900 280

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Packfix packing film

For fast packing without cutting or adhesive residues

- No adhesive residues
- Good moulding capability
- Quick tear-off
- Recyclable PE film

Material	PE - Polyethylene
----------	-------------------



Colour	Width	Length	Foil thickness	Art. no.	P. Qty.
Black	500 mm	270 m	20 µm	0992 900 220	6
Transparent	100 mm	150 m	23 µm	0992 900 1	10
Transparent	500 mm	270 m	20 µm	0992 900 2	6

A different handle must be used for the 500 mm film than for the 100 mm film.

Handle for packaging film Packfix

For 100 mm film width

Type	Film dispenser
Suitable for	100 mm foil width



Art. no. 0992 901

P. Qty.: 3

Packaging film Pre-stretched Packfix

For optimum securing of load units with low consumption

- Film already pre-stretched due to special production process
- Reduced slipping of goods on pallets
- Doubled edges prevent tearing and provide additional safety

Material	PE - Polyethylene
Colour	Transparent
Width	430 mm
Length	600 m
Foil thickness	8 µm



Art. no. 0992 900 210

P. Qty.: 6

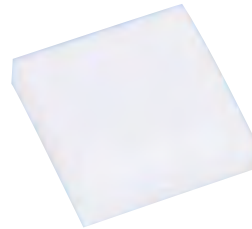
Please consider the legal instruction at the beginning of this chapter.

Transport pad

Slightly adhesive foam pads for secure transport of surfaces requiring protection

- Secure transport protection
- No adhesive residue
- Clean surfaces

Length	40 mm
Width	40 mm
Min. processing temperature	-20 °C
Max. processing temperature	80 °C
Shelf life from production/conditions	24 Month/cool and dry storage area, no exposure to sunlight, 15°C to 25°C



Design	Colour	Length x width x height (L x B x H)	Art. no.	P. Qty.
Hard	Black	40 x 40 x 10 mm	0875 850 112	3000
Hard	Black	40 x 40 x 25 mm	0875 850 113	1500
Soft	White	40 x 40 x 10 mm	0875 850 110	3000
Soft	White	40 x 40 x 25 mm	0875 850 111	1500

Please consider the legal instruction at the beginning of this chapter.

If stored in a cool, dry place (+15°C to +25°C, no sunlight), the pads maintain optimum adhesion for a period of 24 months. Please observe the labelling on the carton.



Adhesive sealing tape EURASOL®

Extremely adhesive and versatile adhesive tape for airtight and windproof bonding

- Tested resistance to ageing, protects against moisture and mould growth in the insulation
- Quick, easy and safe application thanks to excellent initial and final adhesion
- Solvent-free
- Certified for thermal ageing resistance and moisture resistance by the University of Kassel
- Proof of airtight seal from the Fraunhofer Institute for Building Physics in Stuttgart based on DIN 18055/DIN EN 42 and DIN V 4108-7/prEN 12114
- ENeV

Backing material	PE film with mesh
Adhesive base	Acrylate dispersion
Colour	White (base material)
Width	60 mm
Length	25 m
Min./max. processing temperature	0 to 50 °C
Min./max. temperature resistance	-40 to 100 °C
Ultraviolet resistance	3 months
Solvent-free	Yes

Continuation **Adhesive sealing tape EURASOL®**

Art. no. 0992 700 050

P. Qty.: 6/22

Please consider the legal instruction at the beginning of this chapter.

Adhesive sealing tape EURASOL® MAX

Particularly adhesive, UV-resistant and weather-resistant adhesive tape for airtight and windproof bonding both outdoors and indoors

Extremely high resistance to UV and weathering thanks to black special film

- Maximum protection in rain and wind, especially for outdoor adhesive bonds
- Permanently protects against building damage and energy loss in insulation

Contains especially strong and high-quality adhesive film

- Extremely strong adhesion on a range of surfaces
- Safe bonding even at low temperatures down to -10 °C



Backing material	PE film with mesh
Adhesive base	Acrylate dispersion
Colour	Black
Length	25 m
Min./max. processing temperature	-10 to 50 °C
Min./max. temperature resistance	-40 to 100 °C
Ultraviolet resistance	12 months
Solvent-free	Yes

Width	Sloting	Art. no.	P. Qty.
60 mm		0992 710 160	6
100 mm		0992 710 162	2
190 mm	95/95 mm	0992 710 161	2

Please consider the legal instruction at the beginning of this chapter.



Eurasol Max is ideal for bonding WÜTOP roof protection films, WÜTOP vapour barriers and WÜTOP vapour retarders and has been tested on these films. We therefore recommend the use of these WÜTOP films.

Adhesive sealing tape Eurasol® Thermo HT

Adhesive tape with extremely high adhesive force for demanding air-tight and wind-tight bonds both indoors and outdoors.

- Extremely powerful initial and permanent adhesive force on many surfaces, in particular Wütop Thermo films
- Secure bonding from as low as -10 °C
- High-quality special film with excellent adhesive strength and temperature resistance (up to +120 °C)
- Scrim protects against overstretching
- Solvent-free



Backing material	Special film
Adhesive base	Polyacrylate
Colour	White
Length	25 m
Min./max. processing temperature	-10 to 40 °C
Min./max. temperature resistance	-30 to 120 °C
Ultraviolet resistance	12 months, sunlight, Central Europe
Solvent-free	Yes

Width	Slotting	Art. no.	P. Qty.
60 mm		0992 720 060	10
100 mm	50/50 mm	0992 720 100	6
150 mm	75/75 mm	0992 720 150	4

Please consider the legal instruction at the beginning of this chapter.



Eurasol Thermo HT is ideal for bonding WÜTOP roof protection films, WÜTOP vapour barriers and WÜTOP vapour retarders and has been tested on these films. For this reason, we recommend using WÜTOP films to achieve optimum results. The application surface must be dry and free from grease, chips and dust. Ensure that no standing water can build up within the bonded area. Do not subject the adhered tape to long-term tension.

Adhesive tape STAMISOL

The colour-coordinated adhesive tape for STAMISOL
Color façade membrane provides long-lasting secure bonding

- Permanent, secure bonding on Stamisol façade membranes
- Very good UV, heat and moisture resistance
- Bond fits in well in appearance



Backing material	Polyester
Adhesive base	Acrylate dispersion
Width	80 mm
Length	25 m

Continuation **Adhesive tape STAMISOL**

Min./max. processing temperature	5 to 30 °C
Ultraviolet resistance	Excellent
Solvent-free	Yes

Colour	Art. no.	P. Qty.
Black	0992 712 153	3
Blue	0992 712 178	3
Claret	0992 712 176	3
Green	0992 712 177	3
Ivory	0992 712 174	3
Lemon yellow	0992 712 175	3

Please consider the legal instruction at the beginning of this chapter.



Adhesive sealing tape EURASOL® P

High-quality, paper-based adhesive tape for use indoors

Tested resistance to ageing

- Ensures permanent airtight bonding
- Maximum safety with blower door tests
- Protects against moisture and mould growth in the insulation



Backing material	Synthesis paper
Adhesive base	Acrylate dispersion
Colour	White (base material)
Length	25 m
Min./max. processing temperature	0 to 50 °C
Min./max. temperature resistance	-40 to 100 °C
Solvent-free	Yes

Width	Art. no.	P. Qty.
60 mm	0992 810 060	6
190 mm	0992 810 190	2

Please consider the legal instruction at the beginning of this chapter.

- Certified for thermal ageing and moisture resistance by the University of Kassel.
- Proof of airtight seal from the Fraunhofer Institute for Building Physics in Stuttgart based on DIN 18055 / DIN EN 42 and DIN V 4108-7 / prEN 12114
- ENeV



- The application surface must be dry and free from grease, chips and dust. Ensure that no standing water can build up in bonded areas.

- Please observe our building-related warranty conditions.
- The product is suitable only for indoor use.

Adhesive sealing tape EURASOL® PLUS

Special adhesive tape for corner bonding and edge bonding

- Protects against damp and mould in insulation
- Excellent initial and end adhesion
- Flexible carrier material
- Divided release paper
- Solvent-free



Backing material	PE film with mesh
Adhesive base	Acrylate dispersion
Colour	White
Width	60 mm
Sloting	30/30 mm
Length	25 m
Min./max. processing temperature	0 to 50 °C
Min./max. temperature resistance	-40 to 100 °C
Ultraviolet resistance	3 months
Solvent-free	Yes

Art. no. 0992 710 060

P. Qty.: 6

Please consider the legal instruction at the beginning of this chapter.

- Certified for thermal ageing resistance and moisture resistance by the University of Kassel
- Proof of airtight seal from the Fraunhofer Institute for Building Physics in Stuttgart based on DIN 18055/DIN EN 42 and DIN V 4108-7/prEN 12114
- ENeV



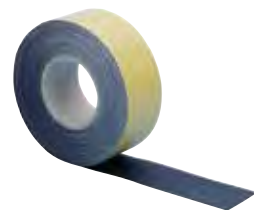
The application surface must be dry and free from grease, chips and dust. Ensure that no standing water can build up in bonded areas.

10-year system warranty applies where used indoors under air-tight conditions.

Adhesive sealing tape EURASOL® DUS

Special adhesive tape for windproof bonding of sarking membrane and roof protection films.

- Fleece overlay protects against weather influences
Ideally suited for outdoor use
- Vapour-permeable membrane backing material
Maximum protection against formation of condensation water
- Excellent initial and final adhesion
Permanently ensures windproof bonding



Continuation **Adhesive sealing tape EURASOL® DUS**

Backing material	Vapour permeable roof underlay
Adhesive base	Modified acrylate
Width	60 mm
Length	25 m
Min./max. processing temperature	0 to 50 °C
Min./max. temperature resistance	-40 to 90 °C

Art. no. 0992 750 050

P. Qty.: 6

Please consider the legal instruction at the beginning of this chapter.

German Energy Saving Ordinance (EnEV)

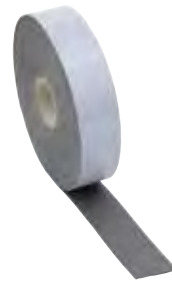
Eurasol® DUS is ideal for bonding Wütop® roof protection film and has been tested on these films. For this reason, we recommend using Wütop® films to achieve optimum results.

Please observe our building-related warranty conditions.

EURASOL® nail sealing tape

Tested sealing tape for reliably sealing off nail, staple gun and screw penetration points on underlay membranes and roof protection films as well as vapour barriers and vapour retarders.

- Satisfies the requirements of the ZVDH Directive
- Closed-cell soft foam offers maximum reliability
- High adhesive power
- Solvent-free for excellent material compatibility
- High temperature resistance
- Resistant to penetration of water



Material	PE - Polyethylene
Adhesive base	Acrylate dispersion
Colour	Anthracite
Total thickness	3 mm
Length	10 m

Width	Art. no.	P. Qty.
45 mm	0875 850 145	6
60 mm	0875 850 160	5

Please consider the legal instruction at the beginning of this chapter.



EURASOL nail sealing tape is ideally suited for use with WÜTOP Trio/SK and WÜTOP®Trio Plus. We therefore recommend using these underlay membranes to achieve optimum results with the Würth wind and air sealing system, and to take advantage of 10-year system warranty*.

* Please observe our building-specific warranty conditions.

PE nail sealing tape EURASOL®

Tested, one-sided adhesive sealing tape for rainproof sealing of nail and screw penetration points on underlay membranes and roof protection films.

High adhesive strength

Good adhesion on underlay membranes and wood.

Very good material compatibility

Material	PE - Polyethylene
Adhesive base	Synthetic natural rubber
Colour	Red
Total thickness	3 mm
Length	30 m



Width	Art. no.	P. Qty.
45 mm	0875 851 145	7
60 mm	0875 851 160	5

Please consider the legal instruction at the beginning of this chapter.

Satisfies the requirements of the ZVDH Directive

Nail seals are required for temporary covers and if the standard roof pitch is underrun. EURASOL nail sealing tape protects against water penetration, and therefore meets the requirements of the ZVDH.

Maximum reliability with proof of testing

Tested for driving rain resistance by the Fraunhofer Institute for Building Physics in Stuttgart up to 600 Pascal (meets wind strength 11–12).

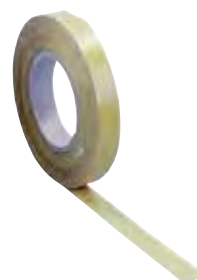
Tested for driving rain resistance by the Fraunhofer Institute for Building Physics in Stuttgart.



Roof protection film fastening tape EURADOP®

Double-sided adhesive tape for permanent bonding for indoor and outdoor use

- Double-sided adhesive tape
- Tested airtight seal and resistance to ageing
- Many different applications
- Solvent-free
- ENeV
- Certified for thermal ageing resistance and moisture resistance by the University of Kassel



Backing material	PES with mesh
Adhesive base	Modified acrylate
Width	19 mm
Length of roll	50 m
Thickness	0.2 mm
Min. temperature resistance	-40 °C
Max. temperature resistance	90 °C
Min. processing temperature	0 °C
Max. processing temperature	50 °C
Ultraviolet resistance	8 weeks
Full resilience	6 h

Continuation **Roof protection film fastening tape EURADOP®**

Art. no. 0992 700 119

P. Qty.: 18

Please consider the legal instruction at the beginning of this chapter.

Evidence of airtight seal with EURADOP, EURASOL, EURASOL P, EURASOL Plus by Fraunhofer Institute for Building Physics in Stuttgart in accordance with DIN 18055/DIN EN 42 and DIN V 4108-7/prEN 12114



The application surface must be dry and free from grease, chips and dust. Ensure that no standing water can build up within the bonded area. Do not subject the adhered tape to long-term tension.

Exhibition stand construction adhesive tape

Double-sided fabric adhesive tape with a highly adhesive and a less-adhesive side.

- No adhesive residue
- Excellent adhesion of the covered side
- Can be removed by hand



Backing material	Rayon fabric
Adhesive base	Acrylate
Colour	White (base material)
Roll width	50 mm
Length of roll	25 m
Thickness	0.22 mm
Min./max. processing temperature	15 to 30 °C
Min./max. temperature resistance	-30 to 110 °C
Max. usage duration	3 Weeks
Ultraviolet resistance	Yes
Moisture resistance	Yes
Shelf life from production/conditions	12 Month/at 20°C and 50% humidity

Art. no. 0894 605

P. Qty.: 5

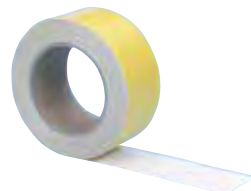
Please consider the legal instruction at the beginning of this chapter.

With surfaces and plastics to be bonded that contain softeners, the softeners may alter the adhesive coat. This will impair the strength of the adhesive.

Mounting tape Universal

Versatile adhesive tape for simple applications

- Excellent adaptation of the adhesive tape to smooth coverings and floors
- Excellent adhesion, even to delicate surfaces such as PE and PP
- Good humidity resistance



Backing material	PP foil
Adhesive base	Natural rubber
Colour	White (base material)
Roll width	50 mm
Length of roll	25 m
Thickness	0.225 mm
Min./max. processing temperature	15 to 30 °C
Min./max. temperature resistance	-10 to 50 °C
Ultraviolet resistance	Limited
Moisture resistance	Yes
Shelf life from production/ conditions	12 Month/dry and dust free storage area

Art. no. 0894 600

P. Qty.: 5

Please consider the legal instruction at the beginning of this chapter.

The universal assembly adhesive tape is not resistant to UV; it should therefore not be exposed to direct sunlight

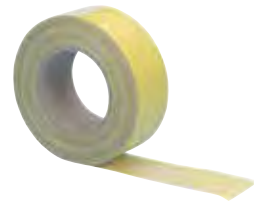
On plastics containing softener additives to be bonded, the softeners may change the adhesive coat, which may compromise the adhesive strength

Assembly tape Special

Highly adhesive tape with fabric backing

- Excellent adhesion, even on rough surfaces
- The tape adapts very well to the surface, even uneven surfaces.

Backing material	Rayon fabric
Adhesive base	Synthetic natural rubber
Colour	White (base material)
Roll width	50 mm
Length of roll	25 m
Thickness	0.335 mm
Min./max. processing temperature	15 to 30 °C
Min./max. temperature resistance	-10 to 50 °C
Ultraviolet resistance	Limited
Moisture resistance	Yes
Shelf life from production/ conditions	12 Month/dry and dust free storage area



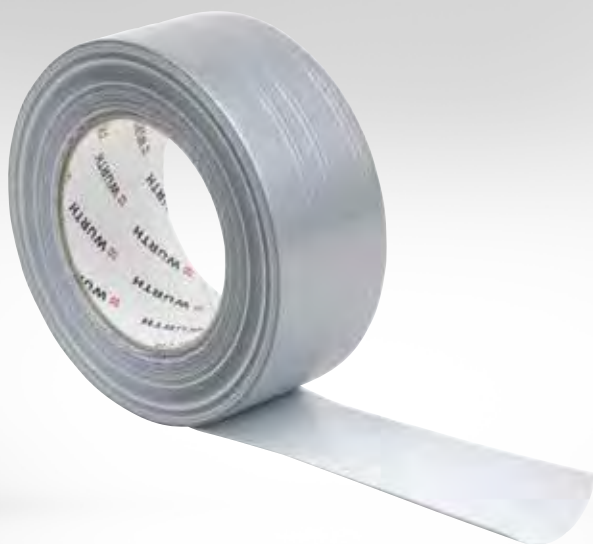
Art. no. 0894 601

P. Qty.: 5

Please consider the legal instruction at the beginning of this chapter.

The assembly adhesive tape in particular is not resistant to UV; it should therefore not be exposed to direct sunlight

On plastics to be bonded which contain softener additives, the softeners may change the adhesive layer. This may compromise the adhesive strength



Fabric adhesive tape

Plastic-coated universal adhesive tape

- Extremely high initial adhesive strength
- Can be torn off by hand

Backing material	Coated polyester fibre
Width	50 mm
Length	50 m
Min./max. temperature resistance	-10 to 60 °C

Colour	Art. no.	P. Qty.
Silver coloured	0874 100 200	1/12
Black	0874 100 202	1/12
Red	0874 100 204	1/12

Adhesive tape

For adhering pipe insulation cut surfaces. For bundling and protecting.

Backing material	PVC
Length	20 m
Min./max. temperature resistance	-18 to 90 °C



Colour	Width	Art. no.	P. Qty.
Isogene grey	30 mm	0874 100 011	1/20
Red	50 mm	0874 100 040	1/20

Adhesive tape

For adhering pipe insulation cut surfaces. For sealing ventilation ducts and air-conditioning ducts. For bundling and protecting.

Backing material	PVC
Width	50 mm
Length	20 m
Min./max. temperature resistance	-5 to 60 °C



Colour	Art. no.	P. Qty.
Black	0874 100 060	1/20
Silver coloured	0874 100 050	1

Pure aluminium adhesive tape

With PE film as release layer

- Building material class A2, non-flammable (on metallic surfaces)
- Building material class B1, flame retardant (on flame-retardant, aluminium-laminated mineral fibre products)
- Easy to remove the separating layer from the bonding surface
- Can be torn off by hand
- Heat-resistant
- UV-resistant

Backing material	Aluminium foil
Barrier layer	PE film
Colour	Silver coloured
Length	50 m
Min./max. temperature resistance	-40 to 140 °C



Width	Art. no.	P. Qty.
50 mm	0874 100 340	1
75 mm	0874 100 341	1
100 mm	0874 100 342	1

Pure aluminium adhesive tape

With paper as release layer

- Building material class B1, flame retardant
- Easy to tear off by hand



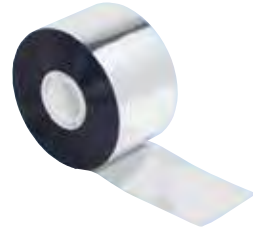
Backing material	Aluminium foil
Barrier layer	Paper
Colour	Silver coloured
Length	50 m
Min./max. temperature resistance	-25 to 70 °C

Width	Art. no.	P. Qty.
50 mm	0874 100 320	1
75 mm	0874 100 321	1
100 mm	0874 100 322	1

Aluminium adhesive tape

Aluminium-metallised polypropylene, no release layer

- No separating layer
- Tear-proof



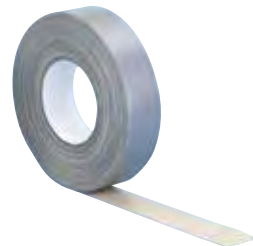
Backing material	Aluminium-coated polypropylene
Colour	Silver coloured
Length	100 m
Min./max. temperature resistance	-20 to 70 °C

Width	Art. no.	P. Qty.
50 mm	0874 100 330	1
75 mm	0874 100 331	1
100 mm	0874 100 332	1

Universal adhesive tape

Plastic-coated fabric adhesive tape

- Excellent adhesion even on rough and fibrous surfaces
- The tape is impermeable to water and vapour diffusion, is not sensitive to moisture and can be written on
- Can be torn off by hand



Backing material	Plastic-coated rayon fabric
Adhesive base	Natural rubber
Length	50 m
Thickness	0.3 mm
Dynamic peel strength at 25 mm	9.8 N
Elongation at break	11 %
Min./max. processing temperature	10 to 40 °C

Min./max. temperature resistance	-10 to 70 °C
Moisture resistance	Yes
Shelf life from production/conditions	12 Month/dry, lying and dust-free storage area, protected from UV rays, 20°C and 50% humidity

Colour	Width	Art. no.	P. Qty.
Black	19 mm	0992 381 19	1
Black	38 mm	0992 381 38	1
Black	50 mm	0992 381 50	1
Silver coloured	38 mm	0992 380	1

Please consider the legal instruction at the beginning of this chapter.

The universal adhesive tape is not resistant to UV so should not be exposed to direct sunlight. The surfaces to be adhered must be dry and free from dust, grease and silicone. To ensure proper adhesion, the tape must be pressed on to the material being bonded with sufficient force

Self-fusing shrink tape

Enables waterproof and water-impermeable sealing of a variety of materials.

- High dielectric strength
- Highly compatible with PE, PVC, butyl, neoprene etc.
- Highly elastic



Backing material	Polyisobutylene
Colour	Black (base material)
Length	10 m
Total thickness	0.5 mm
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-40 to 90 °C
Ultraviolet resistance	Limited
Moisture resistance	Yes
Shelf life from production/conditions	36 Month/dry, lying and dust-free storage area, 20°C and 50% humidity

Width	Product weight (per item)	Art. no.	P. Qty.
19 mm	111.5 g	0985 077 1	1
38 mm	216 g	0985 077 2	1

Please consider the legal instruction at the beginning of this chapter.

- The surfaces to be sealed must be dry and free from dust and grease.
- To achieve perfect adhesion and a waterproof seal, wrap the tape tightly around the material to be processed and then overlap.
- The shrink tape is only UV-resistant in certain cases and should therefore be protected from direct sunlight.

Electrical insulating tape

Safe insulation and labelling during electrical installation

DE-tested in line with DIN EN 60454-3-1 Type 5

- Safe thanks to tested properties
- Up to 9 kV dielectric strength
- Flame-retardant



Chemical basis	Acrylate, soft PVC foil
----------------	-------------------------

Colour	Width	Length	Art. no.	P. Qty.
Black	15 mm	10 m	0985 101	10
Black	30 mm	25 m	0985 101 1	5
Blue	15 mm	10 m	0985 105	10
Brown	15 mm	10 m	0985 104	10
Green	15 mm	10 m	0985 109 2	10
Grey	15 mm	10 m	0985 109 1	10
Red	15 mm	10 m	0985 103	10
White	15 mm	10 m	0985 102	10
Yellow	15 mm	10 m	0985 107	10
Yellow-green	15 mm	10 m	0985 109	10

Please consider the legal instruction at the beginning of this chapter.

Protect tape from exposure to direct sunlight.

Electrical insulating tape set

10 pieces Contains all relevant colours for safe insulation and labelling during electrical installation.

- VDE-tested in line with DIN EN 60454-3-1 Type 5
- Tear-proof and resistant to ageing
- Lasting material properties even with changing temperatures



Number of pieces in assortment/set	10 PCS
Min./max. temperature resistance	0 to 90 °C
Shelf life from production	24 Month

Art. no. 0985 100

P. Qty.: 10

Please consider the legal instruction at the beginning of this chapter.

Contents for art. no. 0985 100		
Designation	Art. no.	Quantity
Electrical insulating tape Black	0985 101	2
Electrical insulating tape White	0985 102	2
Electrical insulating tape Red	0985 103	1
Electrical insulating tape Brown	0985 104	1
Electrical insulating tape Blue	0985 105	1

Designation	Art. no.	Quantity
Electrical insulating tape Yellow	0985 107	1
Electrical insulating tape Yellow-green	0985 109	1
Electrical insulating tape Grey	0985 109 1	1

Self-adhesive hook and loop fastener tape

For simple fastening of product samples, components, panels and for door, case and cover locks and similar products

- Closure thickness:
Based on DIN 53.370 with a closing pressure of $0.14 \pm 0.04 \text{ N/cm}^2 = 2.0\text{--}4.0 \text{ mm}$
- Temperature resistance:
 -30°C to $+85^\circ\text{C}$
- Adhesive type:
Hot melt pressure sensitive adhesive based on rubber



Adhesive base	Natural rubber
Material	PA - Polyamide
Type of adhesive	Hot melt pressure sensitive adhesive
Length	10 m
Width	20 mm
Min./max. sealing thickness	2-4 mm
Min./max. temperature resistance	-30 to 85°C
Max. temperature resistance	85°C

Design	Colour	Art. no.	P. Qty.
With eyelet	Black	0894 821	1
With eyelet	White	0894 820	1
With hook	Black	0894 811	1
With hook	White	0894 810	1

Please consider the legal instruction at the beginning of this chapter.

Closing strengths

Peel and shear strength tested in line with DIN 3415 Part 2 Figure 5.2 and 5.3 average values (minimum values in brackets).

The hook and loop fastener tape is not suitable for surfaces that contain softeners (e.g. soft PVC).

Velcro cable tape

Re-sealable Velcro tape for quick bundling of cables

- Very high-quality, dense hook and loop material
- Can be opened and closed repeatedly
- Easy to remove cable ties from the roll by hand
- Gentle on the surface

Material	Polypropylene/velour
Colour	Black
Width	20 mm
Thickness	1.35 mm



Continuation **Velcro cable tape**

Length	Art. no.	P. Qty.
200 mm	0894 850 020	100
330 mm	0894 850 021	75

Please consider the legal instruction at the beginning of this chapter.

The tape is not suitable for securing items during transport.

Hook and loop strap

Re-sealable strap with closure for fixing and bundling

- Very high-quality, dense hook and loop material for strong bonds
- Can be opened and closed repeatedly
- Quick to close and easy to loosen
- Surfaces are not damaged



Material	PA - Polyamide
Colour	Black, Red
Width	25 mm
Thickness	2.35 mm

Length	Art. no.	P. Qty.
360 mm	0894 850 030	10
480 mm	0894 850 031	10

Please consider the legal instruction at the beginning of this chapter.

The tape is not suitable for securing items during transport.

Double-sided hook and loop fastener strip

Versatile, re-sealable adhesive tape with hooks on the front and velour on the back

- Very high-quality, dense hook and loop material
- Can be opened and closed repeatedly
- Flexible application
- Easy to remove and gentle on surfaces



Material	Polypropylene/velour
Colour	Black
Length	25 m
Width	20 mm
Thickness	1.35 mm

Art. no. 0894 850 010

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

The tape is not suitable for securing items during transport.

Magnetic tape

Permanently magnetic, flexible plastic tape for universal mounting options

- Strong magnetisation for optimal support
- Reusable
- Does not scratch or leave behind adhesive residue

Thickness	1.2 mm
Width	19 mm
Length	10 m



Art. no. 0894 10

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

- Do not use as a primer for magnets.
- Do not bring into contact with food items.



NSF = internationally recognised organisation
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used in the food processing sector



Cleaner Industry Clean

High-quality special cleaner for removing adhesive tape residue, labels and film stickers as well as stubborn dirt. NSF-certified.

- Easy removal of adhesive residues, labels and adhesive tapes
- Stubborn dirt such as wax, rubber abrasion, silicone residues, permanent marker, oil and grease are loosened
- Gentle on materials
- Acetone-, silicone- and AOX-free

NSF registered, class K3, reg. no. 149620, 149621

Colour	Transparent
Chemical basis	Special benzine with D-limonene
Smell/fragrance	Characteristic
Shelf life from production/ conditions	24 Month/below 25°C

Contents	Art. no.	P. Qty.
5 l	0893 140 05	1
500 ml	0893 140	1/12

Please consider the legal instruction at the beginning of this chapter.

Industry Clean Refillomat

High-quality special cleaner for industry and craft trades

- Simple removal of adhesive residue, labels and adhesive tape
- Dissolves stubborn dirt such as wax, rubber marks, silicone residue, permanent marker, oil and grease
- Gentle on materials
- Acetone-free, silicone-free and AOX-free

Contents	20 l
Colour	Colourless
Smell/fragrance	Characteristic
Viscosity/consistency	Liquid



Art. no. 0893 140 520

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Prior to treatment, check rubber and plastic parts for compatibility in an invisible location. Paints may be attacked.

Sticker-Ex

Gel-form cleaner with citrus fragrance

- Straightforward removal of adhesive residues, labels and adhesive tape
- The adhesive effect of the gel allows a significantly longer application time for the solvent, resulting in improved cleaning performance compared to liquid cleaners

Contents	500 ml
Colour	Colourless
Chemical basis	Aliphatic hydrocarbon
Smell/fragrance	Citrus
Viscosity/consistency	Gel
Shelf life from production/conditions	24 Month/frost-free storage area



Art. no. 0893 140 505

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Prior to treatment, check rubber and plastic parts for compatibility in an invisible location. Paints may be attacked.

Workshop cleaner

Powerful, environmentally friendly cleaner in the neutral pH range with extremely high dirt removal power for floors, machinery and plants.

- Dirt is penetrated
- Environmentally friendly
- Especially gentle on the skin
- AOX and silicone-free



Colour	Green
Shelf life from production	24 Month
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes

Contents	Container	Art. no.	P. Qty.
5 l	Canister	0893 124	1
20 l	Canister	0893 124 1	1
60 l	Plastic barrel	0893 124 2	1

Please consider the legal instruction at the beginning of this chapter.

Workshop cleaner BMF

Environmentally friendly cleaning agent for workshops, machinery and vehicles

- Can be used mechanically, manually or in high-pressure devices
- Powerful at dissolving greases, yet mild and gentle on materials
- Does not attack paints, rubber or plastics



Colour	Luminous yellow
Shelf life from production	24 Month
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes

Contents	Container	Art. no.	P. Qty.
5 l	Canister	0893 118 2	1
20 l	Canister	0893 118 3	1
60 l	Plastic barrel	0893 118 4	1
200 l	Plastic barrel	0893 118 501	1

Please consider the legal instruction at the beginning of this chapter.

Tap

Tap for 5 L plastic canister

Material	Plastic
Product weight (per item)	30.9 g

Art. no. 0891 302 01

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Universal cleaner R1

Universal, environmentally friendly cleaner for vehicles, workshops, offices, interiors, carpets, upholstery and all water-resistant surfaces

Mild and gentle on materials. Does not attack paint, rubber or plastics.

High cleaning performance

Even stubborn stains are removed quickly and thoroughly

Smell/fragrance	Lemon
Colour	Orange
pH value/conditions	9.4/in concentrate
Density/conditions	1.04 g/cm³/at 20°C
AOX-free	Yes
Silicone-free	Yes
Phosphate-free	Yes
Bio-degradable	Yes



Contents	Container	Art. no.	P. Qty.
5 l	Canister	0893 125 005	1
20 l	Canister	0893 125 020	1
60 l	Barrel	0893 125 060	1

Please consider the legal instruction at the beginning of this chapter.



Hot water increases the cleaning effect

IPA isopropanol cleaner

For universal use

- Gentle and effective cleaning
- Removes both greasy and water-soluble dirt
- Leaves no stains or streaks on bare metal or glass surfaces

Colour	Transparent
Chemical basis	Isopropanol



Contents	Container	Art. no.	P. Qty.
5 l	Canister	0893 223 505	1
500 ml	Aerosol can	0893 223 500	1/12

Please consider the legal instruction at the beginning of this chapter.

Check whether delicate plastics or surfaces are compatible with the cleaner prior to treating by testing on an area that is not visible.

Assembly power cleaner

Highly-effective special cleaner containing solvents. NSF-certified.

- Ideally suited for removing oily, greasy, sooty and slightly resinified dirt
- Short flash-off time
- Good material compatibility

Colour	Transparent
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Contents	Chemical basis	Art. no.	P. Qty.
0.5 l	Naphtha	0890 107	1/24
5 l	Aliphatic hydrocarbon	0890 107 05	1
20 l	Aliphatic hydrocarbon	0890 107 20	1
60 l	Aliphatic hydrocarbon	0890 107 60	1

Please consider the legal instruction at the beginning of this chapter.

NSF K1 registered (no.: 150705, 150706), complies with requirements of USDA K1.



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

Prior to application, check the compatibility of rubber, plastic parts and painted surfaces on an invisible area.

1A assembly cleaner

Highly active and safe assembly and parts cleaner

- TÜV-tested explosion and fire behaviour according to test method no. PPP 53285:2006
 - Excellent cleaning performance
 - AOX and aromatic compound-free
 - Silicone-free
 - Significantly reduces the risk potential in the workplace
- Spray can contains non-combustible propellant

Colour	Colourless
Chemical basis	2-propanol, white spirit, ketone
Shelf life from production/conditions	24 Month/at room temperature



Contents	Art. no.	P. Qty.
20 l	0890 106 520	1
60 l	0890 106 560	1
500 ml	0890 106 500	1/24

Please consider the legal instruction at the beginning of this chapter.

Do not spray on hot parts. Check compatibility with plastic and rubber parts and painted surfaces on an invisible area prior to application.

A2 assembly and parts cleaner

Workshop-friendly and safe special cold cleaner with high degree of safety

- Complies with the recommendation of the relevant professional association in Germany
- Protects against electrostatic discharge
- Reduces potential risks in the workplace and the need for hazard labelling
- High cleaning performance
- Acetone-free, AOX-free and silicone-free

Contents	600 ml
Colour	Transparent
Chemical basis	Aliphatic hydrocarbon



Continuation **A2 assembly and parts cleaner**

Art. no. 0890 109 4

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Prior to application, check the compatibility of rubber, plastic parts and painted surfaces on an invisible area.



Brake cleaner

For cleaning and degreasing during maintenance and repair work

Fast flash-off behaviour and excellent cleaning performance

- Fast and effective removal of soot, grease, brake dust and oily residues
- Residue-free cleaning

Chemical basis	Naphtha
Shelf life from production	24 Month

Contents	Container	Smell/fragrance	Art. no.	P. Qty.
500 ml	Aerosol can	Solvent-like	0890 108 7	1/24
5 l	Canister	Characteristic	0890 108 715	1
20 l	Canister	Characteristic	0890 108 716	1
20 l	Canister	Characteristic	0890 108 720	1
60 l	Barrel	Characteristic	0890 108 760	1

Please consider the legal instruction at the beginning of this chapter.

Product-specific pump spray bottle Unfilled

Refillable empty pump spray bottle for easy application of products from canisters or drums

- Break-proof, empty 1 litre container
- Easy opening owing to surface feel elements

Contents	1 l
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Suitable for active ingredient	Art. no.	P. Qty.
	0891 503 001	1
Assembly cleaner 1A	0891 503 006	1
Brake cleaner	0891 503 002	1
Cleaner for wheel	0891 503 003	1
Wheel rim cleaner premium	0891 503 004	1
Cleaner for workshop	0891 503 007	1
BMF cleaner	0891 503 008	1
Leak detector	0891 503 012	1
Lubricant for wood	0891 503 013	1
Rust remover Plus	0891 503 015	1

Diesel performance improver

For lubricating passenger car and truck diesel systems.

Prevents deposits from building up in the combustion chamber and injection system

- Extends the storage stability of bio-diesel fuels

Ensures precise diesel injection

Free from sulphur, phosphorous, metals and acids

Economical

Contents	300 ml
Colour	Brown
Smell/fragrance	Characteristic
Chemical basis	Combination of additives
Shelf life from production	24 Month



Art. no. 5861 001 301

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Diesel injection cleaner

For cleaning all common passenger car and truck diesel engines.

- For cleaning the injection pump and nozzle
- Neutralises and binds acid condensation water
- Improves the cetane number
- Synthetic-based active agent concentrate

Colour	Brown
Smell/fragrance	Characteristic
Chemical basis	Hydrocarbon
Shelf life from production	24 Month



Contents	Art. no.	P. Qty.
300 ml	5861 011 300	1/12
1000 ml	5861 011 001	1/12

Please consider the legal instruction at the beginning of this chapter.

Winter diesel performance improver

To improve the filterability and the cloud point of diesel fuel

- Prevents the fuel line and filter from becoming clogged
- Improves filtration ability and the pour point of the diesel fuel
- Compatible with all conventional diesel fuels, however ineffective with pure organic diesel
- Improvement of up to -10°C at max. -31°C depending on the fuel quality

Colour	Transparent, translucent, opaque
Smell/fragrance	Characteristic
Chemical basis	Combination of additives
Shelf life from production	60 Month



Contents	Art. no.	P. Qty.
150 ml	5861 002 150	1/12
300 ml	5861 002 300	1/12
1000 ml	5861 002 001	1/12

Please consider the legal instruction at the beginning of this chapter.

The additive must be added before the first flocculation; any flocculation that has already occurred cannot be dissolved by the product. Ideally, the additive should be at room temperature and the diesel fuel being treated should not be below 0°C. The additive should ideally be added just before the fuelling process.

Diesel particulate filter cleaner

Cleaner for removing carbon and ash deposits from diesel particulate filters

Loosens and removes carbon deposits from the particulate filter

DPF can be cleaned without needing to remove it

Saves money as it may eliminate the need to fit a new particulate filter (depending on the condition of the particulate filter)

Non-flammable

Neutral, ash-free and metal-free recipe

Evaporation without residue



Contents	400 ml
Colour	Rosy
Smell/fragrance	Aminic
Chemical basis	Water
Shelf life from production	15 Month

Art. no. 5861 014 500

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

This information is intended to advise you, to the best of our knowledge, based on our tests and experience. Preliminary testing required! For more information, please refer to the technical data sheet.

Brake paste

Highly pressure-resistant, very adhesive lubricant in display box

Contents	5.5 ml
Weight of content	5.86 g
Colour	Silver coloured
Smell/fragrance	Oil
Chemical basis	Aluminium-copper
Shelf life from production	24 Month



Art. no. 0893 110 5

P. Qty.: 100

Please consider the legal instruction at the beginning of this chapter.

Application temperature as grease paste: -20°C to +160°C

Petrol performance improver

For all petrol engines with and without a catalytic converter.

Cleans the fuel system

Reduces fuel consumption thanks to exact fuel preparation

E10 suitability

- Protects from water occurring in fuel tank due to the hygroscopic property of E10 fuel
- Prevents corrosion
- Cleans deposits in the fuel system

Optimal combustion

Reduces the formation of harmful exhaust gases

Contents	300 ml
Colour	Colourless
Smell/fragrance	Solvent-like
Chemical basis	Hydrocarbon
Shelf life from production	24 Month

Art. no. 5861 101 300

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Petrol additive Octane booster

For boosting the octane number in lower-grade fuels.

- Prevents wear
- Improves vehicle performance
- Clean combustion
- Improves octane number
- Reduces harmful exhaust gases

Contents	300 ml
Colour	Brown
Smell/fragrance	Solvent-like
Chemical basis	Hydrocarbon
Shelf life from production	24 Month

Art. no. 5861 103 300

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Petrol injection system cleaner

Special cleaner for cleaning the injection system

- Binds and neutralises acidic condensation water
- Removes resin- and paint-like deposits in the micro range on injection valves and on the fuel distributor

Colour	Colourless
Smell/fragrance	Solvent-like
Chemical basis	Naphtha
Shelf life from production	24 Month



Contents	Art. no.	P. Qty.
150 ml	5861 111 153	1/12
300 ml	5861 111 303	1/12

Please consider the legal instruction at the beginning of this chapter.

Oil smoke stop

Reduces smoking of petrol and diesel engines

- Reduces oil consumption by stabilising the viscosity and compensates viscosity losses. Helps prevent blue exhaust smoke.
- The can contents of 300 ml are sufficient for 5 litres of oil

Contents	300 ml
Colour	Light brown
Smell/fragrance	Characteristic
Chemical basis	Combination of additives
Shelf life from production	60 Month



Art. no. 5861 301 300

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Not suitable for use in motorcycles or quad bikes with wet clutches.

Throttle valve cleaner

Special, highly active system cleaner for 2- and 4-stroke engines.

Cleaning without removal Overhead valve

Hard-to-reach areas can be easily accessed

Outstanding cleaning performance

- Optimum carburettor performance
- Perfect throttle valve function

Engine runs smoothly

Faults caused by dirty throttle valves or carburettors are rectified.

Contents	500 ml
Colour	Colourless



Smell/fragrance	Solvent-like
Chemical basis	Hydrocarbon
Shelf life from production	24 Month

Art. no. 5861 113 500

P. Qty.: 1/12/24

Please consider the legal instruction at the beginning of this chapter.



AdBlue®

For diesel engines with SCR exhaust gas aftertreatment

- 32.5% aqueous solution to reduce nitrogen oxide emissions
- Complies with ISO specification ISO 22241-1

Manufacturer approvals for art. no. 5861700001 (1.89 litre bottle)

- Mercedes Benz, A 000 583 0107
- BMW Group, 83190441139
- VW/Audi, G 052 910 A2
- Mazda, 0000-AD-002

Colour	Transparent
Smell/fragrance	Nearly odourless
Chemical basis	Urea in demineralised water
Shelf life from production	24 Month

Contents	Art. no.	P. Qty.
10 l	5861 700 002	2
210 l	5861 700 003	1
1000 l	5861 700 004	1

Please consider the legal instruction at the beginning of this chapter.

Engine flush and cleaner

For cleaning all petrol and diesel engines

- Cleans the inside of the engine and the oil supply system
- Does not attack seals
- Optimise exhaust gas emissions
- Compatible with catalytic converters

Contents	400 ml
Colour	Brown
Smell/fragrance	Characteristic
Chemical basis	Combination of additives
Shelf life from production	60 Month



Art. no. 5861 310 400

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Not suitable for use in motorcycles with oil bath clutch that share a joint oil circuit

Radiator anti-freeze Premium

Radiator anti-freeze concentrate for water-cooled vehicle engines

- Guarantees maintenance-free frost and corrosion protection for the entire service life of the engine
- Long-term protection against all types of corrosion
- The Würth radiator protection inhibitor package offers outstanding cavitation protection
- Environmentally friendly due to the absence of borates, nitrites, amines and phosphates
- Suitable for all engine metals, including aluminium and ferrous alloys
- For petrol and diesel engines
- Dilutes in water
- Meets the requirements of automotive manufacturers



Chemical basis	Ethylene glycol
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Type description	Colour	Contents	Art. no.	P. Qty.
W30 Premium radiator protection	Red violet	20 l	5861 500 303	1
W30 Premium radiator protection	Red violet	60 l	5861 500 304	1
W30 Premium radiator protection	Red violet	200 l	5861 500 305	1
W40 Premium radiator protection	Light red	20 l	5861 500 403	1
W40 Premium radiator protection	Light red	60 l	5861 500 404	1
W40 Premium radiator protection	Light red	200 l	5861 500 405	1
W48 Premium radiator protection	Blue-green	20 l	5861 500 483	1

Continuation Radiator anti-freeze Premium

Type description	Colour	Contents	Art. no.	P. Qty.
W48 Premium radiator protection	Blue-green	60 l	5861 500 484	1
W48 Premium radiator protection	Blue-green	200 l	5861 500 485	1

Please consider the legal instruction at the beginning of this chapter.

Do not mix with other radiator coolants. Store in air-tight containers only.

Radiator anti-freeze Basic

Radiator anti-freeze concentrate for water-cooled vehicle engines

- Good environmental compatibility
- Ensures flawless engine operation
- Corrosion protection, including for non-ferrous base metals

Type description	W20 Basic radiator protection
Colour	Blue
Chemical basis	Ethylene glycol



Contents	Art. no.	P. Qty.
20 l	5861 500 203	1
60 l	5861 500 204	1
200 l	5861 500 205	1

Please consider the legal instruction at the beginning of this chapter.

Do not mix with other radiator coolants. Store in air-tight containers only.

Radiator cleaner

Suitable for all engines

- Removes deposits in the cooling circuit and cleans the cooling system of contamination
- Removes corrosion and sludge deposits in the cooling circuit
- Neutralises lime residues
- Compatible with anti-freeze

Colour	Yellow
Smell/fragrance	Mild
Chemical basis	Water
Shelf life from production	24 Month



Contents	Art. no.	P. Qty.
250 ml	5861 510 250	1/12
1000 ml	5861 510 001	1/12

Please consider the legal instruction at the beginning of this chapter.

The cleaner is not suitable for vehicle operation.

Radiator sealant

Radiator sealant for all engines with cooling systems without filter systems

Permanently seals hairline cracks and leaking areas

Secures the function of the cooling system against water loss.

Avoids loss of coolant

Protects the engine from being damaged.

Does not affect the materials used in the radiator construction

Does not attack rubber or plastic parts.

300 ml is sufficient for 10 litres of coolant

Contents	300 ml
Colour	Green, Blue
Smell/fragrance	Fruity
Chemical basis	Ethylene glycol
Shelf life from production	24 Month

Art. no. 5861 501 300

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Radiator sealant must not be used if the cooling system is equipped with a dirt strainer.



Contact spray SW

Special spray wash

- Cleaner for contacts and electrical components
- Does not attack plastics and standard materials

Contents	200 ml
Colour	Transparent
Smell/fragrance	Characteristic
Chemical basis	Mineral oil
Shelf life from production	24 Month

Art. no. 0893 65

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

SW contact spray must be completely dry before the electrical system is restarted!



Contact spray Oxidation solvent

Spray oxidation solvent

- Cleans all types of contacts
- Removes oxide and sulphide coatings, resin, oil and dirt
- Eliminates „bangs“ as well as impermissible high voltage resistances

Contents	200 ml
Colour	Red
Smell/fragrance	Characteristic
Chemical basis	Mineral oil
Shelf life from production	24 Month

Art. no. 0893 60

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Oxidation solvent contact spray must be completely flashed off before the electrical system is restarted!



Contact spray

Is quick and reliable at rectifying ignition problems

To be used as a preventative measure against ignition problems caused by moisture in vehicles and in other low-voltage ignition systems

Contents	300 ml
Colour	Light yellow
Smell/fragrance	Characteristic
Shelf life from production	24 Month
Chemical basis	Mineral oil

Art. no. 0890 100

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Battery terminal protector

Long-term and temperature-resistant protection for battery terminals

- Protects battery terminals, terminal posts and plug connections against corrosion, weathering and battery acids
- Prevents transition resistance and voltage loss, thus increasing battery life.

Caution: Do not spray on paint! Immediately remove residues from the lacquer with brake cleaner; otherwise spots may form.

Contents	150 ml
Colour	Blue
Smell/fragrance	Solvent-like
Chemical basis	Dimethacrylic acid ether
Shelf life from production	24 Month



Art. no. 0890 104

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Caution: Do not spray on paint! Immediately remove residues from the lacquer with brake cleaner; otherwise spots may form.

Battery terminal grease

Highly adhesive, water-resistant red paste provides long-term protection from oxidation for battery terminals and terminals.



Contents	100 ml
Colour	Red
Smell/fragrance	Hydrocarbon
Shelf life from production	36 Month

Art. no. 0890 104 1

P. Qty.: 1/10

Please consider the legal instruction at the beginning of this chapter.

Starting aid spray Start-Rapid

Rapid engine starting aid for cold starts which are gentle on the battery, with proven combination of active agents

- Helps with starting problems quickly and reliably, particularly in cold and damp weather
- For all 2-stroke and 4-stroke petrol and diesel engines, with and without catalytic converter



Contents	300 ml
Colour	Transparent
Smell/fragrance	Characteristic
Chemical basis	Diethyl ether
Shelf life from production	24 Month

Art. no. 0890 11

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

If the engine does not start after trying 2 or 3 times, check the engine's operational reliability!

Freezer spray

For universal use in repair and assembly work and for troubleshooting

- Spray produces localised cooling down to -50°C
- Non-flammable!
- Generates a targeted thermal overload

Contents	200 ml
Colour	Colourless
Shelf life from production	24 Month

Art. no. 0890 001 200

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Meets EU regulation (EU no. 517/2014)



Vessel filler

For supplementing the air cushion in membrane expansion vessels (MEV)

Prevents corrosion in the MEV

Container	Can
Contents	400 ml
Pressure	5.5 bar
Conditions for pressure	at 20°



Design	Art. no.	P. Qty.
Flammable	0890 20 501	1/12
Non-flammable	0890 20 502	1/12

Lime remover

Cleaner that dissolves lime, limescale and rust for water-conducting systems with colour indicator

- Colour indicator shows when the descaler is exhausted
- Can be used for all water-conducting systems
- Can also be used as lime remover immersion bath for parts

Contents	5 l
Smell/fragrance	Characteristic
Colour	Red
pH value	0.4
AOX-free	Yes
Silicone-free	Yes



Art. no. 0893 78

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

The lime remover must not directly enter the sewerage system or the ground. The system should be re-filled with water as quickly as possible to prevent atmospheric corrosion. Rinse well with water after use. Carry out preliminary tests on unfamiliar surfaces where necessary.

Calcification protection Limestop

For hot-water, high-pressure cleaners

- Reliably prevents lime deposits in parts conducting warm and hot water
- Tested and approved by Kärcher
- Economical (6 ml per °dH and m³)
- Separates easily
- Does not impair the efficiency of the cleaning agent being used
- Can be used at temperatures of up to 140°C

Contents	1 l
Smell/fragrance	Odourless
Colour	Brownish
pH value	4.3
Silicone-free	Yes
Phosphate-free	Yes



Art. no. 0893 030 0

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Store in a frost-free place

Silicone remover

For professional cleaning and degreasing before applying adhesives or painting

Product features high cleaning power and long flash-off time

Contents	600 ml
Container	Spray can
Smell/fragrance	Characteristic
Chemical basis	Naphtha
Shelf life from production	24 Month



Art. no. 0893 222 600

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Silicone remover

Professional cleaning and degreasing before applying adhesives or painting.

- High level of cleaning power and long flash-off time
- Ideal for cleaning plastic

Smell/fragrance	Mild
Chemical basis	Naphtha
Shelf life from production	24 Month



Contents	Container	Art. no.	P. Qty.
1 l	Can	0893 222	1/12
5 l	Plastic canister	0893 222 5	1
20 l	Tinplate canister	0893 222 20	1

Please consider the legal instruction at the beginning of this chapter.

Flammable liquids, Category 3; specific target organ toxicity – one-off exposure, Category 3, central nervous system; specific target organ toxicity – repeated exposure, Category 1, central nervous system; aspiration hazard, Category 1; chronic aquatic toxicity, Category 2

Silicone spray

Ensures long-lasting protection, preservation and insulation of vehicle exterior and interior plastic, rubber and metal parts; good lubricating properties

- Plastic parts retain a high-gloss finish and do not become brittle
- Rubber parts are protected, do not become brittle and do not freeze or stick
- Protects electrical contacts against moisture

Chemical basis	Mineral oil
Min./max. temperature conditions	-5 to 40 °C



Contents	Container	Shelf life from production	Density/conditions	Art. no.	P. Qty.
5 l	Canister	24 Month	0.74 g/cm ³ /at 20°C	0893 221 05	1
20 l	Canister	12 Month	0.735 g/cm ³ /at 20°C	0893 221 520	1
500 ml	Spray can	24 Month	0.61 g/cm ³ /at 20°C	0893 221	1/12/24

Please consider the legal instruction at the beginning of this chapter.

Silicone spray Silicon fluid

High-quality, physiologically safe anti-friction and release agent

Contains highly concentrated, high-quality silicone oils

- Optimum sliding and lubricating properties
- Prevents sticking and wear
- Eliminates unpleasant squeaking noises

Extremely high degree of temperature resistance from -50 °C to +250 °C

Contents	0.4 l
Chemical basis	Physiologically harmless synthetic oil
Shelf life from production	24 Month
Density/conditions	0.785 g/cm ³ /Active substance, 20 °C
Min./max. temperature conditions	-50 to 250 °C

Art. no. 0893 221 000

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

NSF H1-registered (no.: 135927), meets the requirements of USDA 1998 H1.



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

NSF H1

The product may come into contact with foodstuffs for technical reasons.

If used in areas in which food is processed or stored, only the minimum quantity technically required may be used. If the product is to be used as an anti-corrosive film, it must completely be removed before the device in question is used again.



Metal restorer

Powerful metal grinding paste for removing the most stubborn dirt on metal. NSF-certified.

- Contains activated citric acid
- Natural aluminium oxide is used as an abrasive substance
- Protective additives with moisturising properties

Contents	286 ml
Colour	White
pH value	1.6
Smell/fragrance	Characteristic
Shelf life from production	24 Month
Container	Plastic bottle



Continuation **Metal restorer**

AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes

Art. no. 0893 121 1

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

NSF A1-registered (no.: 135792), meets the requirements of USDA A1



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

Avoid direct contact with food. Do not use on anodised aluminium, galvanised or painted surfaces.

Recommendation: Pre-clean using stainless steel power cleaner, art. no. 08931212. Stainless steel care oil, art. no. 08931210, optimises the cleaning and care effect, thereby providing a perfect surface finish.

Mohs scale of hardness:

- Talc 1
- Gypsum 2
- Apatite 5
- Quartz 7
- Aluminium oxide (abrasive) 8
- Sapphire 9
- Diamond 10

Stainless steel care oil

Quick visual enhancement of metallic surfaces

- Removes light soiling, dust, cleaning marks and greasy finger prints
- Produces an even glossy surface
- Water-repellent protective film prevents surface from becoming resoled

Chemical basis	Aliphatic hydrocarbon
Smell/fragrance	Characteristic
Colour	Grey
AOX-free	Yes
Silicone-free	Yes
Shelf life from production	24 Month
Contents	400 ml



Art. no. 0893 121 0

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

NSF A7 registered (no.: 152466), corresponds to A7 requirements.

Tested for use in areas where food is processed or stored. Avoid contact with food. Do not spray on hot surfaces or use in direct sunlight.

Stainless steel care spray

Cleaning care emulsion for metallic surfaces

Nurturing, creamy emulsion with cleaning effect

- Dirt, cleaning and wiping marks and greasy, oily finger prints are thoroughly removed
- Can be used on vertical surfaces

Chemical basis	Medic white oil with synthetic oils
Smell/fragrance	Characteristic
Colour	White
pH value	10.2
Bio-degradable	Yes
AOX-free	Yes
Silicone-free	Yes
Shelf life from production	24 Month
Contents	400 ml



Art. no. 0893 121

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Do not spray on hot surfaces or use in direct sunlight.

Stainless steel power cleaner

Special cleaning fluid for pre-cleaning metal surfaces. NSF-certified.

Powerful removal of oil and grease

- Dirt such drilling and cutting oils, dust and other machining residues are thoroughly removed
- Optimum preparation for further renovation, cleaning and care
- Long-lasting

Biodegradable > 95%

Chemical basis	Butoxyethanol
Smell/fragrance	Characteristic
Colour	Colourless
pH value	9.3
Density	1.01 g/cm ³
Shelf life from production	24 Month
AOX-free	Yes
Silicone-free	Yes



Continuation **Stainless steel power cleaner**

Contents	Container	Art. no.	P. Qty.
5 l	Canister	0893 121 205	1
500 ml	Spray bottle	0893 121 2	1/12

Please consider the legal instruction at the beginning of this chapter.

NSF A1-registered (no.: 135874), meets the requirements of USDA A1



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

Avoid direct contact with food.

Stainless steel cleaning cloth

For simple, fast cleaning and polishing of metal surfaces. NSF-certified

- Effortlessly and gently removes stains, grease, fingerprints, deposits and heavy soiling
- Cleaning (coarse side) and polishing (soft side) in one product
- Prevents water stains and corrosion



Chemical basis	Aliphatic hydrocarbon
Smell/fragrance	Lemon
AOX-free	Yes
Shelf life from production	24 Month
Number of cloths	30 PCS
Width x length	27 cm x 32 cm

Art. no. 0893 121 30

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

NSF C1-registered (no. 150177), corresponds to C1 requirements.



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

Glass cleaner

For streak-free, thorough cleaning.

- Environmentally friendly, awarded the European Ecolabel
- Gentle on materials
- Removes finger prints, dust, dirt from the road, nicotine stains and wax residue from car washes



Chemical basis	Water tenside
Smell/fragrance	Characteristic
Colour	Green
pH value/conditions	8/at 20°C
Density/conditions	0.982 g/cm ³ /at 20°C
Shelf life from production	60 Month
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes

Contents	Container	Art. no.	P. Qty.
500 ml	Spray bottle	0890 220 01	1/12
5000 ml	Canister	0890 220 02	1

Please consider the legal instruction at the beginning of this chapter.



Do not use on hot surfaces or in direct sunlight.

Graffiti remover

Graffiti-EX for smooth, non-absorbent outdoor surfaces

- The problem solver for heavy graffiti covering large areas, particularly on painted surfaces.
- Very high cleaning performance
- With special paint dissolvers
- Gentle on materials and surfaces

Contents	500 ml
Smell/fragrance	Fruity
Chemical basis	2-methoxy-1-methylethyl acetate



Art. no. 0893 135

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Prior to application, always check material compatibility and colour fading first in an invisible area, by applying graffiti remover with a cloth.

No façade cleaning (concrete/stone)

Graffiti remover

Graffiti-EX for smooth, non-absorbent indoor surfaces

- The problem solver for graffiti on sensitive surfaces.
- Very high cleaning performance
- With special colour dissolvers
- Gentle on materials and surfaces
- Wide application range
- AOX-free
- Silicone-free

Contents	500 ml
Smell/fragrance	Fruity
Chemical basis	Aliphatic hydrocarbon



Art. no. 0893 136

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Prior to application, always check material compatibility and colour fading first in an invisible area, by applying graffiti remover with a cloth.

No façade cleaning (concrete/stone)

Graffiti remover Graffiti-EX special

Graffiti and chewing gum remover for upholstery and textiles

- Effectively removes varnish, paint and felt-tip graffiti
- Protects materials and surfaces
- Short drying times on account of low residual moisture
- Ideal for gentle removal of chewing gum on a variety of surfaces
- AOX and silicon-free

Contents	500 ml
Smell/fragrance	Fruity
Chemical basis	Aliphatic hydrocarbon



Art. no. 0893 137

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Prior to application, always check material compatibility and colour fading first in an invisible area, by applying graffiti remover with a cloth.

Mould remover

For quick and thorough removal of mould, green coverings, mildew spots, bacteria and algae

- Immediate and sustained action of the active chlorine
- Hygienic has a disinfectant effect
- Removes mould permanently and works as preventative measure
- Versatile applications suitable for inside and outside

Contents	1 l
Chemical basis	Sodium hypochlorite
Colour	Transparent, yellowish
Smell/fragrance	Chlorine
Min. processing temperature	5 °C
Shelf life from production	60 Month

Art. no. 0890 970

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Do not use in combination with other products, as dangerous gases may be released. A slight chlorine odour is released during application. Due to the bleaching effect of active chlorine, sensitive and coloured surfaces (e.g. wallpaper, carpets, textiles, wood and metal) may lose their colour on the surface.

Take care when using biocidal products. Always read the label and product information before use.



Deodoriser Quick Fresh Turbo

For effectively controlling interior odours

Suitable for use in

- e.g. cars, HGVs, motorhomes/caravans, buses and trains, public areas such as fitness studios, hotel rooms and sanitary facilities etc.
- Also suitable for home and leisure
- One-shot application
- Chargeable unit – one can for one application

Contents	40 ml
Container	Aerosol can in a display box
Smell/fragrance	Fruity
Chemical basis	Perfume oil composition, ethanol, LPG
Shelf life from production	24 Month

Art. no. 0893 764 640

P. Qty.: 12

Please consider the legal instruction at the beginning of this chapter.

- All electrical devices must be switched off during application.
- Avoid ignition sources.
- Ventilate the area well for several minutes after use.
- Do not smoke inside the area straight after application.
- Use only one can per application.
- Preliminary tests are essential before use, particularly in the case of light surfaces.



Continuation **Deodoriser Quick Fresh Turbo** **Disinfectant surface cleaner**

Reliable at fighting microbes, bacteria, viruses and fungi

- Disinfects, cleans, protects
- No stains
- Silicone-free



Chemical basis	Water, ethanol and propanol
Smell/fragrance	Alcohol
Colour	Colourless
Silicone-free	Yes

Contents	Weight of content	Bio-degradable	Art. no.	P. Qty.
1 l	864.8 g		0893 764 01	1/12
5 l	4.5 kg	Yes	0893 764 05	1

Please consider the legal instruction at the beginning of this chapter.

Take care when using biocidal products. Always read the label and product information before use.

Oil binder Road

Non-slip granulate for mopping up oily and aqueous substances on solid substrates and road surfaces

Highly absorbent, quick-acting

- Less material is used, which means reduced disposal costs
- 1 kg of oil binder granulate binds approx. 1.01 litres of oil (Westinghouse)
- The fine capillary system of the granulate encapsulates the absorbed material and does not release it again



Universal use

- Suitable for all liquids, including leaks of acids, alkalis, AdBlue and water
- Suitable for indoor and outdoor use

Chemical basis	Diatomaceous earth (moler)
Oil absorber type	Oil absorber type III/R
Design	Granules/calcinated (baked)
Straßen-Rutsch-Test (German road slip test)	0 %
Shelf life from production	24 Month

Contents	Art. no.	P. Qty.
20 l	0890 61	1
40 l	0890 610 000	1

Please consider the legal instruction at the beginning of this chapter.

Disposal takes place in accordance with the applicable specifications for the respective liquid either using a waste disposal site or an incinerator. Not suitable for hydrofluoric acid!

Oil binder Extreme

Organic, water-repellent and non-slip universal binding agent for all applications and scenarios.

- Particularly suitable for hydrocarbon-based liquids such as heating and automotive fuels, oils, oil-based varnishes, paints and hydraulic fluids, and organic chemicals.
- Absorbs up to 5–8 times its own weight or more than two-thirds of its volume
- 100% organic oil binder; biodegradable before use

Contents	50 l
Oil absorber type	Oil absorber type I, Oil absorber type II, Oil absorber type III/R
Design	Slip-resistant
Straßen-Rutsch-Test (German road slip test)	4 %



Art. no. 0890 610 050

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



The absorption performance depends on the substance to be absorbed; the binding agent may also need to be worked in, e.g. using a broom.

Oil binding cloth

For absorbing oils and chemicals

- Load capacity is 25 times the tare weight
- Extremely absorbent, no leakage
- Only absorbs oils and hydrocarbon-based liquids (oleophilic) – does not absorb water

Material	PP - Polypropylene
Colour	White
Length x width	46 x 38 cm
Number of cloths	100 PCS



Art. no. 0899 900 210

P. Qty.: 25/100

Please consider the legal instruction at the beginning of this chapter.

Oil binder Basic

Water-repellent material for wiping up oily substances easily.

- Extremely high absorbency
- Water-repellent – therefore also suitable for use in water
- Flash point: 300°C
- Can be stored indefinitely

Contents	50 l
Oil absorber type	Oil absorber type I, Oil absorber type II, Oil absorber type III
Straßen-Rutsch-Test (German road slip test)	8 %



Art. no. 0890 6

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

After use, the oil binder is toxic waste and must be properly disposed of at a facility intended for this purpose. Not suitable for hydrofluoric acid.

Cleaning cloth, textile

For picking up coarse dirt, oils, greases, coolants and solvents

- Material: Reclaimed cotton, polypropylene, polyester

Container	Carton
Number of cloths	250 PCS
Length x width	37 x 34 cm
Colour	Dark multi coloured



Art. no. 0899 800 200

P. Qty.: 1



Cleaning paper ECO LINE

The all-rounder for the most common cleaning tasks

- Fits all common dispensers
- Highly absorbent and virtually lint-free
- High absorption capacity and tear-resistant

Design	Roles ware
--------	------------

Number of plies	Sheet length x sheet width	Length of roll	Art. no.	P. Qty.
2 PCS	36 x 22 cm	504 m	0899 800 290	2
2 PCS	36 x 22 cm	846 m	0899 800 511	2
2 PCS	36 x 38 cm	360 m	0899 800 773	2
3 PCS	36 x 38 cm	180 m	0899 800 850	2
3 PCS	36 x 38 cm	360 m	0899 800 823	2

Cleaning paper

Ideal for mopping up liquids, removing moist waste or cleaning tools and machine parts of oils and greases

- Highly absorbent
- Virtually lint-free
- High absorption capacity and tear-resistant
- Fits all common dispensers and our dispenser box with centre-feed dispenser



Design	Roles ware
Number of sheets	865 PCS
Number of plies	1 PCS
Sheet length x sheet width	30 x 19 cm
Length of roll	260 m

Art. no. 0899 800 653

P. Qty.: 6

Please consider the legal instruction at the beginning of this chapter.



Paper towel

Z fold in zigzag folding

- 1 box of 2790 towels (15 pack, 186 towels per pack)
- 2-ply

Colour	White
Number of plies	2 PCS
Width	210 mm
Length	215 mm



Art. no. 0993 997 085

P. Qty.: 1

Universal cleaning cloth

For thorough and fast cleaning of most surfaces without the need for water, soap or a brush. NSF-certified.

- Ideal for mobile, every-day use
- Thorough and gentle at removing even the heaviest types of soiling such as oils, greases, adhesives, paints, tar and lubricants
- Cleans and cares for hands too

Smell/fragrance	Orange
Shelf life from production	30 Month
Number of cloths	90 PCS
Width x length	27 cm x 32 cm



Art. no. 0890 900 90

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

NSF-certified: Nonfood Compounds Program Listed C1 (150555).



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Caution: Not suitable for cleaning visors!

Cleaning cloth Tex-Soft

Reusable all-round textile wiping cloth is suitable for wet and dry wiping processes

- Can be used as a polishing cloth, leaves no scratch marks
- Can be washed, wrung out and used again
- Extremely tear-resistant and water-resistant



Colour	White
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Container	Design	Number of cloths	Sheet length x sheet width	Coating weight per m ²	Art. no.	P. Qty.
Format cloth	Layers folding	500 PCS	38 x 29 cm	65 g	0899 800 901	1
Polybag	Zickzack-folding	100 PCS	42 x 38 cm	62 g	0899 800 909	1/5
Roll	Roles ware		38 x 29 cm	50 g	0899 800 902	2
Roll	Roles ware		38 x 40 cm	65 g	0899 800 900	1

Please consider the legal instruction at the beginning of this chapter.

Cleaning cloth Tex-Rein

Extra fine cleaning cloth for dust and lint-sensitive areas

- Colourfast – no colour bleeding
- Can be washed, wrung out and reused
- Extremely tear-resistant and water-resistant
- Highly absorbent and lint-free



Container	Disposable dispenser
Design	Layers folding
Number of cloths	150 PCS
Sheet length x sheet width	38 x 27 cm
Coating weight per m ²	69 g

Continuation **Cleaning cloth Tex-Rein**

Colour	Turquoise
Sheet length	38 cm
Sheet width	27 cm

Art. no. 0899 810

P. Qty.: 1/4

Please consider the legal instruction at the beginning of this chapter.

Zigzag fold cleaning cloth Tex-Vlies

Cleaning cloth for heavily soiled areas

- Perforated tear-off
- Can be wrung out and reused
- Highly tear-proof when wet and dry
- Solvent resistant

Container	Roll
Design	Roles ware
Sheet length x sheet width	38 x 25 cm
Coating weight per m ²	135 g
Colour	Light multi coloured, White coloured
Number of tear-offs	250 PCS
Sheet length	38 cm
Sheet width	25 cm

Art. no. 0899 800 210

P. Qty.: 2

Please consider the legal instruction at the beginning of this chapter.



Cleaning cloth Tex-Wipe

For lint-free cleaning of surfaces in the automotive, metalworking and painting sectors.

- Suitable for painted, metal and smooth wooden surfaces
- Removes water, oil and grease stains
- Very absorbent
- Durable and robust
- Low lint
- Silicone-free
- Resistant to acids, bases and solvents in certain cases

Container	Roll
Design	Roles ware
Sheet length x sheet width	32 x 38 cm
Coating weight per m ²	80 g
Colour	Blue
Number of tear-offs	500 PCS



Sheet length	32 cm
Sheet width	38 cm

Art. no. 0899 800 880

P. Qty.: 1

The cleaning cloth has excellent resistance to the majority of commercially available solvents and is resistant to acids and bases in certain cases.

Cleaning cloth Tex-Polish

Special cleaning cloth for paint treatment and after polishing

- Fine hole structure for perfect polishing performance
- Washable and can be wringed out
- Highly tearproof, waterproof and abrasion-resistant
- Extremely absorbent

Container	Disposable dispenser
Design	Layers folding
Number of cloths	150 PCS
Length x width	40 x 38 cm
Coating weight per m ²	40 g
Colour	White



Art. no. 0899 811

P. Qty.: 1/4

Please consider the legal instruction at the beginning of this chapter.

Screen cleaning cloths

Impregnated disposable cloths for streak-free and gentle cleaning of laptop and flat screens of all kinds

- Non-alcoholic formula
- Anti-static effect
- Effortlessly removes dust, dirt and fingerprints

Chemical basis	Water
Smell/fragrance	Characteristic
AOX-free	Yes
Shelf life from production	24 Month
Number of cloths	100 PCS
Width x length	130 mm x 200 mm



Art. no. 0890 150 000

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

- Check the colour fastness/material compatibility in an inconspicuous spot before use.
- Use a dry cloth to finish off smartphones, tablets, E-readers.

Big microfibre car cloth

High-performance microfibre cloth for drying after wet cleaning in the automotive sector

- Extreme water absorption and enormous suction power (up to 500%)
- For quick, simple, gentle drying and high-gloss polishing
- Stitch-free, protects against scratches



Material	Microfibre
Length x width	50 x 70 cm
Coating weight per m ²	412 g
Colour	Grey

Art. no. 0899 900 135

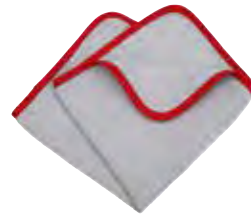
P. Qty.: 2

Please consider the legal instruction at the beginning of this chapter.

Microactive cloth 3D Clean

Thorough and gentle cleaning thanks to 3D honeycomb structure

- Extremely high level of water absorption
- Lint-free
- Scratch-free
- Streak-free
- Perfect high-gloss finish



Material	Microfibre
Length x width	40 x 40 cm
Colour	Red, Grey

Art. no. 0899 900 141

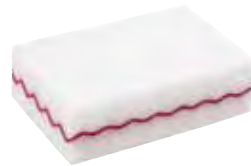
P. Qty.: 3

Washable up to 60°C, do not use fabric conditioner. Care should be taken when cleaning acrylic glass.

Cleaning sponge Red Wave

Cleaning without chemicals. Cleaning sponge with eraser effect for stubborn dirt on smooth and hard surfaces. Absolute problem solver in the workshop and in the household.

- Clean heel marks on floors, pen marks and calcified surfaces
- The eraser effect of the melamine cleaning sponge allows stubborn dirt to be cleaned effortlessly with no chemicals, only water.
- Longer service life
- Due to its unique, reinforced structural construction, the sponge is very robust. Professional quality from industry.



Material	Melamine resin foam
Colour	White
Length x width x height	110 x 70 x 30 mm

Art. no. 0587 110 000

P. Qty.: 10

Please consider the legal instruction at the beginning of this chapter.

The cleaning sponge is not suitable for processing paints.

Cleaning cloth Tex-Clean

The fine, multi-purpose special cloth for dust- and lint-sensitive areas in practical dispenser packaging.

- Practical zigzag fold for easy removal
- Highly absorbent
- Highly tearproof, waterproof and abrasion-resistant

Container	Polybag
Design	Zickzack-folding
Number of cloths	140 PCS
Sheet length x sheet width	42 x 38 cm
Coating weight per m ²	67 g
Colour	Grey
Sheet length	42 cm
Sheet width	38 cm



Art. no. 0899 810 140

P. Qty.: 1/5

Please consider the legal instruction at the beginning of this chapter.

Wall bracket

Zigzag folded cleaning cloth dispenser holder

- Robust metal body
- Includes fastening material

Length x width x height	130 x 415 x 145 mm
-------------------------	--------------------



Art. no. 0899 810 00

P. Qty.: 1

Cleaning paper stand

Floor stand for cleaning paper rolls with wheels and waste bag holder

- Stable and durable
- Suitable for all common wiper and cleaning rollers

Material	Plastic/metal
Design	With wheels and rubbish bag holder
Width	56 cm



Continuation **Cleaning paper stand**

Height	88 cm
Depth	68 cm
Roll width	38 cm

Art. no. 0899 800 606

P. Qty.: 1

Wall-mounted roll holder

For cleaning paper rolls with waste bag holder

- Stable and durable
- Suitable for all common wiper and cleaning rollers

Material	Plastic/metal
Colour	Red
Width	50 cm
Depth	32 cm
Height	63 cm
Roll width	38 cm

Art. no. 0899 800 607

P. Qty.: 1



Table-top roll holder

For cleaning paper

- Stable and durable
- Suitable for all common wiper and cleaning rollers

Material	Plastic/metal
Colour	Red
Width	53 cm
Depth	33 cm
Height	24 cm
Roll width	38 cm

Art. no. 0899 800 609

P. Qty.: 1



Please consider the legal instruction at the beginning of this chapter.

3-ply toilet paper

Particularly soft, yet tear-resistant and secure.

- Soft and gentle
- Highly absorbent
- Tear-resistant
- Environmentally friendly



Design	Roles ware
Number of rolls	72 PCS
Width	9.5 cm
Length	27.5 m
Number of plies	3 PCS
Number of sheets	250 PCS
Length of roll	27.5 m
Colour	White

Art. no. 0899 900 250

P. Qty.: 72



Combination sponge

The combination sponge has two different sides, making it optimal for windscreen cleaning.

Composite material

- Hard, yellow side loosens coarse dirt
- Brown side absorbs fine dirt



Material	Polyurethane foam
Colour	Yellow, Brown
Length x width x height	140 x 90 x 60 mm
Form	Rectangular

Art. no. 0899 700 410

P. Qty.: 10

Please consider the legal instruction at the beginning of this chapter.

Pressing sponge

For gentle cleaning of all surfaces



Length x width x height	Form	Art. no.	P. Qty.
135 x 93 x 37 mm	Rectangular	0705 700 130	10
195 x 85 x 60 mm	Half-round	0705 700 131	10

Please consider the legal instruction at the beginning of this chapter.

Hydro sponge

For pre-cleaning, final cleaning of tiles and for jointing tasks

- Open cell structure
- Highly resistant to tearing and abrasion
- Absorbs water well



Material	Polyurethane foam
Length x width x height	16.5 x 11 x 6.5 cm
Form	Rectangular

Art. no. 0899 700 420

P. Qty.: 5

Please consider the legal instruction at the beginning of this chapter.

TFT/LCD cleaner

Special cleaner for sensitive surfaces based on renewable raw materials

- Easy and economical to use
- No stress cracking during application
- Made from renewable raw materials, especially skin-friendly and completely biodegradable

Contents	200 ml
Colour	Colourless
Shelf life from production	24 Month

Art. no. 0890 150 100

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Do not use on hot or warm TFT/LCD screens and make sure when spraying that no liquid runs into the edge of the frame.



Compressed air spray

Effortlessly removes dust in hard-to-reach areas

- Non-flammable!
- Can be used in low-voltage areas meeting VDE 0100 (voltage range: <50 V (AC), <120 V (DC)) even while energised.
- Easy to use and universal application

Contents	200 ml
Colour	Colourless
Chemical basis	Tetrafluorpropene
Shelf life from production	36 Month

Art. no. 0893 620 200

P. Qty.: 1/24

Please consider the legal instruction at the beginning of this chapter.

Do not spray into your eyes, mouth or body orifices. Do not spray on hot components.

Meets EU regulation (EU no. 517/2014)



Assembly cleaner Parts cleaner liquid

VOC-free cleaning liquid for the PARTS CLEANER parts washing device and pump spray bottle. NSF-certified.

- Good dissolving power on greases and oils
- Forms a temporary anti-corrosion layer
- Excellent cleaning power
- Good material compatibility
- Separates quickly in waste water in line with German Ecological Standard Test B 5105
- AOX-free and VOC-free

Contents	25 l
Colour	Light yellow

Art. no. 0995 000 001

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

NSF A1-registered (no.: 150221), corresponds to A1 requirements



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Ready-to-use solution. Do not store at temperatures below 5°C!

Recommended waste code number for used cleaner: 070601.



Cleaning table Parts Cleaner

Environmentally friendly parts cleaning for dealership and vehicle workshops.

- Cleaning liquid heated to 42 °C
- Easy and user-friendly operation
- Robust design



Height	122 cm
Width	102 cm
Working height	95 cm
Contents	100 l

Art. no. 0995 000 000

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Please read the operating manual in full and strictly observe the instructions therein before commissioning the device. Do not use solvents or highly alkaline or acidic media. Be sure to avoid carrying over flammable solvents (carburettor fuel/petrol). Residual current circuit breaker for additional protection included in scope of delivery. The device automatically switches off when the minimum fill level is reached (level switch).

Recommended waste code number for used cleaner: 070601.

Cleaning agent Rapid Cleaner

Concentrated multi-purpose cleaner with very good grease and oil dissolving power in 200 litre disposable drum



Contents	200 l
Container	Barrel
Smell/fragrance	Characteristic
Chemical basis	Naphtha

Art. no. 0995 2

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

We are happy to dispose of your cold cleaner in an environmentally friendly way in conjunction with our disposal partners.



Hand cleaner N-Plus tub

Microplastics-free hand cleaner for medium to heavy soiling with natural perlite exfoliating agents. For dispenser system art. no. 0891901

- Cleans and nourishes
- Prevents skin irritations thanks to a high proportion of substances with a prophylactic effect
- pH-neutral and soap-free
- Dermatologically tested

Contents	4000 ml
Smell/fragrance	Lemon
Colour	Grey
Performance (points system)	3 of 5 points
pH value	4.8



Art. no. 0893 900 001

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Hand cleaner N-Plus tube

Microplastics-free hand cleaner for medium to heavy soiling with natural perlite exfoliating agents

Gentle on the skin

- Cleans and nourishes
- Prevents skin irritations thanks to a high proportion of substances with a prophylactic effect
- pH-neutral and soap-free
- Dermatologically tested

Contents	350 ml
Smell/fragrance	Lemon
Colour	Grey
Performance (points system)	3 of 5 points
pH value	4.8



Art. no. 0893 900 012

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Hand cleaner N-Plus refill pouch

Microplastics-free hand cleaner for medium to heavy soiling with natural perlite exfoliating agents.

- Cleans and protects
- High proportion of substances with prophylactic effect prevent skin irritation
- pH-neutral and soap-free
- Dermatologically tested
- Alkali-free and silicone-free

Contents	3500 ml
Smell/fragrance	Lemon
Colour	Grey
Performance (points system)	3 of 5 points
pH value	4.8



Art. no. 0893 900 103

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Hand cleaner Basic

Hand cleaner for light to heavy soiling with natural exfoliating particles

- Kind to skin
- Biodegradable, wood-based exfoliating agent
- Alkali-free, solvent-free and silicone-free

Contents	10 l
Smell/fragrance	Lemon
Colour	Light brown
Performance (points system)	2 of 5 points
pH value	5.5



Art. no. 0893 900 015

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Cream soap, sensitive

Stand-alone dispenser can be placed right next to the sink

- Hand wash made from mild ingredients that are kind to skin
- Moisturising plant extracts protect and nourish stressed skin
- pH balanced and dermatologically tested

Contents	500 ml
Smell/fragrance	Neutral
Colour	White
Performance (points system)	1 of 5 points
pH value	4.8



Art. no. 0890 600 742

P. Qty.: 12

Please consider the legal instruction at the beginning of this chapter.

Hand cleaner Plus

Hand cleaner for medium to heavy soiling with a balanced blend of natural and PU abrasives in a practical inverted bottle.

Gentle on the skin

- Cleans and protects
- High proportion of substances with prophylactic effect prevent skin irritation
- pH-neutral and soap-free
- Dermatologically tested
- Inverted bottle ensures complete emptying
- Alkali-free and silicone-free



Contents	350 ml
Smell/fragrance	Lemon
Colour	Beige
Performance (points system)	3 of 5 points
pH value	6.5



Art. no. 0893 900 01

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Hand and nail brush

With bristles of different thicknesses for effective, gentle manual cleaning.

- Bristles of differing strengths
 - The hard plastic bristles remove heavy contamination
 - The soft natural bristles protect the nail bed
- Bristles made of polypropylene and natural hair
- High-quality waxed wood



Material	Wood
Material of the bristles	Polypropylene and natural bristle mix
Length	93 mm
Width	36 mm
Height	42 mm

Art. no. 0891 350 510

P. Qty.: 5

Please consider the legal instruction at the beginning of this chapter.

Dispenser system

Pressure pump with wall bracket for hand cleaner

Practical dispensing pump

- The pressure pump transports the hand cleaner as soon as the pump is pressed
- Exact dispensing by pumping once (6 cm³)

Total height: 40 cm

Material	Plastic/metal
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Art. no. 0891 901

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Washroom dispenser, manual

Dispenser with press lever for the washroom. For dosing soap and disinfectant.

Length	150 mm
Width	122 mm
Height	390 mm
Colour	White

Art. no. 0891 900 502

P. Qty.: 1



Dispenser system, manual SKIN LINE

Dispenser with press lever. For dispensing skin protection, cleaning and care products in the workshop

- Robust dispenser designed specifically for the requirements of workshops in a dark, dirt-resistant design
- Efficient and cost effective
- Maximum hygiene

Width	122 mm
Height	390 mm
Length	150 mm
Colour	Black, Grey

Art. no. 0891 900 500

P. Qty.: 1



Touchless dispenser system SKIN LINE

Electric dispenser for touch-free dosing of skin protection, cleaning and care products in the workshop

**Touch-free dosing and maximum hygiene
Practical rail system**

Width	122 mm
Height	340 mm
Length	115 mm
Colour	Black, Grey

Art. no. 0891 900 501

P. Qty.: 1



Liquid soap

Skin-friendly and mild soap for light soiling. For dispenser systems 0891900502 and 0891900503

- Fragrance and dye-free
- Alkali and soap-free
- pH-neutral, gentle on skin and dermatologically tested

Contents	1000 ml
Smell/fragrance	Odourless
Colour	Colourless
Performance (points system)	1 of 5 points
pH value/conditions	5/undiluted

Art. no. 0890 600 400

P. Qty.: 1/6



Please consider the legal instruction at the beginning of this chapter.



Washing and shower gel

For SKIN dispenser, art. no. 0891 900 5. Mild cleaning gel for sensitive skin. Also suitable for washing hair.

Gentle and effective cleaning for hair and skin

- Advanced ingredients and lipid-replenishing effect
- Suitable for sensitive skin
- Adapts to the natural pH value of human skin
- Soap-free
- Dermatologically tested

Alkali-free and silicone-free

Contents	2000 ml
Smell/fragrance	Perfumed
Colour	Blue
Performance (points system)	1 of 5 points
pH value/conditions	5.8-6.8/at 20°C



Art. no. 0890 600 601

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Skin protection foam

Wash-off skin protection foam prevents soiling by water-soluble and insoluble substances.

Effective protective film between skin and penetrating substances

- Prevents adhesion of dirt through dirt-bonding emulsifiers
- Waterproof

Forms a dry, elastic, touch-proof protective film

- Non-slip gripping of tools
- Leaves no annoying residue on workpieces or tools

Food safe

Dermatologically tested

Contents	200 ml
Smell/fragrance	Characteristic
Colour	White
Performance (points system)	3 of 5 points
pH value/conditions	8.5/at 20°C



Art. no. 0890 600 102

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

This product is not a substitute for any prescribed protective measures such as gloves or similar items.

Basic skin protection cream

Wash-off skin-protection cream prevents soiling by insoluble substances.

- Effective protective film between skin and penetrating substances
- Forms a dry, elastic, touch-proof protective film
- Simplifies skin cleaning
- Very economical to use
- Free from preservatives and silicone
- Dermatologically tested and bio-degradable



Contents	1000 ml
Smell/fragrance	Characteristic
Colour	White
Performance (points system)	3 of 5 points
pH value/conditions	9.7/1% solution



Art. no. 0890 600 100

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Does not provide protection when working with water or systems mixed with water, such as cooling lubricants. This product is not a substitute for any prescribed protective measures such as gloves or similar items.

Skin protection lotion Special

Wash-off skin protection lotion to prevent soiling by water-soluble and non-water-soluble substances, sealants in particular.

Effective protective film between skin and penetrating substances

- Reduces contact with working substances that are harmful to skin
- The skin's functions are not affected

Forms a dry, elastic, touch-proof protective film

- Non-slip gripping of tools
- Leaves no annoying residue on workpieces or tools

Long-lasting

Dermatologically tested



Contents	200 ml
Smell/fragrance	Pleasant
Colour	White
Performance (points system)	5 of 5 points
pH value/conditions	7.6/at 20°C

Art. no. 0893 152

P. Qty.: 1/24

Please consider the legal instruction at the beginning of this chapter.

This product is not a substitute for any prescribed protective measures such as gloves or similar items.

Skin protection lotion Combination

For SKIN dispenser, art. no. 0891 900 5. Wash-off skin protection lotion to prevent soiling by water-soluble and non-water-soluble substances.

One product for forming a barrier against both water-soluble and non-water-soluble substances

- Effective protective film between skin and reacting agents
- Particularly suitable when alternating agents regularly
- No impairment of skin functions
- Owing to the active agent witch hazel, swelling of the skin is reduced when wearing air-sealing gloves

Forms a dry, elastic, touch-proof protective film

- Non-slip gripping of tools
- Leaves no annoying residue on workpieces or tools

Silicone-free and dermatologically tested

Contents	1000 ml
Smell/fragrance	Perfumed
Colour	White, Grey
Performance (points system)	5 of 5 points
pH value/conditions	7/at 20°C

Art. no. 0890 600 108

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

This product is not a substitute for any prescribed protective measures such as gloves or similar items. Please use the small, pre-punched removable label on the front to identify the contents of your SKIN dispenser system.



Skin protection lotion Ultra

For SKIN dispenser, art. no. 0891 900 5. Wash-off skin protection lotion to prevent soiling by non-water-soluble substances.

Effective protective film between skin and working materials

- Prevents adhesion of dirt through dirt-bonding emulsifiers
- Skin functions are not affected

Forms a dry, elastic, touch-proof protective film

- Non-slip gripping of tools
- Leaves no annoying greasy residue on workpieces or tools

Silicone-free and grease-free

Dermatologically tested

Contents	1000 ml
Smell/fragrance	Perfumed
Colour	White
Performance (points system)	4 of 5 points
pH value/conditions	7.9-8.5/at 20°C



Continuation **Skin protection lotion Ultra**

Art. no. 0890 600 106

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

This product is not a substitute for any prescribed protective measures such as gloves or similar items.
Please use the small, pre-punched removable label on the front to identify the contents of your SKIN dispenser system.

Skin care lotion

For SKIN dispenser, art. no. 0891 900 5. Lotion to nourish and regenerate skin after washing and showering.

Nourishes and regenerates

- Ingredients such as lipids help regenerate the natural skin barrier
- Allantoin moisturises the skin
- Panthenol has an anti-inflammatory effect and accelerates wound healing

Absorbs quickly and does not leave behind an annoying greasy film

Silicone-free

Dermatologically tested



Contents	1000 ml
Container	Bottle
Smell/fragrance	Perfumed
Performance (points system)	5 of 5 points
pH value/conditions	6/at 20°C

Art. no. 0890 600 206

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

UV 30 sun protection cream

Extra waterproof protection from natural and artificial UV-A, UV-B and UV-C rays with SPF UV-A 24/UV-B 30.

- Optimised UV filter with silicone coating
- Fragrance free, vitamin E acetate smooths and softens the skin, while protecting it from cell damage
- Also protects against welder's sunburn

Contents	100 ml
Smell/fragrance	Characteristic
Colour	White
Performance (points system)	4 of 5 points



Art. no. 0890 600 150

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



The skin tolerance of UV 30 sun protection cream has been carefully tested and proven. Using UV absorbers does not relieve you of the obligation to employ other specified protective measures. The intense midday sun should be avoided. Even sun creams with a high UV protection factor do not provide complete protection against UV rays.

For applications in the metal-working industry involving surface treatment and painting work, a special product specifically designed for artificial UV rays without a silicone coating should be used.

UV 50 sun protection spray

Waterproof, transparent sun spray for immediate protection against medium to high natural UVA and UVB radiation during outdoor work.

Protects and nourishes

- High level of protection with SPF 50 UV-A protection 26
- Vitamin E acetate makes the skin smooth and supple
- Protection against cell damage and premature skin ageing caused by the sun
- Fragrance free

Contents	200 ml
Smell/fragrance	Neutral
Colour	Yellowish
Performance (points system)	5 of 5 points



Art. no. 0890 600 151

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

If the product is not applied in sufficient quantities, this will reduce the effectiveness of the product's protection. In order to maintain the required level of protection, we recommend reapplying the product throughout the day. Even sun creams with a high UV protection factor do not provide complete protection against UV rays. Avoid the spray coming into contact with textiles to prevent permanent stains.



Disinfectant gel

Hand disinfectant gel in a 1000-ml bottle. For washroom dispensers 0891900502 and 0891900503

- Comprehensively effective against bacteria, fungi and enveloped viruses
- High-proof ethanol base
- Skin-friendly (dermatologically tested)

Chemical basis	Ethanol
Contents	1000 ml
Smell/fragrance	Product-typical
Colour	Colourless
Performance (points system)	5 of 5 points
pH value/conditions	8/undiluted

Art. no. 0890 600 300

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Disinfectant gel

The hand disinfectant gel is practical for on-the-go use.
The small, compact design fits in any pocket.

- Comprehensively effective against bacteria, fungi and enveloped viruses
- High-proof ethanol base
- Skin-friendly (dermatologically tested)

Chemical basis	Ethanol
Contents	100 ml
Smell/fragrance	Product-typical
Colour	Colourless
Performance (points system)	5 of 5 points
pH value/conditions	8/undiluted



Art. no. 0890 600 301

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Take care when using biocidal products. Always read the label and product information before use.



Maintenance oil Multi

Versatile multi-functional spray for a range of applications

- Lubricates, cleans and maintains
- Removes rust and protects against corrosion
- Resin-free, acid-free and silicone-free
- Does not attack rubber, paint or plastics

Chemical basis	Mineral oil
Colour	Light yellow transparent
Min./max. processing temperature for can	-10 to 40 °C
Min./max. temperature conditions	-30 to 130 °C
Shelf life from production	24 Month

Contents	Container	Type of spray head	Art. no.	P. Qty.
0.4 l	Aerosol can	Standard spray head	0893 055 40	1/12
5 l	Canister		0893 055 405	1
20 l	Canister		0893 055 420	1

Please consider the legal instruction at the beginning of this chapter.

Maintenance oil Multi Plus

High-performance multi-purpose spray for universal use

- Excellent penetrating and water displacing properties, also suitable as rust remover, contact spray, and long-term corrosion protection
- Versatile application
- Wear safety

Contents	400 ml
Chemical basis	Synthetic oil
Colour	Yellowish
Min./max. temperature conditions	-40 to 180 °C
Shelf life from production	24 Month

Art. no. 0893 056 000

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



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Lubricant is not harmful to health, making it ideally suited for the food processing industry.



Maintenance oil Multi Cobra

Versatile multi-functional spray for a range of applications with multi-functional spray head

- Lubricates, cleans and maintains
- Removes rust and protects against corrosion
- Resin-free, acid-free and silicone-free
- Does not attack rubber, paint or plastics

Contents	400 ml
Chemical basis	Mineral oil
Colour	Light yellow transparent
Min./max. processing temperature for can	-10 to 40 °C
Min./max. temperature conditions	-30 to 130 °C
Shelf life from production	24 Month
Container	Aerosol can
Type of spray head	2-way spray head



Continuation **Maintenance oil Multi Cobra**

Art. no. 0893 055 400

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Multifunctional lubricant MULTI BIO

Multifunctional and biodegradable lubricant with excellent adhesive properties

- Excellent adhesive properties on a wide range of surfaces
- Good penetration
- Corrosion protection and anti-wear additives
- Biodegradable in line with OECD 302
- Splash-resistant
- Silicone-free, resin-free and acid-free

Contents	400 ml
Chemical basis	Synthetic ester oils and native fatty oils
Colour	Yellowish
Min./max. temperature conditions	-20 to 90 °C
Shelf life from production	24 Month

Art. no. 0893 055 1

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Rust remover BOLTEX

Mineral oil-free, high-tech rust remover with KENA® microfluid formula for loosening seized connections and for cleaning surface rust and rust spots

- Loosens screw connections rusted solid
- Slow flash-off time, allowing the rust remover to act for several hours

Contents	300 ml
Container	Aerosol can
Type of spray head	Cobra spray head

Art. no. 0893 250 300

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Remove excess material or splashes immediately from sensitive and painted surfaces.



Rust remover Rost-Off Plus

High-quality rust remover, lubricating effect — owing to the latest additive technology (OMC₂ technology)

- Optimum creeping properties ensure outstanding rust penetration and extensive rust removal
- Corrosion protection additives for optimum protection
- Compatible with rubber and plastic



Contents	Container	Art. no.	P. Qty.
5 l	Canister	0890 300	1
20 l	Canister	0890 300 1	1
400 ml	Aerosol can	0890 200 004	1/12

Please consider the legal instruction at the beginning of this chapter.

Rust remover Rost-Off Blue Ice

High-quality rust remover with cracking effect and visual cold indicator

Cracking effect

By cooling the material surface down to -45°C, micro-fine cracks occur in the corrosion layer at the connection points. These „crack open“ the rust, ensuring better penetration of the active agent.

Optimum rust removal

- Rust is quickly penetrated and seized screws are loosened
- Heavily rusted screw connections are loosened without damaging them

Contents	400 ml
Container	Aerosol can

Art. no. 0893 241

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Rust remover Rost Off Special

High-performance rust remover with food registration (NSF - H1)

Extremely high degree of capillary activity

- Outstanding creeping properties ensure extremely fast penetration of rust and corrosion
- The optimum effect begins shortly after spraying

Excellent material compatibility

In contrast to many conventional rust removers, it does not attack rubbers or plastics.

Contents	400 ml
Container	Aerosol can

Art. no. 0893 130 400

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

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Cleaning liquid Multiclean

For cleaning and temporary lubrication in physiologically and ecologically sensitive areas. NSF-certified.

- Can be used in areas in which food is processed or stored, NSF H1 and K1
The product may come into contact with foodstuffs for technical reasons
- Good cleaning and degreasing performance
Removes oils, encrusted resin and silicone residues

Contents	400 ml
Colour	Colourless
Chemical basis	Aliphatic hydrocarbon

Art. no. 0890 109 6

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

NSF H1 and K1 registered (no.: 135926), meets the requirements of USDA 1998 H1

If used in areas in which food is processed or stored, only the minimum quantity technically required may be used.

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VbF = Ordinance on Combustible Liquids (no longer valid as of 01.01.2004) has been replaced by the BetrSichV [Operational Safety Ordinance] (valid as of 03.10.2002)



Drilling and cutting foam CUT+COOL

Highly active, high-performance cutting foam for all machining work.

- Ideally suited for all machining work such as thread cutting, thread drilling, centring, broaching, reaming, drilling and milling.
- Excellent cooling effect and strong adhesive properties
- Strong performance thanks to high cutting speeds with low tool wear



Contents	400 ml
Container	Aerosol can
Colour	Yellowish
Chemical basis	Glycol and polyglycol ether, additives
Shelf life from production	24 Month

Art. no. 0893 050 007

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Free from sulphur, mineral oil, heavy metals and resin as well as no volatile hydrocarbons. Free from substances that impair wetting of paint.

Cutting and drilling oil CUT+COOL

Multi cutting oil for light to medium machining work

- For drilling, thread cutting, thread moulding, lathing, sinking, rubbing and sawing. Ideally suited for stainless steel, but also for high-alloy steels, constructional steels, non-ferrous and precious metals. Can also be used as a preservative agent on semi-finished/finished parts and machine parts, and can be used as gun oil.
- Cools even while spraying



Colour	Light brown
Smell/fragrance	Perfumed
Chemical basis	Mineral oil
Shelf life from production	18 Month

Contents	Container	Art. no.	P. Qty.
5 l	Canister	0893 050 1	1
400 ml	Aerosol can	0893 050 004	1/12

Please consider the legal instruction at the beginning of this chapter.

Free from substances that wet paint.

Cutting and drilling oil CUT+COOL Perfect

High-performance cutting oil for the heaviest machining work and higher cutting speeds

Safe and efficient to use

- Optimum results and safety for all materials and applications
- Longer tool life
- High corrosion protection
- Can be welded without advance cleaning for low quantities

Colour	Yellow orange
Smell/fragrance	Oil
Chemical basis	Mineral oil with synthetic ester
Shelf life from production	24 Month



Contents	Container	Art. no.	P. Qty.
5 l	Canister	0893 050 009	1
400 ml	Aerosol can	0893 050 008	1/6

Please consider the legal instruction at the beginning of this chapter.

Free from chlorine, silicone, heavy metals and resin. Free from substances that impair wetting of paint.

Drilling and cutting paste Cut and Cool Perfect

Optimum results and safety for all materials and applications

- Longer tool life
- High corrosion protection
- Can be welded without advance cleaning if used in low quantities
- Can be used as minimum quantity lubricant
- Paste suitable for the heaviest machining tasks

Contents	500 ml
Colour	Brown
Chemical basis	Mineral oil with synthetic ester
Shelf life from production	36 Month



Art. no. 0893 050 010

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Drilling/cutting oil Cut and Cool Eco

Biodegradable cutting oil

- Predefined quantity per valve actuation for up to 2500 applications
- Minimal smoke formation
- Easy to use
- Suitable for food-contact areas
- Suitable for contact with delicate materials (e.g. marble, plastic, electrical components)

Colour	Light yellow
Smell/fragrance	Neutral
Chemical basis	Synthetic ester
Shelf life from production	12 Month



Contents	Container	Art. no.	P. Qty.
5 l	Canister	0893 050 012	1
400 ml	Aerosol can	0893 050 011	1/6

Please consider the legal instruction at the beginning of this chapter.

- Free from chlorine, sulphur, phosphorous, silicone, resin and mineral oil
- Free from substances that impair wetting of paint
- Non-conductive

Cutting oil Cut+Cool DVGW

Thread-cutting oil with DVGW approval

- DVGW-approved
- Excellent lubricating properties
- Free from mineral oil, chlorine, silicone, acids and resin

Colour	Red
Smell/fragrance	Characteristic
Chemical basis	Polyglycol ether



Contents	Container	Shelf life from production	Art. no.	P. Qty.
0.4 l	Aerosol can	24 Month	0893 050 014	1/12
5 l	Canister	12 Month	0893 050 015	1

Please consider the legal instruction at the beginning of this chapter.

DVGW-approved

Cooling lubricant Cut+Cool Ultra HD

Partly synthetic high-performance cooling lubricant.
Particularly suitable for materials that are difficult to machine.

- Excellent results with stainless steel and aluminium
- Long tool service life
- Excellent corrosion protection
- High stability, therefore particularly resistant to micro-organisms
- Low consumption, therefore very economical
- Particularly skin friendly



Chemical basis	Mixed synthetic mineral oil
Conditions to maintain shelf life from production	at 5°C to 35°C
Shelf life from production	12 Month

Contents	Art. no.	P. Qty.
5 l	0893 050 035	1
20 l	0893 050 036	1

Please consider the legal instruction at the beginning of this chapter.

Meets the requirements of the Technical Rules for Hazardous Substances 611

Cooling lubricant Cut+Cool Ultra

Partly synthetic universal coolant

Excellent cooling effect with outstanding removal of chips

Strong lubricating performance

- High cutting performance
- Heat reduced due to less friction
- Possible to increase the machining speed



Chemical basis	Mixed synthetic mineral oil
Conditions to maintain shelf life from production	at 5°C to 35°C
Shelf life from production	12 Month

Contents	Art. no.	P. Qty.
5 l	0893 050 030	1
20 l	0893 050 031	1

Please consider the legal instruction at the beginning of this chapter.

Meets the requirements of Technical Rules for Hazardous Substances 611



Adhesive lubricant HHS® 2000

Partly synthetic oil that is extremely resistant to high pressures

- Eliminates squeaks and creaks and has excellent flow and penetration performance, as well as good corrosion protection.
- Highly adhesive lubricant that is not spun away when used on turning and rotating parts
- Compatible with O-rings/X-rings and plastics. Neutral behaviour on painted substrates.

Chemical basis	Hydrocarbon
Colour	Yellowish
Min./max. temperature conditions	-25 to 180 °C
Max. temperature resistance	200 °C
Shelf life from production	24 Month

Contents	Oil basis	Art. no.	P. Qty.
150 ml	Synthetic mineral oil	0893 106 1	1/12
500 ml	Mineral oil	0893 106	1/6/12/24

Please consider the legal instruction at the beginning of this chapter.

HHS® adhesive lubricant 5000

Extremely temperature-resistant, fully synthetic penetrating oil with PTFE

- Excellent creeping properties
- Reliable and long-term protection against corrosion
- Good compatibility with the majority of plastics, O-rings and X-rings

Contents	500 ml
Chemical basis	Mineral oil
Oil basis	Synthetic hydrocarbons
Colour	Transparent
Min./max. temperature conditions	-20 to 200 °C
Shelf life from production	24 Month

Art. no. 0893 106 3

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Provides optimum lubrication safety in everyday use.



Adhesive lubricant HHS® Fluid

Centrifuge-proof low-viscosity grease with dual effect: Penetrating properties of an oil, adhesive and pressure-resistant as grease

- When sprayed: Oil for good creep ability
- After evaporation: Grease prevents shearing
- Excellent pressure resistance
- Good material compatibility
- Resistant to splash water and salt water, weak acids and bases
- Silicone-, resin-, acid- and AOX-free

Contents	500 ml
Chemical basis	Mineral oil
Oil basis	Synthetic
Colour	Yellowish
Min./max. temperature conditions	-25 to 170 °C
Shelf life from production	36 Month

Art. no. 0893 106 4

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Adhesive lubricant HHS® Lube

EP long-life spray grease with a high protective factor against weathering and environmental influences

- Low adhesion of dust and dirt
- High pressure load of lubricated parts
- Minimises wear and substance loss of lubricating points

Contents	500 ml
Chemical basis	Synthesis of fat and additives in hydrocarbon solvents
Oil basis	Synthetic/mineral oil combination
Colour	Opal green
Min./max. temperature conditions	-25 to 150 °C
Shelf life from production	36 Month

Art. no. 0893 106 5

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Adhesive lubricant HHS® Grease

High-quality, white, long-life maintenance grease with PTFE

- Excellent corrosion protection and outstanding sealing properties against moisture and dirt
- Dry-running property: Once the grease film has been torn off, the PTFE performs the lubrication
- Resistant to splashed water, salt water, weak acids and alkalis, silicone-free, resin-free, acid-free and AOX-free

Contents	400 ml
Chemical basis	Mineral oil
Oil basis	Mineral oil
Colour	Brilliant white
Min./max. temperature conditions	-15 to 130 °C
Shelf life from production	24 Month

Art. no. 0893 106 7

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Adhesive lubricant HHS® Drylube

Shear-proof dry synthetic wax with PTFE

- Lubricant does not shear on fast-turning and rotating parts
- Outstanding creep and gap penetration characteristics
- Resistant to spray water and salt water, weak acids and bases

Contents	400 ml
Chemical basis	Synthetic wax oxidant
Oil basis	Synthetic wax
Colour	Yellow, Brown
Min./max. temperature conditions	-30 to 100 °C
Shelf life from production	24 Month

Art. no. 0893 106 6

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

This product is not subject to the viscosity classification. Shortly after being sprayed on, the product forms a highly effective, wax-based dry lubricating film, thereby ensuring optimum protection against lubrication.



Adhesive lubricant HHS® foodstuffs

Waterproof, synthetic adhesive lubricant with penetrating properties

Can be used in areas in which food is processed or stored (NSF H1)

Excellent creep properties

- Lubricates hard-to-reach areas
- Penetrates very tight spaces and tolerances

Contents	500 ml
Chemical basis	Synthetic oil with a multifunction additive combination
Colour	Colourless
Min./max. temperature conditions	-25 to 180 °C
Shelf life from production	24 Month

Art. no. 0893 107 6

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

NSF H1-registered (no.: 140816), meets the requirements of H1, 1998.





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If used in areas in which food is processed or stored, only the minimum quantity technically necessary may be used. When using as an anti-corrosive film for food contact surfaces, completely remove all lubricant before re-starting the device.

Adhesive lubricant pre-cleaner HHS® Clean

Highly effective pre-cleaner + adhesion promoter (primer function) specifically matched to HHS products

- Primer function
- Short flash-off time
- Good material compatibility on various surfaces

Contents	500 ml
Oil basis	Mineral oil
Colour	Green
Min./max. processing temperature	5 to 40 °C
Shelf life from production	24 Month



Art. no. 0893 106 10

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Aluminium paste AL 1100

Highly adhesive lubricant resistant to temperatures and high pressure

- Anti-seize aluminium/copper-based high-performance lubricant
- Prevents freezing and seizing, cold shuts, wear, corrosion, frictional corrosion
- Resistant to water, lyes and acids
- Temperature resistance of -80°C to + 1,100°C

Min./max. temperature conditions	-80 to 1100 °C
Colour	Silver coloured



Container	Contents	Weight of content	Shelf life from production	Art. no.	P. Qty.
Aerosol can	300 ml	242 g	18 Month	0893 110 0	1/12
Brush box	200 ml	220 g	12 Month	0893 110 000	1/12
Can	1100 ml	1000 g	36 Month	0893 110 10	1/6
Tube	110 ml	100 g	36 Month	0893 110 1	1/10

Please consider the legal instruction at the beginning of this chapter.

Continuation **Aluminium paste AL 1100**

Do not apply to painted surfaces.

Brush can is ideal for use as a wheel hub paste.

Copper paste CU 800

Highly adhesive lubricating, separating and anti-corrosive copper paste that is extremely resistant to high temperatures and high pressures

- Temperature range from -40 °C to +1200 °C
- Great, long-lasting lubricating effect
- Resistant to water and diluted alkalis and acids
- Silicone-free and AOX-free



Chemical basis	Soft metal-containing semi-synthetic base grease
Min. temperature conditions	-20 °C
Max. temperature conditions	1200 °C
Colour	Copper

Contents	Container	Shelf life from production	Art. no.	P. Qty.
1 l	Can	36 Month	0893 800 2	1/6
100 ml	Tube	24 Month	0893 800 1	1/10

Please consider the legal instruction at the beginning of this chapter.

Do not apply to brake discs or brake pad linings.

Copper spray CU 800

Highly adhesive lubricating, separating and anti-corrosive copper spray that is extremely resistant to high temperatures and high pressures

Very high resistance

- Temperature application range from -40 °C up to +1200 °C
- Resistant to water, diluted lyes and diluted acids

Provides long-lasting protection against burning-on and seizing, cold welding, wear, corrosion and frictional corrosion.



Contents	300 ml
Chemical basis	Soft metal-containing semi-synthetic base grease
Container	Aerosol can
Min. temperature conditions	-40 °C
Max. temperature conditions	1200 °C
Shelf life from production	24 Month
Colour	Copper

Art. no. 0893 800

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Do not apply to brake discs or brake linings.

Dry lubricant spray PTFE

Dry lubrication, does not attract dirt and dust

Remedies squeaking, creaking and jamming. Provides long-term protection against wear.

Very high resistance

- Temperature resistant from -180°C to +260°C (temporarily)
- Permanently resistant to water, acids and bases

Contents	300 ml
Chemical basis	Polytetrafluoroethylene
Colour	Milky-transparent (protective film)
Min./max. temperature conditions	-180 to 260 °C
Shelf life from production	24 Month



Art. no. 0893 550

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Smokers must wash their hands after use. Smoking contaminated tobacco products may cause health-related issues.

Assembly paste

High-performance assembly paste spray for run-in lubrication

- Protects against wear and guarantees dry-running properties
- High resistance
- Temperature-resistant and pressure-resistant

Contents	300 ml
Chemical basis	Calcium complex grease
Colour	Black
Min./max. temperature conditions	-30 to 150 °C
Shelf life from production	24 Month



Art. no. 0893 850

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Solid lubricant paste

High-performance solid lubricant paste for assembly and run-in lubrication

Contents	100 ml
Colour	White
Min./max. temperature conditions	-30 to 250 °C
Shelf life from production	24 Month



Continuation **Solid lubricant paste**

Art. no. 0893 104 1

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Lubricating grease WGF 130

High-performance lubricating grease

- Lithium soap grease with molybdenum disulphide (MoS₂)
- Forms a solid lubricating film on the running surfaces from the grease itself under load
- Ensures additional emergency running lubrication

Contents	1 l
Chemical basis	Lithium 12 hydroxystearate
Oil basis	Mineral oil
Colour	Black
Min./max. temperature resistance	-30 to 130 °C
Max. short-term temperature resistance	150 °C
Shelf life from production	36 Month



Art. no. 0893 530

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Foodstuffs lubricating oil

Colourless special lubricant with creeping properties for the food industry as well as for the beverage, pharmaceutical and clinical industries

Low-viscosity and colourless special lubricant with creeping properties

- Excellent lubricating properties of hard-to-reach areas thanks to low viscosity
- Excellent creeping and cleaning effect ensures optimum protection of machines and conveyor areas exposed to water
- Economical
- No visual impairment with occasional contact between the lubricant and product

Contents	300 ml
Chemical basis	Medical white according to DAB 10
Lubricant system	Oil
Colour	Transparent
Min./max. temperature conditions	-10 to 180 °C
Shelf life from production	24 Month



Art. no. 0893 107 1

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

- NSF H1-registered (no.: 126582), corresponds to H1 requirements
- Approved by the LGA (Bavarian State Office of Commerce, Nuremberg, Germany)



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in the food pro-
cessing sector

Lubricant LMS Liquid Premium

**Highly adhesive special lubricant with PTFE for areas
in which food is processed or stored. NSF H1.**

- NSF H1 certification
- High penetration and lubricating effect
- Stable under high pressures and high load
- Provides excellent material protection
- Solvent-free

Contents	500 ml
Chemical basis	Mixed synthetic mineral oil
Colour	Colourless
Min./max. temperature conditions	-40 to 200 °C
Shelf life from production	24 Month



Art. no. 0893 107 006

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



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cessing sector

Lock cylinder spray

For the care of all types of locks

- Excellent creeping properties
- Ensures very good moisture displacement
- Contains corrosion protection additives
- Resin- and acid-free

Contents	50 ml
Chemical basis	Mineral oil
Colour	Light brown
Shelf life from production	24 Month



Art. no. 0893 052

P. Qty.: 1/12/24

Please consider the legal instruction at the beginning of this chapter.



Maintenance spray

For lubricating hinges, tool mounts and machine mounts

- Highly effective wear protection additives ensure excellent friction reduction
- Excellent creeping and cleaning performance
- Also suitable for use as gun oil

Chemical basis	Mineral oil
Colour	Light brown
Shelf life from production	24 Month
Container	Aerosol can

Contents	Min./max. temperature conditions	Art. no.	P. Qty.
0.15 l	-15 to 150 °C	0893 051	1/12
100 ml	-30 to 150 °C	0893 051 702	1/24

Please consider the legal instruction at the beginning of this chapter.

Silicone spray grease

Glass-like transparent, extremely lubricating and insulating silicone grease that displaces water

- Good protection against moisture and corrosion
- Good lubricating properties
- Very high level of electrical resistance

Chemical basis	Polydimethylsiloxane
Colour	Transparent, translucent, opaque
Contents	500 ml

Art. no. 0893 223

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Care and lubricant spray

Protects and maintains plastic and rubber in vehicles, in technical equipment and in the home

- Non-dirty, non-greasy and fully synthetic care and lubricant film
- Anti-slip protection against friction and noises
- Effective, lasting protection
- Resistant to high temperatures
- Filled with environmentally-friendly propellant
- Silicone-free, resin-free and AOX-free

Contents	300 ml
Chemical basis	White oil with additives
Solid lubricant	PTFE-Polytetrafluoroethylene
Colour	Transparent
Shelf life from production	24 Month

Art. no. 0893 224

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Wire cable spray

Protective wax with OMC₂ for lubricating and preserving

- Does not drip when heated
- Optimum penetration
- Outstanding resistance to water
- Contains additives with OMC₂ technology
- Silicone-free and AOX-free
- Resin-free and acid-free
- Free from solid lubricants
- Compatible with Viton and Perbunan elastomers

Contents	500 ml
Chemical basis	Synthetic wax oxidant



Colour	Brown
Min./max. temperature conditions	-40 to 120 °C
Shelf life from production	24 Month

Art. no. 0893 105 8

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Gearwheel spray

Black, shear-resistant, high-pressure resistant special lubricant

- High pressure resistance
- Centrifuge-resistant
- Solid lubricant additives for good dry-running properties
- Contains corrosion protection additives
- O-ring compatible
- Resistant to spray water and salt water, as well as to weak acids and alkali solutions
- Silicone-free, resin-free, acid-free and bitumen-free



Contents	400 ml
Chemical basis	Mineral oil with polybutene
Oil basis	Mineral oil
Colour	Black
Min./max. temperature conditions	-30 to 180 °C
Shelf life from production	24 Month

Art. no. 0893 105 5

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Soiled lubrication points must be thoroughly cleaned and degreased with 1A cleaner, art. no. 0890 106 500, prior to application.

Commercial vehicle low-viscosity grease

Lithium-soap, high-pressure low-viscosity grease based on synthetic base oil

Conforms to specifications MAN 283 LI-P 00/000, MB 264.0 and Willy Vogel

Complies with leading vehicle manufacturer specifications for optimum quality

Excellent pressure absorption capacity

Good feed behaviour, even at low temperatures

Water-repellent

Excellent protection against corrosion

Silicone-, acid- and resin-free



Weight of content	25 kg
Soap base	Lithium

Continuation **Commercial vehicle low-viscosity grease**

Colour	Green
Min./max. temperature conditions	-40 to 100 °C
Max. short-term temperature resistance	110 °C
Shelf life from production	72 Month

Art. no. 0893 881 4

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

The operating instructions of the assembly and commercial vehicle manufacturers must be observed.

Woodslide

For neutralising resin

- Prevents sticking and soiling with chips or wood flour.
- Cleans adjustment wheels, hand spindles and dimensional stops
- Prevents corrosion

Contents	5 l
Container	Canister
Colour	Transparent
Shelf life from production	24 Month



Art. no. 0893 070

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Woodslide must not be applied directly to the workpiece surface. Test product first for use on painted parts.

Cable lubricant

For easy feeding of electric cables

- Reduces friction resistance by up to 80%
- Gel-like viscosity
- Leaves no sticky residue behind
- Non-toxic and biodegradable

Chemical basis	Water
Colour	Transparent
Density	1.1 g/cm³
pH value	7.5-8.5
Min. processing temperature	5 °C
Max. processing temperature	40 °C
Bio-degradable	95%
Weight of content	1000 g
Container	Bottle
Shelf life from production	36 Month



Art. no. 0893 750 4

P. Qty.: 1/8

Please consider the legal instruction at the beginning of this chapter.

Avoid contact with natural stone such as marble and granite. Remove soiling while fresh.

Hand-lever grease gun Lube-Shuttle®

The system for lubricating greases in 400 g system cartridges

- Simple, quick and completely clean loading and removal of grease cartridge, without opening the gun
- No need to bleed anymore; virtually no problems caused by air
- Optimum emptying of cartridges; completely environmentally friendly



Material	Steel
Max. working pressure	800 bar
Length	380 mm
Product weight (per item)	929 g

Art. no. 0986 05

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Lube-Shuttle® is a registered trademark of MATO GmbH & Co KG.

Hand-lever grease gun

For 400 g cartridges (DIN 1284, 235 x Ø 53.5 mm) or for 500 cm³ loose grease

- Feed quantity can be dispensed up to 1.5 cm³
- Working pressure: 400 bar
- Maximum pressure up to over 800 bar



Material	Steel
Max. working pressure	800 bar
Length	370 mm
Product weight (per item)	1298 g

Art. no. 0986 00

P. Qty.: 1

Double-handed grease gun

The short stroke two-hand grease gun for 500 g screw cartridges for easy and clean lubrication of machines.

- Innovative short-stroke technology, i.e. with variable stroke
- 10 mm grease pump piston for fast grease delivery
- With hose holder

Material	Metal
Max. working pressure	400 bar
Connection thread	M10 x 1
Suitable for	500 g screwed cartridge
Length	350 mm
Product weight (per item)	1097 g



Art. no. 0986 000 002

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

- Since the piston chamber of the grease gun is not filled using spring pressure, but via the vacuum generated by the piston, the hand lever must not be opened suddenly.
- Perform even and quick work cycles.
- Depending on the viscosity (given by NLGI degree and temperature), due to the vacuum principle, a lingering time must be observed when the hand lever is open in order to achieve sufficient filling of the piston chamber.

Single-handed grease guns

With variable pressure setting directly on handle

- Enables one-handed lubrication, which facilitates work with hard-to-reach lubrication points
- Ergonomic handle, non-slip, very good power transmission and handling
- Can be switched from grease conveyance with high volume to high pressure using the handle

Material	Metal
Max. working pressure	300 bar
Connection thread	M10 x 1



Suitable for	Length	Product weight (per item)	Art. no.	P. Qty.
400 g - lube shuttle cartridge	230 mm	1143 g	0986 000 011	1
400 g - pull off cartridge	400 mm	1400 g	0986 000 010	1
500 g screwed cartridge	235 mm	807 g	0986 000 012	1

Chuck

For hand-lever grease gun

- Also suitable for Lube-Shuttle hand-lever grease gun
- M10x1

Art. no. 0986 003

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Easylock grease coupling

Hydraulic safety gripper nosepiece for all greasing work and maintenance tasks in vehicle construction, agriculture, building and industry.

- High-performance hydraulic seal
- Integrated linear swivel
- Can be disconnected at pressures up to 600 bar or more
- External diameter in accordance with DIN 1283

Art. no. 0986 004 001

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Cordless grease gun FP 12-A

Sturdy and handy cordless grease gun for lubricating lubrication points.

- High working pressure enables application of all standard greases
- Can be used for cartridges and bags as well as other types of container
- Li-ion battery pack for a long working time per battery charge



Nominal voltage	12 V/DC
Rechargeable battery/battery capacity	3 Ah
Max. working pressure	562 bar
Capacity with cartridge	411 g
Max. hose pressure	690 bar
Weight of machine with rechargeable battery	3.3 kg
Included in delivery (Lieferumfang)	Carrying bag

Art. no. 5700 200 1

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Please consider the legal instruction at the beginning of this chapter.

Filing neck required for filling using grease filler item no. 098602.

Multi-purpose grease I

Universal lithium-saponified grease

- Squeeze-stable and oxidation-resistant
- Excellent sealing, dust- and dirt-repellent

Soap base	Lithium 12 hydroxystearate
Lubricant code	K2K-30
Min./max. temperature conditions	-30 to 130 °C
Colour	Yellow
NLGI grade/conditions	2/with DIN 51818
Base oil viscosity, kinematic/conditions	110 mm ² /s/at 40 °C
Min. dripping point/conditions	180 °C/in accordance with DIN ISO 2176
Min./max. worked penetration /conditions	265 x 0.1 mm-295 x 0.1 mm/in accordance with DIN ISO 2137
Corrosion protection period/category	Corrosion category 0
VKA welding load	1800 N
Shelf life from production	60 Month
Oil basis	Mineral oil



Weight of content	Container	Art. no.	P. Qty.
400 g	Cartridge	0893 870 1	1/12
400 g	Cartridge Lube Shuttle	0893 870 101	1/12
500 g	Screwed cartridge	0893 870 102	1/12
25 kg	Pail	0893 870 103	1

Please consider the legal instruction at the beginning of this chapter.

Greases are supplied in plastic cartridges. The plastic cartridges improve storage (they prevent the grease from oozing out at high temperature). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and assembly manufacturers must be observed! For further information, refer to the Technical Data Sheet.

Multi-purpose grease II

Lithium-soap graphite grease resistant to high pressures with EP additives.

- Resistant to high pressure due to EP additive
- Excellent emergency running characteristics due to graphite
- Good sealing effect and corrosion protection

Soap base	Lithium 12 hydroxystearate
Lubricant code	KPF2K-30
Min./max. temperature conditions	-30 to 130 °C
Colour	Grey, Black
NLGI grade/conditions	2/with DIN 51818
Base oil viscosity, kinematic/conditions	110 mm ² /s/at 40 °C
Min. dripping point/conditions	180 °C/in accordance with DIN ISO 2176
Min./max. worked penetration /conditions	265 x 0.1 mm-295 x 0.1 mm/in accordance with DIN ISO 2137



Corrosion protection period/ category	Corrosion category 0
VKA welding load	2400 N
Shelf life from production	60 Month
Oil basis	Mineral oil

Weight of content	Container	Art. no.	P. Qty.
400 g	Cartridge	0893 871 1	1/12
400 g	Cartridge Lube Shuttle	0893 871 101	1/12
500 g	Screwed cartridge	0893 871 102	1/12
25 kg	Pail	0893 871 103	1

Please consider the legal instruction at the beginning of this chapter.

Greases are supplied in plastic cartridges. The plastic cartridges improve storage (they prevent the grease from oozing out at high temperature). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and assembly manufacturers must be observed!

Multi-purpose grease III

Physiologically inert, colourless grease with a multi-functional combination of additives.

- Can be used in areas in which food is processed or stored
- Good adhesive properties
- Dust and water-repellent



Soap base	Inorganic
Lubricant code	KP2N-20
Min./max. temperature conditions	-15 to 130 °C
Colour	Transparent
NLGI grade/conditions	2/with DIN 51818
Base oil viscosity, kinematic/conditions	200 mm ² /s/at 40 °C
Min./max. worked penetration /conditions	265 x 0.1 mm-295 x 0.1 mm/in accordance with DIN ISO 2137
Corrosion protection period/ category	Corrosion category 0
VKA welding load	2200 N
Shelf life from production	24 Month
Oil basis	Medical white oil

Weight of content	Container	Art. no.	P. Qty.
0.4 kg	Cartridge	0893 107 002	1/24
0.4 kg	Cartridge Lube Shuttle	0893 107 402	1/12
25 kg	Pail	0893 107 252	1

Please consider the legal instruction at the beginning of this chapter.

NSF H1 registered (no.: 135924), meets the requirements of USDA 1998 H1. The product may come into contact with foodstuffs for technical reasons.

Continuation **Multi-purpose grease III**



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Greases are supplied in plastic cartridges. The plastic cartridges improve storage (they prevent the grease from oozing out at high temperature). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and assembly manufacturers must be observed! For further information, refer to the technical data sheet.

Long-life grease III

Lithium-soap, multi-purpose grease with EP additives for high loads

- For long lubrication intervals
- Good sealing action and resistant to water, resistant to oxidation and corrosion
- Free from heavy metals and chlorine, silicone and resin-free



Soap base	Lithium 12 hydroxystearate
Lubricant code	KP2K-30
Min./max. temperature conditions	-30 to 130 °C
Colour	Light brown
NLGI grade/conditions	2/with DIN 51818
Base oil viscosity, kinematic/conditions	280 mm ² /s/at 40°C
Min. dripping point/conditions	180 °C/in accordance with DIN ISO 2176
Min./max. worked penetration /conditions	265 x 0.1 mm-295 x 0.1 mm/in accordance with DIN ISO 2137
Corrosion protection period/category	Corrosion category 0
VKA welding load	2600 N
Shelf life from production	60 Month
Oil basis	Mineral oil

Weight of content	Container	Art. no.	P. Qty.
400 g	Cartridge	0890 402	1/12
400 g	Cartridge Lube Shuttle	0890 402 1	1/12
500 g	Screwed cartridge	0890 402 2	1/12
25 kg	Pail	0890 402 3	1

Please consider the legal instruction at the beginning of this chapter.

Greases are supplied in plastic cartridges. The plastic cartridges improve storage (they prevent the grease from oozing out at high temperature). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and assembly manufacturers must be observed! For further information, see the technical information leaflet.

Multi-purpose grease IV

Synthetic high-performance grease with white solid lubricants

- Can be used in areas in which food is processed or stored
- Resistant to high pressure due to EP additive
- Excellent emergency running properties
- Good sealing action and protection against corrosion



Soap base	AL complex
Lubricant code	KPFHC2R-40
Min./max. temperature conditions	-45 to 180 °C
Colour	White
NLGI grade/conditions	2/with DIN 51818
Base oil viscosity, kinematic/conditions	350 mm ² /s/at 40 °C
Min. dripping point/conditions	250 °C/in accordance with DIN ISO 2176
Min./max. worked penetration /conditions	285 x 0.1 mm-285 x 0.1 mm/in accordance with DIN ISO 2137
Corrosion protection period/category	Corrosion category 0
VKA welding load	3000 N
Shelf life from production	24 Month
Oil basis	Synthetic

Weight of content	Container	Art. no.	P. Qty.
0.4 kg	Cartridge	0893 107 003	1/24
25 kg	Pail	0893 107 253	1

Please consider the legal instruction at the beginning of this chapter.

NSF H1-registered (no.: 135924), meets the requirements of USDA 1998 H1. The product may come into contact with foodstuffs for technical reasons.



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Greases are supplied in plastic cartridges. The plastic cartridges improve storage (they prevent the grease from oozing out at high temperature). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and assembly manufacturers must be observed.

Commercial vehicle high-performance lubricating grease

Lithium-complex lubricating grease, partly based on synthetic oil

- Complies with the specifications of MAN 284, MB 265.1 and exceeds MB 267
- Broad range of applications
- Very high pressure absorption capacity



Soap base	Lithium complex
Lubricant code	KP2N-30
Min./max. temperature conditions	-30 to 140 °C
Colour	Yellow, Brown
NLGI grade/conditions	2/with DIN 51818
Base oil viscosity, kinematic/conditions	210 mm ² /s/at 40°C
Min. dripping point/conditions	260 °C/in accordance with DIN ISO 2176
Min./max. worked penetration /conditions	265 x 0.1 mm-295 x 0.1 mm/in accordance with DIN ISO 2137
Corrosion protection period/category	Corrosion category 0
VKA welding load	2800 N
Shelf life from production	72 Month
Oil basis	Mineral oil

Weight of content	Container	Art. no.	P. Qty.
400 g	Cartridge	0893 880	1/12
400 g	Cartridge Lube Shuttle	0893 880 1	1/24
500 g	Screwed cartridge	0893 880 002	1/12
25 kg	Pail	0893 880 4	1

Please consider the legal instruction at the beginning of this chapter.

Not suitable for lubricating points for which lubricating greases containing solid lubricants are specified, such as track rod joints. We recommend using multi-purpose grease II, art. no. 08938711, for this purpose.

The operating instructions of the major assembly and commercial vehicle manufacturers must be observed! For further information, refer to the technical data sheet. Store upright in a cool, dry place!

V-belt spray

For extending the service life of V-belts

- Prevents slipping, transfers full drive output, eliminates squeaking
- Eliminates readjustment work in case of minor belt slippage due to cold, moisture or due to normal elongation
- AOX-free

Contents	400 ml
Chemical basis	Mineral oil
Colour	Light yellow
Boiling point	-44 °C
Ignition temperature	250 °C
Shelf life from production	24 Month



Art. no. 0893 230

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Only use in well-ventilated areas.

Brake protector paste 1400

Grey supple and adhesive paste with excellent lubricating properties, reliably separates and ensures excellent protection against corrosion.



- High compressive strength ensures easy movement and minimum wear
- Prevents corrosion, seizing and burning
- High ceramic content
- Ensures uniform loosening of screw connections
- Does not contain any metallic pigments and is free from MoS₂ as well as additives containing sulphur
- Non-toxic
- Silicone and metal-free

Colour	Light grey (bright grey)
Smell/fragrance	Characteristic
Chemical basis	Mixed synthetic mineral oil
Shelf life from production	24 Month

Weight of content	Art. no.	P. Qty.
3 g	0893 116 010	50
100 g	0893 116 100	1/12

Please consider the legal instruction at the beginning of this chapter.

Brake cylinder paste

Fully synthetic brake cylinder paste for hydraulic brake systems



- Keeps sleeves supple
- Compatible with DOT 3, DOT 4, DOT 5.1 brake fluid
- Protects against corrosion
- Extends the brake cylinder service life

Weight of content	180 g
Colour	Yellow
Smell/fragrance	Characteristic
Chemical basis	Synthetic oil with a multifunction additive combination
Shelf life from production	36 Month

Art. no. 0893 980

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

HT brake protection

Lubricating, separating and anti-corrosive paste extremely resistant to high temperatures and high pressures

- Heat-resistant up to 1400°C
- Permanent and high level of lubrication thanks to ceramic components
- Resistant to diluted acids, bases, spray water and salt water

Colour	Light grey (bright grey)
Chemical basis	Mineral oil
Shelf life from production	12 Month



Contents	Weight of content	Smell/fragrance	Art. no.	P. Qty.
200 ml	335 g	Mild	0893 816 001	1/12
300 ml	295 g	Characteristic	0893 816	1/12

Please consider the legal instruction at the beginning of this chapter.

- Do not apply to brake discs and brake friction lining
- Shake the aerosol thoroughly

HT brake protection brush adapter

Colour	Black
Length	110 mm
Material	PP - Polypropylene



Art. no. 0891 800 000

P. Qty.: 1

Tyre mounting paste

For mounting car, truck and motorcycle tyres

Good sliding properties

- Low force and minimal time required
- Minimal use of materials
- Low machine wear
- Protects tyres and rim flange
- Improved centring of the tyre on the rim

Short flash-off time

- Positive connection between the tyre and rim is established soon after assembly
- Fewer complaints and subsequent costs for any re-balancing task

Rubber and rim care

- Keeps the rubber soft, thereby ensuring permanent sealing between the rim and tyre bead
- Prevents rust from forming (anti-corrosive)
- Prevents the tyre from sticking to the rim



Weight of content	5 kg
Viscosity/consistency	Pasty
Chemical basis	Hydrocarbonate

Contents	Colour	Shelf life from production	Art. no.	P. Qty.
4.8 l	White, Transparent	60 Month	0890 122 1	1
4716.98 ml	Black	24 Month	0890 124 1	1

Please consider the legal instruction at the beginning of this chapter.

Brush for tyre mounting paste

- Length: 28 cm
- Angled shape

Length	28 cm
Design	Offset



Art. no. 0693 080 0

P. Qty.: 1

Tyre mounting paste Cargo Special

For fitting and removing all large and heavy-duty tyres, such as truck tyres, agricultural tyres and industrial tyres (EM tyres)

- Excellent gliding properties
- Long flash-off time
- Tyre and rim care
- Frost-resistant
- Physiologically safe and biodegradable
- Silicone-free



Contents	4 l
Weight of content	4 kg
Colour	Yellow, Brown
Viscosity/consistency	Pasty
Shelf life from production	12 Month

Art. no. 0890 123 404

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Not suitable for fitting motorcycle and truck tyres due to long flash-off behaviour.

High-temperature lubricant paste HSP 1400

Grey, metal-free lubricant paste that reduces wear, separates surfaces reliably and provides outstanding corrosion protection.

- For universal use, supple and highly adhesive
- Safe for health
- Ensures easy movement and minimal wear
- Prevents corrosion, seizing and burning on

Contents	300 ml
Chemical basis	Mixed synthetic mineral oil with organic thickener and white solid lubricant combination
Colour	Grey
Min./max. temperature conditions	-40 to 1400 °C
Shelf life from production	24 Month



Art. no. 0893 123

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

NSF H2 registered (no.: 150178), corresponds to H2 requirements.



NSF = internationally recognised organisation for the supervision and registration of products used in the food processing sector

Not suitable for lubricating bearings

Compressor oil WK 100

Reliable lubrication of air compressors

- Suitable for all types of air compressors
- Highly reliable lubrication
- Highly resistant to ageing
- Contains additives to protect against corrosion and wear

Contents	1000 ml
Container	Bottle
Colour	Transparent
Smell/fragrance	Characteristic
Chemical basis	Mineral oil
Shelf life from production	36 Month



Art. no. 0893 050 506

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Only suitable for bearing lubrication on turbo-compressors.

BIO chainsaw oil

Biodegradable chain oil with SuperTECH adhesion additive for all high-performance power saws

- High-quality additives guarantee optimum lubrication of chainsaw chains, guide rails and chain wheels
- New SuperTECH adhesion additive for excellent adhesion

Suitable for tricky application conditions

- When sawing hardwood, the guide bar does not overheat
- Suitable for use in extreme daytime temperatures in summer and winter

Contents	5 l
Container	Canister
Colour	Yellow
Smell/fragrance	Characteristic
Chemical basis	Natural ester



Continuation **BIO chainsaw oil**

Art. no. 0893 057 05

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

TRIATHLON® gearbox oil Automatic Super

Gearbox oil for universal use with high thermal stability and excellent low-temperature properties.

TRIATHLON gearbox oils are produced and packaged in compliance with the most stringent quality specifications in accordance with DIN EN ISO 9001

- High product safety
- Extensive manufacturer approvals

Only high-quality first raffinates and raw materials are used in TRIATHLON oils

Satisfies key specifications of automotive manufacturers

Outstanding protection against wear and corrosion



Contents	20 l
Type of oil	HC synthesis
Approved for gear oils	Dexron III H, Dexron III G, Dexron II E, Dexron II D, Allison C4, Caterpillar TO-2, Voith H55.6335.xx, MAN 339 Type V1, MAN 339 Type Z1, MB 236.1, TASA, Ford Mercon
Recommended applications for gear oils	ZF-TE-ML 02F, ZF-TE-ML 03D, ZF-TE-ML 09, ZF-TE-ML 11B, ZF-TE-ML 14B, ZF-TE-ML 04D, ZF-TE-ML 14A, ZF-TE-ML 17C
Shelf life from production	60 Month

Art. no. 0897 410 003

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

TRIATHLON® gearbox oil Gear 75W-90

High-performance, high-pressure gearbox oil for a broad range of applications

- Produced and packaged in compliance with the most stringent quality specifications in line with DIN EN ISO 9001
- Made with high-quality first raffinates and raw materials
- Outstanding lubrication reduces running noise
- High degree of protection against corrosion and wear and optimum resistance to ageing



Contents	20 l
Type of oil	Fully synthetic
Viscosity grade	75W-90
Approved for gear oils	API GL 4+, Ford ESD M2C 175-A
Recommended applications for gear oils	VW 50150 (G50), ZF-TE-ML 08A
Shelf life from production	60 Month

Art. no. 0897 475 923

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

TRIATHLON® gearbox oil Gear Cargo 75W-90

Multigrade gearbox oil, suitable for lubrication of all drive elements, such as synchronised and non-synchronised manual gearboxes and hypoid-toothed final drives

TRIATHLON gearbox oils are produced and packaged in compliance with the most stringent quality specifications in accordance with DIN EN ISO 9001

- High product safety
- Extensive manufacturer approvals

Only high-quality first raffinates and raw materials are used in TRIATHLON oils

Satisfies key specifications of automotive manufacturers

Reduces friction and saves fuel



Type of oil	Partly synthetic
Viscosity grade	75W-90
Approved for gear oils	API GL 4, API GL 5, API MT1, MIL-L 2105 D, MIL-PRF 2105 E
Recommended applications for gear oils	DAF, Eaton, Scania STO 1:0, Volvo (axles), ZF-TE-ML 12E, ZF-TE-ML 16B, ZF-TE-ML 17B, ZF-TE-ML 19B, MAN M3343 Type M
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
20 l	0897 475 943	1
60 l	0897 475 944	1

Please consider the legal instruction at the beginning of this chapter.

Gearbox oil Gear DCT

High-performance oil with optimum ageing stability and excellent wear protection. Very good low-temperature properties and excellent shear stability.

Lubricant specially designed for dual-clutch transmissions (DCT transmissions). Also suitable for dual-clutch transmissions, with common oil supply for clutch, synchronisation, gear train and hydraulic control system.

Type of oil	HC synthesis
Shelf life from production	60 Month



Continuation **Gearbox oil Gear DCT**

Contents	Recommended applications for gear oils	Art. no.	P. Qty.
20 l	Chrysler, Ford WSS-M2C 936-A, VW G 052 182, VW G 052 529, Mitsubishi Dia Queen, Volvo 1161838, BMW DCTF-1, MB 236.21, Peugeot Citroen (PSA) 9734.S2, Porsche 999.917.080.00	0897 430 003	1
60 l	Chrysler, Ford WSS-M2C 936-A, VW G 052 182, VW G 052 529, Mitsubishi Dia Queen, Volvo 1161838, BMW DCTF-1, Peugeot Citroen (PSA) 9734.S2, MB 236.21, Porsche 999.917.080.00	0897 430 004	1

Please consider the legal instruction at the beginning of this chapter.

TRIATHLON® gearbox oil Gear Hypoid 85W-90

High-performance gearbox oil for hypoid gearboxes with a large axle offset, as well as for transfer gearboxes, intermediate gearboxes and auxiliary gearboxes

TRIATHLON gearbox oils are produced and packaged in compliance with the most stringent quality specifications in line with DIN EN ISO 9001

- High product safety
- Extensive manufacturer approvals

Only high-quality first raffinates and raw materials are used in TRIATHLON oils

Satisfies key specifications of automotive manufacturers



Type of oil	Mineral
Viscosity grade	85W-90
Approved for gear oils	API GL 5, MB 235.0, MIL-L 2105 D
Recommended applications for gear oils	ZF-TE-ML 16C, ZF-TE-ML 17B, ZF-TE-ML 19B, ZF-TE-ML 21A, MAN 342 Type M1
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
20 l	0897 485 903	1
60 l	0897 485 904	1
208 l	0897 485 905	1

Please consider the legal instruction at the beginning of this chapter.

TRIATHLON® hydraulic oil HEES 46

High-performance hydraulic oil compatible with all commercially available sealing compounds as well as steel, non-ferrous metals and light metals.

TRIATHLON engine oils are produced and packaged in compliance with the most stringent quality specifications in accordance with DIN EN ISO 9001

- High product safety
- Extensive manufacturer approvals

Only high-quality first refinery products and raw materials are used in TRIATHLON oils

Fulfills key specifications of automotive manufacturers (VDMA 24568- and ISO VG 46)

Biodegradable and non-toxic

Offers optimal corrosion protection and consistent viscosity with large temperature fluctuations and reduced ageing.



ISO-VG grade	46
Approved for hydraulic oils	VDMA 24568
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
20 l	0897 646 203	1
208 l	0897 646 205	1

Please consider the legal instruction at the beginning of this chapter.

Approvals/specifications:

- VDMA 24568
- ISO VG 46

TRIATHLON® hydraulic oil HLP

High-performance hydraulic oil compatible with all commercially available sealing compounds as well as steel, non-ferrous metals and light metals.

- Produced and packaged in compliance with the most stringent quality specifications in accordance with DIN EN ISO 9001
- Made with high-quality first raffinates and raw materials
- Offers optimum wear protection under heavy loads

Type of oil	Mineral
Approved for hydraulic oils	DIN 51524-2
Shelf life from production	60 Month



Contents	ISO-VG grade	Art. no.	P. Qty.
20 l	46	0897 646 003	1
20 l	68	0897 668 003	1
60 l	10	0897 610 004	1
60 l	22	0897 622 004	1
60 l	32	0897 632 004	1
60 l	46	0897 646 004	1
60 l	68	0897 668 004	1

Continuation **TRIATHLON® hydraulic oil HLP**

Contents	ISO-VG grade	Art. no.	P. Qty.
208 l	22	0897 622 005	1
208 l	32	0897 632 005	1
208 l	46	0897 646 005	1
208 l	68	0897 668 005	1

Please consider the legal instruction at the beginning of this chapter.

TRIATHLON® hydraulic oil HVLP 46

High-performance hydraulic oil compatible with all commercially available sealing compounds as well as steel, non-ferrous metals and light metals.

TRIATHLON engine oils are produced and packaged in compliance with the most stringent quality specifications in accordance with DIN EN ISO 9001

- High product safety
- Extensive manufacturer approvals

Only high-quality first refinery products and raw materials are used in TRIATHLON oils

Fulfils key specifications of automotive manufacturers (VDMA 24568- and ISO VG 46)

Offers optimal wear and corrosion protection and consistent viscosity with large temperature fluctuations and high thermal loads.



ISO-VG grade	46
Approved for hydraulic oils	DIN 51524-3
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
20 l	0897 646 303	1
208 l	0897 646 305	1

Please consider the legal instruction at the beginning of this chapter.

Approvals/specifications:

- DIN 51524 Part 3
- ISO VG 46

Catch tray

For substances that are hazardous to water according to the German Water Resources Act (WHG)

- With zinc-plated grate inlay and feet
- Suitable for a standing 200-l drum
- Ground clearance: 100 mm

Length	800 mm
Width	800 mm
Height	460 mm



Contents	203 l
Surface	Zinc plated

Art. no. 0962 897

P. Qty.: 1



Engine oil Basic 5W-30

Latest, year-round low-friction engine oil for passenger petrol and diesel vehicles, including vehicles with diesel particle filter (DPF) according to exhaust gas standard Euro 4 and service interval extension (Longlife Service).

- Fast oil supply at low temperatures
- High lubrication reliability at high and low temperatures
- Reduces oil and fuel consumption and cuts harmful emissions

Type of oil	HC synthesis
Viscosity grade	5W-30
Recommended applications for engine oils	ACEA C3, BMW Longlife-04, MB 229.51, VW 504 00, VW 507 00
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
60 l	0897 990 304	1
208 l	0897 990 305	1

Please consider the legal instruction at the beginning of this chapter.

Engine oil Basic 5W-40

Ideal for the latest petrol and diesel engines with multi-valve technology and turbocharging, as well as with or without charge-air cooling (CAC).

- Cuts fuel consumption in the cold-running phase
- Reliable supply of oil to the engine
- Fast oil supply at low temperatures, reliable cold start
- High lubrication reliability at high and low temperatures
- Tested for catalytic converters and turbochargers

Type of oil	HC synthesis
Viscosity grade	5W-40
Recommended applications for engine oils	ACEA A3/B4, API SN/CF, BMW Long-life-98, MB 229.31, VW 502 00, VW 505 00
Shelf life from production	60 Month



Contents	Art. no.	P. Qty.
60 l	0897 990 404	1
208 l	0897 990 405	1

Please consider the legal instruction at the beginning of this chapter.

Observe the operating instructions of the vehicle and engine manufacturer.

Engine oil Basic 10W-40

Engine oil based on latest formula for year-round use in passenger petrol and diesel vehicles, with and without exhaust-gas turbocharging (EGT) and charge-air cooling (CAC).

- Smooth-running engine
- Fast oil supply at low temperatures
- Good lubrication reliability over the entire temperature application range
- Tested catalytic converter and tried and tested turbo
- Miscible and compatible with standard engine oils

Type of oil	Mineral
Viscosity grade	10W-40
Recommended applications for engine oils	ACEA A3/B3, API SL/CF, MB 229.1, VW 505 00
Shelf life from production	60 Month



Contents	Art. no.	P. Qty.
60 l	0897 990 104	1
208 l	0897 990 105	1

Please consider the legal instruction at the beginning of this chapter.

Observe the operating instructions of the vehicle and engine manufacturer.

Special fuel TRIATHLON® 2S safety mix

**Ready-to-use mixture for 2-stroke engines (1:50),
based on alkylate petrol**

- Maximum performance at low and high engine temperatures
- Excellent engine cleanliness, residue-free combustion, smoke-free
- Free of harmful benzene, aromatic compounds and low-sulphur



Type of oil	Fully synthetic
Shelf life from production	36 Month

Contents	Art. no.	P. Qty.
5 l	0897 055 005	1/4
20 l	0897 055 020	1
200 l	0897 055 200	1

Please consider the legal instruction at the beginning of this chapter.



Refer to the instructions in the manufacturer's operating instructions for changing to special fuel. Check the carburettor settings and adjust them if necessary.

Engine oil TRIATHLON® Cargo Super 10W-40

Year-round, smooth-running engine oil for diesel engines

- Produced and packaged in compliance with the most stringent quality specifications in line with DIN EN ISO 9001
- Made with high-quality first raffinates and raw materials
- Outstanding smooth-running and wear protection properties
- Ideal for long oil change intervals



Type of oil	Partly synthetic
Viscosity grade	10W-40
Approved for engine oils	MAN M3277, MB 228.5, API CI-4, Volvo VDS-3, ACEA E4 E7
Recommended applications for engine oils	Renault RXD, Mack EO-M Plus, MTU Type 3, Caterpillar ECF-1-a, Cummins 20077, Cummins 20078, Renault RLD-2, DAF HP2, Deutz DQC III-10, Scania LDF-2
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
20 l	0897 310 403	1
60 l	0897 310 404	1
208 l	0897 310 405	1

Please consider the legal instruction at the beginning of this chapter.

Engine oil TRIATHLON® Cargo Ultra 10W-40

Year-round engine oil for diesel engines

- Produced and packaged in compliance with the most stringent quality specifications in line with DIN EN ISO 9001
- Uses high-quality first raffinates and raw materials
- Provides optimum engine cleanliness
- Ensures excellent wear protection and reduced fuel consumption



Type of oil	HC synthesis
Viscosity grade	10W-40
Approved for engine oils	MB 228.51, MAN M3477, Renault RXD, Volvo VDS-3, ACEA E6 E7, API CI-4, ACEA E9
Recommended applications for engine oils	MTU Type 3, MTU Type 3.1, Renault RLD-2, Caterpillar ECF-1-a, Cummins 20076, Cummins 20077, Mack EO-M Plus, DAF HP2, Deutz DQC III-10 LA, Mack EO-N, Renault RGD, Volvo CNG, MB 226.9
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
20 l	0897 510 403	1
60 l	0897 510 404	1
208 l	0897 510 405	1

Please consider the legal instruction at the beginning of this chapter.

Engine oil TRIATHLON® Cargo Ultra 5W-30

For diesel engines for year-round use

- Produced and packaged in compliance with the most stringent quality specifications in line with DIN EN ISO 9001
- Uses high-quality first raffinates and raw materials
- Provides optimum engine cleanliness
- Ensures excellent wear protection and reduced fuel consumption



Type of oil	HC synthesis
Viscosity grade	5W-30
Approved for engine oils	MB 228.51, Volvo VDS-4.5, Mack EOS-4.5, Renault RLD-3, ACEA E6 E7
Shelf life from production	60 Month

Continuation **Engine oil TRIATHLON® Cargo Ultra 5W-30**

Contents	Recommended applications for engine oils	Art. no.	P. Qty.
20 l	Caterpillar ECF-3, Deutz DQC IV-10 LA, MAN M3477, MAN M3677, Renault RXD, Renault RLD-2, MB 228.31, Volvo CNG, Volvo VDS-4, MTU Type 3.1, Mack EO-O Premium Plus, Cummins 20086	0897 505 303	1
60 l	Deutz DQC IV-10 LA, Mack EO-O Premium Plus, MAN M3477, MAN M3677, MTU Type 3.1, Renault RXD, Renault RLD-2, MB 228.31, Volvo VDS-4, Volvo CNG, Caterpillar ECF-3, Cummins CES 20081	0897 505 304	1
208 l	MTU Type 3.1, Deutz DQC IV-10 LA, Mack EO-O Premium Plus, MAN M3477, MAN M3677, Renault RXD, Renault RLD-2, MB 228.31, Volvo VDS-4, Volvo CNG, Caterpillar ECF-3, Cummins 20086	0897 505 305	1

Please consider the legal instruction at the beginning of this chapter.

Engine oil TRIATHLON® Diesel 15W-40

Multigrade engine oil for year-round use

High resistance to shearing

Prevents black sludge from forming

Optimum lubrication

TRIATHLON engine oils are produced and packaged in compliance with the most stringent quality specifications in accordance with DIN EN ISO 9001

- High product safety
- Extensive manufacturer approvals

Only high-quality first raffinates and raw materials are used in TRIATHLON oils

Satisfies important specifications of automotive manufacturers



Type of oil	Mineral
Viscosity grade	15W-40
Recommended applications for engine oils	Volvo VDS, Allison C4, Caterpillar TO-2, MIL-L 2104 E, MIL-L 46152 D, MTU Type 1, MAN 271
Shelf life from production	60 Month

Contents	Approved for engine oils	Art. no.	P. Qty.
20 l	ACEA A2-96, ACEA B3-98, ACEA E2-96 #5, API SJ, API CF 4, API CF, MB 228.1	0897 215 403	1
60 l	ACEA B3-98, ACEA E2-96 #5, API SJ, API CF 4, API CF, MB 228.1	0897 215 404	1
208 l	ACEA B3-98, ACEA E2-96 #5, API SJ, API CF 4, API CF, MB 228.1	0897 215 405	1

Please consider the legal instruction at the beginning of this chapter.

Engine oil TRIATHLON® Dynamik 10W-40

Smooth-running engine oil for diesel engines

- Produced and packaged in compliance with the most stringent quality specifications in line with DIN EN ISO 9001
- Made with high-quality first raffinates and raw materials
- Fast oil supply at low temperatures
- High resistance to shearing and ageing
- Ideal for long oil change intervals



Type of oil	HC synthesis
Viscosity grade	10W-40
Approved for engine oils	API SL, API CI-4, MAN M3275-1, MB 228.3, ACEA A3/B4, ACEA E7
Recommended applications for engine oils	MB 229.1, Volvo VDS-3, Global DHD-1, Mack EO-M Plus, MTU Type 2, Cummins 20076, Cummins 20077, Cummins 20078, Caterpillar ECF-2, Caterpillar ECF-1-a, Renault RLD-2, Renault RLD, Deutz DQC III-10, Cummins 20071/20072
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
20 l	0897 210 403	1
60 l	0897 210 404	1
208 l	0897 210 405	1

Please consider the legal instruction at the beginning of this chapter.



Engine oil TRIATHLON® Endurance III 5W-30

Smooth-running engine oil for top-performance passenger cars

- Production and filling under the strictest quality regulations according to DIN EN ISO 9001
- Use of high-quality raffinates and raw materials
- Fast oil supply at low temperatures

**ACEA C3, API SN, VW 504 00 / 507 00, MB release 229.31
+ 229.51**

Würth also recommends this product for vehicles that comply with the following specifications:

VW 500 00 / 501 01 / 502 00 / 505 00 / 505 01 / 503 00 / 503 01
/ 506 00 / 506 01, API CF

Type of oil	HC synthesis
Viscosity grade	5W-30
Shelf life from production	60 Month

Contents	Approved for engine oils	Recommended applications for engine oils	Art. no.	P. Qty.
	VW 504 00, VW 507 00, ACEA C3, API SN, MB 229.51, BMW Longlife-04	VW 500 00, VW 501 01, VW 502 00, VW 503 00, VW 503 01, VW 505 00, VW 505 01, VW 506 00, VW 506 01, Porsche C30, MB 229.31	0897 105 309	1
1 l	VW 504 00, VW 507 00, ACEA C3, API SN, MB 229.51, MB 229.31, BMW Longlife-04	VW 500 00, VW 501 01, VW 502 00, VW 505 00, VW 505 01, VW 503 00, VW 503 01, VW 506 00, VW 506 01, Porsche C30, API CF	0897 105 301	1/12
5 l	VW 504 00, VW 507 00, ACEA C3, API SN, MB 229.51, MB 229.31, BMW Longlife-04	VW 500 00, VW 501 01, VW 502 00, VW 505 00, VW 505 01, VW 503 00, VW 503 01, VW 506 00, VW 506 01, Porsche C30, API CF	0897 105 302	1/3
20 l	VW 504 00, VW 507 00, ACEA C3, API SN, MB 229.51, MB 229.31, BMW Longlife-04	Porsche C30, VW 500 00, VW 501 01, VW 502 00, VW 505 00, VW 505 01, VW 503 00, VW 503 01, VW 506 00, VW 506 01, API CF	0897 105 303	1
60 l	VW 504 00, VW 507 00, ACEA C3, API SN, MB 229.51, MB 229.31, BMW Longlife-04	VW 500 00, VW 501 01, VW 502 00, VW 505 00, VW 505 01, VW 503 00, VW 503 01, VW 506 00, VW 506 01, Porsche C30, API CF	0897 105 304	1
208 l	VW 504 00, VW 507 00, ACEA C3, MB 229.51, API SN, MB 229.31, BMW Longlife-04	VW 500 00, VW 501 01, VW 502 00, VW 505 00, VW 505 01, VW 503 00, VW 503 01, VW 506 00, VW 506 01, API CF, Porsche C30	0897 105 305	1

Please consider the legal instruction at the beginning of this chapter.

Engine oil Endurance IV 0W-20

State-of-the-art synthesis technology enables excellent cold-start performance combined with shorter starting times

- Designed to meet the high demands of the VW Group
- The Longlife IV lubricant ensures excellent cold-start performance and increases the efficiency of the engine thanks to its reduced viscosity.
- Compared to the already fuel-saving Longlife III, it offers an additional fuel consumption reduction of approx. 1.5%. Enables extremely long oil change intervals (WIV, etc.).



Type of oil	HC synthesis
Viscosity grade	0W-20
Approved for engine oils	VW 508 00, VW 509 00
Shelf life from production	60 Month

Contents	Recommended applications for engine oils	Art. no.	P. Qty.
60 l	ACEA C5, Porsche C20	0897 100 204	1
208 l	Porsche C20, ACEA C5	0897 100 205	1

Please consider the legal instruction at the beginning of this chapter.

Engine oil TRIATHLON® Extra 5W-30

Low-viscosity, smooth-running oil for year-round use

- Produced and packaged in compliance with the most stringent quality specifications in line with DIN EN ISO 9001
- Made with high-quality first raffinates and raw materials
- High level of wear protection and reduced friction for extended engine service life
- HC synthetic oil



Type of oil	HC synthesis
Viscosity grade	5W-30
Approved for engine oils	ACEA A1-02, ACEA A5-02, ACEA B1-02, API SL, Ford WSS-M2C 913-A, Ford WSS-M2C 913-B, Ford WSS-M2C 912-A1, ILSAC GF-2
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
20 l	0897 905 303	1
60 l	0897 905 304	1
208 l	0897 905 305	1

Please consider the legal instruction at the beginning of this chapter.

ACEA A1-02/A5-02/B1-02, API SL, Ford WSS-M2C 913-A/WSS-M2C 913-B/WSS-M2C 912-A1, ILSAC GF-2
Tested for turbochargers and catalytic converters

Engine oil Extra F-Eco 5W-20

Light running oil for Ford petrol engines

- Low-viscosity engine oil based on synthetic technology and state-of-the-art additive technology, and which has been specially developed to meet the requirements of Ford petrol engines.
- Deposits are safely prevented, excellent lubrication reliability is ensured and high fuel economy made possible.



Type of oil	HC synthesis
Viscosity grade	5W-20
Approved for engine oils	ACEA C5, API SN, Ford WSS-M2C 948-B
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
60 l	0897 905 204	1
208 l	0897 905 205	1

Please consider the legal instruction at the beginning of this chapter.

Engine oil Extra F-Tec 0W-30

Thanks to its pronounced adhesion to metal surfaces, it is exceptionally suited for vehicles with an automatic stop-start system

- Maximum fuel economy and excellent wear protection
- Excellent cold-start performance combined with high ageing resistance
- Suitable for diesel particulate filters

Type of oil	HC synthesis
Viscosity grade	0W-30
Recommended applications for engine oils	Ford WSS-M2C 950-A, Jaguar/Land Rover STJLR.03.5007
Shelf life from production	60 Month



Contents	Art. no.	P. Qty.
60 l	0897 900 304	1
208 l	0897 900 305	1

Please consider the legal instruction at the beginning of this chapter.

Engine oil TRIATHLON® Extra II 5W-30

Modern smooth-running engine oil for passenger cars

- High shearing and ageing stability
- Saves fuel and reduces emissions
- HC synthetic

Type of oil	HC synthesis
Viscosity grade	5W-30
Recommended applications for engine oils	Fiat 9.55535-G1, Ford WSS-M2C 913-C, Ford WSS-M2C 913-B, Ford WSS-M2C 913-A
Shelf life from production	60 Month



Contents	Approved for engine oils	Art. no.	P. Qty.
20 l	Ford WSS-M2C 913-D, ACEA A5, ACEA B5	0897 905 343	1
60 l	ACEA A5, ACEA B5, Ford WSS-M2C 913-D	0897 905 344	1
208 l	Ford WSS-M2C 913-D, ACEA A5, ACEA B5	0897 905 345	1

Please consider the legal instruction at the beginning of this chapter.

ACEA A5/B5, Ford WSS-M2C 913-D

Würth also recommends this product for vehicles that comply with the following specifications:

Fiat 9.55535-G1, Ford WSS-M2C 913-A / Ford WSS-M2C 913-B / Ford WSS-M2C 913-C

Engine oil TRIATHLON® Formula DX2 5W-30

Modern low viscosity engine oil for use in petrol and diesel engines without and without diesel particulate filters all-year round.

- HC synthetic
- Production and filling under the strictest quality regulations according to DIN EN ISO 9001



Type of oil	HC synthesis
Viscosity grade	5W-30
Approved for engine oils	ACEA C3, API SN/CF, MB 229.51, MB 229.52
Recommended applications for engine oils	ACEA A3/B4, BMW Longlife-04, Ford WSS-M2C 917-A, VW 505 00, VW 505 01, Dexos 2

Contents	Shelf life from production	Art. no.	P. Qty.
	60 Month	0897 905 359	1
20 l		0897 905 353	1
60 l		0897 905 354	1
208 l		0897 905 355	1

Please consider the legal instruction at the beginning of this chapter.

Approvals:

- ACEA C3
- API SN/CF
- MB approval 229.51
- MB approval 229.52

Recommendations:

- ACEA A3/B4
- dexos 2
- BMW Longlife-04
- Ford WSS-M2C 917-A
- VW 505 00 / 505 01

Engine oil TRIATHLON® Formula LL 5W-30

Smooth-running engine oil for passenger cars

- Fast oil supply at low temperatures
- HC synthetic
- Production and filling under the strictest quality regulations according to DIN EN ISO 9001



Type of oil	HC synthesis
Viscosity grade	5W-30
Approved for engine oils	API SL, API CF, ACEA A3-04, ACEA B4-04, VW 502 00, VW 505 00, BMW Longlife-01, MB 229.5
Recommended applications for engine oils	Opel-GM-LL-A025, Opel-GM-LL-B025
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
1 l	0897 805 301	1/12
5 l	0897 805 302	1/3
20 l	0897 805 303	1

Contents	Art. no.	P. Qty.
60 l	0897 805 304	1
208 l	0897 805 305	1

Please consider the legal instruction at the beginning of this chapter.

ACEA A3-04/B4-04, API SL/CF, VW 502 00/505 00, OPEL GM-LL-A025/GM-LL-B025, BMW Long life-01, MB approval 229.3
Tested for turbochargers and catalytic converters

Engine oil TRIATHLON® Longlife SHPD 15W-40

Ultra-modern multi-use engine oil for high-performance diesel engines.

Offers optimum power reserves plus excellent lubricant film stability, and good wear protection properties for extended oil change intervals.

- For universal use in petrol and diesel engines
- Excellent cleaning and dispersing properties
- Compatible with all commercially available engine oils
- Tested for catalytic converters



Type of oil	Mineral
Viscosity grade	15W-40
Approved for engine oils	ACEA E7, ACEA A3/B4, API SL/CI-4, JASO DH-1, MAN M3275-1, MB 228.3, Renault RLD-2, Volvo VDS-3
Recommended applications for engine oils	Allison C4, Caterpillar ECF-1-a, Caterpillar ECF-2, Cummins 20078, Cummins 20076, Cummins 20077, Deutz DQC III-05, Global DHD-1, John Deere JDQ 78A, Mack EO-M Plus, MTU Type 2
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
20 l	0897 325 403	1
60 l	0897 325 404	1
208 l	0897 325 405	1

Please consider the legal instruction at the beginning of this chapter.

Engine oil TRIATHLON® Performance 5W-40

Modern smooth-running year-round engine oil for passenger cars, excellent protection against wear

- Reduces oil and fuel consumption and provides quick oiling of the engine
- Depending on the manufacturer's specifications, oil change intervals of up to 30,000 km are possible
- HC synthetic



Type of oil	HC synthesis
Viscosity grade	5W-40
Approved for engine oils	MB 229.31, Ford WSS-M2C 917-A, VW 505 00, VW 505 01, ACEA C3, API SN/CF
Recommended applications for engine oils	Porsche A40, Renault RN 0710, BMW Longlife-04
Shelf life from production	60 Month

Continuation **Engine oil TRIATHLON® Performance 5W-40**

Contents	Art. no.	P. Qty.
	0897 705 409	1
1 l	0897 705 401	1/12
5 l	0897 705 402	1/3
20 l	0897 705 403	1
60 l	0897 705 404	1
208 l	0897 705 405	1

Please consider the legal instruction at the beginning of this chapter.

ACEA A3-04/B4-04 must be removed, only ACEA C3-04 may remain.

BMW Longlife-04 must be removed from the release and may only be offered now as a recommendation.

Engine oil TRIATHLON® Power 5W-40

Smooth-running engine oil for maximum performance in petrol and diesel engines

TRIATHLON engine oils are produced and packaged in compliance with the most stringent quality specifications in accordance with DIN EN ISO 9001

- High product safety
- Extensive manufacturer approvals

Only high-quality first refinery products and raw materials are used in TRIATHLON oils

Satisfies important specifications of automotive manufactures

Properties:

- Excellent corrosion protection
- Good cold-start properties
- Long oil change interval owing to outstanding ageing stability
- Good lubricating properties
- Optimal engine cleanliness
- Can be mixed with standard engine oils



Type of oil	HC synthesis
Viscosity grade	5W-40
Recommended applications for engine oils	BMW Longlife-98
Shelf life from production	60 Month

Contents	Approved for engine oils	Art. no.	P. Qty.
1 l	API SN/CF, ACEA A3/B4, MB 229.3, VW 502 00, VW 505 00	0897 605 401	1/12
5 l	ACEA A3/B4, MB 229.3, VW 502 00, VW 505 00, API SN/CF	0897 605 402	1/3
60 l	ACEA A3/B4, API SN/CF, MB 229.3, VW 502 00, VW 505 00	0897 605 404	1
208 l	ACEA A3/B4, MB 229.3, VW 502 00, VW 505 00, API SN/CF	0897 605 405	1

Please consider the legal instruction at the beginning of this chapter.

Approvals/specifications:

- ACEA A3, B4
- API SN, CF
- MB approval 229.3
- VW 502 00, 505 00

Recommendation:

- BMW Longlife-98

Performance class/Approval

- API SN
- ILSAC GF-5
- Würth also recommends this product for: Daihatsu, Honda, Hyundai, Kia, Isuzu, Mazda, Mitsubishi, Nissan, Suzuki, Toyota, Subaru, GM

Engine oil TRIATHLON® Premium M 5W-30

State-of-the-art, low-ash, smooth-running engine oil for passenger cars

- Produced and packaged in compliance with the most stringent quality specifications in line with DIN EN ISO 9001
- Made with high-quality first raffinates and raw materials
- Ensures rapid oil supply to the engine and provides excellent protection against wear
- Guarantees maximum service life of diesel particulate filters and ensures optimum engine performance
- HC synthetic oil



Type of oil	HC synthesis
Viscosity grade	5W-30
Approved for engine oils	ACEA C1-08
Recommended applications for engine oils	Ford WSS-M2C 934-B, Mazda, Mitsubishi
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
60 l	0897 905 324	1
208 l	0897 905 325	1

Please consider the legal instruction at the beginning of this chapter.

ACEA C1-08, Ford WSS-M2C 934-B

Würth also recommends this product for vehicles that comply with the following specifications:

Mazda, Mitsubishi

Tested for turbochargers and catalytic converters

Engine oil TRIATHLON® Premium P 5W-30

State-of-the-art low-ash, smooth-running engine oil for passenger cars

- Produced and packaged in compliance with the most stringent quality specifications in line with DIN EN ISO 9001
- Made with high-quality first raffinates and raw materials
- Specifically formulated for ensuring maximum service of diesel particulate filters
- Provides excellent protection against wear, saves fuel and reduces emissions
- Oil change intervals of up to 40,000 km are possible depending on the manufacturer's specifications
- HC synthetic oil



Type of oil	HC synthesis
Viscosity grade	5W-30
Approved for engine oils	ACEA C2
Recommended applications for engine oils	Honda, Toyota, Fiat 9.55535-S1, ACEA A1/B1, ACEA A5/B5, PSA B71 2290, Mazda
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
1 l	0897 905 311	1/12
5 l	0897 905 312	1/3
20 l	0897 905 313	1
60 l	0897 905 314	1
208 l	0897 905 315	1

Please consider the legal instruction at the beginning of this chapter.

ACEA A1-04/B1-04/A5-04/B5-04/C2-04, API SM/CF

Würth also recommends this product for vehicles that comply with the following specifications:

Peugeot, Citroen, Honda, Toyota, Fiat 9.55535-S1, ILSAC GF-3

Engine oil TRIATHLON® Premium R 5W-30

State-of-the-art, low-ash, smooth-running engine oil for passenger cars

- Produced and packaged in compliance with the most stringent quality specifications in line with DIN EN ISO 9001
- Made with high-quality first raffinates and raw materials
- Prevents deposits and ensures maximum engine power
- Provides excellent protection against wear and reduces oil and fuel consumption
- Ensures maximum service life of diesel particulate filters
- HC synthetic oil



Type of oil	HC synthesis
Viscosity grade	5W-30
Approved for engine oils	ACEA C4-08
Recommended applications for engine oils	Renault RN 0720
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
60 l	0897 905 334	1
208 l	0897 905 335	1

Please consider the legal instruction at the beginning of this chapter.

ACEA C4-08, Renault RN 0720

Tested for turbochargers and catalytic converters

Engine oil TRIATHLON® Ultra 10W-40

Smooth-running engine oil with synthetic components for passenger cars

- Fuel-saving, smooth-running oil with excellent cold-starting behaviour
- Outstanding protection against wear and corrosion
- Mineral



Type of oil	Mineral
Viscosity grade	10W-40
Recommended applications for engine oils	PSA B71 2294
Shelf life from production	60 Month

Contents	Approved for engine oils	Art. no.	P. Qty.
	MB 229.3, VW 505 00, VW 501 01, ACEA A3/B4, API SN	0897 110 409	1
1 l	MB 229.3, VW 501 01, VW 505 00, API SN, ACEA A3/B4	0897 110 401	1/12
5 l	VW 505 00, MB 229.3, VW 501 01, ACEA A3/B4, API SN	0897 110 402	1/3
20 l	VW 505 00, MB 229.3, VW 501 01, ACEA A3/B4, API SN	0897 110 403	1
60 l	VW 505 00, MB 229.3, VW 501 01, ACEA A3/B4, API SN	0897 110 404	1
208 l	VW 505 00, MB 229.3, VW 501 01, ACEA A3/B4, API SN	0897 110 405	1

Please consider the legal instruction at the beginning of this chapter.

ACEA A3-04/B3-04, API SN, VW 501 01 / 505 00, MB approval 229.3

Engine oil TRIATHLON® Universal SAE 15W-40

High-performance, multigrade engine oil for optimum lubrication and a long engine service life

- Good wear protection properties and prevention of black sludge formation
- Low oil consumption as well as being very resistant to ageing, viscosity and temperatures
- Mineral



Type of oil	Mineral
Viscosity grade	15W-40
Approved for engine oils	API SL, API CF, API CG 4, MB 228.3, MB 229.1, Caterpillar TO-2, ACEA A3/B4, ACEA E2 #5, Allison C4
Recommended applications for engine oils	Mack EO-L, MTU Type 2, Volvo VDS, MAN M3275-1, PSA B71 2295

Continuation **Engine oil TRIATHLON® Universal SAE 15W-40**

Shelf life from production	60 Month
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Contents	Art. no.	P. Qty.
1 l	0897 115 401	1/12
5 l	0897 115 402	1/3
20 l	0897 115 403	1
60 l	0897 115 404	1
208 l	0897 115 405	1

Please consider the legal instruction at the beginning of this chapter.

ACEA A3-04/B4-04/E2-96 #5, API SL/CF/CG-4, MB approval 229.1, MB approval 228.3, Allison C4, Caterpillar TO-2

Würth also recommends this product for vehicles that comply with the following specifications:

Volvo VDS, Mack EO-L, MTU Type 2

TRIATHLON® chainsaw oil ISO VG 100

Wear-inhibiting chainsaw oil for power saw chains and gate saws

- Optimum lubrication and protection against wear on all movable parts, such as chain links and joints
- Allows year-round use, even at high and low temperatures

Chemical basis	Mineral oil
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Contents	Colour	Art. no.	P. Qty.
20 l	Graphite black	0897 009 093	1
60 l		0897 009 094	1

Please consider the legal instruction at the beginning of this chapter.

TRIATHLON® tractor oil STOU 10W-40

Universal oil for agricultural machinery

- Produced and packaged in compliance with the most stringent quality specifications in line with DIN EN ISO 9001
- Made with high-quality first raffinates and raw materials
- Universal oil STOU (= Super Tractor Oil Universal)
- Protects against wear and is resistant to oxidation
- ACEA E2 API CF-4/SF/GL 4

Type of oil	Mineral
Viscosity grade	10W-40
Shelf life from production	60 Month



Contents	Approved for engine oils	Recommended applications for engine oils	Art. no.	P. Qty.
60 l	API CF 4, API SF, API GL 4, ACEA E2	ZF TE-ML 06B, ZF TE-ML 07B, MB 227.1, MB 228.1, David Brown, Fendt, KHD, Mack EO-K, Mack EO-K2, Massey Ferguson M1139, Massey Ferguson M1144, Massey Ferguson M1145, MIL-L 46152 C, MIL-L 2104 D, MIL-L 2105, Steyr, Allison C4, Caterpillar TO-2, John Deere J27, Ford New Holland M2C 159-C, Ford New Holland M2C 159-B, Ford New Holland M2C 84-A, CASE (IHC) B6	0897 010 404	1
208 l	API GL 4, API CF 4, API SF, ACEA E2	ZF TE-ML 06B, ZF TE-ML 07B, MB 227.1, MB 228.1, David Brown, Fendt, KHD, Mack EO-K, Mack EO-K2, Massey Ferguson M1139, Massey Ferguson M1144, Massey Ferguson M1145, MIL-L 46152 C, MIL-L 2104 D, MIL-L 2105, Steyr, Allison C4, Caterpillar TO-2, John Deere J27, CASE (IHC) B6, Ford New Holland M2C 159-C, Ford New Holland M2C 159-B, Ford New Holland M2C 84-A	0897 010 405	1

Please consider the legal instruction at the beginning of this chapter.

TRIATHLON® tractor oil STOU/UTTO 10W-30

Universal oil for agricultural machinery

- Produced and packaged in compliance with the most stringent quality specifications in line with DIN EN ISO 9001
- Made with high-quality first raffinates and raw materials
- Universal oil that meets the key requirements for both STOU and UTTO
- ACEA E2 API CF-4/SF/GL 4



Type of oil	Mineral
Viscosity grade	10W-30
Approved for engine oils	ACEA E2, API CF, API SF, API GL 4
Recommended applications for engine oils	ZF TE-ML 06A, ZF TE-ML 06B, ZF TE-ML 07B, New Holland 82009201, New Holland 82009202, New Holland 82009203, CASE New Holland MAT 3525, CASE New Holland MAT 3526, CASE (IHC) MS 1209, John Deere J27, John Deere J20C, Massey Ferguson CMS M1144, Massey Ferguson CMS M1139, Massey Ferguson CMS M1143, Massey Ferguson CMS M1135, Ford New Holland M2C 159-C, Ford New Holland M2C 159-B, Ford New Holland M2C 134-D
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
60 l	0897 010 324	1
208 l	0897 010 325	1

Please consider the legal instruction at the beginning of this chapter.

TRIATHLON® tractor oil UTTO 10W-30

Multi-purpose oil for forestry and agricultural machinery

Advanced multigrade oil (UTTO = Universal Tractor Transmission Oil)

Specifically for forestry machinery and agricultural machinery.

Reduces the types of oil required

For use in gearboxes, hydraulic systems and wet brakes.



Type of oil	Mineral
Viscosity grade	10W-30
Approved for engine oils	API GL 4
Recommended applications for engine oils	John Deere J20D, New Holland M2C 41B, New Holland M2C 48B, Ford M2C-86-B, Ford M2C-53-A, Ford M2C-134-A, Ford M2C-134-B, Ford M2C-134-C, Ford M2C-134-D, Allison C4, Caterpillar TO-2, CASE (IHC) MS 1204, CASE (IHC) MS 1205, CASE (IHC) MS 1206, CASE (IHC) MS 1207, CASE (IHC) MS 1209, Massey Ferguson M1135, Massey Ferguson M1141, Massey Ferguson M1143, Massey Ferguson M1145, SAME-Lamborghini, Fendt, Deutz, Schlüter, Landini, Renault, Volvo BM WB 101, AGCO Q-1826, CASE (IHC) B6
Shelf life from production	60 Month

Contents	Art. no.	P. Qty.
60 l	0897 010 304	1
208 l	0897 010 305	1

Please consider the legal instruction at the beginning of this chapter.

Observe the operating specifications provided by the tractor manufacturer. Compatible with all commercially available engine oils. However, it is only fully effective when used unmixed.

Compressed air drum pump

Pneumatically operated, double-action pump for non-aggressive liquids, oils, low-viscosity greases

- Digital measuring instrument with LCD display
- Min./max. output: 1/25 l per minute
- Total height/weight: 1230 mm, 8 kg



Hose length	3 m
Pump-tube length	930 mm
Connection thread	2 inch
Max. flow volume	25 l/min
Min. air pressure	3 bar
Max. temperature conditions	50 °C

Art. no. 0891 625

P. Qty.: 1

Max. air pressure of 10 bar must never be exceeded. Pump performance is lower at working temperatures below 10°C. The digital measuring instrument cannot be calibrated.

Hand-lever drum pump

Self-aspirating, robust polypropylene hand-lever drum pump

- Locking ring for secure hold
- Telescopic pump pipe for 60 l and 200 l drums; adjustable from 500–900 mm
- Feed quantity: approx. 300 ml/stroke

Material	Plastic
Colour	Black, Red
Min. pipe length	500 mm
Max. pipe length	900 mm
Connection thread	2 inch



Art. no. 0891 621

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Brake fluid DOT 4, low viscosity

For hydraulic brake systems. Prescribed for VW/Audi, BMW and Opel vehicles.

- Excellent protection against corrosion compared to iron and non-ferrous metals
- High degree of thermal stability
- Suitable for innovative brake systems (e.g. ESP)

Colour	Yellow, Amber
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Contents	Art. no.	P. Qty.
5 l	0892 009 405	1
20 l	0892 009 420	1
60 l	0892 009 460	1

Please consider the legal instruction at the beginning of this chapter.

Brake fluid DOT 4

For hydraulic brake systems. Prescribed for various VW/Audi, Seat and Skoda vehicles.

Meets and exceeds the specifications: SAE J 1703, 1704, FMVSS 116, DOT 3 and DOT 4

Brake fluids can be mixed with all other products that meet the test requirements of FMVSS 116, SAE J 1703, 1704 or ISO 4925.

Excellent lubricating properties

Suitable for use in the hydraulic power transmission of clutch systems.



Contents	Colour	Art. no.	P. Qty.
0.25 l	Colourless	0892 009 25	1/24
5 l	Yellow, Amber	0892 009 5	1
20 l	Colourless	0892 009 020	1
60 l	Colourless	0892 009 60	1

Please consider the legal instruction at the beginning of this chapter.

Change brake fluids according to the vehicle manufacturer instructions. Under no circumstance mix with automatic transmission fluids (ATF) or mineral oils. Avoid contact with painted surfaces, as brake fluids have a solvent effect on paints. Brake fluid is hygroscopic.

For canisters/drums: The tap must only be used to pour brake fluid. After use (and during storage), always seal the canister with the original lid. The taps do not ensure that the brake fluid is not enriched with humidity. Please alert your customers to the correct storage method. Observe the information provided by the vehicle manufacturer.

Brake fluid DOT 4 Plus

For hydraulic brake systems. Prescribed for Mercedes Benz vehicles.

- Meets and exceeds the specifications: SAE J 1703, 1704, FMVSS 116, DOT 3 and DOT 4
- Excellent corrosion protection compared to iron and non-ferrous metals
- High thermal stability
- Good rubber compatibility
- Outstanding lubricating properties



Colour	Yellow, Amber
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Contents	Art. no.	P. Qty.
5 l	0892 009 8	1
20 l	0892 009 820	1
60 l	0892 009 860	1

Please consider the legal instruction at the beginning of this chapter.

Brake fluid is hygroscopic.

Change brake fluids according to the vehicle manufacturer instructions. Under no circumstance mix with automatic transmission fluids (ATF) or mineral oils. Avoid contact with painted surfaces, as brake fluids have a solvent effect on paints.

The tap must only be used to pour brake fluid. After use (and during storage), always seal the canister with the original lid. The taps do not ensure that the brake fluid is not enriched with humidity. Please alert your customers to the correct storage method. Observe the information provided by the vehicle manufacturer.



Rust stop primer

Active corrosion protection and primer for metal surfaces

- Good adhesive properties on a wide variety of surfaces, including in conjunction with PU and MS polymer sealing compounds
- Temperature resistant up to 80°C, briefly up to 140°C
- Easy to sand

Contents	400 ml
Chemical basis	Epoxy resin

Colour	Art. no.	P. Qty.
Red brown	0893 210 2	1/12
White grey	0893 210 1	1/12

Please consider the legal instruction at the beginning of this chapter.

Rust Stop primer

Brushable, active corrosion protection for metallic surfaces

- Excellent corrosion protection
- Quick-drying
- Can be painted over
- Short-term temperature resistance up to +120°C
- VOC-compliant

Contents	750 ml
Weight of content	960 g
Chemical basis	Alkyd resin



Colour	Art. no.	P. Qty.
Red brown	0890 191	1/6
White grey	0890 192	1/6

Please consider the legal instruction at the beginning of this chapter.

Primer Rust Stop Quattro

Fast-drying universal primer with a broad range of applications

- Unique combination of primer, adhesion promoter, corrosion protection and welding primer in one product
- Very high temperature resistance up to 300°C, short-term resistance up to 500°C
- Lower solvent content
- Complies with the maximum VOC content specified in the VOC Directive (1999/13/EC)

Contents	400 ml
Chemical basis	Polyvinyl butyral
Colour	Silver grey



Art. no. 0893 214 1

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Turn the can upside down and spray until the valve is empty after use.

Rust converter

Environmentally friendly dispersion-based rust converter

- Can be filled or painted over
- Environmentally friendly, as dispersion-based
- Reliably stops the corrosion process and provides an optimised application surface for additional paint work

Contents	1000 ml
Colour	Cream
Shelf life from production	60 Month
Max. temperature resistance	120 °C



Art. no. 0893 110

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Do not wash treated surfaces with water. Immediately wash the rust converter off painted surfaces. Do not use in direct sunlight, on hot surfaces over +40°C and when there is risk of frost. Protect from frost. Clean the equipment with water after use.

Rust converter spray

Corrosion protection paint with rust-conversion properties

- Ideal for difficult rust-affected areas, forms an iron complex that neutralises the rust layer
- High-quality epoxy primer for reliable protective layer
- Can be filled or painted over, silicone-free and acid-free

Contents	400 ml
Colour	Colourless
Shelf life from production	24 Month
Max. temperature resistance	100 °C



Art. no. 0893 110 400

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Hardenes at room temperature. After use, turn the can upside down and spray until the valve is empty. Only 1-C products should be used when applying paint.

Anti-corrosion varnish Zinc 300

Provides permanent protection against corrosion

- Excellent corrosion protection
- Temperature resistance up to approx. 300°C
- Quick drying

Contents	500 ml
Chemical basis	Fixed metallic zinc dust
Colour	Silver coloured
Drying time	15 min
Conditions for drying time	at 20 °C



Art. no. 0892 200

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Zinc spray

Long-term protection and repair of metallic surfaces

- Excellent corrosion protection
- Excellent adhesive properties on bare metal
- Excellent spot welding properties

Contents	400 ml
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Chemical basis	Colour	Art. no.	P. Qty.
Alkyd resin	Zinc	0893 113 113	1/12
Alkyd resin combination	Zinc, bright	0893 113 114	1/12

Please consider the legal instruction at the beginning of this chapter.

Not suitable as adhesive base for PU, MS polymer and hybrid sealing compounds.

Perfect aluminium spray, matt

Outstanding long-term protection and optimum metal surface appearance

- High layer thickness with first spray coat
- Versatile use thanks to adjustable spray head
- Good resistance to running and abrasion
- Spot weldable

Chemical basis	Acrylated alkyd combination
Contents	400 ml
Colour	Aluminium coloured

Art. no. 0893 114 115

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Perfect zinc spray and Perfect zinc spray, light contain zinc, and therefore offer optimum cathodic protection against corrosion. If the surface is damaged, the zinc coating sacrifices itself (sacrificial anode), thereby protecting the metal against rust. If the surface is damaged, the metal is no longer protected.

Not suitable as adhesive base for PU, MS polymer and hybrid sealing compounds.



High-shine Perfect aluminium silver spray

Outstanding long-term protection and optimum metal surface appearance

- High layer thickness with first spray coat
- Versatile use thanks to adjustable spray head
- Good resistance to running and abrasion

Contents	400 ml
Colour	Aluminium silver
Gloss level	High gloss
Min. curing time	4 h
Min. dust-drying time	15 min

Art. no. 0893 114 119

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Not suitable as adhesive base for PU, MS polymer or hybrid sealing compounds.



Stainless steel spray Perfect

Outstanding long-term protection and optimum metal surface appearance

- High layer thickness with first spray coat
- Versatile use thanks to adjustable spray head
- Good resistance to running and abrasion
- Spot weldable

Chemical basis	Acrylated alkyd combination
Contents	400 ml
Colour	Stainless steel coloured, Chrome coloured
Dry layer thickness (first back-and-forth motion)	30 µm
Min. dust-drying time	15 min



Art. no. 0893 114 116

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Perfect zinc spray and Perfect zinc spray, light contain zinc, and therefore offer optimum, active cathodic protection against corrosion. If the surface is damaged, the zinc coating sacrifices itself (sacrificial anode), thereby protecting the metal against rust.

Not suitable as adhesive base for PU, MS polymer and hybrid sealing compounds.



Perfect zinc spray

Outstanding long-term protection and optimum metal surface appearance

- High layer thickness with first spray coat
- Spot weldable

Tested corrosion protection in accordance with DIN

- Perfect zinc spray, light: 250 hours
- Perfect zinc spray: 500 hours
- Can be used for repairs in accordance with DIN EN ISO 1461

Contents	400 ml
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Chemical basis	Colour	Gloss level	Art. no.	P. Qty.
Acrylic resin	Zinc	Matt	0893 114 113	1/12
Modified alkyd resin	Zinc, bright	Glossy	0893 114 114	1/12

Please consider the legal instruction at the beginning of this chapter.

Gravel throw and underbody protection

Rubber-based coating compound containing solvents, can be painted over

Can be painted over with many commercially available, solvent-based and water-based one-component and two-component top coat paints

Tip for pros

- Various structures can be sprayed by varying the distance or pressure
- The colour becomes darker after staining with clear varnish



Contents	Colour	Art. no.	P. Qty.
500 ml	Black	0892 075 250	1/12
500 ml	Grey	0892 075 350	1/12
1000 ml	Black	0892 075 200	1/12
1000 ml	Grey	0892 075 300	1/12

Please consider the legal instruction at the beginning of this chapter.

Do not spray on joints, engines, gears and brake systems. After use, turn the can upside down and spray until the valve is empty. Do not dilute, or mix with water or paint. The product can be painted within 24 hours. It can then only be painted once it has been sanded and cleaned.

Stone chip protection AQUA

Climate-optimized, paintable, water-based stone chip protection.

- Dries completely down to -10°C
- Suitable for oven drying
- Very easy to sand once completely dry

Contents	1 l
----------	-----



Colour	Art. no.	P. Qty.
Black	0892 070 100	1/12
Grey	0892 070 200	1/12

Please consider the legal instruction at the beginning of this chapter.

Dries down to -10°C. When painting, ambient influences must be observed. Do not spray on joints, engines, gears and brake systems. Dilution with water (maximum 2%). With IR (infra-red) drying, the following must be taken into account:

- Maximum drying time depends on the temperature, coat thickness, fresh air or compressed air supply
- When using IR drying, the material must not be heated above maximum 60°C, as blistering may occur

Underbody seal Special

Vapour-permeable underbody seal for use on wooden underbodies

- Excellent adhesion to wood
- No run-off on vertical surfaces
- Highly resistant to ageing

Contents	500 ml
Colour	Black
Chemical basis	Mix naphtha, solvent, propellant
Min. proportion of solids	33 %
Min. skin-formation time	75 min
Drying time	135 min



Art. no. 0892 078 550

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Store the product in a cool, dry place. Recommended storage temperature +10°C to +30°C. Protect from direct sunlight. Product can be removed again after application with thinner. Once dried, the product can be removed again only by mechanical means. Turn the can upside down and spray until the valve is empty after use.

Wax underseal

Wax-based coating compound containing solvents, cannot be painted over

- Permanently elastic with self-healing effect
- Paint-, rubber- and PVC-compatible
- Resistant to splash water and salt water, weak acids and bases

Chemical basis	Wax
Min. skin-formation time	48 h



Contents	Colour	Min. proportion of solids	Drying time	Art. no.	P. Qty.
500 ml	Beige	39.9 %	150 h	0892 079 500	1/12
500 ml	Black	39 %	150 h	0892 078 500	1/12
1000 ml	Beige	80 %	120 h	0892 079 100	1/12
1000 ml	Black	80 %	120 h	0892 078 100	1/12

Please consider the legal instruction at the beginning of this chapter.

Underseal

Bitumen-based coating compound containing solvents, cannot be painted over

- With long-term protection and anti-rusting effect
- Resistant to splash water and salt water, weak acids and bases

Colour	Black
Chemical basis	Bitumen
Min. skin-formation time	75 min
Drying time	2.5 h



Contents	Min. proportion of solids	Art. no.	P. Qty.
500 ml	33 %	0892 073	1/12
1000 ml	66 %	0892 072	1/12

Please consider the legal instruction at the beginning of this chapter.

Do not spray on joints, engines, gears and brake systems. After use, turn the can upside down and spray until the valve is empty.

Lead-free bodywork tinning paste

Lead-free, high-quality S-Sn97Cu3 tinning paste. Flux type in accordance with DIN EN 29454-1.

- Melting range: 230–250°C
- Complies with the legal specifications of European Parliament Directive 2000/53/EC and the German national used vehicle law
- Tin content 60–70%, lead-free

Weight of content	1 kg
Colour	Light grey



Art. no. 0982 90

P. Qty.: 1

Cavity wax

For repairs and long-lasting protection

- High permeability and excellent penetration
- High resistance to heat and good flexibility in the cold
- Optimal corrosion protection from a layer thickness of just 50 µ

Colour	Beige
--------	-------



Continuation **Cavity wax**

Contents	Container	Art. no.	P. Qty.
500 ml	Aerosol can	0892 082 105	1/12
1000 ml	Can	0892 082 100	1/12

Please consider the legal instruction at the beginning of this chapter.

The material temperature should be +10°C to +30°C. After use, turn aerosol can upside down and spray until nozzle is empty.

Protective wax

Highly transparent wax anti-corrosive agent that displaces water

- 360° valve allows the bottle to be used in all possible positions – even from overhead
- Heat-resistant up to +160°C

Contents	400 ml
Colour	Transparent
Min./max. skin-formation time	90-120 min

Art. no. 0893 082 400

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Not suitable for use on visible painted surfaces



Corrosion protection spray

Creep capacity, colourless special fluid

- Low-viscosity special oil with excellent penetrating properties
- Excellent material compatibility on various surfaces such as varnished surfaces, metals and plastics
- Self-sealing protective film that does not dry
- Economical
- Excellent salt water resistance in line with ASTM B117

Contents	300 ml
Colour	Transparent
Corrosion protection period	6 Month

Art. no. 0893 15

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

This information is only a recommendation based on our experience. Check material compatibility on an invisible area if necessary.



Anti-corrosive wax

Ready-to-use protective wax with long-acting effect on metal surfaces, including for outdoor use.

Forms a wax-like protective film

Extra-long protection and excellent weather resistance

Easy and reliable to apply

Hardly any dust adhesion, fast drying, no need to dilute

Contents	5 l
Container	Canister
Colour	Milky-transparent (protective film)
Corrosion protection period	3 Years

Art. no. 5991 521 292

P. Qty.: 1

Winter service vehicles must be post-treated. Do not apply to hot surfaces.



Plastic adhesion promoter SR

Plastic adhesion promoter for use in spot repairs of plastic parts.

- Even application rate
- Constant atomisation pressure produces high yield
- Excellent adhesion properties
- Dries quickly

Contents	400 ml
Colour	Transparent

Art. no. 5867 000 125

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Not suitable for PE, Styrofoam and synthetic resin-coated surfaces. After use, turn the can upside down and spray until the nozzle is empty.



Primer filler 2-component Multi-Fill

2-component epoxy primer filler for optimum application safety on all metals, anodised surfaces and GFRP.

- Optimal adhesion and corrosion protection properties on bare sheet metal
- Very good insulating action
- Can be filled
- Long application time approx. 4 days at 20°C
- Can be painted over, wet-on-wet

Contents	400 ml
Colour	Beige



Continuation **Primer filler 2-component Multi-Fill**

Art. no. 0893 213 1

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Cannot be used over acidic primer. In conjunction with PE spray filler, it is essential that the drying times are observed. Turn the can upside down and spray until the valve is empty after use.

Thick-film primer filler

Corrosion protection with excellent filling and coverage for metallic surfaces.

Excellent adhesion properties

- Adheres to aluminium, bare and galvanised sheet metal, old paint etc.
- Also adheres in conjunction with PU and MS polymer sealing compounds

Long-lasting corrosion protection

Contents	400 ml
Colour	Grey
Drying time	25 min
Can be varnished after	15 min



Art. no. 0893 212 1

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Can be used on galvanised and hot-dip galvanised surfaces following pre-treatment with zinc cleaner under certain conditions. Turn the can upside down and spray until the valve is empty after use.

Primer filler

Active protection against corrosion with excellent filling properties for metallic surfaces

- Quick-drying primer filler with active protection against corrosion for optimum top-coat results
- Excellent adhesive properties
- Excellent filling properties
- Heat-resistant up to 110°C
- Very easy to sand
- VOC-compliant

Contents	400 ml
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Colour	Art. no.	P. Qty.
Dark grey	0893 211 101	1/12
Light grey (bright grey)	0893 211 103	1/12
Medium grey	0893 211 102	1/12

Please consider the legal instruction at the beginning of this chapter.

Turn the can upside down and spray until the valve is empty after use.

Underseal gun

For applying stone chip and underseal products containing solvents.

With variable spraying nozzle

For restoring original structures of sill panels, wheel wells, under-carriages etc.

Art. no. 0891 106 3

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Cannot be used to apply cavity sealing products. Nylon probes cannot be connected.



Underseal cup gun

For applying solvent- and water-based stone chip protection, underbody seal and cavity sealing products

- Flexible range of applications
- One application device for all applications
- For restoring original textures on sill boards, wheel wells, under-carriages etc.
- User safety
- Excluding probes

Art. no. 0891 110 500

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Corrosion protection agent Metalyt

Repair coat for retrospective galvanising with TITANID formula

- Ideal surface structure for all bodywork and paintwork
- Sprayable micro-coating for professional trades
- One spray coat is sufficient
- Spot welding, inert gas welding and gas fusion welding possible

Chemical basis	Zinc in inorganic-organic matrix
Contents	400 ml
Colour	Silver grey
Min./max. dust-drying time/conditions	5-8 min/at 20°C

Art. no. 0893 214 420

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Continuation **Corrosion protection agent Metalyt**



TITANID
corrosion pro-
tection formula
awarded
The German
Raw Material
Efficiency prize
2011

Dust-dry after approx. 5–8 minutes. Dry to handle after approx. 1 hour. Can be filled and painted after 2 hours/60°C or 24 hours at room temperature. Complete mechanical loads after 2–3 days.

Corrosion protection Promax

Anti-corrosive coating and welding primer with TITAN-ID formula

- Optimum protection and maximum safety even at 10–20 µm coat thickness
- Excellent to weld
- Permanently temperature resistant up to 300°C

Chemical basis	Zinc in inorganic-organic matrix
Contents	400 ml
Colour	Silver grey

Art. no. 0893 214 400

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



TITANID
corrosion pro-
tection formula
awarded
The German
Raw Material
Efficiency prize
2011



Dust-dry after approx. 5–8 min. Touch-dry after approx. 1 hour. Turn the can upside down and spray until the valve is empty after use.

Building marker

Marking spray with ergonomic spray head for use in the construction and surveying field

- Ergonomic spray head for clean application
- Fine, precise paint spray
- Excellent adhesion to absorbent, non-absorbent and slightly moist surfaces
- Weather-resistant and frost-proof

Contents	500 ml
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Colour	Art. no.	P. Qty.
White	0893 199 101	1/12
Yellow	0893 199 102	1/12
Red	0893 199 103	1/12
Neon blue	0893 199 104	1/12
Neon green	0893 199 105	1/12
Neon orange	0893 199 106	1/12
Neon yellow	0893 199 107	1/12
Neon red	0893 199 108	1/12

Please consider the legal instruction at the beginning of this chapter.

Impurities can be loosened and removed with 1A cleaner.

Road marker

Marking spray with safety closure for highlighting road damage and construction sites

- Fine, precise paint spray
- Excellent adhesion to absorbent, non-absorbent and slightly moist surfaces
- Excellent luminosity and coverage
- Weather-resistant and frost-proof

Contents	600 ml
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Colour	Art. no.	P. Qty.
White	0893 199 201	1/12
Yellow	0893 199 202	1/12
Red	0893 199 203	1/12
Neon blue	0893 199 204	1/12
Neon green	0893 199 205	1/12
Neon pink	0893 199 206	1/12
Neon yellow	0893 199 207	1/12
Neon red	0893 199 208	1/12

Please consider the legal instruction at the beginning of this chapter.

Fresh soiling can be removed with thinner. Hardened marking paint can be removed with a high-pressure cleaner and a brush. The shelf life is 2 years.

Forest marker

Fluorescent forest marker spray for woodworking and forestry applications

- For drawing, marking and labelling
- Very luminous markings visible from a distance
- Water and weather-resistant
- Excellent adhesion – even on damp surfaces

Contents	500 ml
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Colour	Art. no.	P. Qty.
White	0892 175 10	1/12
Red fluorescent	0892 175 11	1/12
Orange fluorescent	0892 175 12	1/12
Yellow fluorescent	0892 175 13	1/12
Green fluorescent	0892 175 14	1/12
Blue fluorescent	0892 175 15	1/12
Pink fluorescent	0892 175 16	1/12

Please consider the legal instruction at the beginning of this chapter.



This information is only a recommendation based on our experience. Preliminary testing required!

Line marker

Marking spray for manually marking and line marking in the line-marking cart

- Abrasion-resistant
- Resistance to weathering
- Wide range of applications
- Quick drying time
- Economical
- Easy to use

Contents	500 ml
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Colour	Art. no.	P. Qty.
Red	0893 199 12	1/12
White	0893 199 10	1/12
Yellow	0893 199 11	1/12

Please consider the legal instruction at the beginning of this chapter.

The protective cap can be secured against unwanted spraying by turning. Fresh soiling can be removed with thinner. Hardened marking paint can be removed with a high-pressure cleaner and a brush. The shelf life is two years.

The surface must be dry and free from dust or grease. Cannot be used on other paints or paint residues.

Line marking cart

Marking cart for line marking with line marker art. no. 0893 199 10, 0893 199 11 and 0893 199 12

- Precise line demarcation, runs very straight
- Height-adjustable retainer for setting the spray stream width with measuring scale
- Centrally and laterally adjustable retainer for line and kerb marking
- Height-adjustable handle which can be adjusted for right-/left-handed use
- Spray stream width 40–110 mm
- 3 holders for spare spray cans



Colour	Red
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Art. no. 0891 198

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

When ordering the line marking trolley, please order the spray head, art. no. 0891199, separately.

Wood decking oil

For protecting and freshening up wood for outdoor use

Penetrates deep into the wood

- Provides reliable protection against penetrating moisture
- Increases durability of wood
- Keeps the wood elastic
- Less susceptible to cracking



Contents	2.5 l
Chemical basis	Alkyd resin
Smell/fragrance	Odourless
Density/conditions	0.82 g/cm ³ /at 20 °C

Colour	Art. no.	P. Qty.
Bangkirai	0890 997 302	1
Natural	0890 997 300	1
Teak	0890 997 301	1

Please consider the legal instruction at the beginning of this chapter.

Do not use on hot surfaces or in direct sunlight. The surface must be dry. Oil-soaked cloths can ignite spontaneously and must be disposed of in a tightly sealed container following use.

Surface repair set

For kitchen work surfaces, table-top surfaces, parquet floors, staircases and much more.

The most important products for repairing damage to surfaces or edge areas that are subsequently exposed to major loads, all in one set.



Included in delivery (Lieferumfang)	Hard wax, 20 pcs., 0964 890 6; gas melter 0890 305 3; fine-grain pens, 3 pcs., 0890 403 600
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Art. no. 0964 890 011

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Contents for art. no. 0964 890 011

Designation	Art. no.	Quantity
Gas melter	0890 305 3	1
Fine-grain pens, assortment	0890 403 600	1
Hard wax, assortment	0964 890 6	1

Hard wax, assortment

For filling larger damaged areas on the surface or around edges that are subsequently exposed to major stresses.

- High-strength
- Wide range of colours
- Colours can be mixed
- Inexpensive repair work



Number of pieces in assortment/set	20 PCS
Min./max. processing time	3-5 min

Art. no. 0964 890 6

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Contents for art. no. 0964 890 6

Designation	Art. no.	Quantity
Hard wax Pure white	0890 403 101	1
Hard wax Colourless	0890 403 102	1
Hard wax Maple	0890 403 103	1
Hard wax Pine	0890 403 104	1
Hard wax Maple	0890 403 105	1
Hard wax Beech, middle	0890 403 106	1
Hard wax Ash	0890 403 107	1
Hard wax Alder, medium	0890 403 108	1
Hard wax Beech, dark	0890 403 109	1
Hard wax Oak bright	0890 403 110	1

Contents for art. no. 0964 890 6		
Designation	Art. no.	Quantity
Hard wax Cherry tree	0890 403 111	1
Hard wax Pear, middle	0890 403 112	1
Hard wax Pear, dark	0890 403 113	1
Hard wax Oak, rustic	0890 403 114	1
Hard wax Oak, dark	0890 403 115	1
Hard wax Brown	0890 403 116	1
Hard wax Walnut, medium	0890 403 117	1
Hard wax Mahogany	0890 403 118	1
Hard wax Bog oak	0890 403 119	1
Hard wax Jet black, similar to RAL 9005	0890 403 120	1

Hard wax

For filling larger damaged areas on the surface or around edges that are subsequently exposed to major loads.

High strength

- Specifically for repairing areas exposed to high loads within the surface area
- High friction resistance

Inexpensive repair work

Instead of replacement or costly new surface treatment of the whole surface.

Chemical basis	Wax
Min. processing time	3 min
Max. processing time	5 min
Softening point	76 °C
Conditions for softening point	in accordance with ISO 2207
Min. dripping point	81 °C
Dripping point conditions	in accordance with DIN 51801
Min. flashing point	100 °C

Colour	Art. no.	P. Qty.
Alder, medium	0890 403 108	5
Ash	0890 403 107	5
Beech, dark	0890 403 109	5
Beech, middle	0890 403 106	5
Bog oak	0890 403 119	5
Brown	0890 403 116	5
Cherry tree	0890 403 111	5
Colourless	0890 403 102	5
Jet black, similar to RAL 9005	0890 403 120	5
Mahogany	0890 403 118	5
Maple	0890 403 103	5
Maple	0890 403 105	5
Oak bright	0890 403 110	5

Continuation **Hard wax**

Colour	Art. no.	P. Qty.
Oak, dark	0890 403 115	5
Oak, rustic	0890 403 114	5
Pear, dark	0890 403 113	5
Pear, middle	0890 403 112	5
Pine	0890 403 104	5
Pure white	0890 403 101	5
Walnut, medium	0890 403 117	5

Please consider the legal instruction at the beginning of this chapter.

- Suitable for indoor use
- Please follow the instructions for use provided in each pack carefully
- Please note that wood has a natural colour that is dependent on a number of different factors. Therefore, several wax colours should always be used to ensure the touch-up work does not show

Gas melter

Portable, gas-operated melter for quick and targeted melting of hard wax

Versatile

- Cordless operation makes the gas melter flexible to use
- Pen shape makes it easier to handle
- The gas melter is always ready to use thanks to the lighter integrated into the lid

Excellent temperature regulation

Switches off automatically when the cap is pressed on for high safety levels



Contents	9 ml
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Art. no. 0890 305 3

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

The gas melter is supplied empty. „Butane gas“, art. no. 0893250001, is required to fill the gas melter for the first time.

Gas volume is 9 ml. This equates to a burning time of 60–90 minutes.

Retouching wax

For filling and at the same time retouching fine scratches, small holes and abrasions.

Wide range of colours

Matching colours for a wide range of different wood colours.

Simple application

Fast and easy filling of small scratches, cracks and open joints.

Inexpensive repair work

Instead of replacement or costly new surface treatment of the whole surface

Low mechanical strength



Chemical basis	Wax
Softening point	50 °C
Conditions for softening point	in accordance with ISO 2207
Min. dripping point	60 °C
Dripping point conditions	in accordance with DIN 51801
Min. flashing point	180 °C

Colour	Art. no.	P. Qty.
Alder, medium	0890 403 310	5
Beech	0890 403 306	5
Jet black RAL 9005	0890 403 302	5
Maple	0890 403 304	5
Maple, bright	0890 403 307	5
Oak	0890 403 305	5
Oak, rustic	0890 403 309	5
Pear	0890 403 303	5
Pure white RAL 9010	0890 403 301	5
Walnut	0890 403 308	5

Please consider the legal instruction at the beginning of this chapter.

- Suitable for indoor use
- Please follow the instructions for use provided in each pack carefully
- Please note that wood has a natural colour that is dependent on a number of different factors. Therefore, several wax colours should always be used to ensure the touch-up work does not show

Soft wax

For filling smaller damaged areas that are not later exposed to major loads.

- Wide range of colours
- Colours can be mixed
- Easy to process
- Inexpensive repair work



Min./max. processing time	2-3 min
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Colour	Art. no.	P. Qty.
Agate grey RAL 7038	0890 403 227	5
Alder, medium	0890 403 208	5
Beech, dark	0890 403 209	5

Continuation **Soft wax**

Colour	Art. no.	P. Qty.
Beech, Larch	0890 403 234	5
Beech, middle	0890 403 206	5
Birch	0890 403 231	5
Blue grey RAL 7031	0890 403 229	5
Bog oak	0890 403 219	5
Brown	0890 403 216	5
Cherry tree, middle	0890 403 211	5
Chestnut brown	0890 403 236	5
Colourless	0890 403 202	5
Cream RAL 9001	0890 403 223	5
Deep black	0890 403 220	5
Grey white RAL 9002	0890 403 224	5
Light grey RAL 7035	0890 403 226	5
Mahogany brown	0890 403 218	5
Mahogany, dark	0890 403 241	5
Maple, bright	0890 403 230	5
Maple, middle-reddish	0890 403 205	5
Maple, nature	0890 403 203	5
Oak bright	0890 403 210	5
Oak, brownish	0890 403 235	5
Oak, dark	0890 403 215	5
Oak, nature	0890 403 232	5
Oak, rustic	0890 403 214	5
Oyster white RAL 1013	0890 403 225	5
Palisander	0890 403 237	5
Pear, dark	0890 403 213	5
Pear, middle	0890 403 212	5
Pine	0890 403 204	5
Pine, natural core	0890 403 233	5
Pure white RAL 9010	0890 403 201	5
Sen ash	0890 403 207	5
Signal white RAL 9003	0890 403 221	5
Traffic white RAL 9016	0890 403 222	5
Walnut, antique	0890 403 240	5
Walnut, dark	0890 403 239	5
Walnut, medium	0890 403 217	5
Window grey RAL 7040	0890 403 228	5

Please consider the legal instruction at the beginning of this chapter.

- Suitable for indoor use.
- Please follow the application instructions included with each assortment pack precisely.
- Please note that wood has a natural colour that depends on a wide range of different factors. Therefore, several wax colours should always be used to ensure the touch-up work does not show.

Soft wax assortment, brown

20 pieces, for filling smaller damaged areas that are not later exposed to major loads, in classic brown colours

- Large selection of colours for a wide range of different wood colour tones.
- Colours can be mixed with each other
- Easy to apply
- Cost-effective repair work



Number of pieces in assortment/set	20 PCS
Min./max. processing time	2-3 min

Art. no. 0964 890 4

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Contents for art. no. 0964 890 4		
Designation	Art. no.	Quantity
Soft wax Colour Pure white RAL 9010	0890 403 201	1
Soft wax Colour Colourless	0890 403 202	1
Soft wax Colour Maple, nature	0890 403 203	1
Soft wax Colour Pine	0890 403 204	1
Soft wax Colour Maple, middle-reddish	0890 403 205	1
Soft wax Colour Beech, middle	0890 403 206	1
Soft wax Colour Sen ash	0890 403 207	1
Soft wax Colour Alder, medium	0890 403 208	1
Soft wax Colour Beech, dark	0890 403 209	1
Soft wax Colour Oak bright	0890 403 210	1
Soft wax Colour Cherry tree, middle	0890 403 211	1
Soft wax Colour Pear, middle	0890 403 212	1
Soft wax Colour Pear, dark	0890 403 213	1
Soft wax Colour Oak, rustic	0890 403 214	1
Soft wax Colour Oak, dark	0890 403 215	1
Soft wax Colour Brown	0890 403 216	1
Soft wax Colour Walnut, medium	0890 403 217	1
Soft wax Colour Mahogany brown	0890 403 218	1
Soft wax Colour Bog oak	0890 403 219	1
Soft wax Colour Deep black	0890 403 220	1

Paint retouching pen

For recolouring and covering edges and scratches as well as for pre-colouring damaged areas. A sprung pen tip provides an even flow of paint and therefore optimum results.



Easy and quick to apply

- No brush and paint pot required
- Ready to use immediately and quick-drying

Wide range of colours

Matching colours for a wide range of different wood colours.

Good adhesion

- Adheres to many surfaces, making it suitable for universal use
- Resistant to smearing and scratch-resistant

Suitable for indoor and outdoor use

Chemical basis	Acrylic resin
Min. dust-drying time	1 min
Max. dust-drying time	2 min
Min. grip strength	2 min

Colour	Art. no.	P. Qty.
Agate grey RAL 7038	0890 403 512	1/5
Alder	0890 403 505	1/5
Beech, light	0890 403 504	1/5
Cherry tree	0890 403 506	1/5
Grey brown RAL 8019	0890 403 514	1/5
Jet black, similar to RAL 9005	0890 403 510	1/5
Light grey RAL 7035	0890 403 513	1/5
Maple	0890 403 502	1/5
Oak, rustic	0890 403 508	1/5
Pear	0890 403 507	1/5
Pine	0890 403 503	1/5
Pure white RAL 9010	0890 403 515	1/5
Signal white	0890 403 501	1/5
Traffic white RAL 9016	0890 403 511	1/5
Walnut	0890 403 509	1/5

Please consider the legal instruction at the beginning of this chapter.

The paint retouching pens are not refillable.

Retouching paint pens, assortment

For recolouring and covering edges and scratches as well as for pre-colouring damaged areas. A sprung pen tip provides an even flow of paint and therefore optimum results.

- Quick and easy application
- Wide range of colours
- Adheres to many surfaces, making it suitable for universal use
- Non-smearing and scratch-resistant
- Suitable for indoor and outdoor use



Min. grip strength	2 min
Max. grip strength	5 min
Min. dust-drying time	1 min
Max. dust-drying time	2 min
Number of pieces in assortment/set	10 PCS
Shelf life from production	24 Month

Art. no. 0964 890 1

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Contents for art. no. 0964 890 1		
Designation	Art. no.	Quantity
Paint retouching pen Colour:Signal white	0890 403 501	1
Paint retouching pen Colour:Maple	0890 403 502	1
Paint retouching pen Colour:Pine	0890 403 503	1
Paint retouching pen Colour:Beech, light	0890 403 504	1
Paint retouching pen Colour:Alder	0890 403 505	1
Paint retouching pen Colour:Cherry tree	0890 403 506	1
Paint retouching pen Colour:Pear	0890 403 507	1
Paint retouching pen Colour:Oak, rustic	0890 403 508	1
Paint retouching pen Colour:Walnut	0890 403 509	1
Paint retouching pen Jet black, similar to RAL 9005	0890 403 510	1

Paint retouching pen tip

Art. no. 0890 305 001

P. Qty.: 10

Please consider the legal instruction at the beginning of this chapter.



2-component repair filler

For all wood and imitation wood surfaces

- Hardness and strength equivalent to that of wood and high resistance to weathering.
- Begins to dry in just a few minutes, does not drop into holes and recesses and is fully resistant within 20–40 minutes depending on the room temperature.
- The filler can be painted with a wide range of paint systems.



Chemical basis	Polyester resin
Max. curing time	30 min
Shelf life from production/conditions	12 Month/at 10°C

Contents	Colour	Art. no.	P. Qty.
150 ml	Oak bright	0890 302 1	1
180 ml	White	0890 302 2	1

Please consider the legal instruction at the beginning of this chapter.

Ensure that the compound does not become too hard.

2-component repair filler and its hardener must be disposed of as special waste. Waste codes in accordance with EAK 080409 – adhesive and sealant waste that contains organic solvents and other harmful substances.

Retouching putty Wood filler

To fill and repair wood surface damage

- The pasty, easy-to-shape, fine-grained compound is extremely quick to dry
- Shades can be mixed together for improved matching of the colour to the surface of the wood
- Once completely dry, the wood filler can easily be further processed, e.g. sawed, sanded, nailed, stained, glazed, painted and polished like wood



Chemical basis	Nitro cellulose basis
Can be varnished after	12 h
Max. curing time	3 h

Contents	Colour	Shelf life from production/conditions	Art. no.	P. Qty.
50 ml	Beech	24 Month/at 10°C to 30°C	0890 304 70	1/10
50 ml	Natural	24 Month/at 10°C to 30°C	0890 304 00	1/10
50 ml	Oak bright	24 Month/at 10°C to 30°C	0890 304 10	1/10
50 ml	Oak, medium	24 Month/at 10°C to 30°C	0890 304 20	1/10
250 ml	Beech	18 Month/at 10°C to 30°C	0890 304 7	1/6
250 ml	Natural	24 Month/at 10°C to 30°C	0890 304 0	1/6

Contents	Colour	Shelf life from production/conditions	Art. no.	P. Qty.
250 ml	Oak bright	24 Month/at 10 °C to 30 °C	0890 304 1	1/6
250 ml	Oak, medium	18 Month/at 10 °C to 30 °C	0890 304 2	1/6

Please consider the legal instruction at the beginning of this chapter.

When used outdoors, a final coating must be carefully applied.

Filler Light filler

Light filler for filling joints, cracks and holes in wall and ceiling surfaces

- Ready to apply
- Virtually shrink-free
- Easy to paint
- Easy to sand (200 µm grain size fraction max. 1%)



Colour	White
Min./max. processing temperature	5 to 30 °C
Min./max. curing time	6-8 h
Shelf life from production	12 Month

Contents	Art. no.	P. Qty.
5 l	0892 162 250	1
310 ml	0892 162 310	1/24

Please consider the legal instruction at the beginning of this chapter.

Please note that these values merely serve as empirical values. It should therefore be noted that the hardening time increases with thicker joints.

Smoothing and filling filler, powder form

Polymer-modified and fibre-reinforced gypsum-based joint, filling and surface filler.

- High adhesive strength for exemplary joint formation with excellent protection against cracks
- Hardly any shrinkage in joints, slots or holes
- Processing time of approx. 50 minutes makes work easier

Colour	White
Min./max. processing temperature	5 to 25 °C
Max. processing time	50 min
Shelf life from production	10 Month
Ratio of ingredients	1 kg of spatula to 0.6 l of water
Swamp time	3 min



Continuation **Smoothing and filling filler, powder form**

Weight of content	Art. no.	P. Qty.
5 kg	0892 600 16	4
25 kg	0892 600 17	10/20

Please consider the legal instruction at the beginning of this chapter.

For further information, please refer to the technical data sheet.

Joint and surface filler WF

Ready-to-use filler for dry indoor construction, complies with EN 15824

Ready for use

- Easy to use
- No mixing tools required
- Powder and water do not spill
- No residue
- Saves time
- Consistently high level of quality



Contents	10 l
Colour	White
Min./max. processing temperature	5 to 35 °C
Min./max. drying time	2-3 h
Shelf life from production	12 Month

Art. no. 0892 600 18

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Wear a fine-dust mask when sanding.

Store WF joint and surface filler in a cool, but frost-free place. Do not expose to direct sunlight.

Joint and surface filler WLF

Ready-to-use light filler for dry and indoor use with perlite. Complies with EN 15824.

- Excellent filling power
- Stable surface
- Ready for use
- Cracks do not form, as less shrinkage
- Extremely supple and easy to sand



Contents	10 l
Colour	Light grey (bright grey)

Min./max. processing temperature	5 to 35 °C
Min./max. drying time	2-3 h
Shelf life from production	12 Month

Art. no. 0892 600 15

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Store WLF joint and surface filler in a cool, but frost-free place. Do not expose to direct sunlight.



Compressed air cleaning gun TOP Gun

Professional cleaning gun for cleaning surfaces on the vehicle.

- Micro-atomisation results in effective use of cleaning agent
- The air and cleaning agent supply can be adjusted manually
- Ball bearing drive generates swirling effect
- Low wear and maintenance

Min./max. working pressure	6-9 bar
Product weight (per item)	954 g
Max. flow rate	160 l/min

Art. no. 0891 703 140

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Compressed air cleaning gun TOP Gun Plus

Professional cleaning gun with an additional extractor with vacuum cleaner connection for cleaning all vehicle surfaces.

- Thorough cleaning with a combination of a cyclone effect and suction (extractor)
- Gently cleans delicate surfaces
- Better mobility through 360° compressed air coupling



Width x height x depth	360 x 275 x 120 mm
Min./max. working pressure	4-7 bar
Volumetric capacity	1 l
Product weight (per item)	1612 g
Max. flow rate	254 l/min

Art. no. 0891 703 160

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

For best results, the cleaning gun requires a constant air pressure of between 5.5 and 6.3 bar.

Tornador Gun spare parts kit for cleaning and washing device

Inner textile hose (1 pc), rotating hose (2 pcs), funnel (1 pc)

Art. no. 0891 703 120

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Foam gun

For use with Würth utility vehicle cleaners, workshop cleaners and service cleaners and other cleaners together with high-pressure devices or steam jets

Uniform foam structure

- Long-lasting
- Efficient use of cleaning agent thanks to a longer soaking time and slow running of the foam
- Areas in which foam has already been applied are easy to identify



Type description	Foam cleaner
Included in delivery (Lieferumfang)	Container, adapter 1/4" on union nut for Kärcher high-pressure devices M22, 1/4" on M22 reducing nipple
Min. working pressure	150 bar

Art. no. 0891 370

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Rinse the foam gun with water after use.

High-pressure sprayer

Versatile high-pressure sprayer for cleaning vehicles and buildings

- Uniform spraying pattern, even without continuous repumping
- FPM seals resistant to chemicals
- Resistant to phosphoric acid up to 85%; resistant to hydrofluoric acid up to 50%

Liquid volume	5 l
Container capacity	8 l
Working pressure	3 bar
Hose length	1.3 m
Product weight (per item)	2583 g

Art. no. 0891 385 005

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Use only for aqueous Würth cleaning products.



Alkali-resistant high-pressure spraying device

Versatile high-pressure spraying device for cleaning vehicles and buildings with maximum resistance to alkalis.

- Large pressure pad
 - Uniform spraying pattern, even without continuous repumping
- Quick and convenient to refill
 - Large filler opening with integrated funnel for fast filling of the device
- Convenient working
 - 360° rotating plastic spray pipe with flat jet nozzle facilitates comfortable and effortless work by adjusting the direction

Liquid volume	5 l
Container capacity	8 l
Flow capacity conditions	at 3 bar
Flow capacity	0.86 l/min
Max. operating temperature	40 °C
Material	HDPE - High density polyethylene
Height x width	490 x 200 mm
Hose length	2 m
Product weight (per item)	2.6 kg

Art. no. 0891 385 008

P. Qty.: 1

Use only for aqueous Würth cleaning products.



Foam high-pressure spraying device Perfect Foam

Ideal for applying cleaning foam for vehicle and commercial car cleaning

- The high-pressure spraying device transforms a cleaning agent into an effective foam, which effectively dissolves and easily removes dirt, insects and tough road grime.
- The foam sprayer creates a fixed foam cell structure, so that the foam easily adheres to the surface and can work very effectively.



Liquid volume	8 l
Container capacity	12.5 l
Flow capacity conditions	at 3 bar
Flow capacity	0.86 l/min
Max. operating temperature	40 °C
Material	HDPE - High density polyethylene
Height x width	650 x 240 mm
Hose length	2.5 m
Product weight (per item)	2.89 kg

Art. no. 0891 385 009

P. Qty.: 1

Use only for aqueous Würth cleaning products.

Vehicle cleaner Active foam

Truck shampoo that is gentle on paintwork for light to medium soiling.

- Time saving of up to 50% when used regularly
- Deep penetrating effect and high cleaning effect achieved after one application
- Silicate-free
- Phosphate-free
- Separates easily in line with Austrian standard B5105
- Empty drums can be disposed of via the German Green Dot recycling system



Container	Canister
Chemical basis	Fatty alcohols
Colour	Yellowish
pH value/conditions	13/at 20 °C
Density/conditions	1.1 g/cm ³ /at 20 °C
Shelf life from production	36 Month
AOX-free	Yes
Silicone-free	Yes
Phosphate-free	Yes
Bio-degradable	Yes

Continuation **Vehicle cleaner Active foam**

Contents	Weight of content	Art. no.	P. Qty.
60 l	66 kg	0893 044 060	1
200 l	220 kg	0893 044 200	1

Please consider the legal instruction at the beginning of this chapter.

Do not apply to hot surfaces or in direct sunlight.

Vehicle cleaner Extra strong active foam

Truck shampoo with increased cleaning power for medium to heavy soiling.

- When used regularly, time-consuming brushing is all but eliminated
- Highly effective cleaning
- Silicate-free



Chemical basis	Amphoteric tenside
Colour	Light yellow
pH value/conditions	13/at 20°C
Density/conditions	1.09 g/cm³/at 20°C
Shelf life from production	36 Month
AOX-free	Yes
Silicone-free	Yes
Phosphate-free	Yes

Contents	Weight of content	Art. no.	P. Qty.
30 l	32.7 kg	0893 045 030	1
60 l	65.4 kg	0893 045 060	1
200 l	218 kg	0893 045 200	1

Please consider the legal instruction at the beginning of this chapter.

Do not apply to hot surfaces or in direct sunlight!

Special power cleaner

For removing incredibly stubborn dirt on commercial vehicles

- For removing even the most stubborn dirt on construction vehicles and commercial vehicles
- Particularly effective on mineral debris such as cement and lime deposits
- Excellent cleaning effect with a short working time (max. 5 minutes)



Contents	20 l
Container	Canister
Chemical basis	Concentrate on acid base
Weight of content	21 kg
Colour	Light yellow
pH value/conditions	1.5/100 g/l aqueous solution

Density/conditions	1.05 g/cm³/at 20°C
Shelf life from production	24 Month
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes

Art. no. 0893 037 020

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Do not allow medium to dry out and do not apply to glass surfaces (windows). Thoroughly rinse the vehicle with a hot-water, high-pressure cleaner using plenty of water at a lance distance of 1 m.

Universal cleaner Truck Wash

Alkaline universal cleaner for cleaning tarpaulin, attachments and chassis on trucks, buses and construction machinery

- Reliably removes stubborn dirt such as grease, oil, dirt from the road, tar splashes and rubber abrasion
- Excellent washing power and quick cleaning thanks to alkaline setting
- Paints, plastics and metal parts are not attacked

Contents	30 l
Container	Canister
Shelf life from production	24 Month
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes

Art. no. 0893 038 020

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Do not use the medium in intense sunlight or on hot surfaces. Do not let it dry.

Vehicle basic cleaner

Environmentally friendly cleaning concentrate for basic cleaning during professional vehicle treatment

- Great cleaning performance
- Particularly high yield
- Oils and greases are penetrated and separated
- Optimised material compatibility
- Free of phosphate and volatile organic solvents. AOX-free.
- Biodegradable
- Silicone-free

Contents	20 l
Container	Canister
Smell/fragrance	Mild



Continuation **Vehicle basic cleaner**

Colour	Blue
pH value/conditions	8.5/undiluted
AOX-free	Yes
Silicone-free	Yes
Phosphate-free	Yes
Bio-degradable	Yes

Art. no. 0893 475 1

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Do not spray on hot surfaces or in sunlight. Do not let it dry out. Protect from frost.

Pre-spray cleaning concentrate

Alkaline cleaning agent for pre-treating and removing stubborn dirt

- Effective pre-cleaner
- Multifunctional application
- Free of phosphate, AOX and silicone
- pH value in the concentrate: approx. 13
- Easily biodegradable in line with OECD*
- Does not compromise the effectiveness of light fluid separators



Contents	25 l
Chemical basis	Anionic tenside
Smell/fragrance	Characteristic
Colour	Light brown
Container	Canister
pH value	13
Density/conditions	1.066 g/cm ³ /at 20°C
AOX-free	Yes
Silicone-free	Yes
Phosphate-free	Yes

Art. no. 0893 025 9

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

- Do not allow to dry, and do not use on galvanised surfaces
- Perform preliminary testing on surfaces sensitive to alkaline, such as aluminium
- Protect against frost

Cleaning concentrate Active wash

pH-neutral car shampoo for active-cleaning brush washing of passenger cars and commercial vehicles

- Based on active-cleaning surfactants
- Combination of special ingredients enables brushes to slide better
- No streaking when using auto waxes and drying aids
- Easily biodegradable in accordance with OECD*.
- Does not compromise the effectiveness of light fluid separators

Contents	25 l
Chemical basis	Nonionic tenside
Smell/fragrance	Lemon
Colour	Yellow
Container	Canister
pH value	7
Density/conditions	1.02 g/cm ³ /at 20°C
AOX-free	Yes
Silicone-free	Yes
Phosphate-free	Yes

Art. no. 0893 025 1

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

- Do not allow to dry!
- Store in a frost-free place!



Active foam wash

Intensive, highly concentrated foam cleaner for foam pre-treatment and wash of vehicles in car washes.

- Highly concentrated active foam
- Combination of special ingredients enables brushes to slide better
- No streaking when using auto waxes and drying aids
- Free of phosphate, AOX and silicone
- pH value in the concentrate: 7.0
- Easily biodegradable in line with OECD*. Does not compromise the effectiveness of light fluid separators.

Contents	25 l
Chemical basis	Anionic tenside
Smell/fragrance	Characteristic
Colour	Yellow
Container	Canister
pH value	7
Density/conditions	1.015 g/cm ³ /at 20°C
AOX-free	Yes
Silicone-free	Yes
Phosphate-free	Yes



Continuation **Active foam wash**

Art. no. 0893 025 2

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Do not allow to dry! Store in a frost-free place!

*OECD = Organisation for Economic Cooperation and Development

Premium active scented foam wash

Powerful pH-neutral scented foam for intensive scent across the entire car wash.

- Excellent cleaning result thanks to long penetration time
- Increases the service life of the brushes
- Does not compromise the effectiveness of light fluid separators

Contents	25 l
Chemical basis	Anionic tenside
Smell/fragrance	Fruity
Colour	Green
Container	Canister
pH value	7
Density/conditions	1.03 g/cm ³ /at 20°C
AOX-free	Yes
Silicone-free	Yes
Phosphate-free	Yes



Art. no. 0893 026 0

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Do not let it dry. Store in a frost-free place.

Premium active wash

Deep-action protection for a reflective gloss effect.

Can already be applied in the shampooing area and supports the drying process

No diminishing of method of action of light liquid separators

Readily biodegradable in accordance with OECD (Organisation for Economics Cooperation and Development).

Phosphate- and AOX-free
pH-value in concentrate: 3

Contents	25 l
Chemical basis	Cationic surfactants



Smell/fragrance	Fruity
Colour	Yellow
Container	Canister
pH value	3
Density/conditions	1.02 g/cm ³ /at 20°C
AOX-free	Yes

Art. no. 0893 026 1

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Do not let it dry. Store in a frost-free place.

Hygienic operating cleaner

Liquid, intensive, foam-based cleaning concentrate for agricultural, municipal and forestry vehicles and machinery. Effective cleaning performance due to special surfactant combinations for agricultural vehicles and machinery.

- Loosens even stubborn dirt
- Does not attack plastic, car glazing, tarpaulin, paint and rubber
- Solvent- and silicone-free



pH value	13-13.5
Ratio of ingredients	1% - 10%

Contents	Art. no.	P. Qty.
5 l	0997 368 045	1
20 l	0997 368 046	1

Blue high gloss desiccant

Liquid desiccant for use in vehicle car washes with air blowers

- Facilitates rapid breakup of large areas of water film
- Creates an additional protective film
- Free of phosphate, AOX and silicone
- pH value in the concentrate: approx. 4
- Free of mineral oil and hydrocarbons
- Does not compromise the effectiveness of light fluid separators.
- Easily biodegradable in line with OECD.



Contents	25 l
Chemical basis	Cationic surfactants
Colour	Blue
pH value	4

Continuation **Blue high gloss desiccant**

Silicone-free	Yes
Phosphate-free	Yes
Bio-degradable	Yes
AOX-free	Yes
Container	Canister

Art. no. 0893 025 5

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Store in a frost-free place! Avoid overdosing! Only use on cleaned and rinsed surfaces.

Premium blue gloss desiccant

High-performance drying aid for use in vehicle car washes with air blowers.

- Facilitates very rapid and outstanding drying
- Impressive special gloss effect
- Protects against recontamination
- Pleasant fragrance
- Does not compromise the function of light liquid separators
- Free of phosphates, AOX, mineral oils and hydrocarbons
- pH value in concentrate: approx. 4



Contents	25 l
Chemical basis	Cationic surfactants
Colour	Blue
pH value	4
AOX-free	Yes
Container	Canister

Art. no. 0893 026 6

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Do not let it dry. Store in a frost-free place.

Car shampoo 3 in 1

Vehicle cleaner with a triple effect: cleaning, gloss enhancement and maintenance are achieved in just one step.

- Special mixture of active ingredients for effective and thorough cleaning
- Coats the paint with a permanent protective film
- Boosts shine

Chemical basis	Surfactants
Colour	Blue
Phosphate-free	Yes



Contents	Container	Density/ conditions	AOX-free	Art. no.	P. Qty.
1000 ml	Bottle	1.007 g/cm ³ /at 23°C	Yes	0893 012 002	1/6
5000 ml	Canister	1.007 g/cm ³ /at 20°C		0893 012 051	1

Do not use on hot surfaces in direct sunlight. Protect from frost.

Engine cleaner Engine wash

Powerful engine cleaner for engines, engine compartments and gearboxes

High cleaning performance

- Quickly and thoroughly removes oil, grease, tar and other soiling
- The cleaner adheres to vertical surfaces due to its viscosity, which means that it can get under the dirt and loosen it to optimal effect

Gentle on materials

Sensitive surfaces such as aluminium, tin and zinc as well as painted surfaces, plastics and rubber are not attacked due to the lack of aggressive substances.

Container	Canister
Smell/fragrance	Fresh
Chemical basis	Water and alkaline tenside
pH value	8.5



Contents	Art. no.	P. Qty.
5 l	0893 013 05	1
20 l	0893 013 20	1

Please consider the legal instruction at the beginning of this chapter.

Engine cleaner

Powerful cleaner for engines, gearboxes, machines, chassis and bodywork

- Quickly and easily removes oil, grease, tar and other soiling
- Gentle on materials
- Biodegradable > 95%
- Separates easily

Contents	0.3 l
Container	Aerosol can
Smell/fragrance	Characteristic
Chemical basis	Mineral oil



Art. no. 0890 23

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

The ignition system must be covered with suitable equipment in order to prevent starting difficulties after washing the engine. For effective cleaning performance, we recommend using a hot-water high-pressure cleaner. The cleaning performance during manual application is actively supported by the use of hot water.

Injector solvent Injector-Ex

Mineral oil free injector and spark plug solvent with KENA® microfluid formula.

- Excellent creeping characteristics facilitates deep penetration of the product
- Very heavily coked injectors and spark plugs are efficiently loosened
- Effect is enhanced by slow evaporation, rust is transformed and coking is solvated
- Very cost-effective application

Contents	250 ml
Colour	Colourless
Smell/fragrance	Fruity
Chemical basis	Surfactants, ester
Shelf life from production	24 Month



Art. no. 0893 300 250

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Engine seal

Seal for engines and engine compartments of all types of vehicles

User-friendly

- No polishing required
- Can also be applied to damp surfaces

Contains silicone

Freshens up plastic parts and engine components and leaves behind a water and dirt-repellent protective film



Smell/fragrance	Pleasant
Chemical basis	Aqueous silicone solution
pH value/conditions	7.5/at 20°C

Contents	Art. no.	P. Qty.
5 l	0893 479 005	1
20 l	0893 479 020	1

Please consider the legal instruction at the beginning of this chapter.





Active glass cleaner

Active cleaning foam for streak-free cleaning on glass and smooth surfaces

- Outstanding dirt-dissolving power
- Cleans painted surfaces as well as rubber and plastic parts while remaining gentle on the material
- Saves money thanks to 20x yield

Smell/fragrance	Lemon
Colour	Colourless
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes

Contents	Container	Chemical basis	pH value	Density/conditions	Art. no.	P. Qty.
5 l	Canister	Mix of organic solvents	Approx. 10	0.97 g/cm ³ /at 20°C	0890 250 5	1
20 l	Canister	Mix of organic solvents	Approx. 10	0.97 g/cm ³ /at 20°C	0890 252 0	1
500 ml	Aerosol can	Water and propanol	9.5	0.89 g/cm ³ /at 20°C	0890 25	1/12/24

Please consider the legal instruction at the beginning of this chapter.

Glass and window cleaner

Powerful liquid cleaner with anti-static effect for cleaning windows

- Cleans without streaking
- Excellent material compatibility
- Suitable for use on polycarbonate glass, photovoltaic glazing and scratch-resistant glazing
- Quick and powerful cleaning with no streaks, and is still gentle on all gloss surfaces



Contents	5 l
Chemical basis	Ethanol
Smell/fragrance	Characteristic
Colour	Transparent
Density/conditions	0.98 g/cm ³ /at 20°C
Shelf life from production	60 Month
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes

Art. no. 0890 220 5

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Do not use on hot surfaces or in direct sunlight.

Insect remover

With a special foam formula for fast and reliable removal of insect residues on glass, chrome, paint and plastic surfaces

- With special foam formula – allow to soak in and the contamination dissolves
- Removes even stubborn contamination
- Very good material compatibility on all surfaces



Chemical basis	Anionic tenside
Colour	Colourless
pH value	10
Shelf life from production	24 Month
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes

Continuation **Insect remover**

Contents	Container	Art. no.	P. Qty.
5 l	Canister	0893 470 002	1
20 l	Canister	0893 470 003	1
500 ml	Plastic bottle	0893 470 001	1/12

Please consider the legal instruction at the beginning of this chapter.

Do not use on heated paints or in the sun. Protect from frost.

Insect remover

Special cleaner for fast and reliable removal of insect residues on glass, chrome, paint and plastic surfaces

- Easily removes insect soiling that damages paintwork, without leaving any residue
- Easy and quick to apply
- Does not attack paint, chrome, plastic, rubber etc.



Contents	500 ml
Container	Hand spray
Chemical basis	Alkaline tenside
Smell/fragrance	Characteristic
Colour	Yellow, Green
pH value	11
Shelf life from production	36 Month
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes

Art. no. 0893 470

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Do not use on heated paints or in the sun. Protect from frost.



Premium rim cleaner

Acid-free special cleaner for all steel and light-alloy wheel rims

- Gentle on the wheel rim surface and wheel nuts
- Even removes surface rust particles
- 360° application: sprays in all positions

Chemical basis	Mixture of surfactants and selected complex compounds
Smell/fragrance	Characteristic
Colour	Yellow green
pH value/conditions	7.5/undiluted
Density/conditions	1.08 g/cm ³ /at 20°C
Shelf life from production	36 Month
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes
Free of phosphoric acid	Yes

Contents	Container	Art. no.	P. Qty.
400 ml	Aerosol can	0893 476 500	1/6
5 l	Canister	0893 476 505	1
20 l	Canister	0893 476 520	1

Please consider the legal instruction at the beginning of this chapter.

Aluminium wheel rim cleaner

Acidic special cleaner for light-alloy wheel rims

- Removes even the most stubborn brake dust deposits, tar spray and other hard-to-remove dirt
- Regular use maintains the original appearance and the build-up of new soiling is prevented.
- AOX and silicone-free



Chemical basis	Phosphoric acid, non-ionic surfactants
Smell/fragrance	Characteristic
Colour	Colourless
pH value/conditions	1/at 20 °C
Density/conditions	1.14 g/cm ³ /at 20 °C
Shelf life from production	24 Month
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes
Free of phosphoric acid	No

Contents	Container	Art. no.	P. Qty.
5 l	Canister	0890 102 05	1
500 ml	Spray bottle	0890 102	1/12

Please consider the legal instruction at the beginning of this chapter.



Use only on light-alloy wheel rims. Do not use on hot wheel rims or in direct sunlight. Do not spray on vehicle paint, chrome, highly polished aluminium, plastic or other surfaces.

Intensive wheel rim cleaner

For all painted and unpainted light metal wheel rims and steel wheel rims

- Excellent cleaning performance thanks to gel formula
- AOX and silicone-free
- Acid-free

User-friendly

- No run-off, makes it economical to use
- Long exposure time possible (up to 30 minutes)
- Separates easily, i.e. separates quickly in the waste water in accordance with Ö-Norm (Austrian standard) B5105



Chemical basis	Alkaline tenside
Smell/fragrance	Fruity
Colour	Rosy
pH value/conditions	10/undiluted
Density/conditions	1.14 g/cm ³ /at 20 °C
Shelf life from production	12 Month
AOX-free	Yes

Silicone-free	Yes
Bio-degradable	Yes

Contents	Container	Art. no.	P. Qty.
1 l	Spray bottle	0893 476	1/6
5 l	Canister	0893 476 05	1

Please consider the legal instruction at the beginning of this chapter.

Do not use on hot wheel rims or in direct sunlight.

Tyre foam

High-quality care product for tyre walls

Cleans, cares, protects

- Simple to apply in a single step, thereby saving time
- Does not need to be wiped off afterwards
- Ideal before the tyres go into storage
- Dust- and dirt-repellent
- Does not attack paint, plastics, rubber and metals

Contents	500 ml
Chemical basis	Alkaline surfactants, silicone oil
Smell/fragrance	Characteristic
Colour	White
pH value/conditions	9/at 20°C
Density/conditions	0.919 g/cm³/at 20°C
Shelf life from production	18 Month
AOX-free	Yes
Silicone-free	No
Bio-degradable	Yes



Art. no. 0890 121

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Do not spray on tyre treads, brake discs and brake drums. Contains silicone.

Tar remover

Effortlessly removes tar, oil, and splashes of underbody seal and cavity sealant from paint and chrome

- Strong solvent for removing stubborn dirt
- Easy rinsing thanks to emulsifying effect

Smell/fragrance	Characteristic
Colour	Colourless
AOX-free	Yes
Bio-degradable	Yes



Continuation **Tar remover**

Contents	Container	Chemical basis	Density/ conditions	Shelf life from production/ conditions	Art. no.	P. Qty.
300 ml	Can	Aliphatic hydrocarbon	0.749 g/cm ³ / at 20°C	36 Month/at 20°C	0890 26	1/12
5000 ml	Canister	Mineral oil	0.8 g/cm ³ /at 20°C	24 Month/at 20°C	0890 26 005	1

Please consider the legal instruction at the beginning of this chapter.

Gloss seal

Provides lasting, reliable protection with extremely simple application

- Resistant to weathering, salt, sunlight, cold cleaner and other influences that generally affect paint
- Is non-aggressive and therefore gentle on paints
- Achieves an extremely smooth paint surface and protects for up to 18 months
- Silicone-free

Contents	250 ml
Shelf life from production	36 Month

Art. no. 0893 012 6

P. Qty.: 1/24

Please consider the legal instruction at the beginning of this chapter.



Spray shine

Provides new and used cars with a high gloss in just minutes

- Minimal time required
- Vehicle looks like it has just been polished
- Silicone-free

Smell/fragrance	Sweetish
Colour	Blue



Contents	Art. no.	P. Qty.
0.5 l	0893 011 500	1/12
5 l	0893 011 5	1

Please consider the legal instruction at the beginning of this chapter.

Polymer surface protection

Transparent surface protection for sealing and preserving smooth surfaces as well as for removing polishing streaks and holograms.

Contains high-quality polymers

- Polishing streaks are reliably removed
- Excellent resistance to weathering and UV
- Brilliant gloss of painted surfaces

Lotus effect

- Water- and dirt-repellent effect
- Prevents lime deposits
- Reduces the amount of cleaning and care required



Contents	500 ml
Shelf life from production	24 Month

Art. no. 0893 158

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Multi-purpose cleaner Liquid Green

Powerful multi-purpose cleaner with great grease and resin dissolving capacity

- Grease, resin, and other dirt is thoroughly and reliably removed
- Multipurpose cleaner
- Gentle on materials
- Does not contain any phosphates or organic solvents
- Biodegradable in line with OECD302 B
- Silicone-free and AOX-free



Colour	Neon green
Chemical basis	Anionic tenside

Contents	Container	Art. no.	P. Qty.
500 ml	Hand spray	0893 474	1/12
5000 ml	Canister	0893 474 5	1

Please consider the legal instruction at the beginning of this chapter.

Do not use on hot surfaces or in direct sunlight. Not suitable for polycarbonate glass. Do not let it dry out. Protect from frost.

Cleaning spray Super Clean

Universal cleaning and care spray for smooth and painted surfaces

- Bright shine and permanent protection
- Brings a new shine to plastics; for indoor and outdoor use
- Easily removes tar, grease and surface rust after a brief application time
- Removes holograms from dark paints
- Contains silicone

Contents	400 ml
Colour	Clear

Art. no. 0893 011 400

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Do not use on hot surfaces or in direct sunlight.



Car sponge

For cleaning cars and commercial vehicles

- Very good cleaning
- Promotes foaming
- Actively absorbent
- Non-scratch
- Permanently elastic

Material	Polyurethane foam
Length x width x height	18 x 13 x 6 cm

Art. no. 0899 700 400

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Hand brush

Car brush with ergonomic, comfortable handle for effective and simple cleaning of all surfaces

- Diagonally arranged bristles can reach all areas
- Split hair tips so the brushes draw in lots of water
- Cleaning that is gentle on paint thanks to split and therefore softened bristles

Colour	Red, Black
Material	PP - Polypropylene
Material of the bristles	Polybutylene terephthalate -PBT
Length	320 mm
Width	115 mm



Height	107 mm
Length of bristles	40 mm

Art. no. 0891 350 102

P. Qty.: 1

Washing brush, 150 x 250 mm

Car washing brush with water passage, rotary joint and rubber edge.

- A water passage ensures optimum water distribution
- Swivel brush, with patented rotating device
- Split hair tips so that the brushes draw in lots of water

Material	PP - Polypropylene
Material of the bristles	Polybutylene terephthalate -PBT
Colour	Red, Black
Length	250 mm
Width	115 mm
Height	150 mm
Length of bristles	47 mm
Max. temperature conditions	50 °C



Art. no. 0891 350 100

P. Qty.: 1

Washing brush

Vehicle washing brush with water flow-through

- A water passage ensures optimum water distribution
- Diagonally arranged bristles can reach all areas
- Split hair tips to absorb large quantities of water

Material	PP - Polypropylene
Material of the bristles	Polybutylene terephthalate -PBT
Colour	Red, Black
Length	400 mm
Width	80 mm
Height	115 mm
Length of bristles	52 mm
Max. temperature conditions	50 °C



Art. no. 0891 350 202

P. Qty.: 1

Hand brush

With water flow-through and adapter

- A water passage ensures optimum water distribution
- Split hair tips so that the brushes draw in lots of water
- Cleaning that is gentle on paint thanks to split and therefore softened bristles



Material	PP - Polypropylene
Material of the bristles	Polybutylene terephthalate -PBT
Colour	Red, Green
Length	287 mm
Width	47 mm
Max. temperature conditions	50 °C

Art. no. 0891 350 204

P. Qty.: 1

Aluminium handle

Aluminium handle with water passage, 1560 mm

- Ergonomic handle with water channel
- Made of aluminium with robust impact-resistant and grip-friendly plastic
- With 1/2" and 3/4" water hose connection
Mounting with a pipe clamp
- Can be used with pressure of up to 6 bar



Material	Aluminium
Length	1560 mm
Diameter	31 mm
Max. temperature conditions	50 °C
Design	With water flow-through

Art. no. 0891 350 103

P. Qty.: 1

Aluminium telescopic shaft with water drain

With 1/2" - 3/4" hose connection

- Can be flexibly adjusted to a length of 1600-2780 cm
- Made of aluminium with robust, impact-proof and easy-grip plastic, ensuring convenient and functional use.
- The shaft can be used with pressure of up to 6 bar



Material	Aluminium
Length	1600 mm
Max. length	2780 mm
Min. length	1600 mm
Diameter	31 mm
Max. pressure	6 bar

Max. temperature conditions	50 °C
Design	With water flow-through

Art. no. 0891 350 104

P. Qty.: 1

Aluminium handle

Aluminium handle, 1495 mm

Material	Aluminium
Length	1495 mm
Diameter	28 mm
Max. temperature conditions	50 °C



Art. no. 0891 350 210

P. Qty.: 1/10

Please consider the legal instruction at the beginning of this chapter.

Floor squeegee

Black cellular rubber floor squeegee for effective removal of water and oil

- Resistant to oil
- Ideal for large surfaces
- Soft cellular rubber ensures gentle treatment and optimum protection of surfaces
- Durable



Colour	Black
Material	Polypropylene, foam rubber
Length	600 mm
Width	35 mm
Height	95 mm
Product weight (per item)	250 g

Art. no. 0891 350 207

P. Qty.: 1

Rim brush

With split, diagonally arranged bristles for effective cleaning

- Diagonally arranged bristles can reach all areas
- Split hair tips so that the brushes draw in lots of water
- Cleaning that is gentle on paint thanks to split and therefore softened bristles



Width	70 mm
Length	170 mm

Continuation **Rim brush**

Art. no. 0891 350 211

P. Qty.: 2

Squeegee WIPE-N-SHINE

With handle mount for removing residual drops of water

- Ideal for large surfaces
- Can be used with telescopic handle
- Soft rubber ensures gentle treatment and optimum protection of surfaces
- Durable



Colour	Green
Material	Polyoxymethylene, thermoplastic elastomers
Length	450 mm
Width	190 mm
Height	70 mm
Product weight (per item)	233.5 g
Design	With handle mount

Art. no. 0891 350 206

P. Qty.: 1

Rubber blade WIPE-N-SHINE

With handle for removing drops of water

- Can be used with telescopic handle
- Soft rubber ensures gentle treatment and optimum protection of surfaces
- Durable



Colour	Green
Material	Polyoxymethylene, thermoplastic elastomers
Length	350 mm
Width	198 mm
Height	53 mm
Product weight (per item)	207 g
Design	With handhold

Art. no. 0891 350 205

P. Qty.: 1

Dispensing pump

For 4000 ml bucket of hand cleaner

- The pressure pump transports the hand cleaner as soon as the pump is pressed
- Single pump action dispenses a precise amount (6 cm³)
- Total height: approx. 40 cm

Material	Plastic
----------	---------

Art. no. 0891 901 1

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Plastic paint Plast PT®

For visual care of all plastic parts on a car

- Solvent-free
- High-quality, emulsion-based plastic paint
- Return faded plastic to look like new

Contents	75 ml
pH value	8-9.0



Colour	Shelf life from production	Art. no.	P. Qty.
Anthracite	5 Years	0893 280 2	1/12
Black	90 Month	0893 280 1	1/12

Please consider the legal instruction at the beginning of this chapter.



When being applied, plastic paint is sensitive to moisture. Therefore, do not apply in the rain or bring into contact with water shortly after application.

Textile cleaner Liquid Clear

Multifunctional fabric cleaner with nano-waterproofing

- Cleans and waterproofs in a single step
- Transparent liquid
- Odourless
- Easy and practical to use
- Excellent material compatibility
- Fabrics are given lasting protection by the surface-active waterproofing

Contents	500 ml
Container	Hand spray
Smell/fragrance	Odourless



Continuation **Textile cleaner Liquid Clear**

Chemical basis	Butoxyethanol
pH value	5.0

Art. no. 0893 474 200

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Do not use on hot surfaces or in direct sunlight. Do not let it dry out. Protect from frost.

Plastic care

High-quality care wax for all outdoor plastic and rubber parts

- Outstanding colour restoration and a satiny shine
- Provides permanent care and protection against environmental influences
- Care wax

Contents	1 l
Smell/fragrance	Lemon
Chemical basis	Mineral oil



Art. no. 0893 477

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.



Deep cleaner for plastic

Universal application for cleaning and protecting all plastic parts for indoor and outdoor use

- Outstanding cleaning power and gentle protection in a single step
- Specially selected raw materials for optimum care
- Provides lasting protection against environmental influences
- Contains silicone

Smell/fragrance	Fresh
Chemical basis	Polydimethylsiloxane



Contents	Container	Art. no.	P. Qty.
0.5 l	Hand spray	0893 285	1/12
5 l	Canister	0893 285 5	1

Please consider the legal instruction at the beginning of this chapter.

Do not spray on operating elements (steering wheel, pedals), as there is a danger of slipping! Not suitable for glass or textiles.

Plastic care agent Vinyl care

High-quality plastic care for vehicle interiors and exteriors

- Outstanding colour restoration and a satiny shine
- Gentle on materials
- Protects and seals the surface
- Contains silicone
- AOX-free

Container	Canister
Smell/fragrance	Aromatic
Chemical basis	Hydrocarbon



Contents	Art. no.	P. Qty.
5 l	0893 477 05	1
20 l	0893 477 20	1

Please consider the legal instruction at the beginning of this chapter.

Do not use on hot surfaces, in direct sunlight or on tyre treads.

Cockpit cleaning and care spray

Provides outstanding cleaning power and gentle care in a single step.

- Cleaning and care in a single product
- Optimum care
- Anti-static effect
- Gentle spray mist
- Citrus scent

Contents	400 ml
Container	Aerosol can
Chemical basis	Mineral oil
Smell/fragrance	Lemon
Colour	Colourless
Min. flashing point	-90 °C
Density/conditions	0.72 g/cm ³ /at 20°C
Shelf life from production	36 Month
AOX-free	Yes
Silicone-free	Yes



Art. no. 0890 222 1

P. Qty.: 1/24

Please consider the legal instruction at the beginning of this chapter.

Do not spray on the windscreen and side windows. Air the vehicle interior briefly following application.

Leather cleaner

Special cleaner with a surfactant and solvent base for smooth leather and Alcantara

- Gently removes stubborn dirt
- Cleans and maintains the leather
- Suitable for all colours
- Foam application does not „saturate“ the leather
- Phosphate and silicone-free



Contents	500 ml
Container	Plastic bottle
Smell/fragrance	Pleasant
Chemical basis	Water tenside
pH value	10.2

Art. no. 0893 012 902

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Check the colour fastness/material compatibility in an inconspicuous spot before use. Not suitable for suede. After cleaning, treat with a leather care product (not for Alcantara surfaces!).



Interior cleaner

Special cleaning foam with anti-static additive for the entire vehicle interior

- Cleans all painted and plastic parts, glass surfaces and upholstery. Removes nicotine odours and leaves a pleasant fresh scent in the interior.
- The anti-static additive creates temporary anti-dust protection on the surface for longer lasting cleanliness in the vehicle interior.

Contents	0.5 l
Container	Aerosol can
Smell/fragrance	Peach
Chemical basis	2-propanol
pH value	9.5

Art. no. 0893 033

P. Qty.: 1/12/24

Please consider the legal instruction at the beginning of this chapter.

Stain remover

Easily removes tar, oil, grease and lubricant stains

- Solvent-based
- Does not leave dirty edges
- Neutral behaviour on metal

Contents	1 l
Container	Can
Chemical basis	Naphtha
Shelf life from production	24 Month



Art. no. 0890 21 100

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Combustible liquids, Category 2: skin irritation, Category 2; specific target organ toxicity – one-off exposure, Category 3: inhalation risk, Category 1: chronic aquatic toxicity, Category 2

Oil stain remover

Highly effective oil stain remover to loosen and bind oils and greases.

- Highly volatile cleaner for thorough and effective removal of various oil stains with penetrating action
- Biodegradable

Contents	1000 ml
Container	Can
Chemical basis	Acetic aether
Shelf life from production	24 Month



Art. no. 0890 610 555

P. Qty.: 1/15

Please consider the legal instruction at the beginning of this chapter.

Shake the oil stain remover vigorously as the binding material settles on the bottom and needs to be mixed with the liquid before use.

Cockpit care

Plastic interior care with fruity fragrance

- High-quality carnauba waxes and jojoba oil provide optimum care
- Gentle on materials
- Provides lasting protection against environmental influences
- Anti-static
- Contains no phosphates and no organic solvents.
- Separates quickly in waste water in line with German Ecological Standard Test B 5105.
- Biodegradable > 95%
- AOX-free and silicon-free



Smell/fragrance	Fruity
Colour	Beige
pH value	6.8
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes
Contents	500 ml
Container	Spray bottle

Art. no. 0893 473 1

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Vehicle cleaner Active Clean

Intensive foam cleaner for the entire vehicle interior

Micro-fine active foam (vacuum effect)

- Foam remains on the surface and actively draws out the dirt when the foam bubbles burst
- Outstanding dirt dissolving power
- Upholstery does not become wet, meaning drying times are shorter

Gentle on materials

Suitable for all surfaces in the vehicle interior. The pre-determined breaking points of the airbag are not affected.

Contents	500 ml
Container	Aerosol can
Smell/fragrance	Fruity
Chemical basis	Water, soap and glycol
pH value	7.7

Art. no. 0893 472

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Protect product from frost.



Waterproofing spray Universal

For water, oil and dirt-proofing of textile surfaces

- Excellent water repellency
- Prolonged service life for textiles
- Protection against stains, dirt, oils and fats

Contents	400 ml
Container	Aerosol can
Smell/fragrance	Ester-like
Chemical basis	Fluorocarbon resin
Shelf life from production	24 Month



Art. no. 0893 032 100

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Only use in a well-ventilated area. Only spray for a few seconds. Keep away from children. Contains solvents. Not suitable for highly polished leather and painted smooth leather. Test for material compatibility on an invisible area prior to application. Cover sensitive plastics and paints prior to application. Wipe excess material off non-textile surfaces.

Deodoriser

Neutralises unpleasant odours in textiles

- Suitable for virtually all textiles
- Odour molecules are not just masked as with air fresheners, but are completely eliminated naturally
- Uniform fine wetting of the entire surface without it becoming too wet
- AOX-free

Smell/fragrance	Perfumed
Chemical basis	Water, soap and glycol
pH value/conditions	7/at 20°C
Shelf life from production	24 Month



Contents	Container	Art. no.	P. Qty.
500 ml	Spray bottle	0893 139 20	1/12
5000 ml	Canister	0893 139 205	1

Please consider the legal instruction at the beginning of this chapter.

Preliminary testing required for textiles sensitive to water (e.g. silk). Not suitable for leather and suede.

Air conditioning disinfection Quick Fresh Active

For quick and effective removal of odours and bacteria in indoor and vehicle air conditioning systems

- Reduces unpleasant odours
- Disinfectant effect by antibacterial silver ions
- Long-lasting fresh scent

Chemical basis	Water and alcohol
Contents	100 ml
Weight of content	76 g
Smell/fragrance	Lemon
Colour	Transparent
Density	0.77 g/ml



Art. no. 0893 764 650

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Preliminary tests are essential before use, especially on light surfaces.

Take care when using biocidal products. Always read the label and product information before use.

Vehicle cleaner Vehicle interior cleaner

Environmentally friendly cleaning agent for the entire vehicle interior

- Biodegradable in accordance with the Detergent Regulation
- Powerful yet gentle cleaning effect

Contents	1 l
Container	Spray bottle
Smell/fragrance	Characteristic
Chemical basis	Nonionic tenside
pH value	11.2



Art. no. 0890 120

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Rubber care Rubber Fit

Silicone-free care for rubber seals

- The suppleness of the rubber parts is preserved, thus increasing the service life and preventing cracking
- Eliminates squeaking and creaking
- Resistant to spray and salt water

Contents	75 ml
Smell/fragrance	Characteristic
Chemical basis	Hydrocarbon

Art. no. 0893 012 8

P. Qty.: 1/24

Please consider the legal instruction at the beginning of this chapter.

Use of the product on acrylic glass (PMMA) may result in stress cracks.



Rubber care spray

Prevents door, bonnet and luggage compartment rubber seals from freezing in winter or becoming stuck due to ageing and heat

- Rubber components remain supple
- Freshens up colours
- Does not attack painted and chrome parts

Contents	300 ml
Smell/fragrance	Characteristic
Chemical basis	Mineral oil

Art. no. 0890 110

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Solvent-free leather care agent

Gentle cleaning and intensive care of smooth leather

- Special care emulsion of selected waxes and silicones for all kinds of smooth leather
- Cares for the leather and leaves behind an attractive, visually enhanced shine

Contents	500 ml
Smell/fragrance	Floral
Chemical basis	Wax emulsion, waterbased

Art. no. 0893 012 901

P. Qty.: 1/12



Pre-cleaner

Specially tailored cleaner for plastics, painted metal surfaces and glass parts

Excellent cleaning power with high degree of material compatibility

- Cleans contact surfaces thoroughly
- Does not attack paints and plastics

Short flash-off time

The cleaned parts can be processed further immediately



Contents	1 l
Smell/fragrance	Mild
Colour	Colourless
Density	0.717 g/cm ³
Min. flashing point	-21 °C
Shelf life from production	24 Month

Art. no. 0893 200 1

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Combustible liquids, Category 2: skin irritation, Category 2; specific target organ toxicity – one-off exposure, Category 3: inhalation risk, Category 1: chronic aquatic toxicity, Category 2



Acetone cleaner

Special cleaner for unpainted metal surfaces and glass

- Greases, oils and other soiling are softened and removed quickly and effectively
- Dissolves various paint residues
- The cleaner leaves behind no residue on the material being cleaned

Smell/fragrance	Characteristic
Chemical basis	Acetone

Contents	Container	Shelf life from production	Art. no.	P. Qty.
0.25 l	Can	24 Month	0893 460	1
5 l	Canister	12 Month	0893 460 002	1

Please consider the legal instruction at the beginning of this chapter.

Paint finish assortment

113 pieces, in system case 8.4.2 for professional treatment of painted surfaces

Contents:

- 2 professional vehicle polishes (P10 + P30)
- 250 P2000 abrasive polishing discs (rip tape) used for removing trapped dust and fine surface defects
- 1 sanding block set (sanding block, soft interface, abrasive polishing disc moistener)
- 5 P2000 automotive finishing discs for matting surfaces
- 2 orange sanding pads, Ø 90 mm
- 1 green sanding pad, Ø 90 mm
- 1 pneumatic polishing machine with speed control
- 1 adhesive disc (rip tape), Ø 75 mm



ORSY

Number of pieces in assortment/set	265 PCS
------------------------------------	---------

Art. no. 5964 089 308

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

When using a dry polishing pad, apply a little more polish. Remove the polish residue with a microfibre cloth. Proceed in sections.

Polish set

6 pieces

Art. no. 0988 043 712

P. Qty.: 1



Fast grinding polish P10 Plus

Highly abrasive high-gloss polish for quickly removing surface defects in fresh repairs and fully hardened top coats

- Extremely high surface removal rate and unprecedented gloss level
- For conventional and scratchproof paint types
- Suitable for use on used and new paint surfaces
- Silicone-free

Colour	Green
--------	-------



Weight of content	Art. no.	P. Qty.
1 kg	0893 150 010	1
250 g	0893 150 012	1/15

Please consider the legal instruction at the beginning of this chapter.

Continuation **Fast grinding polish P10 Plus**



High-gloss polish P20 Plus

Medium-abrasive high-gloss polish for efficient paint preparation

- For conventional and scratchproof paint types
- Sanding grooves from a grain of P2000 can be easily removed
- Can be applied manually and by machine

Colour	Light yellow
--------	--------------



Weight of content	Art. no.	P. Qty.
1 kg	0893 150 020	1/6
250 g	0893 150 022	1/15

Please consider the legal instruction at the beginning of this chapter.



P - ONE STEP 3IN1 - grinding polish, finish polish and wax

Polish out grinding marks, reliably remove holograms and streaks, and protect the resulting high-gloss surface for a long time with just one all-round product.

- High removal
- Very high gloss level
- Long-lasting paint sealant with carnauba wax

Colour	Blue
--------	------



Weight of content	Art. no.	P. Qty.
1 kg	0893 150 060	1/6
250 g	0893 150 062	1/15

Please consider the legal instruction at the beginning of this chapter.

We recommend our blue or orange polishing pads for polishing.

Anti-hologram polish P30 Plus

High-gloss finish polish for permanently removing streaks and holograms on dark vehicle paints

- Unique powdered composition made from aluminium oxide
- Thick consistency
- Can be applied manually and by machine
- Silicone-free

Colour	Light grey (bright grey)
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Weight of content	Art. no.	P. Qty.
1 kg	0893 150 030	1
250 g	0893 150 032	1/15

Please consider the legal instruction at the beginning of this chapter.



Recommended pad:

„Orange“ or „Lambskin“ polishing pad

Clay Polish and Cleaner

Synthetic clay used for the removal of spray mist and other contaminants

- Gentle particle removal without grinding or re-polishing
- Deep-pore cleaning of all smooth surfaces
- Stays soft, does not become brittle
- Solvent-free and chemical-free

Product weight (per item)	263 g
Width	5 cm
Length	9 cm
Colour	Blue



Art. no. 0893 157 1

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Surface rust remover

For easy removal of surface rust on bodywork, sheet metal and steel, iron and cast metal parts.

- Contains effective acids, surface-active agents and surfactants
- pH value (10%): 1.3
- AOX-free and silicone-free

Contents	5 l
Colour	Transparent
Smell/fragrance	Characteristic
Chemical basis	Water and hydrochloric acid
Shelf life from production	24 Month



Art. no. 0890 130

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Recommendation: The treated areas should be protected against further corrosion by applying a primer or corrosion protection spray (art. no. 089315). Check materials such as plastics and rubber for compatibility.

Do not use in direct sunlight. Avoid direct heat.

Aluminium polish

For cleaning and polishing

- Polish paste
- Polishing additives with re-lubricating effect
- Low consumption

Weight of content	500 g
Colour	Dark grey



Art. no. 0893 121 301

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Premium carnauba wax LEGENDARY

The highest quality level with maximum carnauba wax content

- Brilliant mirror finish
- Maximum long-lasting protection

Contents	200 ml
Shelf life from production	24 Month



Art. no. 0893 014 200

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

We recommend using with our black polishing puck.

Polishing Pad Wave

Extremely fine and soft polishing pad with hook and loop fastener for the removal of micro-scratches and holograms.

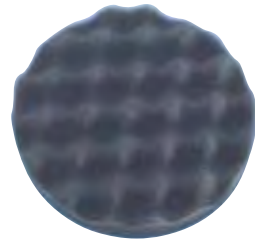
Wave structure

- No splattering of the polish at high speeds
- Minimal heat generation combined with long service life

Colour	Black
Diameter	135 mm

Art. no. 0585 28 130

P. Qty.: 2



Polishing pads

Polishing pads in three different abrasive grades

- Maximum effectiveness with minimum wear
- Open-cell foam for a consistent removal rate
- More flexibility with each bodywork shape



Hardness degree	Colour	Diameter	Art. no.	P. Qty.
Extra hard	Green	90 mm	0585 025 090	4
Extra hard	Green	145 mm	0585 025 145	2
Extra hard	Green	170 mm	0585 025 170	2
Hard	Blue	90 mm	0585 027 090	4
Hard	Blue	145 mm	0585 027 145	2
Hard	Blue	170 mm	0585 027 170	2
Soft	Orange	90 mm	0585 026 090	4
Soft	Orange	145 mm	0585 026 145	2
Soft	Orange	170 mm	0585 026 170	2

Cleaning pad Clay series

Efficient deep cleaning and perfect preparation of painted surfaces for the best polishing results

- Easily removes stubborn residue and dirt from painted surfaces that cannot be removed by conventional cleaning, producing a mirror-like finish.
- Especially gentle cleaning owing to very low heat development and avoidance of aggressive cleaning agents.

Colour	Black, Red
Diameter	150 mm

Art. no. 0585 300 150

P. Qty.: 1



Please consider the legal instruction at the beginning of this chapter.

Sheep's wool polishing pad

100% pure new sheep's wool for creating perfect surfaces. Easy to apply/work in oils, waxes and polishes

- Achieve perfect and unique surface results.
- The sheep's wool pad absorbs the wax, oil or polish very well and works this perfectly into the floor.

Colour	Beige
Diameter	406 mm

Art. no. 0585 808 000

P. Qty.: 15



Polishing pad

Polishing sponge for large-surface polishing and cleaning of vehicle paints.

Open-pore, abrasive foam

Very well-suited to processing fast sanding polish and high-gloss polish in large-surface polishing work.

Sharp-edged

Allows machine processing of edges and hard-to-reach areas.

Colour	White
Diameter	200 mm

Art. no. 0585 200 30

P. Qty.: 5



Cleaning sponge Clay series

Efficient deep cleaning and perfect preparation of painted surfaces for the best polishing results

- Easily removes stubborn residue and dirt from painted surfaces that cannot be removed by conventional cleaning, producing a mirror-like finish.
- Especially gentle cleaning owing to very low heat development and avoidance of aggressive cleaning agents.

Colour	Black, Red
Length x width	110 x 70 mm

Art. no. 0585 300 110

P. Qty.: 1

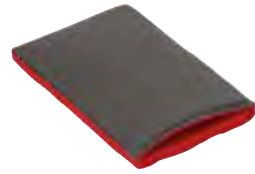
Please consider the legal instruction at the beginning of this chapter.



Cleaning glove Clay series

Efficient deep cleaning and perfect preparation of painted surfaces for the best polishing results

- Easily removes stubborn residue and dirt from painted surfaces that cannot be removed by conventional cleaning, producing a mirror-like finish.
- Especially gentle cleaning owing to very low heat development and avoidance of aggressive cleaning agents.



Colour	Black, Red
Length x width	210 x 140 mm

Art. no. 0585 300 210

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Lambskin Premium

For economical removal of scratched, dull and partially ground paint areas.

Lint-free result

Lambskin is highly suitable for use on dark paint.

Quickly visible working result

The thick skin structure ensures optimal removal rate.

Minimal heat generation combined with long service life

Due to highest-quality genuine lambskin.



Material	Lambswool
Colour	Black
Support-disc diameter	125 mm
Diameter	135 mm

Art. no. 0585 135

P. Qty.: 5

Do not rinse with water!

Simply brush away old paint and polish residues with the polishing pad cleaning brush after finishing the polishing work.

Lambskin, white

For professional polishing work on heavily stressed and weathered paint surfaces.

Universal use

Suitable for light and dark paint surfaces

Very good removal rate

Due to very fine skin structure

Minimal heat generation combined with long service life

Due to highest-quality genuine lambskin



Material	Lambswool
Colour	White

Support-disc diameter	Diameter	Art. no.	P. Qty.
80 mm	80 mm	0585 23 80	5
125 mm	135 mm	0585 235	5
150 mm	195 mm	0585 195	1

Do not rinse with water!

Simply brush away old paint and polish residues with the polishing pad cleaning brush after finishing the polishing work.

Microactive cloth Basic

Microactive cloth ideal for vehicle valeting and maintenance

Outstanding cleaning power

- When dry
Dust attraction through static effect
- When wet
Removal of coarse and greasy dirt



Loopless, protects against scratches

Material	Polyethylene fibre/polyamide microfibre
Length x width	40 x 40 cm
Coating weight per m ²	300 g
Colour	Green

Art. no. 0899 900 050

P. Qty.: 50

Please consider the legal instruction at the beginning of this chapter.

Microactive cloth Clean & Polish

Microfibre cloth for cleaning and polishing of smooth surfaces

- High-tech fibres for optimal cleaning of smooth surfaces
- Optimal cleaning and polishing results without chemical additives
- Streak and lint-free work



Material	70% polyester, 30% polyamide
Length x width	40 x 40 cm
Coating weight per m ²	170 g
Colour	Anthracite

Art. no. 0899 900 150

P. Qty.: 10

Please consider the legal instruction at the beginning of this chapter.

Must not be tumble-dried

Car and window chamois

Made from real sheepskin

- High water absorption capacity
- Lint-free
- Long life



Material	Sheepskin
Colour	Yellowish Chamois
Length x width	70 x 45 cm
Coating weight per m ²	80 g

Art. no. 0899 700 630

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Care information

Wash out the car and window chamois after each use to prolong its service life, but make sure that no washing agents that contain acid or dissolve grease are used. Wring out the cloth and spread it out to air-dry; do not place on radiators or in the sun.

Microactive cloth Duo

Microactive cloth with two different sides

- Low-pile side for cleaning all surfaces
- When dry: Binds dust by static charge
- When wet: Removes coarse and greasy dirt
- Stitch-free, protects against scratches



Material	70% polyester, 30% polyamide
Length x width	40 x 40 cm
Coating weight per m ²	360 g
Colour	Blue

Continuation **Microactive cloth Duo**

Art. no. 0899 900 138

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Microactive cloth Professional

Microactive cloth for professional maintenance cleaning and vehicle valeting.

- Extremely high cleaning power
- Cleans without using cleaning agents
- Extremely fine, strong fibres



Material	Polyethylene fibre/polyamide microfibre
Length x width	40 x 40 cm
Coating weight per m ²	300 g

Colour	Art. no.	P. Qty.
Blue	0899 900 131	3
Red	0899 900 132	3
Yellow	0899 900 133	3

Microactive cloth Gloss

Microactive cloth with dense fibre structure for deep gloss

- Extremely soft, velvety premium quality
- Can be used dry and damp
- Washable up to 60°C



Material	80% polyester, 20% polyamide
Length x width	40 x 40 cm
Coating weight per m ²	210 g
Colour	Blue

Art. no. 0899 900 139

P. Qty.: 3



XXL cleaning glove “Fuzzy”

Highly effective microfibre glove for deep-cleaning tasks in the automotive, caravan and household sectors

- Large cleaning surface for quick cleaning
- Ideal for people with allergies, as dust is not stirred up
- Long service life thanks to high-quality finish
- Glove is easy to clean



Material	Chenille microfibre
Colour	Light green
Length x width	23 x 18 cm

Art. no. 0899 710 005

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Hand-wash the glove to clean it or wash in the washing machine up to 60°C (with washing bag).



Windscreen cleaner Screenwash Plus

With anti-freeze for windscreen washer systems

Outstanding, improved cleaning performance

- Safely and effectively prevents windscreen and headlight cleaning systems from freezing
- Crystal-clear view despite winter contaminants such as road salt and oily road dirt

Gentle on materials

- Does not attack polycarbonate glass
- Gentle on paint and rubber

Chemical basis	Water and ethanol
Smell/fragrance	Lemon
Colour	Blue
Max. anti-freeze	-63 °C
Shelf life from production	24 Month

Contents	Container	Art. no.	P. Qty.
1 l	Plastic bottle	0892 332 840	1/12
5 l	Plastic canister	0892 332 850	1
30 l	Plastic canister	0892 332 855	1
60 l	Plastic canister	0892 332 860	2
200 l	Plastic barrel	0892 332 880	1

Please consider the legal instruction at the beginning of this chapter.

DN 60 tap

Plastic tap with DN 60 connection for 20-l plastic canister and 60-l plastic drum

Material	Plastic
Product weight (per item)	51.5 g

Art. no. 0891 302 03

P. Qty.: 1



Windscreen cleaner TopDos rapid windscreen cleaner

The integrated Top Dos dispensing unit enables precise dispensing (25 ml per dispensing process)

- Windscreen cleaning 1:100 high concentrate
- Prevents smearing
- Eliminates glare and greasy films
- Ensures a crystal clear view
- Removes stuck insects and other dirt
- Excellent material compatibility

Contents	250 ml
Ratio of ingredients	250 ml is sufficient for 25 l washing liquid
Container	Plastic bottle in a display box
Chemical basis	Anionic tenside
Smell/fragrance	Peach
Colour	Orange
pH value	6
Shelf life from production	24 Month

Art. no. 0892 333 250

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Windscreen cleaner Rapid windscreen cleaner

Highly-concentrated windscreen cleaner 1:100

- Prevents streaking
- Removes reflective and lubricant films
- Removes stuck-on insects and other soiling

Contents	5 l
Ratio of ingredients	1:100
Container	Canister
Chemical basis	Sodium sulphate
Smell/fragrance	Peach
Colour	Orange
pH value	6-7
Shelf life from production	24 Month



Continuation **Windscreen cleaner Rapid windscreen cleaner**

Art. no. 0892 333 5

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Windscreen cleaner Flash cleaner in display carton

Highly-concentrated windscreen cleaner 1:100. Small container for easy dosing depending on tank size.

- Prevents streaking
- Removes reflective and lubricant films
- Ensures crystal-clear visibility
- Removes stuck-on insects and other soiling



Contents	32 ml
Ratio of ingredients	32 ml is sufficient for 2,5 - 3 l washing liquid
Container	Plastic bottle in a display box
Chemical basis	Anionic tenside
Smell/fragrance	Peach
Colour	Orange
pH value	6-7
Shelf life from production	24 Month

Art. no. 0892 333

P. Qty.: 25/100

Please consider the legal instruction at the beginning of this chapter.

Super de-icer spray

Quickly and effectively removes ice and white frost

- Heavily iced windows are quickly and effectively cleared of ice and white frost
- Protects windows against icing up again
- Paints, rubber and plastics are not attacked



Colour	Blue
pH value	7.8
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes

Contents	Smell/fragrance	Art. no.	P. Qty.
400 ml	Lemon	0892 331 203	1/12
500 ml	Citrus	0892 331 201	1/12

Please consider the legal instruction at the beginning of this chapter.

Window seal

Rain-resistant, easy-to-use glass seal increases driving safety by improving visibility and extending service life of windscreen wipers

- Rain and water bead at approx. 70-80 km/h and roll off the window
- Dirt, insects and ice can be sustainably removed more easily
- Ultra-thin coating that is as hard as glass
- Suitable for all untreated glass surfaces on all types of vehicle
- Quick and easy application
- Silicone-free and AOX-free



Contents	20 ml
Container	Plastic bottle
Shelf life from production	18 Month

Art. no. 0893 012 414

P. Qty.: 12

Please consider the legal instruction at the beginning of this chapter.



The sealed window is immediately active. Wait at least one hour before cleaning the vehicle or using a car wash. It is recommended that gloves be worn during sealing work. Under extreme weather conditions, a fine droplet film may form on the windscreen, which resembles misting from the outside. It can be removed by switching on the hot-air blower and routing the hot air onto the windscreen. We recommend replacing the windscreen wipers with the window seal. Do not use on plastic, metal or paint. Cleaner and sealing residues must be completely removed from the bodywork. Do not use on hot surfaces. Store in a frost-free and dry location. Do not use abrasive, highly acidic or highly alkaline glass cleaners.

Caution: Not suitable for polycarbonate glass!



Paint spray Quattro

Versatile, satin-finished thick-coat lacquer spray with excellent covering and anti-rust properties.

- Corrosion protection, can also be applied to residual rust, excellent coverage, very easy to apply
- Outstanding adhesion to virtually all surfaces, high degree of elasticity, shock resistance and impact resistance
- Can be painted with virtually all commercially available paints

Contents	400 ml
Chemical basis	Alkyd resin
Gloss level	Satin matt

Colour	Art. no.	P. Qty.
Signal yellow RAL 1003	0893 391 003	1/6
Golden yellow RAL 1004	0893 391 004	1/6
Maize yellow RAL 1006	0893 391 006	1/6
Daffodil yellow RAL 1007	0893 391 007	1/6
Light ivory RAL 1015	0893 391 015	1/6
Zinc yellow RAL 1018	0893 391 018	1/6
Colza Yellow RAL 1021	0893 391 021	1/6
Traffic yellow RAL 1023	0893 391 023	1/6
Curry RAL 1027	0893 391 027	1/6
Melon yellow RAL 1028	0893 391 028	1/6
Yellow orange RAL 2000	0893 392 000	1/6
Red orange RAL 2001	0893 392 001	1/6

Colour	Art. no.	P. Qty.
Vermilion RAL 2002	0893 392 002	1/6
Pure orange RAL 2004	0893 392 004	1/6
Traffic orange RAL 2009	0893 392 009	1/6
Deep orange RAL 2011	0893 392 011	1/6
Flame red RAL 3000	0893 393 000	1/6
Signal red RAL 3001	0893 393 001	1/6
Carmine red RAL 3002	0893 393 002	1/6
Ruby red RAL 3003	0893 393 003	1/6
Traffic red RAL 3020	0893 393 020	1/6
Ultramarine blue RAL 5002	0893 395 002	1/6
Sapphire blue RAL 5003	0893 395 003	1/6
Signal blue RAL 5005	0893 395 005	1/6
Azure blue RAL 5009	0893 395 009	1/6
Gentian blue RAL 5010	0893 395 010	1/6
Steel blue RAL 5011	0893 395 011	1/6
Light blue RAL 5012	0893 395 012	1/6
Cobalt blue RAL 5013	0893 395 013	1/6
Pigeon blue RAL 5014	0893 395 014	1/6
Sky blue RAL 5015	0893 395 015	1/6
Traffic blue RAL 5017	0893 395 017	1/6
Emerald green RAL 6001	0893 396 001	1/6
Leaf green RAL 6002	0893 396 002	1/6
Olive green RAL 6003	0893 396 003	1/6
Moss green RAL 6005	0893 396 005	1/6
Reseda green RAL 6011	0893 396 011	1/6
Turquoise green RAL 6016	0893 396 016	1/6
Yellow green RAL 6018	0893 396 018	1/6
Light green RAL 6027	0893 396 027	1/6
Silver grey RAL 7001	0893 397 001	1/6
Mouse grey RAL 7005	0893 397 005	1/6
Iron grey RAL 7011	0893 397 011	1/6
Basalt grey RAL 7012	0893 397 012	1/6
Slate grey RAL 7015	0893 397 015	1/6
Anthracite grey RAL 7016	0893 397 016	1/6
Black grey RAL 7021	0893 397 021	1/6
Umbra grey RAL 7022	0893 397 022	1/6
Graphite grey RAL 7024	0893 397 024	1/6
Stone grey RAL 7030	0893 397 030	1/6
Blue grey RAL 7031	0893 397 031	1/6
Pebble grey RAL 7032	0893 397 032	1/6
Cement grey RAL 7033	0893 397 033	1/6
Yellow grey RAL 7034	0893 397 034	1/6
Light grey RAL 7035	0893 397 035	1/6
Dusty grey RAL 7037	0893 397 037	1/6
Agate grey RAL 7038	0893 397 038	1/6
Window grey RAL 7040	0893 397 040	1/6
Traffic grey A RAL 7042	0893 397 042	1/6
Traffic grey B RAL 7043	0893 397 043	1/6
Cream RAL 9001	0893 399 001	1/6
Grey white RAL 9002	0893 399 002	1/6
Signal white RAL 9003	0893 399 003	1/6
Jet black RAL 9005	0893 399 005	1/6
White aluminium RAL 9006	0893 399 006	1/6
Pure white RAL 9010	0893 399 010	1/6
Graphite black RAL 9011	0893 399 011	1/6

Continuation **Paint spray Quattro**

Colour	Art. no.	P. Qty.
Papyrus white RAL 9018	0893 399 018	1/6
Fendt grey LM 0245	0893 390 245	1/6
Chassis grey IC 444	0893 390 444	1/6
Caterpillar yellow YJ38 FV 1286	0893 391 286	1/6
Volvo construction machinery yellow FV 1569	0893 391 569	1/6
Caterpillar yellow BMS 0281	0893 390 281	1/6
Volvo construction machinery yellow BMS 1130	0893 391 130	1/6
Liebherr yellow new BMS 1395	0893 391 395	1/6
Komatsu natural yellow BMS 1446	0893 391 446	1/6
Caterpillar yellow BMS 1656	0893 391 656	1/6
Hitachi orange BMS 2312	0893 392 312	1/6
Volvo construction machinery grey BMS 7328	0893 397 328	1/6
Bomag anthracite BMS 7452	0893 397 452	1/6
Volvo grey SM new BMS 7454	0893 397 454	1/6
Nova grey MB 7350	0893 397 350	1/6
Argentite grey DB 7354	0893 397 354	1/6
Arctic white DB 9147	0893 399 147	1/6
Optional	0893 339	12

Please consider the legal instruction at the beginning of this chapter.

Paint spray, semi-gloss

Durable nitro-alkydal quality at a high technical level.

High-grade nitro-alkydal quality

- Fast drying
- Easy to work with
- Excellent spreading properties
- Good coverage

Drying time at 20 °C

- Dust-dry < 10 min.
- Tack-free < 20 min.
- Touch-dry < 60 min.



Contents	400 ml
Chemical basis	Nitroalkydale
Gloss level	Semi-matt
Max. temperature resistance	80 °C

Colour	Art. no.	P. Qty.
Jet black RAL 9005	0893 379 005	1/6
Light grey RAL 7035	0893 377 035	1/6
Optional	0893 331	12
Pure white RAL 9010	0893 379 010	1/6

Please consider the legal instruction at the beginning of this chapter.

Order from a selection of colours, from 12 tins.

It is essential to specify the colour shade and colour no. in the item-specific text

Delivery time 3 days from date of order

Dull matt paint spray

Durable nitro-alkydal quality at a high technical level.

High-grade nitro-alkydal quality

- Fast drying
- Easy to work with
- Excellent spreading properties
- Good coverage

Drying time at 20°C

- Dust-dry < 10 min.
- Tack-free < 20 min.
- Touch-dry < 60 min.



Contents	400 ml
Chemical basis	Nitroalkydale
Gloss level	Dull matt
Max. temperature resistance	80 °C

Colour	Art. no.	P. Qty.
Bronze green RAL 6031	0893 386 031	1/6
Jet black RAL 9005	0893 389 021	1/6
Leather brown RAL 8027	0893 388 027	1/6
Optional	0893 332	12

Please consider the legal instruction at the beginning of this chapter.

Order from a selection of colours, from 12 tins.

It is essential to specify the colour shade and colour no. in the item-specific text

Delivery time 3 days from date of order

Heatproof paint spray

Paint spray for temperature-stressed parts on cars, in households and in industry.

- Extremely heat-resistant to 650°C
- Weather-resistant
- Resilient
- Free of heavy metals: no lead, cadmium, chromium

Contents	400 ml
Chemical basis	Silicone resin
Max. temperature resistance	650 °C



Colour	Gloss level	Art. no.	P. Qty.
Jet black RAL 9005	Matt	0893 359 005	1/6
Silver	Satin matt	0893 357 051	1/6

Paint spray, special Clear varnish

High-quality nitro-alkydal quality at a high technical level

- Quick drying
- Easy to apply
- Very good coverage properties
- Good coverage

Contents	400 ml
Dust-drying time	10 min
Colour	Transparent



Gloss level	Art. no.	P. Qty.
High gloss	0893 351 930	1/6
Semi-matt	0893 351 920	1/6

Please consider the legal instruction at the beginning of this chapter.

Paint spray, matt

Durable nitro-alkydal quality at a high technical level

- High-quality nitro-alkydal quality, does not contain heavy metals
- Drying time at 20°C
- Can be coated with all common primers, filler products and paint types

Contents	400 ml
Chemical basis	Nitroalkydale
Gloss level	Matt
Max. temperature resistance	80 °C



Colour	Art. no.	P. Qty.
Bronze green RAL 6031	0893 326 031	1/6
Jet black RAL 9005	0893 329 005	1/12/24
Yellow olive (NATO green) RAL 6014	0893 326 014	1/6

Please consider the legal instruction at the beginning of this chapter.

Paint spray, silk gloss

Durable nitro-alkydal quality at a high technical level.

High-grade nitro-alkydal quality

- Easy to use
- Excellent spreading properties
- Fast drying
- Good coverage
- Can be painted over all common primers, filler products and paint types
- Quick-drying paint resin
- Does not contain heavy metals



Contents	400 ml
Chemical basis	Nitroalkydale
Gloss level	Satin matt
Max. temperature resistance	80 °C

Colour	Art. no.	P. Qty.
Golden yellow RAL 1004	0893 341 004	1/6
Traffic yellow RAL 1023	0893 341 023	1/6
Pastel orange RAL 2003	0893 342 003	1/6
Flame red RAL 3000	0893 343 000	1/6
Gentian blue RAL 5010	0893 345 010	1/6
Sky blue RAL 5015	0893 345 015	1/6
Emerald green RAL 6001	0893 346 001	1/6
Signal grey RAL 7004	0893 347 004	1/6
Brown grey RAL 7013	0893 347 013	1/6
Slate grey RAL 7015	0893 347 015	1/6
Anthracite grey RAL 7016	0893 347 016	1/6
Blue grey RAL 7031	0893 347 031	1/6
Pebble grey RAL 7032	0893 347 032	1/6
Light grey RAL 7035	0893 347 035	1/6
Dusty grey RAL 7037	0893 347 037	1/6
Agate grey RAL 7038	0893 347 038	1/6
Traffic grey B RAL 7043	0893 347 043	1/6
Cream RAL 9001	0893 349 001	1/6
Grey white RAL 9002	0893 349 002	1/6
Signal white RAL 9003	0893 349 003	1/6
Signal black RAL 9004	0893 349 004	1/6
Jet black RAL 9005	0893 349 005	1/6
White aluminium RAL 9006	0893 349 006	1/6
Grey aluminium RAL 9007	0893 349 007	1/6
Pure white RAL 9010	0893 349 010	1/6
Graphite black RAL 9011	0893 349 011	1/6
Satin black VW 110	0893 349 110	1/6
Dark grey VW 115	0893 349 115	1/6
Black Fiat 120	0893 349 120	1/6
Galinit grey MB 129	0893 349 129	1/6
Deep dark grey MB 167	0893 349 167	1/6
Actros grey MB 7329	0893 347 329	1/6
Nova grey MB 7350	0893 347 350	1/6

Continuation **Paint spray, silk gloss**

Colour	Art. no.	P. Qty.
Argentite grey MB 7354	0893 347 354	1/6
Optional	0893 330	12

Please consider the legal instruction at the beginning of this chapter.

Paint spray, special

Durable nitro-alkydal quality at a high technical level.

High-grade nitro-alkydal quality

- Easy to use
- Excellent spreading properties
- Fast drying
- Good coverage
- Can be painted over all common primers, filler products and paint types
- Quick-drying paint resin
- Does not contain heavy metals



Contents	400 ml
Chemical basis	Nitroalkydale
Gloss level	High gloss
Max. temperature resistance	80 °C

Colour	Art. no.	P. Qty.
Hammered silver	0893 351 187	1/6
Hammered gold	0893 351 873	1/6
Pearl silver	0893 351 895	1/6
Wheel silver	0893 351 900	1/6
Brilliant white	0893 351 911	1/6
Luminous bright red RAL 3026	0893 353 026	1/6

Please consider the legal instruction at the beginning of this chapter.

Paint spray, high gloss

Durable nitro-alkydal quality at a high technical level.

- Can be coated with all common primers, filler products and paint types
- Quick-drying paint resin
- Formula does not contain heavy metals

Chemical basis	Nitroalkydale
Gloss level	High gloss
Max. temperature resistance	80 °C



Contents	Colour	Art. no.	P. Qty.
400 ml	Golden yellow RAL 1004	0893 361 004	1/6
600 ml	Daffodil yellow RAL 1007	0893 331 007	1/6
400 ml	Oyster white RAL 1013	0893 361 013	1/6
400 ml	Light ivory RAL 1015	0893 361 015	1/6
600 ml	Sulfur yellow RAL 1016	0893 331 016	1/6
600 ml	Zinc yellow RAL 1018	0893 331 018	1/6
400 ml	Colza Yellow RAL 1021	0893 361 021	1/6
400 ml	Traffic yellow RAL 1023	0893 361 023	1/6
600 ml	Broom yellow RAL 1032	0893 331 032	1/6
600 ml	Yellow orange RAL 2000	0893 332 000	1/6
400 ml	Vermilion RAL 2002	0893 362 002	1/6
600 ml	Pure orange RAL 2004	0893 332 004	1/6
400 ml	Traffic orange RAL 2009	0893 362 009	1/6
600 ml	Deep orange RAL 2011	0893 332 011	1/6
400 ml	Flame red RAL 3000	0893 363 000	1/6
600 ml	Flame red RAL 3000	0893 333 000	1/6
600 ml	Carmine red RAL 3002	0893 333 002	1/6
600 ml	Ruby red RAL 3003	0893 333 003	1/6
600 ml	Traffic red RAL 3020	0893 333 020	1/6
600 ml	Ultramarine blue RAL 5002	0893 335 002	1/6
400 ml	Sapphire blue RAL 5003	0893 365 003	1/6
400 ml	Signal blue RAL 5005	0893 365 005	1/6
600 ml	Brilliant blue RAL 5007	0893 335 007	1/6
600 ml	Gentian blue RAL 5010	0893 335 010	1/6
600 ml	Steel blue RAL 5011	0893 335 011	1/6
400 ml	Light blue RAL 5012	0893 365 012	1/6
600 ml	Light blue RAL 5012	0893 335 012	1/6
400 ml	Cobalt blue RAL 5013	0893 365 013	1/6
600 ml	Sky blue RAL 5015	0893 335 015	1/6
400 ml	Traffic blue RAL 5017	0893 365 017	1/6
600 ml	Turquoise blue RAL 5018	0893 335 018	1/6
400 ml	Leaf green RAL 6002	0893 366 002	1/6
400 ml	Moss green RAL 6005	0893 366 005	1/6
400 ml	Reseda green RAL 6011	0893 366 011	1/6
400 ml	Turquoise green RAL 6016	0893 366 016	1/6
600 ml	Yellow green RAL 6018	0893 336 018	1/6
400 ml	Grass green RAL 6010	0893 366 010	1/6
600 ml	Opal green RAL 6026	0893 336 026	1/6
400 ml	Mint green RAL 6029	0893 366 029	1/6
400 ml	Silver grey RAL 7001	0893 367 001	1/6
400 ml	Basalt grey RAL 7012	0893 367 012	1/6
400 ml	Slate grey RAL 7015	0893 367 015	1/6
400 ml	Anthracite grey RAL 7016	0893 367 016	1/6
600 ml	Anthracite grey RAL 7016	0893 337 016	1/6
400 ml	Black grey RAL 7021	0893 367 021	1/6
600 ml	Black grey RAL 7021	0893 337 021	1/6
600 ml	Graphite grey RAL 7024	0893 337 024	1/6
400 ml	Blue grey RAL 7031	0893 367 031	1/6
400 ml	Pebble grey RAL 7032	0893 367 032	1/6
400 ml	Light grey RAL 7035	0893 367 035	1/6
400 ml	Dusty grey RAL 7037	0893 367 037	1/6
400 ml	Traffic grey B RAL 7043	0893 367 043	1/6
400 ml	Chocolate brown RAL 8017	0893 368 017	1/6
400 ml	Cream RAL 9001	0893 369 001	1/6
600 ml	Grey white RAL 9002	0893 339 002	1/6

Continuation **Paint spray, high gloss**

Contents	Colour	Art. no.	P. Qty.
400 ml	Signal white RAL 9003	0893 369 003	1/6
400 ml	Jet black RAL 9005	0893 369 005	1/12
600 ml	Jet black RAL 9005	0893 339 005	1/6
600 ml	White aluminium RAL 9006	0893 339 006	1/6
400 ml	Pure white RAL 9010	0893 369 010	1/6
600 ml	Pure white RAL 9010	0893 339 010	1/6
400 ml	Graphite black RAL 9011	0893 369 011	1/6
600 ml	Graphite black RAL 9011	0893 339 011	1/6
400 ml	Traffic white RAL 9016	0893 369 016	1/6
600 ml	Traffic black RAL 9017	0893 339 017	1/6
400 ml	Papyrus white RAL 9018	0893 369 018	1/6
600 ml	Chassis red (ox blood) MB 3575	0893 333 575	1/6
600 ml	Nova grey MB 7350	0893 337 350	1/6
600 ml	Arctic white MB 9147	0893 339 147	1/6
600 ml	Winter white Volvo 1103	0893 331 103	1/6
600 ml	Chassis red IC 105	0893 333 105	1/6
400 ml	Police white L 93 Z VW	0893 361 864	1/6
400 ml	Construction machinery yellow 4464	0893 364 464	1/6
400 ml	Caterpillar yellow	0893 360 200	1/6
400 ml	Genieblue 1484	0893 361 484	1/6
400 ml	Chassis grey IC 444	0893 360 444	1/6
600 ml	Iveco white 194	0893 33 194	1/6
400 ml	Optional	0893 333	12

Please consider the legal instruction at the beginning of this chapter.

- 400-ml can with round nozzle
- 600-ml can with fan nozzle

1-component universal primer

High-filling 1-component acidic primer with good flowing properties and outstanding adhesion on iron, steel, aluminium and zinc.

- Short drying time, high filling power
- Active corrosion protection

Available colours:

- FC 0001 = red (only 1 kg and 5 kg container)
- FC 0002 = beige
- FC 0003 = dark grey



Chemical basis	Polyvinyl butyral
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Weight of content	Available colours	Art. no.	P. Qty.
1 kg	FC 0001, FC 0002, FC 0003	5866 100 101	1
5 kg	FC 0001, FC 0002, FC 0003	5866 100 105	1
25 kg	FC 0002, FC 0003	5866 100 125	1

Please consider the legal instruction at the beginning of this chapter.

Protect from frost. Check the colour prior to application. The surface must have the correct pre-treatment depending on the surface. The use of a suitable pre-cleaner or a pre-coat is recommended in special cases. For further information, please refer to the technical data sheet.

Permissible maximum VOC content of product category 2 (e) of the German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV): 780 g/l

Max. VOC content of 1-component universal primer: 734 g/l.

Available colours:

- FC 0001 = red (only 1 kg and 5 kg container)
- FC 0002 = beige
- FC 0003 = dark grey

Important!

Only enter the colour code (e.g. FC 0006). Information such as the RAL number or text such as „RAL 5010, please“ is recognised by the system as incorrect.

1-component synthetic resin primer

High-coverage synthetic resin thick-film primer with excellent application properties and active corrosion protection.

- Active protection against corrosion thanks to zinc phosphate
- Short drying time, high filling power
- High degree of stability under load
- Application in thick coats
- Suitable for electrostatic application
- Chromate and lead-free
- Solids content of base material: 73%
- For indoor and outdoor use



Chemical basis	Alkyd resin
Available colours	FC 0004, FC 0005

Weight of content	Art. no.	P. Qty.
5 kg	5866 101 105	1
25 kg	5866 101 125	1

Please consider the legal instruction at the beginning of this chapter.

The surface must have the correct pre-treatment depending on the surface.

Permissible maximum VOC content of product category 2 (e) of the German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV): 540 g/l

Max. VOC content of 1-component synthetic resin primer: 496 g/l

1-component synthetic resin paint

Fast-drying, highly weather-resistant synthetic resin lacquer for machinery and structures.

- Short drying time
- Highly resistant to UV and weathering
- Excellent coverage
- High degree of stability under load
- Excellent application, high final hardness, stable gloss
- Resistant to temporary exposure to fuels
- Solids content of base material in percent: 53.6



Continuation 1-component synthetic resin paint

Chemical basis	Alkyd resin
Gloss level	Glossy

Weight of content	Colour	Art. no.	P. Qty.
1 kg	Colour Category 1	5866 300 101	1
1 kg	Colour Category 2	5866 300 201	1
5 kg	Colour Category 1	5866 300 105	1
5 kg	Colour Category 2	5866 300 205	1

Please consider the legal instruction at the beginning of this chapter.

Protect from frost. Check the colour prior to application. The surface must have the correct pre-treatment depending on the surface. The use of a suitable pre-cleaner or a pre-coat is recommended in special cases. For further information, please refer to the technical data sheet.

Specify the colour with RAL or original colour number in item-related text. Your order cannot be processed without this information.

In accordance with the German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV), this product may not be used for repairing vehicle paintwork or for coating structures, their components or decorative components.

1-component container lacquer

Weather-resistant, single-layer lacquer with outstanding corrosion protection properties and high printing capacity

- High degree of resistance to UV and weathering
- Resistant to temporary exposure to fuels
- Excellent coverage
- Excellent anti-corrosion properties
- Good rolling and brushing properties
- Suitable for electrostatic application
- High degree of elasticity



Chemical basis	Alkyd resin
Gloss level	Semi-matt

Weight of content	Colour	Art. no.	P. Qty.
5 kg	Colour Category 1	5866 301 105	1
5 kg	Colour Category 2	5866 301 205	1
25 kg	Colour Category 1	5866 301 125	1
25 kg	Colour Category 2	5866 301 225	1

Please consider the legal instruction at the beginning of this chapter.

Protect from frost. Check the colour prior to application. The surface must have the correct pre-treatment depending on the surface. The use of a suitable pre-cleaner or a pre-coat is recommended in special cases. For further information, please refer to the technical data sheet.

In accordance with the German Ordinance on Solvent-Based Paints and Lacquers dated 16. 12.2004, this product may not be used for repairing vehicle paintwork or for coating structures, their components or decorative components.

For accelerated drying and increased resistance, hardener thinner, art. no. 5866501101 can be used instead of thinner.



1-component thick-film lacquer

Primer, corrosion protection and lacquer in a single product.

- Excellent corrosion protection properties
- Outstanding covering and filling power
- Quick drying

Chemical basis	Alkyd resin
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Weight of content	Colour	Gloss level	Art. no.	P. Qty.
1 kg	Colour Category 1	Satin matt	5866 203 101	1
1 kg	Colour Category 2	Satin matt	5866 203 201	1
5 kg	Colour Category 1	Matt	5866 203 107	1
5 kg	Colour Category 1	Satin matt	5866 203 105	1
5 kg	Colour Category 1	Semi-matt	5866 203 106	1
5 kg	Colour Category 2	Matt	5866 203 207	1
5 kg	Colour Category 2	Satin matt	5866 203 205	1
5 kg	Colour Category 2	Semi-matt	5866 203 206	1
25 kg	Colour Category 1	Satin matt	5866 203 125	1
25 kg	Colour Category 2	Satin matt	5866 203 225	1

Please consider the legal instruction at the beginning of this chapter.

Hardener thinner

For accelerated drying of 1-component synthetic resin lacquer, 1-component container lacquer and 1-component thick coat lacquer

Contents	1 l
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Art. no. 5866 501 101

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



1-component painting lacquer AQUA

Alkyd resin lacquer that can be diluted with water for high-quality lacquering of primed metal surfaces and wooden components for both indoors and outdoors.

- Can be diluted with water, virtually odourless, highly adhesive
- Weather-resistant in accordance with VOB Part C, DIN 18 363
- Highly resistant to UV and weathering
- Non-sticking, non-fading, breathable
- Resistant to temporary exposure to fuels
- Solids content of base material: 46.2%

Weight of content	3 kg
Chemical basis	Alkyd resin combination
Gloss level	Satin matt



Colour	Art. no.	P. Qty.
Colour Category 1	5866 302 103	1
Colour Category 2	5866 302 203	1

Please consider the legal instruction at the beginning of this chapter.

Protect from frost. Check the colour prior to application. The surface must have the correct pre-treatment depending on the surface. The use of a suitable pre-cleaner or a pre-coat is recommended in special cases. For further information, please refer to the technical data sheet.

Permissible maximum VOC content of product category 1 (d) of the German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV): 150 g/l

Max. VOC content of 1-component painting lacquer, colour category 1: 79 g/l.

Important!

Specify the colour with RAL or original colour number in item-related text! Your order cannot be processed without this information!

Primer 2-component universal primer

Primer with excellent adhesion and with good filling properties (up to 100 µm) and outstanding protection against corrosion

- Fast-drying primer coating with excellent filling properties
- Excellent corrosion protection
- Wet-on-wet application possible
- Excellent adhesion on iron, steel, GFRP, aluminium and galvanised surfaces
- Can be painted over with all commercially available one-component and two-component paints (except solvent-based double-layer base paints)
- Permissible maximum VOC content: 540 g/l of product category 2 (e) of the German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV). Max. VOC content: 517 g/l
- Solids content of base material in %: 70.2
- Can be painted with all commercially available paints
- Cannot be covered
- Available colours: FC 0006 = light grey



Chemical basis	Two-component acrylic
Available colours	FC 0006

Weight of content	Art. no.	P. Qty.
5 kg	5866 103 105	1
10 kg	5866 103 110	1

Please consider the legal instruction at the beginning of this chapter.



The surface must have the correct pre-treatment depending on the surface.

Important: Specify the colour code in item-related text! E.g.: FC 0006 for light grey

Not suitable for powder coatings

Primer 2-component epoxy primer

Primer that is resistant to chemicals with excellent adhesion and outstanding corrosion protection properties

- High protection against corrosion
- Suitable for electrostatic application
- Excellent chemical and mechanical resistance
- Can be used for insulation purposes on thermoplastic surfaces
- Permissible maximum VOC content: 540 g/l of product category 2 (e) of the German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV). Max. VOC content: 565 g/l
- Solids content of base material in %: 69.8
- Available colours: FC 0006 = light grey



Continuation **Primer 2-component epoxy primer**

Weight of content	5 kg
Chemical basis	2-methoxy-1-methylethyl acetate
Available colours	FC 0006

Art. no. 5866 104 105

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



The surface must have the correct pre-treatment depending on the surface.

Only enter the colour code (e.g. FC 0006). Information such as the RAL number or text such as „RAL 5010, please“ is recognised by the system as incorrect.

Not suitable for powder coatings (temperatures too high)

Acrylic filler 2K-HS

Fast-drying, high-solid acrylic filler with outstanding stability for high coat thicknesses (up to 300 µm).

- Outstanding stability (no drop-in)
- Dries very quickly
- Excellent wet-on-wet application (no intermediate sanding)
- High coat thickness
- Excellent to sand
- High degree of rust protection thanks to anti-corrosive pigments
- Solids content of base material: 73.4%
- Can be painted with all commercially available top-coat paint systems
- Cannot be covered



Contents	4 l
Can be varnished after	5 h

Art. no. 5866 102 104

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



The surface must have the correct pre-treatment depending on the surface.

Only enter the colour code (e.g. FC 0006). Information such as the RAL number or text such as „RAL 5010, please“ is recognised by the system as incorrect.

Permissible maximum VOC content of product category 2 (e) of the German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV): 540 g/l.

Max. VOC content: 488 g/l.

2-component primer hardener

For 2C-HS filler, 2C universal primer

Density/conditions	0.973 g/cm ³ /at 20 °C
Shelf life from production/conditions	12 Month/at 20 °C



Contents	Weight of content	Art. no.	P. Qty.
1 l	1080 g	5866 401 101	1
5 l	5248 g	5866 401 105	1

Please consider the legal instruction at the beginning of this chapter.

2-component HS top coat

High-solid HS acrylic paint with high degree of resistance to UV and weathering.

- Quick-drying
- Highly scratch, shock and impact-resistant
- Excellent resistance to solvents, petrol, grease and weakly-concentrated acids and bases

Chemical basis	Polyurethane acrylic
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Contents	Colour	Gloss level	Art. no.	P. Qty.
1 l	Colour Category 1	Glossy	5866 202 101	1
1 l	Colour Category 2	Glossy	5866 202 201	1
3 l	Colour Category 1	Glossy	5866 202 103	1
3 l	Colour Category 1	Satin matt	5866 202 104	1
3 l	Colour Category 2	Glossy	5866 202 203	1
3 l	Colour Category 2	Satin matt	5866 202 204	1

Please consider the legal instruction at the beginning of this chapter.

Protect from frost. Check the colour prior to application. The surface must have the correct pre-treatment depending on the surface. The use of a suitable pre-cleaner or a pre-coat is recommended in special cases. For further information, please refer to the technical data sheet.

Permissible maximum VOC content of product category 2 (e) of the German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV.): 420 g/l.

Max. VOC content of 2-component HS top coat: 417 g/l.

Important!

Specify the colour with RAL or original colour number in item-related text! Your order cannot be processed without this information.

2-component thick-film lacquer

Primer, corrosion protection and top-coat in a single product.

- Long processing time, high coat thickness
- Excellent corrosion protection properties
- Highly resistant to UV and weathering
- High degree of shock and impact resistance
- Excellent water resistance, resistant to solvents
- Solids content of base material: 74.8%



Weight of content	5 kg
Chemical basis	Polyurethane acrylic

Colour	Gloss level	Art. no.	P. Qty.
Colour Category 1	Matt	5866 204 107	1
Colour Category 1	Satin matt	5866 204 105	1
Colour Category 1	Semi-matt	5866 204 106	1
Colour Category 2	Matt	5866 204 207	1
Colour Category 2	Satin matt	5866 204 205	1
Colour Category 2	Semi-matt	5866 204 206	1

Please consider the legal instruction at the beginning of this chapter.

Fire behaviour classified in accordance with DIN EN 13501-1:2010-01

- Fire behaviour B
- Smoke development s1
- Flaming droplets d0

Protect from frost. Check the colour prior to application. The surface must have the correct pre-treatment depending on the surface. The use of a suitable pre-cleaner or a pre-coat is recommended in special cases. For further information, please refer to the technical data sheet.

Permissible maximum VOC content of product category 2 (d) of the German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV.) : 420 g/l.

Max. VOC content of 2-component thick-film lacquer: 420 g/l.

Important!

Specify the colour with RAL or original colour number in item-related text! Your order cannot be processed without this information!

Clear varnish 2-component Rapid

Clear varnish for permanent sealing of touched-up surfaces and newly painted small parts

- Very quick-drying, good running two-component clear varnish with excellent resistance to weathering, chemicals and petrol
- High output rate
- Quick to dry
- Constant atomisation pressure until completely empty
- Excellent resistance to wear and scratches
- Ideally suited for spot repair work



Chemical basis	Two-component resin
Contents	250 ml

Art. no. 5867 000 124

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Processing time following activation: max. 14 hours. Turn the can upside down and spray until the valve is empty after use.

2-component HS clear varnish VOC

Top-quality, high-solid acrylic clear varnish for complete and partial painting of passenger cars and commercial vehicles.

- Brilliant clear varnish condition, optimum application
- Perfect polishing immediately after forced drying
- VOC-compliant high-solid acrylic varnish
- High degree of resistance to all weather influences as well as chemical and mechanical stresses
- Also suitable as protective varnish for neon colours (daylight luminous paints)



Chemical basis	Two-component acrylic
Gloss level	High gloss

Contents	Art. no.	P. Qty.
1 l	5866 200 101	1
5 l	5866 200 105	1

Please consider the legal instruction at the beginning of this chapter.

Permissible maximum VOC content of product category 2 (d) of the German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV): 420 g/l.

Max. VOC content of 2-component HS clear varnish VOC: 420 g/l.

2-component HS hardener for top coats

Perfectly suited for use with 2-component HS acrylic paint, 2-component clear varnish and 2-component thick coat lacquer.

- Suitable for partial and full paint

Chemical basis	Polyisocyanate
Density/conditions	1.031 g/cm ³ /at 20 °C



Contents	Art. no.	P. Qty.
1 l	5866 400 101	1
5 l	5866 400 105	1

Please consider the legal instruction at the beginning of this chapter.

Acrylic thinner

For 2-component acrylic products and 1-component thick-film lacquers

- To dilute or to adjust the viscosity of 2-component top coats and 2-component clear varnishes for painting.

Contents	5 l
Container	Tinplate canister

Art. no. 0823 400 0

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.





Universal thinner

For almost all solvent-based paint and primer materials
For adjusting the viscosity of paint products

Contents	Container	Art. no.	P. Qty.
5 l	Plastic canister	0823 440 5	1
30 l	Tinplate canister	0823 440 30	1

Please consider the legal instruction at the beginning of this chapter.

Clear varnish

Overpainting

The clear varnish means you can paint over untreated wood surfaces.

Compatibility

The clear varnish is compatible with all AC and NC varnishes.

Speed

The varnish dries in a very short time.

Contents	400 ml
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Continuation **Clear varnish**

Gloss level	Colour	Art. no.	P. Qty.
High gloss	Transparent, high gloss	0893 188 1	1/6
Semi-matt	Transparent, silk matt	0893 188	1/6

Please consider the legal instruction at the beginning of this chapter.

Not suitable for synthetic resin varnish.

Clear varnish

- Anti-fogging
- Quick-drying
- Wide range of applications
- Makes minor surface damage such as scratches, scrapes and similar virtually invisible

Contents	400 ml
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Gloss level	Colour	Art. no.	P. Qty.
Matt	Transparent, matt	0893 188 2	1/6
Satin matt	Transparent, silk matt	0893 188 3	1/6

Please consider the legal instruction at the beginning of this chapter.

Filter screen

With colour-coded system for simple visual identification of mesh size.



Colour	Mesh size	Art. no.	P. Qty.
Blue	125 µm	0899 700 111	250
Orange	260 µm	0899 700 100	250
Yellow	190 µm	0899 700 110	100

Please consider the legal instruction at the beginning of this chapter.

Dust binder cloth

For binding even the finest dust before painting work.

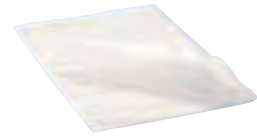
For universal use

Slightly coarser mesh fabric with soft, harmless waterproofing

- Reliable dust absorption and binding

Silicone-free and wax-free

Unlimited shelf life as does not dry out



Backing material	Gauze from rayon thread
Type of impregnation	Non-drying alkyd resin
Colour	White
Length x width	80 x 50 cm

Art. no. 0899 700 001

P. Qty.: 5

Please consider the legal instruction at the beginning of this chapter.

Filler VAKU 20

Fine filler with high elasticity for sealing pores and for repairing small scratches, grooves and uneven surfaces

- Precisely matched combinations of fillers and resins
- Quick-drying
- Easy to sand
- Brilliant white pigmentation
- Temperature-resistant up to 80°C



Chemical basis	Polyester resin
Colour	White
Shelf life from production	12 Month

Weight of content	Art. no.	P. Qty.
970 g	0892 602 01	1/6
1960 g	0892 602 02	1/4

Please consider the legal instruction at the beginning of this chapter.

Tip: Before the final coating, skim the repaired spot with 1-component or 2-component universal primer, HS filler or Rust Stop Quattro (to eliminate the risk of visible repair edges or gloss reduction)

Maximum permissible VOC content of VAKU 20: 250 g/l of product category 2(b). Max. VOC content in accordance with German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV): 2 g/l

Filler VAKU 30

Universal filler with outstanding properties. Can be used as knifing and fine filler.

- No breakaway in edges with fine sanding
- Easy to sand, minimal dust build-up
- High filling power and a high degree of stability under load



Chemical basis	Polyester resin
Colour	Beige
Shelf life from production	12 Month

Weight of content	Art. no.	P. Qty.
900 g	0892 603 01	1/6
1960 g	0892 603 02	1/4
2640 g	0892 603 03	1/4

Please consider the legal instruction at the beginning of this chapter.

Tip 1

For optimum corrosion protection and reliable adhesion, pre-prime area to be filled using two-component Multi-Fill (do not use one-component primer, as this can cause loss of adhesion) prior to application of filler

Tip 2

Less is more. For pore-free application, it is important to apply the filler in several thin layers.

Maximum permissible VOC content of VAKU 30: 250 g/l of product category 2(b). Max. VOC content in accordance with German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV): 0 g/

Do not use on heavily weathered surfaces.

Filler VAKU 40

Filler for filling and levelling deep uneven surfaces and scratches

- Extremely easy to sand and minimal dust build-up
- Quick drying
- High filling power and a high degree of stability under load
- Heat-resistant up to 80°C



Chemical basis	Polyester
Colour	Light beige
Weight of content	1760 g
Shelf life from production	12 Month

Art. no. 0892 604 02

P. Qty.: 1/4

Please consider the legal instruction at the beginning of this chapter.

Maximum permissible VOC content of VAKU 40: 250 g/l of product category 2(b). Max. VOC content in accordance with German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV): 0 g/l

Filler VAKU 50

Elastic contour filler, specifically for use on paintable plastic parts

- High degree of elasticity
- Excellent adhesion
- Short drying time
- Easy to sand
- Can also be used on other material substrates
- Temperature-resistant up to 80°C



Contents	590 ml
Chemical basis	Polyester resin
Colour	Anthracite
Weight of content	970 g
Shelf life from production	12 Month

Art. no. 0892 605 01

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Tip: Preliminary tests are recommended due to the broad range of mixed plastics! Pre-treatment with a 1-component plastic primer is advisable to ensure optimum adhesion.

Not suitable for repairing breakage points.

To prevent possible complaints, always ensure the correct dosing ratio between the filler and hardener.

Filler VAKU 60

Polyester resin-based TIN-Metallic filler with aluminium pigmentation for vehicle construction and vehicle repairs

- High-quality filler and resin combinations enable a non-porous, closed filling of recesses and uneven surfaces
- Low dust build-up during sanding
- Aluminium pigmentation ensures an extremely high degree of strength in conjunction with metallic surfaces



Contents	1282.1 ml
Chemical basis	Polyester resin
Colour	Anthracite, metallic
Weight of content	1760 g
Shelf life from production	12 Month

Art. no. 0892 606 02

P. Qty.: 1/4

Please consider the legal instruction at the beginning of this chapter.

- Fillers are sensitive to drying quickly
- Caution! – Risk of cracking above 80°C
- Particular caution should be exercised when using infra-red radiators
- Maximum permissible VOC content of VAKU 60: 250 g/l of product category 2(b). Max. VOC content in accordance with German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV): 14 g/l

Filler VAKU 70

Glass fibre reinforcement filler for bridging cracks, holes and for repairing glass fibre reinforced plastics.

- Balanced proportion of glass fibres
- Excellent adhesion and stability
- Quick to harden
- Temperature-resistant up to 80°C



Contents	1120.8 ml
Chemical basis	Polyester resin
Colour	Green
Weight of content	1760 g
Shelf life from production	12 Month

Art. no. 0892 607 02

P. Qty.: 1/4

Please consider the legal instruction at the beginning of this chapter.

Tip: Can be coated with VAKU 20, VAKU 30 and VAKU 40 filler without sanding in between coats.

To prevent possible complaints, always ensure the correct dosing ratio between the filler and hardener.

Repair resin VAKU 80

Laminating resin for repairing larger holes and damage to GFRP parts in conjunction with glass fibre mats and fabric

Balanced resin mixture

Excellent application properties

Special lid/outlet combination

- User friendly
- Easy to empty down to the last drop



Contents	869.6 ml
Chemical basis	Polyester resin
Colour	Yellowish
Weight of content	970 g
Shelf life from production	12 Month

Art. no. 0892 608 01

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

- When laminating in conjunction with VAKU 90 glass fibre mat, ensure bubble-free application.
- Apply VAKU 80 wet-on-wet in several steps.
- Maximum permissible VOC content of VAKU 80: 250 g/l of product category 2(b). Max. VOC content in accordance with German Ordinance on Solvent-Based Paints and Lacquers (ChemVOC FarbV): 0 g/l

VAKU acrylic filler

Ready-to-use, 1-component water-based filler

Ready to apply

- Fast and easy to apply
- Saves time
- No hardener required
- Can be painted and sanded
- Good adhesion and load-bearing capacity

Contents	400 ml
Chemical basis	Acrylic resin
Colour	White
Weight of content	720 g
Shelf life from production	12 Month



Art. no. 0892 600 21

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



For indoor use only. When sanding, you should wear a fine-dust mask. Store VAKU acrylic filler in a cool, but frost-free place. Do not expose to direct sunlight. Unopened, it can be stored for 1 year.

Hardener for filler

Putty hardener for our polyester putty VAKU 20-
VAKU 80

Weight of content	40 g
Colour	Red
Smell/fragrance	Characteristic
Max. temperature resistance	80 °C
pH value	Slightly acidic



Art. no. 0892 600 004

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Touch-up paint Spot Finisher

Touch-up paint for homogeneous painting transitions in the edge zones

- Excellent dissolving capacity
- Glossy when dry
- Smooth edges
- Ideal for repair painting and spot repairs

Contents	400 ml
Colour	Transparent

Art. no. 0893 345

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Turn the can upside down after use and spray until the nozzle is empty.



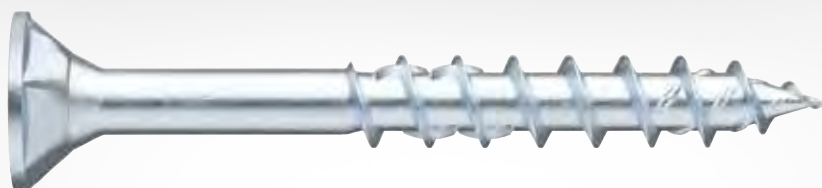


02

CONNECTION ELEMENTS

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Assy, Wüpofast, other particle board screws	470
Facade and roof construction	572
Cover caps / sealing plugs	670
Hose clamps, etc.	699
Other connecting elements	712





ASSY® 4 CSMP universal screw Steel zinc plated partial thread countersunk milling pocket head

Universal partial-thread screw for fast, gap-free fastening of wood-wood connections in furniture construction, interior fitting or wood construction in indoor dry or sheltered areas

- Ideal power transmission thanks to RW drive
- Significant reduction in the amount of force required when screwing in the screw
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility

ETA-11/0190 approved

Material	Hardened steel
RoHS-compliant	Yes



Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3 mm	20 mm	12 mm	5.9 mm	1.9 mm	0190 130 20	1000
3 mm	25 mm	17 mm	5.9 mm	1.9 mm	0190 130 25	1000
3 mm	30 mm	17 mm	5.9 mm	1.9 mm	0190 130 30	1000
3 mm	35 mm	22 mm	5.9 mm	1.9 mm	0190 130 35	1000
3 mm	40 mm	25 mm	5.9 mm	1.9 mm	0190 130 40	500
3.5 mm	20 mm	12 mm	7 mm	2.3 mm	0190 135 20	1000
3.5 mm	25 mm	17 mm	7 mm	2.3 mm	0190 135 25	1000

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3.5 mm	30 mm	18 mm	7 mm	2.3 mm	0190 135 30	1000
3.5 mm	35 mm	21 mm	7 mm	2.3 mm	0190 135 35	1000
3.5 mm	40 mm	25 mm	7 mm	2.3 mm	0190 135 40	500
3.5 mm	45 mm	30 mm	7 mm	2.3 mm	0190 135 45	500
3.5 mm	50 mm	30 mm	7 mm	2.3 mm	0190 135 50	500
4 mm	20 mm	12 mm	8 mm	2.5 mm	0190 140 20	1000
4 mm	25 mm	18 mm	8 mm	2.5 mm	0190 140 25	1000
4 mm	30 mm	18 mm	8 mm	2.5 mm	0190 140 30	500
4 mm	35 mm	21 mm	8 mm	2.5 mm	0190 140 35	500
4 mm	40 mm	24 mm	8 mm	2.5 mm	0190 140 40	500
4 mm	45 mm	29 mm	8 mm	2.5 mm	0190 140 45	500
4 mm	50 mm	33 mm	8 mm	2.5 mm	0190 140 50	500
4 mm	55 mm	34 mm	8 mm	2.5 mm	0190 140 55	250
4 mm	60 mm	34 mm	8 mm	2.5 mm	0190 140 60	250
4 mm	70 mm	34 mm	8 mm	2.5 mm	0190 140 70	200
4.5 mm	35 mm	21 mm	8.9 mm	2.8 mm	0190 145 35	500
4.5 mm	40 mm	26 mm	8.9 mm	2.8 mm	0190 145 40	500
4.5 mm	45 mm	26 mm	8.9 mm	2.8 mm	0190 145 45	500
4.5 mm	50 mm	28 mm	8.9 mm	2.8 mm	0190 145 50	250
4.5 mm	60 mm	33 mm	8.9 mm	2.8 mm	0190 145 60	250
4.5 mm	70 mm	38 mm	8.9 mm	2.8 mm	0190 145 70	200
4.5 mm	80 mm	43 mm	8.9 mm	2.8 mm	0190 145 80	200
4.5 mm	100 mm	48 mm	8.9 mm	2.8 mm	0190 145 100	100
5 mm	30 mm	20 mm	9.6 mm	3.2 mm	0190 150 30	500
5 mm	35 mm	20 mm	9.6 mm	3.2 mm	0190 150 35	500
5 mm	40 mm	25 mm	9.6 mm	3.2 mm	0190 150 40	500
5 mm	45 mm	30 mm	9.6 mm	3.2 mm	0190 150 45	250
5 mm	50 mm	30 mm	9.6 mm	3.2 mm	0190 150 50	250
5 mm	55 mm	32 mm	9.6 mm	3.2 mm	0190 150 55	250
5 mm	60 mm	37 mm	9.6 mm	3.2 mm	0190 150 60	250
5 mm	70 mm	42 mm	9.6 mm	3.2 mm	0190 150 70	200
5 mm	80 mm	42 mm	9.6 mm	3.2 mm	0190 150 80	100
5 mm	90 mm	47 mm	9.6 mm	3.2 mm	0190 150 90	100
5 mm	100 mm	52 mm	9.6 mm	3.2 mm	0190 150 100	100
5 mm	110 mm	52 mm	9.6 mm	3.2 mm	0190 150 110	100
5 mm	120 mm	62 mm	9.6 mm	3.2 mm	0190 150 120	100
6 mm	40 mm	24 mm	12 mm	4.4 mm	0190 160 40	250
6 mm	50 mm	32 mm	12 mm	4.4 mm	0190 160 50	250
6 mm	60 mm	37 mm	12 mm	4.4 mm	0190 160 60	200/1000
6 mm	70 mm	42 mm	12 mm	4.4 mm	0190 160 70	200
6 mm	80 mm	50 mm	12 mm	4.4 mm	0190 160 80	100
6 mm	90 mm	50 mm	12 mm	4.4 mm	0190 160 90	100
6 mm	100 mm	60 mm	12 mm	4.4 mm	0190 160 100	100
6 mm	110 mm	70 mm	12 mm	4.4 mm	0190 160 110	100
6 mm	120 mm	70 mm	12 mm	4.4 mm	0190 160 120	100
6 mm	130 mm	70 mm	12 mm	4.4 mm	0190 160 130	100
6 mm	140 mm	70 mm	12 mm	4.4 mm	0190 160 140	100
6 mm	150 mm	70 mm	12 mm	4.4 mm	0190 160 150	100
6 mm	160 mm	70 mm	12 mm	4.4 mm	0190 160 160	100
6 mm	180 mm	70 mm	12 mm	4.4 mm	0190 160 180	100
6 mm	200 mm	70 mm	12 mm	4.4 mm	0190 160 200	100
6 mm	220 mm	70 mm	12 mm	4.4 mm	0190 160 220	100
6 mm	240 mm	70 mm	12 mm	4.4 mm	0190 160 240	100
6 mm	260 mm	70 mm	12 mm	4.4 mm	0190 160 260	100
6 mm	280 mm	70 mm	12 mm	4.4 mm	0190 160 280	100

Continuation **ASSY® 4 CSMP universal screw Steel zinc plated** **partial thread countersunk milling pocket head**

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
6 mm	300 mm	70 mm	12 mm	4.4 mm	0190 160 300	100
7 mm	80 mm	50 mm	13.7 mm	4.7 mm	0190 170 80	100
7 mm	90 mm	50 mm	13.7 mm	4.7 mm	0190 170 90	100
7 mm	100 mm	60 mm	13.7 mm	4.7 mm	0190 170 100	100
7 mm	120 mm	70 mm	13.7 mm	4.7 mm	0190 170 120	100
7 mm	140 mm	70 mm	13.7 mm	4.7 mm	0190 170 140	100
7 mm	160 mm	85 mm	13.7 mm	4.7 mm	0190 170 160	100
7 mm	180 mm	85 mm	13.7 mm	4.7 mm	0190 170 180	100
7 mm	200 mm	85 mm	13.7 mm	4.7 mm	0190 170 200	100
7 mm	220 mm	85 mm	13.7 mm	4.7 mm	0190 170 220	100
7 mm	240 mm	85 mm	13.7 mm	4.7 mm	0190 170 240	100
7 mm	260 mm	85 mm	13.7 mm	4.7 mm	0190 170 260	100
7 mm	280 mm	85 mm	13.7 mm	4.7 mm	0190 170 280	100
7 mm	300 mm	85 mm	13.7 mm	4.7 mm	0190 170 300	100
8 mm	80 mm	50 mm	15 mm	4.9 mm	0190 180 80	75
8 mm	100 mm	60 mm	15 mm	4.9 mm	0190 180 100	75
8 mm	120 mm	80 mm	15 mm	4.9 mm	0190 180 120	75
8 mm	140 mm	80 mm	15 mm	4.9 mm	0190 180 140	75
8 mm	160 mm	80 mm	15 mm	4.9 mm	0190 180 160	75
8 mm	180 mm	80 mm	15 mm	4.9 mm	0190 180 180	75
8 mm	200 mm	80 mm	15 mm	4.9 mm	0190 180 200	75
8 mm	220 mm	100 mm	15 mm	4.9 mm	0190 180 220	75
8 mm	240 mm	100 mm	15 mm	4.9 mm	0190 180 240	75
8 mm	260 mm	100 mm	15 mm	4.9 mm	0190 180 260	75
8 mm	280 mm	100 mm	15 mm	4.9 mm	0190 180 280	75
8 mm	300 mm	100 mm	15 mm	4.9 mm	0190 180 300	75
8 mm	320 mm	100 mm	15 mm	4.9 mm	0190 180 320	100
8 mm	340 mm	100 mm	15 mm	4.9 mm	0190 180 340	100
8 mm	360 mm	100 mm	15 mm	4.9 mm	0190 180 360	100
8 mm	380 mm	100 mm	15 mm	4.9 mm	0190 180 380	100
8 mm	400 mm	100 mm	15 mm	4.9 mm	0190 180 400	100
10 mm	80 mm	50 mm	18.5 mm	5.8 mm	0190 110 80	50
10 mm	100 mm	60 mm	18.5 mm	5.8 mm	0190 110 100	50
10 mm	120 mm	80 mm	18.5 mm	5.8 mm	0190 110 120	50
10 mm	140 mm	80 mm	18.5 mm	5.8 mm	0190 110 140	50
10 mm	160 mm	100 mm	18.5 mm	5.8 mm	0190 110 160	50
10 mm	180 mm	100 mm	18.5 mm	5.8 mm	0190 110 180	50
10 mm	200 mm	100 mm	18.5 mm	5.8 mm	0190 110 200	50
10 mm	220 mm	100 mm	18.5 mm	5.8 mm	0190 110 220	50
10 mm	240 mm	100 mm	18.5 mm	5.8 mm	0190 110 240	50
10 mm	260 mm	100 mm	18.5 mm	5.8 mm	0190 110 260	50
10 mm	280 mm	100 mm	18.5 mm	5.8 mm	0190 110 280	50
10 mm	300 mm	100 mm	18.5 mm	5.8 mm	0190 110 300	50
10 mm	320 mm	120 mm	18.5 mm	5.8 mm	0190 110 320	50
10 mm	340 mm	120 mm	18.5 mm	5.8 mm	0190 110 340	50
10 mm	360 mm	120 mm	18.5 mm	5.8 mm	0190 110 360	50
10 mm	380 mm	120 mm	18.5 mm	5.8 mm	0190 110 380	50
10 mm	400 mm	120 mm	18.5 mm	5.8 mm	0190 110 400	50

Please consider the legal instruction at the beginning of this chapter.

ASSY® 4 CSMP HO universal screw with access hole Steel zinc plated partial thread countersunk milling pocket head

Universal partial-thread screw with access hole for fast, gap-free fastening of wood-wood connections in furniture and interior construction in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Clean countersinking in softwood or wood material
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4.5 mm	25 mm	15 mm	8.6 mm	2.6 mm	0162 645 025	500
4.5 mm	30 mm	19 mm	8.6 mm	2.6 mm	0162 645 030	500
4.5 mm	35 mm	21 mm	8.6 mm	2.6 mm	0162 645 035	500
4.5 mm	40 mm	26 mm	8.6 mm	2.6 mm	0162 645 040	500
4.5 mm	45 mm	26 mm	8.6 mm	2.6 mm	0162 645 045	500
4.5 mm	50 mm	28 mm	8.6 mm	2.6 mm	0162 645 050	250
4.5 mm	55 mm	33 mm	8.6 mm	2.6 mm	0162 645 055	250
4.5 mm	60 mm	33 mm	8.6 mm	2.6 mm	0162 645 060	250
4.5 mm	70 mm	38 mm	8.6 mm	2.6 mm	0162 645 070	200
5 mm	50 mm	30 mm	9.3 mm	3.1 mm	0162 650 050	250
5 mm	60 mm	37 mm	9.3 mm	3.1 mm	0162 650 060	250
5 mm	70 mm	42 mm	9.3 mm	3.1 mm	0162 650 070	200
5 mm	80 mm	42 mm	9.3 mm	3.1 mm	0162 650 080	100
5 mm	90 mm	47 mm	9.3 mm	3.1 mm	0162 650 090	100
5 mm	100 mm	52 mm	9.3 mm	3.1 mm	0162 650 100	100
6 mm	60 mm	37 mm	11.7 mm	4.4 mm	0162 660 060	200
6 mm	80 mm	50 mm	11.7 mm	4.4 mm	0162 660 080	100
6 mm	100 mm	60 mm	11.7 mm	4.4 mm	0162 660 100	100
6 mm	120 mm	70 mm	11.7 mm	4.4 mm	0162 660 120	100

Please consider the legal instruction at the beginning of this chapter.

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 CSMP universal screw collated Steel zinc plated partial thread countersunk milling pocket head

Universal collated partial-thread screw for gap-free fastening, without pre-drilling, of wood-wood connections in interior construction, window installation or wood construction in indoor dry or wet areas



- Ideal power transmission thanks to RW drive
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw

Internal drive	RW20
Material	Hardened steel
RoHS-compliant	Yes



Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4 mm	25 mm	18 mm	8 mm	2.5 mm	0163 114 025	1000
4 mm	30 mm	18 mm	8 mm	2.5 mm	0163 114 030	1000
4 mm	35 mm	21 mm	8 mm	2.5 mm	0163 114 035	1000
4 mm	40 mm	24 mm	8 mm	2.5 mm	0163 114 040	1000
4 mm	45 mm	29 mm	8 mm	2.5 mm	0163 114 045	1000
4.5 mm	40 mm	26 mm	8.9 mm	2.8 mm	0163 114 540	1000
4.5 mm	50 mm	28 mm	8.9 mm	2.8 mm	0163 114 550	1000
4.5 mm	60 mm	33 mm	8.9 mm	2.8 mm	0163 114 560	1000
5 mm	60 mm	37 mm	9.6 mm	3.2 mm	0163 115 060	1000
5 mm	70 mm	42 mm	9.6 mm	3.2 mm	0163 115 070	1000
5 mm	80 mm	42 mm	9.6 mm	3.2 mm	0163 115 080	1000

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 CSMP universal screw collated Steel zinc plated full thread countersunk milling pocket head

Universal collated full-thread screw for fast, permanent fixing of wood-wood connections or metal-wood fastening in furniture construction, interior construction or wood construction in indoor dry or wet areas

- Ideal power transmission thanks to RW drive
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw



Nominal diameter (d)	5 mm
Head diameter (d _h)	9.6 mm
Head height (k)	3.2 mm
Internal drive	RW20
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Art. no.	P. Qty.
70 mm	62 mm	0163 105 070	1000
80 mm	72 mm	0163 105 080	1000

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 CSMP universal screw Steel zinc plated full thread countersunk milling pocket head

Universal full-thread screw for fast, permanent fixing of wood-wood connections or metal-wood fastening in furniture construction, interior construction or wood construction in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
5 mm	25 mm	20 mm	9.6 mm	3.2 mm	0190 050 25	500
5 mm	30 mm	25 mm	9.6 mm	3.2 mm	0190 050 30	500
5 mm	35 mm	30 mm	9.6 mm	3.2 mm	0190 050 35	500
5 mm	40 mm	32 mm	9.6 mm	3.2 mm	0190 050 40	500
5 mm	45 mm	37 mm	9.6 mm	3.2 mm	0190 050 45	250
5 mm	50 mm	42 mm	9.6 mm	3.2 mm	0190 050 50	250
5 mm	55 mm	47 mm	9.6 mm	3.2 mm	0190 050 55	250
5 mm	60 mm	52 mm	9.6 mm	3.2 mm	0190 050 60	250
5 mm	70 mm	62 mm	9.6 mm	3.2 mm	0190 050 70	200
5 mm	80 mm	72 mm	9.6 mm	3.2 mm	0190 050 80	100
6 mm	30 mm	24 mm	12 mm	4.4 mm	0190 060 30	250
6 mm	40 mm	32 mm	12 mm	4.4 mm	0190 060 40	250
6 mm	45 mm	37 mm	12 mm	4.4 mm	0190 060 45	250
6 mm	50 mm	42 mm	12 mm	4.4 mm	0190 060 50	250
6 mm	55 mm	45 mm	12 mm	4.4 mm	0190 060 55	250
6 mm	60 mm	50 mm	12 mm	4.4 mm	0190 060 60	200
6 mm	70 mm	60 mm	12 mm	4.4 mm	0190 060 70	200
6 mm	80 mm	70 mm	12 mm	4.4 mm	0190 060 80	100

Please consider the legal instruction at the beginning of this chapter.

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 CSMP ZINi timber screw Steel zinc-nickel partial thread countersunk milling pocket head

Universal partial-thread screw for fast, fastening of wood-wood connections (spruce) with increased risk of corrosion in wood construction. Suitable for dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Significant reduction in the amount of force required when screwing in the screw
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility

Material	Hardened steel
Surface	Zinc nickel
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4.5 mm	40 mm	26 mm	8.9 mm	2.8 mm	0190 945 40	500
4.5 mm	45 mm	26 mm	8.9 mm	2.8 mm	0190 945 45	500
4.5 mm	50 mm	28 mm	8.9 mm	2.8 mm	0190 945 50	250
4.5 mm	60 mm	33 mm	8.9 mm	2.8 mm	0190 945 60	250
4.5 mm	70 mm	38 mm	8.9 mm	2.8 mm	0190 945 70	200
4.5 mm	80 mm	43 mm	8.9 mm	2.8 mm	0190 945 80	200
5 mm	30 mm	20 mm	9.6 mm	3.2 mm	0190 950 30	500
5 mm	35 mm	20 mm	9.6 mm	3.2 mm	0190 950 35	500
5 mm	40 mm	25 mm	9.6 mm	3.2 mm	0190 950 40	500
5 mm	45 mm	30 mm	9.6 mm	3.2 mm	0190 950 45	250
5 mm	50 mm	30 mm	9.6 mm	3.2 mm	0190 950 50	250
5 mm	55 mm	32 mm	9.6 mm	3.2 mm	0190 950 55	250
5 mm	60 mm	37 mm	9.6 mm	3.2 mm	0190 950 60	250
5 mm	70 mm	42 mm	9.6 mm	3.2 mm	0190 950 70	200
5 mm	80 mm	42 mm	9.6 mm	3.2 mm	0190 950 80	100
5 mm	90 mm	47 mm	9.6 mm	3.2 mm	0190 950 90	100
5 mm	100 mm	50 mm	9.6 mm	3.2 mm	0190 950 100	100
5 mm	110 mm	52 mm	9.6 mm	3.2 mm	0190 950 110	100
5 mm	120 mm	62 mm	9.6 mm	3.2 mm	0190 950 120	100
6 mm	40 mm	24 mm	12 mm	4.4 mm	0190 960 40	250
6 mm	50 mm	32 mm	12 mm	4.4 mm	0190 960 50	250
6 mm	60 mm	37 mm	12 mm	4.4 mm	0190 960 60	200
6 mm	70 mm	42 mm	12 mm	4.4 mm	0190 960 70	200
6 mm	80 mm	50 mm	12 mm	4.4 mm	0190 960 80	100
6 mm	90 mm	50 mm	12 mm	4.4 mm	0190 960 90	100
6 mm	100 mm	60 mm	12 mm	4.4 mm	0190 960 100	100
6 mm	110 mm	70 mm	12 mm	4.4 mm	0190 960 110	100
6 mm	120 mm	70 mm	12 mm	4.4 mm	0190 960 120	100
6 mm	130 mm	70 mm	12 mm	4.4 mm	0190 960 130	100
6 mm	140 mm	70 mm	12 mm	4.4 mm	0190 960 140	100
6 mm	150 mm	70 mm	12 mm	4.4 mm	0190 960 150	100
6 mm	160 mm	70 mm	12 mm	4.4 mm	0190 960 160	100
6 mm	180 mm	70 mm	12 mm	4.4 mm	0190 960 180	100
6 mm	200 mm	70 mm	12 mm	4.4 mm	0190 960 200	100

Continuation **ASSY® 4 CSMP ZINi timber screw Steel zinc-nickel** **partial thread countersunk milling pocket head**

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
6 mm	220 mm	70 mm	12 mm	4.4 mm	0190 960 220	100
6 mm	240 mm	70 mm	12 mm	4.4 mm	0190 960 240	100
6 mm	260 mm	70 mm	12 mm	4.4 mm	0190 960 260	100
6 mm	280 mm	70 mm	12 mm	4.4 mm	0190 960 280	100
6 mm	300 mm	70 mm	12 mm	4.4 mm	0190 960 300	100
8 mm	80 mm	50 mm	15 mm	4.9 mm	0190 980 80	75
8 mm	100 mm	60 mm	15 mm	4.9 mm	0190 980 100	75
8 mm	120 mm	80 mm	15 mm	4.9 mm	0190 980 120	75
8 mm	140 mm	80 mm	15 mm	4.9 mm	0190 980 140	75
8 mm	160 mm	80 mm	15 mm	4.9 mm	0190 980 160	75
8 mm	180 mm	80 mm	15 mm	4.9 mm	0190 980 180	75
8 mm	200 mm	80 mm	15 mm	4.9 mm	0190 980 200	75
8 mm	220 mm	100 mm	15 mm	4.9 mm	0190 980 220	75
8 mm	240 mm	100 mm	15 mm	4.9 mm	0190 980 240	75
8 mm	260 mm	100 mm	15 mm	4.9 mm	0190 980 260	75
8 mm	280 mm	100 mm	15 mm	4.9 mm	0190 980 280	75
8 mm	300 mm	100 mm	15 mm	4.9 mm	0190 980 300	75
8 mm	320 mm	100 mm	15 mm	4.9 mm	0190 980 320	100
8 mm	340 mm	100 mm	15 mm	4.9 mm	0190 980 340	100
8 mm	360 mm	100 mm	15 mm	4.9 mm	0190 980 360	100
8 mm	380 mm	100 mm	15 mm	4.9 mm	0190 980 380	100
8 mm	400 mm	100 mm	15 mm	4.9 mm	0190 980 400	100

Please consider the legal instruction at the beginning of this chapter.

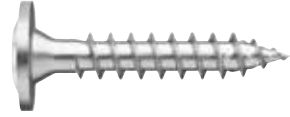
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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 A2 BP slate screw A2 stainless steel plain full thread back panel head

Full-thread screw made of high-quality austenitic A2 stainless steel with large flat washer head for fixing roof slates or thin metal sheets in the food industry in wood in outdoor areas exposed to the elements



- Ideal power transmission thanks to RW drive
- Powerful connection of e.g. thin fibreboards for furniture back panels
- Higher breaking torque
- Gentle thread start ensures optimised positioning and biting of the screw
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3 mm	20 mm	17 mm	7.8 mm	1.5 mm	0181 813 020	1000
3 mm	25 mm	22 mm	7.8 mm	1.5 mm	0181 813 025	1000
3 mm	30 mm	27 mm	7.8 mm	1.5 mm	0181 813 030	1000
3 mm	35 mm	32 mm	7.8 mm	1.5 mm	0181 813 035	1000
4 mm	30 mm	27 mm	9.4 mm	1.8 mm	0181 814 030	500
4 mm	35 mm	32 mm	9.4 mm	1.8 mm	0181 814 035	500
4 mm	40 mm	37 mm	9.4 mm	1.8 mm	0181 814 040	500

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- Austenitic stainless steel is characterised by a high degree of corrosion resistance against aggressive industrial air, sea air, tap water, river water, mine water and salt water, as well as woods containing tannic acid. It is resistant to acid to a certain extent and not suitable for atmospheres containing chlorine gas
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 BP rear panel screw Steel zinc plated full thread back panel head

Full-thread screw with large back panel head for mounting thin back panel plates, e.g. hard fibre into the side of the panel edge of units in a dry inner or sheltered areas



- Ideal power transmission thanks to RW drive
- Powerful connection of e.g. thin fibreboards for furniture back panels
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3 mm	20 mm	17 mm	7.8 mm	1.5 mm	0167 430 20	1000
3 mm	25 mm	22 mm	7.8 mm	1.5 mm	0167 430 25	1000
3 mm	30 mm	27 mm	7.8 mm	1.5 mm	0167 430 30	1000
3 mm	35 mm	32 mm	7.8 mm	1.5 mm	0167 430 35	1000
4 mm	30 mm	27 mm	9.4 mm	1.8 mm	0167 440 30	500
4 mm	35 mm	32 mm	9.4 mm	1.8 mm	0167 440 35	500
4 mm	40 mm	37 mm	9.4 mm	1.8 mm	0167 440 40	500
4 mm	45 mm	42 mm	9.4 mm	1.8 mm	0167 440 45	500

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 combi stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 A2 CS universal screw A2 stainless steel plain partial thread countersunk head

Partial-thread screw made of high-quality austenitic A2 stainless steel with countersunk head for universal wood-wood fastening in outdoor areas exposed to the elements



- Ideal power transmission thanks to RW drive
- Form-fitting connection to metal fittings or in wooden products with high bulk density
- Higher breaking torque
- Gentle thread start ensures optimised positioning and biting of the screw
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3.5 mm	40 mm	25 mm	7 mm	2.3 mm	0187 435 40	500
4 mm	40 mm	24 mm	8 mm	2.5 mm	0187 440 40	500
4 mm	45 mm	29 mm	8 mm	2.5 mm	0187 440 45	500
4 mm	50 mm	34 mm	8 mm	2.5 mm	0187 440 50	500
4 mm	55 mm	39 mm	8 mm	2.5 mm	0187 440 55	250
4 mm	60 mm	39 mm	8 mm	2.5 mm	0187 440 60	250
4 mm	70 mm	39 mm	8 mm	2.5 mm	0187 440 70	200
4.5 mm	50 mm	33 mm	8.9 mm	2.8 mm	0187 445 50	250
4.5 mm	60 mm	38 mm	8.9 mm	2.8 mm	0187 445 60	250
4.5 mm	70 mm	43 mm	8.9 mm	2.8 mm	0187 445 70	200
4.5 mm	80 mm	48 mm	8.9 mm	2.8 mm	0187 445 80	200
5 mm	40 mm	25 mm	9.6 mm	3.2 mm	0187 450 40	500
5 mm	50 mm	32 mm	9.6 mm	3.2 mm	0187 450 50	250
5 mm	60 mm	42 mm	9.6 mm	3.2 mm	0187 450 60	250
5 mm	70 mm	42 mm	9.6 mm	3.2 mm	0187 450 70	200
5 mm	80 mm	52 mm	9.6 mm	3.2 mm	0187 450 80	100
5 mm	90 mm	52 mm	9.6 mm	3.2 mm	0187 450 90	100
5 mm	100 mm	52 mm	9.6 mm	3.2 mm	0187 450 100	100
6 mm	60 mm	37 mm	12 mm	4.4 mm	0187 460 60	200
6 mm	70 mm	42 mm	12 mm	4.4 mm	0187 460 70	200
6 mm	80 mm	50 mm	12 mm	4.4 mm	0187 460 80	100
6 mm	90 mm	50 mm	12 mm	4.4 mm	0187 460 90	100
6 mm	100 mm	60 mm	12 mm	4.4 mm	0187 460 100	100
6 mm	110 mm	70 mm	12 mm	4.4 mm	0187 460 110	100
6 mm	120 mm	70 mm	12 mm	4.4 mm	0187 460 120	100
6 mm	140 mm	70 mm	12 mm	4.4 mm	0187 460 140	100
6 mm	160 mm	70 mm	12 mm	4.4 mm	0187 460 160	100
6 mm	180 mm	70 mm	12 mm	4.4 mm	0187 460 180	100
6 mm	200 mm	70 mm	12 mm	4.4 mm	0187 460 200	100

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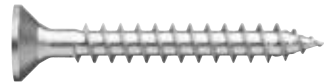
Continuation **ASSY® 4 A2 CS universal screw A2 stainless steel plain partial thread countersunk head**



- Austenitic stainless steel is characterised by a high degree of corrosion resistance against aggressive industrial air, sea air, tap water, river water, mine water and salt water, as well as woods containing tannic acid. It is resistant to acid to a certain extent and not suitable for atmospheres containing chlorine gas
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 A2 CS fittings screw A2 stainless steel plain full thread countersunk head

Full-thread screw made of high-quality austenitic A2 stainless steel with countersunk head for fixing metal profiles or fittings in wood in outdoor areas exposed to the elements or interior applications constantly exposed to corrosion



- Ideal power transmission thanks to RW drive
- Form-fitting connection to metal fittings or in wooden products with high bulk density
- Higher breaking torque
- Gentle thread start ensures optimised positioning and biting of the screw
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3 mm	16 mm	13 mm	5.9 mm	1.9 mm	0187 230 16	500
3 mm	20 mm	17 mm	5.9 mm	1.9 mm	0187 230 20	500
3 mm	25 mm	22 mm	5.9 mm	1.9 mm	0187 230 25	500
3 mm	30 mm	25 mm	5.9 mm	1.9 mm	0187 230 30	500
3 mm	35 mm	30 mm	5.9 mm	1.9 mm	0187 230 35	500
3.5 mm	16 mm	13 mm	7 mm	2.3 mm	0187 235 16	200
3.5 mm	20 mm	17 mm	7 mm	2.3 mm	0187 235 20	200
3.5 mm	25 mm	22 mm	7 mm	2.3 mm	0187 235 25	200
3.5 mm	30 mm	25 mm	7 mm	2.3 mm	0187 235 30	200
3.5 mm	35 mm	30 mm	7 mm	2.3 mm	0187 235 35	200
3.5 mm	40 mm	35 mm	7 mm	2.3 mm	0187 235 40	200
4 mm	16 mm	12 mm	8 mm	2.5 mm	0187 240 16	200
4 mm	20 mm	16 mm	8 mm	2.5 mm	0187 240 20	200

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4 mm	25 mm	21 mm	8 mm	2.5 mm	0187 240 25	500
4 mm	30 mm	24 mm	8 mm	2.5 mm	0187 240 30	200
4 mm	35 mm	29 mm	8 mm	2.5 mm	0187 240 35	200
4 mm	40 mm	34 mm	8 mm	2.5 mm	0187 240 40	200
4 mm	45 mm	39 mm	8 mm	2.5 mm	0187 240 45	500
4 mm	50 mm	44 mm	8 mm	2.5 mm	0187 240 50	500
4 mm	55 mm	49 mm	8 mm	2.5 mm	0187 240 55	250
4.5 mm	20 mm	16 mm	8.9 mm	2.8 mm	0187 245 20	200
4.5 mm	25 mm	21 mm	8.9 mm	2.8 mm	0187 245 25	500
4.5 mm	30 mm	26 mm	8.9 mm	2.8 mm	0187 245 30	200
4.5 mm	35 mm	28 mm	8.9 mm	2.8 mm	0187 245 35	200
4.5 mm	40 mm	33 mm	8.9 mm	2.8 mm	0187 245 40	200
4.5 mm	45 mm	38 mm	8.9 mm	2.8 mm	0187 245 45	100
4.5 mm	50 mm	43 mm	8.9 mm	2.8 mm	0187 245 50	250
4.5 mm	60 mm	50 mm	8.9 mm	2.8 mm	0187 245 60	250
4.5 mm	65 mm	56 mm	8.9 mm	2.8 mm	0187 245 65	100
4.5 mm	70 mm	63 mm	8.9 mm	2.8 mm	0187 245 70	100
4.5 mm	80 mm	73 mm	8.9 mm	2.8 mm	0187 245 80	100
5 mm	30 mm	25 mm	9.6 mm	3.2 mm	0187 250 30	100
5 mm	40 mm	32 mm	9.6 mm	3.2 mm	0187 250 40	500
5 mm	50 mm	42 mm	9.6 mm	3.2 mm	0187 250 50	250
5 mm	60 mm	52 mm	9.6 mm	3.2 mm	0187 250 60	250
5 mm	70 mm	62 mm	9.6 mm	3.2 mm	0187 250 70	200
6 mm	40 mm	32 mm	12 mm	4.4 mm	0187 260 40	100
6 mm	50 mm	42 mm	12 mm	4.4 mm	0187 260 50	100
6 mm	60 mm	50 mm	12 mm	4.4 mm	0187 260 60	200
6 mm	70 mm	60 mm	12 mm	4.4 mm	0187 260 70	100
6 mm	80 mm	70 mm	12 mm	4.4 mm	0187 260 80	100

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- Austenitic stainless steel is characterised by a high degree of corrosion resistance against aggressive industrial air, sea air, tap water, river water, mine water and salt water, as well as woods containing tannic acid. It is resistant to acid to a certain extent and not suitable for atmospheres containing chlorine gas
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 CS MDF fittings screw Steel zinc-plated full thread countersunk head

Special full-thread screw with countersunk head for fastening fittings or cabinet connectors in highly compressed fibreboards, e.g. MDF



- Ideal power transmission thanks to RW drive
- Form-fitting connection to metal fittings or in wooden products with high bulk density
- Maximum reliability of the screw connection due to asymmetrical single thread
- Ideal for friction-free screw fitting in plastic, such as in anchors or in homogeneous highly compressed wooden materials

Nominal diameter (d)	3.4 mm
Head diameter (d _h)	7 mm
Head height (k)	2.3 mm
Internal drive	RW10
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Art. no.	P. Qty.
15 mm	11 mm	0190 013 515	1000
17 mm	13 mm	0190 013 517	1000
20 mm	16 mm	0190 013 520	1000
25 mm	21 mm	0190 013 525	1000
30 mm	26 mm	0190 013 530	1000
35 mm	31 mm	0190 013 535	1000

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws

ASSY® 4 CS RS roller-sorted fittings screw Steel zinc plated full thread countersunk head

Roller-sorted, full-thread screw with countersunk head for serial or machine fastening of fittings or cabinet connectors in wood or wooden plates in indoor dry or wet areas



- Ideal power transmission thanks to RW drive
- Form-fitting connection to metal fittings or in wooden products with high bulk density
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw



Nominal diameter (d)	3.5 mm
Head diameter (d _h)	7 mm
Head height (k)	2.3 mm
Internal drive	RW20
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Art. no.	P. Qty.
30 mm	25 mm	0190 435 030	3000
35 mm	30 mm	0190 435 035	3000

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 CS universal screw collated Steel zinc plated full thread countersunk head

Universal, full-thread screw with countersunk head for serial fixing of particleboard flooring or substructures on the floor or façade in indoor dry or wet areas

- Ideal power transmission thanks to RW drive
- Form-fitting connection to metal fittings or in wooden products with high bulk density
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility



Internal drive	RW20
Material	Hardened steel
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4 mm	45 mm	39 mm	8 mm	2.5 mm	0163 104 045	1000
4.5 mm	50 mm	43 mm	8.9 mm	2.8 mm	0163 104 550	1000
4.5 mm	60 mm	50 mm	8.9 mm	2.8 mm	0163 104 560	1000

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 CS fittings screw Steel zinc plated full thread countersunk head

Full-thread screw with countersunk head for fastening fittings or cabinet connectors in wood or wooden panels in indoor dry or sheltered areas

- Ideal power transmission thanks to RW drive
- Form-fitting connection to metal fittings or in wooden products with high bulk density
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw



Material	Hardened steel
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3 mm	10 mm	7 mm	5.9 mm	1.9 mm	0190 030 10	1000
3 mm	12 mm	9 mm	5.9 mm	1.9 mm	0190 030 12	1000
3 mm	13 mm	10 mm	5.9 mm	1.9 mm	0190 030 13	1000
3 mm	15 mm	12 mm	5.9 mm	1.9 mm	0190 030 15	1000
3 mm	16 mm	13 mm	5.9 mm	1.9 mm	0190 030 16	1000
3 mm	17 mm	14 mm	5.9 mm	1.9 mm	0190 030 17	1000
3 mm	20 mm	17 mm	5.9 mm	1.9 mm	0190 030 20	1000
3 mm	25 mm	22 mm	5.9 mm	1.9 mm	0190 030 25	1000
3 mm	30 mm	25 mm	5.9 mm	1.9 mm	0190 030 30	1000
3 mm	35 mm	30 mm	5.9 mm	1.9 mm	0190 030 35	1000
3 mm	40 mm	35 mm	5.9 mm	1.9 mm	0190 030 40	500
3 mm	45 mm	35 mm	5.9 mm	1.9 mm	0190 030 45	500
3.5 mm	12 mm	8 mm	7 mm	2.3 mm	0190 035 12	1000
3.5 mm	13 mm	9 mm	7 mm	2.3 mm	0190 035 13	1000
3.5 mm	15 mm	11 mm	7 mm	2.3 mm	0190 035 15	1000
3.5 mm	16 mm	12 mm	7 mm	2.3 mm	0190 035 16	1000
3.5 mm	17 mm	13 mm	7 mm	2.3 mm	0190 035 17	1000
3.5 mm	20 mm	16 mm	7 mm	2.3 mm	0190 035 20	1000
3.5 mm	25 mm	21 mm	7 mm	2.3 mm	0190 035 25	1000
3.5 mm	30 mm	25 mm	7 mm	2.3 mm	0190 035 30	1000
3.5 mm	35 mm	30 mm	7 mm	2.3 mm	0190 035 35	1000
3.5 mm	40 mm	35 mm	7 mm	2.3 mm	0190 035 40	500
3.5 mm	45 mm	40 mm	7 mm	2.3 mm	0190 035 45	500
3.5 mm	50 mm	45 mm	7 mm	2.3 mm	0190 035 50	500
4 mm	12 mm	8 mm	8 mm	2.5 mm	0190 040 12	1000
4 mm	13 mm	9 mm	8 mm	2.5 mm	0190 040 13	1000
4 mm	15 mm	11 mm	8 mm	2.5 mm	0190 040 15	1000
4 mm	16 mm	12 mm	8 mm	2.5 mm	0190 040 16	1000
4 mm	17 mm	13 mm	8 mm	2.5 mm	0190 040 17	1000
4 mm	20 mm	16 mm	8 mm	2.5 mm	0190 040 20	1000
4 mm	25 mm	21 mm	8 mm	2.5 mm	0190 040 25	1000
4 mm	30 mm	24 mm	8 mm	2.5 mm	0190 040 30	500
4 mm	35 mm	29 mm	8 mm	2.5 mm	0190 040 35	500
4 mm	40 mm	34 mm	8 mm	2.5 mm	0190 040 40	500
4 mm	45 mm	39 mm	8 mm	2.5 mm	0190 040 45	500
4 mm	50 mm	44 mm	8 mm	2.5 mm	0190 040 50	500
4 mm	55 mm	49 mm	8 mm	2.5 mm	0190 040 55	250
4.5 mm	15 mm	11 mm	8.9 mm	2.8 mm	0190 045 15	500
4.5 mm	17 mm	13 mm	8.9 mm	2.8 mm	0190 045 17	500
4.5 mm	20 mm	16 mm	8.9 mm	2.8 mm	0190 045 20	500
4.5 mm	25 mm	21 mm	8.9 mm	2.8 mm	0190 045 25	500
4.5 mm	30 mm	26 mm	8.9 mm	2.8 mm	0190 045 30	500
4.5 mm	35 mm	28 mm	8.9 mm	2.8 mm	0190 045 35	500
4.5 mm	40 mm	33 mm	8.9 mm	2.8 mm	0190 045 40	500
4.5 mm	45 mm	38 mm	8.9 mm	2.8 mm	0190 045 45	500
4.5 mm	50 mm	43 mm	8.9 mm	2.8 mm	0190 045 50	250
4.5 mm	55 mm	48 mm	8.9 mm	2.8 mm	0190 045 55	250
4.5 mm	60 mm	50 mm	8.9 mm	2.8 mm	0190 045 60	250
5 mm	16 mm	11 mm	9.6 mm	3.2 mm	0190 050 16	500
5 mm	20 mm	15 mm	9.6 mm	3.2 mm	0190 050 20	500
6 mm	30 mm	24 mm	12 mm	4.4 mm	0190 060 31	250
6 mm	40 mm	32 mm	12 mm	4.4 mm	0190 060 41	250

Continuation **ASSY® 4 CS fittings screw Steel zinc plated full thread countersunk head**

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
6 mm	45 mm	37 mm	12 mm	4.4 mm	0190 060 46	250
6 mm	50 mm	42 mm	12 mm	4.4 mm	0190 060 51	250
6 mm	55 mm	45 mm	12 mm	4.4 mm	0190 060 56	250
6 mm	60 mm	50 mm	12 mm	4.4 mm	0190 060 61	200
6 mm	70 mm	60 mm	12 mm	4.4 mm	0190 060 71	200
6 mm	80 mm	70 mm	12 mm	4.4 mm	0190 060 81	100

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 A2 CSMP timber screw A2 stainless steel plain partial thread countersunk milling pocket head

Universal partially thread screw made of high-quality austenitic A2 stainless steel for wood-wood connections (spruce) in outdoor areas exposed to the elements



- Ideal power transmission thanks to RW drive
- Higher breaking torque
- Gentle thread start ensures optimised positioning and biting of the screw
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Nominal diameter (d)	8 mm
Head diameter (d _h)	15 mm
Head height (k)	4.9 mm
Internal drive	RW40
Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Art. no.	P. Qty.
80 mm	50 mm	0187 480 80	75
100 mm	60 mm	0187 480 100	75
120 mm	80 mm	0187 480 120	75
140 mm	80 mm	0187 480 140	75
160 mm	80 mm	0187 480 160	75
180 mm	80 mm	0187 480 180	75
200 mm	80 mm	0187 480 200	75
220 mm	100 mm	0187 480 220	75
240 mm	100 mm	0187 480 240	75
260 mm	100 mm	0187 480 260	75
280 mm	100 mm	0187 480 280	75
300 mm	100 mm	0187 480 300	75

Please consider the legal instruction at the beginning of this chapter.

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- Austenitic stainless steel is characterised by a high degree of corrosion resistance against aggressive industrial air, sea air, tap water, river water, mine water and salt water, as well as woods containing tannic acid. It is resistant to acid to a certain extent and not suitable for atmospheres containing chlorine gas
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 CSMR sports floor screw Steel zinc plated full thread countersunk milling head

Special collated full-thread screw with countersunk head with milling pockets for series fastening of particleboard flooring in indoor dry or wet areas



- Ideal power transmission thanks to RW drive
- Easy countersinking in hardwood/softwood with high knot content as well as hard wood fibreboards
- No over-tightening or stripping with high feed performance
- Ideal for friction-free screw fitting in plastic, such as in dowels or in homogeneous highly compressed wooden materials



Nominal diameter (d)	4 mm
Length (l)	30 mm
Thread length (lg)	24 mm
Head diameter (d _h)	8 mm
Head height (k)	3.2 mm
Internal drive	RW20

Art. no. 0163 640 30

P. Qty.: 1000

Please consider the legal instruction at the beginning of this chapter.

Continuation **ASSY® 4 CSMR sports floor screw Steel zinc plated full thread countersunk milling head**

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 FBS CUT RCS window construction screw Steel zinc plated full thread raised countersunk head

Special full-thread screw with raised countersunk head and restraining ribs for gentle attachment of window fittings in hardwoods in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Visually appealing connections in window construction
- No over-tightening or stripping with high feed performance
- Easy recessing and quick biting of the screw in hardwoods

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes
Head diameter (d _h)	7.2 mm
Internal drive	RW20

Nominal diameter (d)	Length (l)	Head height (k)	Thread length (lg)	Art. no.	P. Qty.
3.5 mm	30 mm	2.8 mm	22 mm	0190 513 530	1000
4 mm	20 mm	2.5 mm	16 mm	0190 514 020	1000
4 mm	30 mm	2.5 mm	22 mm	0190 514 030	500
4 mm	35 mm	2.5 mm	27 mm	0190 514 035	500
4 mm	40 mm	2.5 mm	32 mm	0190 514 040	500
4 mm	45 mm	2.5 mm	37 mm	0190 514 045	500

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm

- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 FBS RCS RS roller-sorted window construction screw

Steel zinc plated full thread raised countersunk head

Roller-sorted full-thread screw with raised countersunk head and restraining ribs for gentle attachment of window fittings in wood in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Visually appealing connections in window construction
- Less tendency of the wood to split and very few blow-outs



Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d)	4 mm
Head diameter (d _h)	7.2 mm
Head height (k)	2.5 mm
Internal drive	RW20

Length (l)	Thread length (lg)	Art. no.	P. Qty.
25 mm	19 mm	0190 504 025	4000
30 mm	22 mm	0190 504 030	2500
35 mm	27 mm	0190 504 035	2000

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere is chlorine-containing, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 FBS RCS window construction screw Steel zinc plated full thread raised countersunk head

Special full-thread screw with raised countersunk head and restraining ribs for gentle attachment of window fittings in wood in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Visually appealing connections in window construction
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d)	4 mm
Head diameter (d _h)	7.2 mm
Head height (k)	2.5 mm
Internal drive	RW20

Length (l)	Thread length (lg)	Art. no.	P. Qty.
40 mm	32 mm	0190 504 040	500
45 mm	37 mm	0190 504 045	500

Please consider the legal instruction at the beginning of this chapter.

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 HCR 1.4529 CS swimming pool screw Stainless steel highly corrosion resistant 1.4529 plain partial thread countersunk head

High-quality partial-thread screw made of high-quality austenitic HCR stainless steel 1.4529 with countersunk head for wood-wood fastening in areas constantly exposed to corrosion, swimming pool area (corrosion resistance class V)



- Ideal power transmission thanks to RW drive
- Form-fitting connection to metal fittings or in wooden products with high bulk density
- Higher breaking torque
- Gentle thread start ensures optimised positioning and biting of the screw
- Suitable for extremely chlorine-laden areas, with simultaneous SO₂-, exposure to chlorine gas and high temperatures

Material	High corrosion-resistant steel, 1.4529 X1NiCrMoCuN25-20-7
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4 mm	40 mm	24 mm	8 mm	2.5 mm	0187 904 040	200
4 mm	50 mm	34 mm	8 mm	2.5 mm	0187 904 050	250
4 mm	60 mm	39 mm	8 mm	2.5 mm	0187 904 060	250
5 mm	60 mm	37 mm	9.6 mm	3.2 mm	0187 905 060	250
5 mm	70 mm	42 mm	9.6 mm	3.2 mm	0187 905 070	200
5 mm	80 mm	50 mm	9.6 mm	3.2 mm	0187 905 080	100
6 mm	100 mm	60 mm	12 mm	4.4 mm	0187 906 100	100
6 mm	140 mm	70 mm	12 mm	4.4 mm	0187 906 140	100

Please consider the legal instruction at the beginning of this chapter.

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- ASSY screws are approved for quasi-static loads
- For optimum use of the screw, the right-size RW bit must be used
- Partial-thread screws are ideal for connecting wooden components. To achieve optimum assembly of the components, the components to be fixed must not be thicker than the length of the shank
- To avoid contact corrosion that can occur between two different metals in direct contact. The noble metal promotes, in conjunction with e.g. water or normal humidity, corrosion of the base metal. It is generally recommended that the product with the smaller surface area, e.g. the screw, be made of the noble metal. A shielding non-conductive layer between the metals is also recommended

ASSY® 4 HCR 1.4539 CS stainless steel screw Stainless steel highly corrosion resistant 1.4539 plain partial thread countersunk head

High-quality partial-thread screw made of high-quality austenitic HCR stainless steel 1.4539 with countersunk head for wood-wood fastening in areas severely exposed to corrosion (corrosion resistance class IV)



- Ideal power transmission thanks to RW drive
- Form-fitting connection to metal fittings or in wooden products with high bulk density
- Higher breaking torque
- Gentle thread start ensures optimised positioning and biting of the screw
- Suitable for high chloride or SO₂-contaminated areas with simultaneous exposure to splash water or fog

Material	Stainless steel, 1.4539 X1NiCrMoCu25-20-5
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4 mm	40 mm	24 mm	8 mm	2.5 mm	0187 940 40	200
4 mm	50 mm	34 mm	8 mm	2.5 mm	0187 940 50	250
4 mm	60 mm	39 mm	8 mm	2.5 mm	0187 940 60	250
5 mm	60 mm	37 mm	9.6 mm	3.2 mm	0187 950 60	250
5 mm	70 mm	42 mm	9.6 mm	3.2 mm	0187 950 70	200
5 mm	80 mm	50 mm	9.6 mm	3.2 mm	0187 950 80	100
6 mm	100 mm	60 mm	12 mm	4.4 mm	0187 960 100	100
6 mm	140 mm	70 mm	12 mm	4.4 mm	0187 960 140	100

Please consider the legal instruction at the beginning of this chapter.

ETA-11/0190 approved



- ASSY screws are approved for quasi-static loads
- For optimum use of the screw, the right-size RW bit must be used
- Partial-thread screws are ideal for connecting wooden components. To achieve optimum assembly of the components, the components to be fixed must not be thicker than the length of the shank
- To avoid contact corrosion that can occur between two different metals in direct contact. The noble metal promotes, in conjunction with e.g. water or normal humidity, corrosion of the base metal. It is generally recommended that the product with the smaller surface area, e.g. the screw, be made of the noble metal. A shielding non-conductive layer between the metals is also recommended

ASSY® 4 Isotop roofing screw Steel zinc plated double thread cylinder head

Special double threaded screw ideal for fixing roof insulation and façade mountings with soft or pressure-resistant insulation materials in indoor dry or sheltered areas



ASSY Isotop



- Ideal power transmission thanks to RW drive
- Unobtrusive mounting of wooden components
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- Ideal for flexible loads such as insulation on rafters

Nominal diameter (d)	8 mm
Thread length (lg)	60 mm
Head diameter (d _h)	11 mm
Head height (k)	9 mm
Internal drive	RW40

Length (l)	Art. no.	P. Qty.
210 mm	0164 518 210	100
230 mm	0164 518 230	100
250 mm	0164 518 250	100
270 mm	0164 518 270	100
300 mm	0164 518 300	100
330 mm	0164 518 330	100
360 mm	0164 518 360	100
400 mm	0164 518 400	100
440 mm	0164 518 440	50
480 mm	0164 518 480	50

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use for screw applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 JH joist hanger screw Steel zinc plated full thread pan head

Full-thread screw with visually appealing pan head with shank reinforcement mounted on the underside for fastening sheet metal parts and metal connectors in wood in indoor dry or sheltered areas without play



ASSY
RW

- Ideal power transmission thanks to RW drive
- Flat mounting of load-bearing sheet metal parts or steel-wood connections
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility

Nominal diameter (d)	5 mm
Head diameter (d _h)	8 mm
Head height (k)	2.6 mm
Internal drive	RW20
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Art. no.	P. Qty.
25 mm	20 mm	0153 350 025	250
35 mm	30 mm	0153 350 035	250
40 mm	35 mm	0153 350 040	250
50 mm	42 mm	0153 350 050	250
60 mm	52 mm	0153 350 060	250
70 mm	62 mm	0153 350 070	250

Please consider the legal instruction at the beginning of this chapter.

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 PH stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 COMBI T transportation anchor screw Steel zinc plated partial thread hexagon head

Special transport anchor screw with shank-reinforced screw head for safe, clearance-reduced attachment in the matched ball head anchor for transporting wooden elements made of coniferous timber, laminated timber, timber veneer or board plywood

- Ideal power transmission thanks to RW drive
- Flexible assembly with high power transmission and precise fit in metal connections
- No over-tightening or stripping and high feed
- Smooth thread start ensures optimised recessing and biting of the screw
- High strength values and ductility



External drive	WS17
Internal drive	RW40

Nominal diameter (d)	Length (l)	Thread length (lg)	Head height (k)	Art. no.	P. Qty.
10 mm	90 mm	60 mm	5 mm	0158 710 91	50
10 mm	180 mm	145 mm	5 mm	0158 710 181	50
12 mm	120 mm	100 mm	5.5 mm	0158 712 121	50
12 mm	160 mm	145 mm	5.5 mm	0158 712 161	50
12 mm	180 mm	145 mm	5.5 mm	0158 712 181	50

Please consider the legal instruction at the beginning of this chapter.

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Please observe the available expert reports, application instructions and load tables during planning and application. These are available at www.wuerth.de/assy.

ASSY® 4 COMBI timber screw Steel zinc plated partial thread hexagon head

Powerful partial-thread screw with shank reinforcement for wood-wood fastening with washer or precise 90° metal-wood fastening in wood construction in indoor dry or sheltered areas

- Ideal power transmission thanks to RW drive
- Precise fit in metal and very high power transmission combined with two drive types
- Significant reduction in the amount of force required when screwing in the screw
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility



Continuation **ASSY® 4 COMBI** timber screw **Steel zinc plated partial thread hexagon head**

Nominal diameter (d)	Length (l)	Thread length (lg)	External drive	Head height (k)	Art. no.	P. Qty.
6 mm	40 mm	24 mm	WS9	3 mm	0158 760 40	200
6 mm	50 mm	32 mm	WS9	3 mm	0158 760 50	200
6 mm	60 mm	37 mm	WS9	3 mm	0158 760 60	100
6 mm	70 mm	42 mm	WS9	3 mm	0158 760 70	100
6 mm	80 mm	50 mm	WS9	3 mm	0158 760 80	100
8 mm	40 mm	32 mm	WS12	4.5 mm	0158 780 40	100
8 mm	50 mm	32 mm	WS12	4.5 mm	0158 780 50	100
8 mm	60 mm	40 mm	WS12	4.5 mm	0158 780 60	100
8 mm	70 mm	50 mm	WS12	4.5 mm	0158 780 70	100
8 mm	80 mm	50 mm	WS12	4.5 mm	0158 780 80	75
8 mm	100 mm	60 mm	WS12	4.5 mm	0158 780 100	75
8 mm	120 mm	80 mm	WS12	4.5 mm	0158 780 120	75
8 mm	140 mm	80 mm	WS12	4.5 mm	0158 780 140	75
8 mm	160 mm	80 mm	WS12	4.5 mm	0158 780 160	75
8 mm	180 mm	80 mm	WS12	4.5 mm	0158 780 180	75
8 mm	200 mm	80 mm	WS12	4.5 mm	0158 780 200	75
8 mm	220 mm	100 mm	WS12	4.5 mm	0158 780 220	75
8 mm	240 mm	100 mm	WS12	4.5 mm	0158 780 240	75
8 mm	260 mm	100 mm	WS12	4.5 mm	0158 780 260	75
8 mm	280 mm	100 mm	WS12	4.5 mm	0158 780 280	75
8 mm	300 mm	100 mm	WS12	4.5 mm	0158 780 300	75
10 mm	60 mm	40 mm	WS15	5 mm	0158 710 60	50
10 mm	70 mm	50 mm	WS15	5 mm	0158 710 70	50
10 mm	80 mm	50 mm	WS15	5 mm	0158 710 80	50
10 mm	100 mm	60 mm	WS15	5 mm	0158 710 100	50
10 mm	120 mm	80 mm	WS15	5 mm	0158 710 120	50
10 mm	140 mm	80 mm	WS15	5 mm	0158 710 140	50
10 mm	160 mm	100 mm	WS15	5 mm	0158 710 160	50
10 mm	180 mm	100 mm	WS15	5 mm	0158 710 180	50
10 mm	200 mm	100 mm	WS15	5 mm	0158 710 200	50
10 mm	220 mm	100 mm	WS15	5 mm	0158 710 220	50
10 mm	240 mm	100 mm	WS15	5 mm	0158 710 240	50
10 mm	260 mm	100 mm	WS15	5 mm	0158 710 260	50
10 mm	280 mm	100 mm	WS15	5 mm	0158 710 280	50
10 mm	300 mm	100 mm	WS15	5 mm	0158 710 300	50
10 mm	320 mm	120 mm	WS15	5 mm	0158 710 320	50
10 mm	340 mm	120 mm	WS15	5 mm	0158 710 340	50
10 mm	360 mm	120 mm	WS15	5 mm	0158 710 360	50
10 mm	380 mm	120 mm	WS15	5 mm	0158 710 380	50
10 mm	400 mm	120 mm	WS15	5 mm	0158 710 400	50
12 mm	80 mm	50 mm	WS17	5.5 mm	0158 712 80	50
12 mm	100 mm	60 mm	WS17	5.5 mm	0158 712 100	50
12 mm	120 mm	80 mm	WS17	5.5 mm	0158 712 120	50
12 mm	140 mm	80 mm	WS17	5.5 mm	0158 712 140	50
12 mm	160 mm	100 mm	WS17	5.5 mm	0158 712 160	50
12 mm	180 mm	100 mm	WS17	5.5 mm	0158 712 180	50
12 mm	200 mm	100 mm	WS17	5.5 mm	0158 712 200	50
12 mm	220 mm	120 mm	WS17	5.5 mm	0158 712 220	50
12 mm	240 mm	120 mm	WS17	5.5 mm	0158 712 240	50
12 mm	260 mm	120 mm	WS17	5.5 mm	0158 712 260	50
12 mm	280 mm	120 mm	WS17	5.5 mm	0158 712 280	50

Nominal diameter (d)	Length (l)	Thread length (lg)	External drive	Head height (k)	Art. no.	P. Qty.
12 mm	300 mm	120 mm	WS17	5.5 mm	0158 712 300	50
12 mm	320 mm	120 mm	WS17	5.5 mm	0158 712 320	50
12 mm	340 mm	120 mm	WS17	5.5 mm	0158 712 340	50
12 mm	360 mm	120 mm	WS17	5.5 mm	0158 712 360	50
12 mm	380 mm	145 mm	WS17	5.5 mm	0158 712 380	50
12 mm	400 mm	145 mm	WS17	5.5 mm	0158 712 400	25
12 mm	440 mm	145 mm	WS17	5.5 mm	0158 712 440	25
12 mm	480 mm	145 mm	WS17	5.5 mm	0158 712 480	25

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 combi stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 P CSMP universal screw Steel zinc plated partial thread with underhead thread milling pockets head

Universal partial-thread screw with underhead thread with high tightening effect for fast, gap-free fastening of wood-wood connections in furniture construction, interior construction or wood construction in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw

Internal drive	RW20
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3.5 mm	30 mm	15 mm	7 mm	2.3 mm	0190 403 530	1000
3.5 mm	35 mm	15 mm	7 mm	2.3 mm	0190 403 535	1000
3.5 mm	40 mm	23 mm	7 mm	2.3 mm	0190 403 540	500
3.5 mm	45 mm	23 mm	7 mm	2.3 mm	0190 403 545	500
3.5 mm	50 mm	23 mm	7 mm	2.3 mm	0190 403 550	500
3.5 mm	60 mm	30 mm	7 mm	2.3 mm	0190 403 560	500
4 mm	30 mm	15 mm	8 mm	2.5 mm	0190 404 30	500

Continuation **ASSY® 4 P CSMP universal screw Steel zinc plated partial thread with underhead thread milling pockets head**

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4 mm	35 mm	15 mm	8 mm	2.5 mm	0190 404 35	500
4 mm	40 mm	23 mm	8 mm	2.5 mm	0190 404 40	500
4 mm	45 mm	23 mm	8 mm	2.5 mm	0190 404 45	500
4 mm	50 mm	23 mm	8 mm	2.5 mm	0190 404 50	500
4 mm	60 mm	30 mm	8 mm	2.5 mm	0190 404 60	250
4 mm	70 mm	30 mm	8 mm	2.5 mm	0190 404 70	200
4.5 mm	50 mm	21 mm	8.9 mm	2.8 mm	0190 404 550	250
4.5 mm	60 mm	28 mm	8.9 mm	2.8 mm	0190 404 560	250
4.5 mm	70 mm	28 mm	8.9 mm	2.8 mm	0190 404 570	200

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 A2 PH fittings screw A2 stainless steel plain partial thread pan head

Partial-thread screw made of high-quality austenitic A2 stainless steel with visually appealing pan head for fastening metal hollow profiles in wood in outdoor areas exposed to the elements



ASSY
RW

- Ideal power transmission thanks to RW drive
- Flat fastening metal sheets for secondary purposes
- Higher breaking torque
- Gentle thread start ensures optimised positioning and biting of the screw
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Internal drive	RW20
Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3.5 mm	40 mm	25 mm	7 mm	2.4 mm	0187 835 40	500
4 mm	40 mm	24 mm	7.9 mm	2.8 mm	0187 840 40	500
4 mm	45 mm	29 mm	7.9 mm	2.8 mm	0187 840 45	500
4 mm	50 mm	34 mm	7.9 mm	2.8 mm	0187 840 50	500
4 mm	60 mm	39 mm	7.9 mm	2.8 mm	0187 840 60	250
4 mm	70 mm	42 mm	7.9 mm	2.8 mm	0187 840 70	200
4.5 mm	40 mm	25 mm	9 mm	3 mm	0187 845 40	200
4.5 mm	50 mm	33 mm	9 mm	3 mm	0187 845 50	250
4.5 mm	60 mm	38 mm	9 mm	3 mm	0187 845 60	250
4.5 mm	70 mm	43 mm	9 mm	3 mm	0187 845 70	100
4.5 mm	80 mm	48 mm	9 mm	3 mm	0187 845 80	100
5 mm	40 mm	25 mm	10 mm	3.6 mm	0187 850 40	500
5 mm	50 mm	32 mm	10 mm	3.6 mm	0187 850 50	250
5 mm	60 mm	42 mm	10 mm	3.6 mm	0187 850 60	250
5 mm	70 mm	42 mm	10 mm	3.6 mm	0187 850 70	200
5 mm	80 mm	52 mm	10 mm	3.6 mm	0187 850 80	100

Please consider the legal instruction at the beginning of this chapter.

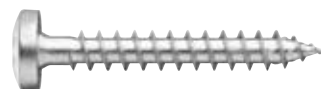
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- Austenitic stainless steel is characterised by a high degree of corrosion resistance against aggressive industrial air, sea air, tap water, river water, mine water and salt water, as well as woods containing tannic acid. It is resistant to acid to a certain extent and not suitable for atmospheres containing chlorine gas
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 A2 PH fittings screw A2 stainless steel plain full thread pan head

Full-thread screw made of high-quality austenitic A2 stainless steel with visually appealing pan head for fixing thin metal sheets or metal profiles in wood in outdoor areas exposed to the elements



- Ideal power transmission thanks to RW drive
- Flat fastening metal sheets for secondary purposes
- Higher breaking torque
- Gentle thread start ensures optimised positioning and biting of the screw
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Continuation **ASSY® 4 A2 PH fittings screw A2 stainless steel plain full thread pan head**

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4 mm	20 mm	18 mm	7.9 mm	2.8 mm	0187 740 20	500
4 mm	25 mm	22 mm	7.9 mm	2.8 mm	0187 740 25	500
4 mm	30 mm	27 mm	7.9 mm	2.8 mm	0187 740 30	200
4 mm	35 mm	32 mm	7.9 mm	2.8 mm	0187 740 35	200
4 mm	40 mm	37 mm	7.9 mm	2.8 mm	0187 740 40	200
4 mm	50 mm	47 mm	7.9 mm	2.8 mm	0187 740 50	500
4.5 mm	30 mm	27 mm	9 mm	3 mm	0187 745 30	200
4.5 mm	35 mm	32 mm	9 mm	3 mm	0187 745 35	200
4.5 mm	40 mm	37 mm	9 mm	3 mm	0187 745 40	200
4.5 mm	45 mm	42 mm	9 mm	3 mm	0187 745 45	100
4.5 mm	50 mm	47 mm	9 mm	3 mm	0187 745 50	250
6 mm	40 mm	37 mm	12 mm	4 mm	0187 760 40	200
6 mm	60 mm	54 mm	12 mm	4 mm	0187 760 60	200
6 mm	80 mm	70 mm	12 mm	4 mm	0187 760 80	100
6 mm	100 mm	70 mm	12 mm	4 mm	0187 760 100	100

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- Austenitic stainless steel is characterised by a high degree of corrosion resistance against aggressive industrial air, sea air, tap water, river water, mine water and salt water, as well as woods containing tannic acid. It is resistant to acid to a certain extent and not suitable for atmospheres containing chlorine gas
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 PH fittings screw Steel zinc plated partial thread pan head

Partial-thread screw with visually appealing pan head for universal fastening of metal or plastic hollow profiles



- Ideal power transmission thanks to RW drive
- Flat fastening metal sheets for secondary purposes
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw



Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
5 mm	80 mm	42 mm	10 mm	3.6 mm	0153 850 080	100
5 mm	90 mm	46 mm	10 mm	3.6 mm	0153 850 090	100
5 mm	100 mm	52 mm	10 mm	3.6 mm	0153 850 100	100
6 mm	90 mm	50 mm	12 mm	4 mm	0153 860 090	100
6 mm	100 mm	60 mm	12 mm	4 mm	0153 860 100	100

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 PH stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 PH fittings screw Steel zinc plated full thread pan head

Full-thread screw with visually appealing pan head for universal fixing of metal fittings or plastic supports in wood in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Flat fastening metal sheets for secondary purposes
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw



Material	Hardened steel
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3 mm	10 mm	5.5 mm	5.8 mm	2.2 mm	0153 730 010	1000
3 mm	12 mm	10.5 mm	5.8 mm	2.2 mm	0153 730 012	1000
3 mm	13 mm	11.5 mm	5.8 mm	2.2 mm	0153 730 013	1000
3 mm	15 mm	13 mm	5.8 mm	2.2 mm	0153 730 015	1000
3 mm	16 mm	14 mm	5.8 mm	2.2 mm	0153 730 016	1000
3 mm	17 mm	15 mm	5.8 mm	2.2 mm	0153 730 017	1000
3 mm	20 mm	17.5 mm	5.8 mm	2.2 mm	0153 730 020	1000
3 mm	25 mm	22.5 mm	5.8 mm	2.2 mm	0153 730 025	1000
3 mm	30 mm	27.5 mm	5.8 mm	2.2 mm	0153 730 030	1000
3 mm	35 mm	32 mm	5.8 mm	2.2 mm	0153 730 035	1000
3.5 mm	12 mm	10.5 mm	7 mm	2.4 mm	0153 735 012	1000
3.5 mm	13 mm	11.5 mm	7 mm	2.4 mm	0153 735 013	1000
3.5 mm	15 mm	13 mm	7 mm	2.4 mm	0153 735 015	1000
3.5 mm	16 mm	14 mm	7 mm	2.4 mm	0153 735 016	1000
3.5 mm	17 mm	15 mm	7 mm	2.4 mm	0153 735 017	1000

Continuation **ASSY® 4 PH fittings screw Steel zinc plated full thread pan head**

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3.5 mm	20 mm	18 mm	7 mm	2.4 mm	0153 735 020	1000
3.5 mm	25 mm	22 mm	7 mm	2.4 mm	0153 735 025	1000
3.5 mm	30 mm	27 mm	7 mm	2.4 mm	0153 735 030	1000
3.5 mm	35 mm	32 mm	7 mm	2.4 mm	0153 735 035	1000
3.5 mm	40 mm	37 mm	7 mm	2.4 mm	0153 735 040	500
4 mm	12 mm	10.5 mm	7.9 mm	2.8 mm	0153 740 012	1000
4 mm	13 mm	11.5 mm	7.9 mm	2.8 mm	0153 740 013	1000
4 mm	15 mm	13 mm	7.9 mm	2.8 mm	0153 740 015	1000
4 mm	16 mm	14 mm	7.9 mm	2.8 mm	0153 740 016	1000
4 mm	17 mm	15 mm	7.9 mm	2.8 mm	0153 740 017	1000
4 mm	20 mm	18 mm	7.9 mm	2.8 mm	0153 740 020	1000
4 mm	25 mm	22 mm	7.9 mm	2.8 mm	0153 740 025	1000
4 mm	30 mm	27 mm	7.9 mm	2.8 mm	0153 740 030	500
4 mm	35 mm	32 mm	7.9 mm	2.8 mm	0153 740 035	500
4 mm	40 mm	37 mm	7.9 mm	2.8 mm	0153 740 040	500
4 mm	45 mm	42 mm	7.9 mm	2.8 mm	0153 740 045	500
4 mm	50 mm	47 mm	7.9 mm	2.8 mm	0153 740 050	500
4 mm	55 mm	52 mm	7.9 mm	2.8 mm	0153 740 055	250
4 mm	60 mm	52 mm	7.9 mm	2.8 mm	0153 740 060	250
4.5 mm	13 mm	11.5 mm	9 mm	3 mm	0153 745 013	500
4.5 mm	15 mm	13 mm	9 mm	3 mm	0153 745 015	500
4.5 mm	20 mm	18 mm	9 mm	3 mm	0153 745 020	500
4.5 mm	25 mm	22 mm	9 mm	3 mm	0153 745 025	500
4.5 mm	30 mm	27 mm	9 mm	3 mm	0153 745 030	500
4.5 mm	35 mm	32 mm	9 mm	3 mm	0153 745 035	500
4.5 mm	40 mm	37 mm	9 mm	3 mm	0153 745 040	500
4.5 mm	45 mm	42 mm	9 mm	3 mm	0153 745 045	500
4.5 mm	50 mm	46 mm	9 mm	3 mm	0153 745 050	250
4.5 mm	60 mm	56 mm	9 mm	3 mm	0153 745 060	250
4.5 mm	70 mm	66 mm	10 mm	3.6 mm	0153 745 070	200
5 mm	16 mm	14 mm	10 mm	3.6 mm	0153 750 016	500
5 mm	17 mm	15 mm	10 mm	3.6 mm	0153 750 017	500
5 mm	20 mm	18 mm	10 mm	3.6 mm	0153 750 020	500
5 mm	25 mm	22 mm	10 mm	3.6 mm	0153 750 025	500
5 mm	30 mm	27 mm	10 mm	3.6 mm	0153 750 030	500
5 mm	35 mm	32 mm	10 mm	3.6 mm	0153 750 035	500
5 mm	40 mm	37 mm	10 mm	3.6 mm	0153 750 040	500
5 mm	45 mm	42 mm	10 mm	3.6 mm	0153 750 045	250
5 mm	50 mm	46 mm	10 mm	3.6 mm	0153 750 050	250
5 mm	55 mm	52 mm	10 mm	3.6 mm	0153 750 055	250
5 mm	60 mm	56 mm	10 mm	3.6 mm	0153 750 060	250
5 mm	70 mm	66 mm	10 mm	3.6 mm	0153 750 070	200
6 mm	40 mm	37 mm	12 mm	4 mm	0153 760 040	250
6 mm	50 mm	46 mm	12 mm	4 mm	0153 760 050	250
6 mm	60 mm	54 mm	12 mm	4 mm	0153 760 060	200
6 mm	70 mm	64 mm	12 mm	4 mm	0153 760 070	200
6 mm	80 mm	70 mm	12 mm	4 mm	0153 760 080	100

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 PH stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 A2 RCS wood façade screw A2 stainless steel plain partial thread raised countersunk head

Special partial-thread screw made of high-quality austenitic A2 stainless steel with rounded raised countersunk head for visually appealing fastening of wooden façades in outdoor areas exposed to the elements



- Ideal power transmission thanks to RW drive
- Form-fit connection of the 90° countersunk head to metal fittings with 90° countersinks or in wooden products with high bulk density
- Higher breaking torque
- Gentle thread start ensures optimised positioning and biting of the screw
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Internal drive	RW20
Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3.5 mm	40 mm	25 mm	7 mm	2.3 mm	0187 635 40	500
4 mm	40 mm	24 mm	8 mm	2.5 mm	0187 640 40	500
4 mm	45 mm	29 mm	8 mm	2.5 mm	0187 640 45	500
4 mm	50 mm	34 mm	8 mm	2.5 mm	0187 640 50	500
4 mm	60 mm	39 mm	8 mm	2.5 mm	0187 640 60	250
4 mm	70 mm	39 mm	8 mm	2.5 mm	0187 640 70	200
4.5 mm	50 mm	33 mm	8.9 mm	2.8 mm	0187 645 50	250
4.5 mm	60 mm	38 mm	8.9 mm	2.8 mm	0187 645 60	250
4.5 mm	70 mm	43 mm	8.9 mm	2.8 mm	0187 645 70	100
4.5 mm	80 mm	48 mm	8.9 mm	2.8 mm	0187 645 80	100
5 mm	70 mm	42 mm	9.6 mm	3.2 mm	0187 650 70	200
5 mm	80 mm	52 mm	9.6 mm	3.2 mm	0187 650 80	100
5 mm	100 mm	52 mm	9.6 mm	3.2 mm	0187 650 100	100

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Continuation **ASSY® 4 A2 RCS wood façade screw A2 stainless steel plain partial thread raised countersunk head**



- Austenitic stainless steel is characterised by a high degree of corrosion resistance against aggressive industrial air, sea air, tap water, river water, mine water and salt water, as well as woods containing tannic acid. It is resistant to acid to a certain extent and not suitable for atmospheres containing chlorine gas
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 A2 RCS fittings screw A2 stainless steel plain full thread raised countersunk head

Full-thread screw made of high-quality austenitic A2 stainless steel with visually pleasing, rounded raised countersunk head for fastening metal to wood in outdoor areas exposed to the elements



- Ideal power transmission thanks to RW drive
- Form-fit connection of the 90° countersunk head to metal fittings with 90° countersinks or in wooden products with high bulk density
- Higher breaking torque
- Gentle thread start ensures optimised positioning and biting of the screw
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3 mm	16 mm	13 mm	5.9 mm	1.9 mm	0187 530 16	500
3 mm	20 mm	17 mm	5.9 mm	1.9 mm	0187 530 20	500
3.5 mm	15 mm	12 mm	7 mm	2.3 mm	0187 535 15	200
3.5 mm	20 mm	17 mm	7 mm	2.3 mm	0187 535 20	200
3.5 mm	25 mm	22 mm	7 mm	2.3 mm	0187 535 25	200
3.5 mm	30 mm	25 mm	7 mm	2.3 mm	0187 535 30	200
3.5 mm	35 mm	30 mm	7 mm	2.3 mm	0187 535 35	200
3.5 mm	40 mm	35 mm	7 mm	2.3 mm	0187 535 40	200
4 mm	20 mm	16 mm	8 mm	2.5 mm	0187 540 20	500
4 mm	25 mm	21 mm	8 mm	2.5 mm	0187 540 25	500
4 mm	30 mm	24 mm	8 mm	2.5 mm	0187 540 30	200
4 mm	35 mm	29 mm	8 mm	2.5 mm	0187 540 35	200
4 mm	40 mm	34 mm	8 mm	2.5 mm	0187 540 40	200

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4 mm	50 mm	44 mm	8 mm	2.5 mm	0187 540 50	500
4.5 mm	35 mm	28 mm	8.9 mm	2.8 mm	0187 545 35	200
4.5 mm	40 mm	33 mm	8.9 mm	2.8 mm	0187 545 40	200
4.5 mm	45 mm	38 mm	8.9 mm	2.8 mm	0187 545 45	100
4.5 mm	50 mm	43 mm	8.9 mm	2.8 mm	0187 545 50	250
4.5 mm	60 mm	50 mm	8.9 mm	2.8 mm	0187 545 60	250
5 mm	50 mm	42 mm	9.6 mm	3.2 mm	0187 550 50	250

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- Austenitic stainless steel is characterised by a high degree of corrosion resistance against aggressive industrial air, sea air, tap water, river water, mine water and salt water, as well as woods containing tannic acid. It is resistant to acid to a certain extent and not suitable for atmospheres containing chlorine gas
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 RCS fittings screw Steel brass-plated full thread raised countersunk head

Universal full-thread screw with raised countersunk head for fastening brass-plated fittings to wood or wooden materials in furniture construction, shopfitting or interior construction in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Form-fit connection of the 90° countersunk head to metal fittings with 90° countersinks or in wooden products with high bulk density
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw

Material	Hardened steel
Surface	Brass plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3 mm	17 mm	14 mm	5.9 mm	1.9 mm	0154 643 017	1000
3 mm	35 mm	30 mm	5.9 mm	1.9 mm	0154 643 035	1000
3.5 mm	20 mm	16 mm	7 mm	2.3 mm	0154 643 520	1000
3.5 mm	30 mm	25 mm	7 mm	2.3 mm	0154 643 530	1000
3.5 mm	35 mm	30 mm	7 mm	2.3 mm	0154 643 535	1000
3.5 mm	40 mm	35 mm	7 mm	2.3 mm	0154 643 540	500

Continuation **ASSY® 4 RCS fittings screw Steel brass-plated full thread raised countersunk head**

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3.5 mm	50 mm	45 mm	7 mm	2.3 mm	0154 643 550	500
4 mm	30 mm	24 mm	8 mm	2.5 mm	0154 644 030	500
4 mm	35 mm	29 mm	8 mm	2.5 mm	0154 644 035	500
4 mm	40 mm	34 mm	8 mm	2.5 mm	0154 644 040	500
4.5 mm	40 mm	33 mm	8.9 mm	2.8 mm	0154 645 040	500
4.5 mm	45 mm	38 mm	8.9 mm	2.8 mm	0154 645 045	500
4.5 mm	50 mm	43 mm	8.9 mm	2.8 mm	0154 645 050	250
4.5 mm	60 mm	50 mm	8.9 mm	2.8 mm	0154 645 060	250

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 RCS fittings screw Steel nickel-plated full thread raised countersunk head

Universal full-thread screw with raised countersunk head for fastening nickel-plated fittings to wood or wooden materials in furniture construction, shopfitting or interior construction in indoor dry or sheltered areas



ASSY


- Ideal power transmission thanks to RW drive
- Form-fit connection of the 90° countersunk head to metal fittings with 90° countersinks or in wooden products with high bulk density
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw

Material	Hardened steel
Surface	Nickel plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3 mm	15 mm	12 mm	5.9 mm	1.9 mm	0154 633 015	1000
3 mm	17 mm	14 mm	5.9 mm	1.9 mm	0154 633 017	1000
3 mm	20 mm	17 mm	5.9 mm	1.9 mm	0154 633 020	1000
3 mm	25 mm	22 mm	5.9 mm	1.9 mm	0154 633 025	1000
3 mm	30 mm	25 mm	5.9 mm	1.9 mm	0154 633 030	1000
3.5 mm	16 mm	12 mm	7 mm	2.3 mm	0154 633 516	1000
3.5 mm	17 mm	13 mm	7 mm	2.3 mm	0154 633 517	1000
3.5 mm	20 mm	16 mm	7 mm	2.3 mm	0154 633 520	1000
3.5 mm	25 mm	21 mm	7 mm	2.3 mm	0154 633 525	1000
3.5 mm	35 mm	30 mm	7 mm	2.3 mm	0154 633 535	1000
3.5 mm	40 mm	35 mm	7 mm	2.3 mm	0154 633 540	500
3.5 mm	45 mm	40 mm	7 mm	2.3 mm	0154 633 545	500
4 mm	20 mm	16 mm	8 mm	2.5 mm	0154 634 020	1000
4 mm	30 mm	24 mm	8 mm	2.5 mm	0154 634 030	500
4 mm	35 mm	29 mm	8 mm	2.5 mm	0154 634 035	500
4 mm	40 mm	34 mm	8 mm	2.5 mm	0154 634 040	500
4 mm	45 mm	39 mm	8 mm	2.5 mm	0154 634 045	500
4 mm	50 mm	44 mm	8 mm	2.5 mm	0154 634 050	500
4.5 mm	40 mm	33 mm	8.9 mm	2.8 mm	0154 634 540	500
4.5 mm	45 mm	38 mm	8.9 mm	2.8 mm	0154 634 545	500
4.5 mm	50 mm	43 mm	8.9 mm	2.8 mm	0154 634 550	250
4.5 mm	60 mm	50 mm	8.9 mm	2.8 mm	0154 634 560	250
4.5 mm	70 mm	62 mm	8.9 mm	2.8 mm	0154 634 570	200
5 mm	40 mm	32 mm	9.6 mm	3.2 mm	0154 635 040	500
5 mm	50 mm	42 mm	9.6 mm	3.2 mm	0154 635 050	250
5 mm	60 mm	52 mm	9.6 mm	3.2 mm	0154 635 060	250
5 mm	70 mm	62 mm	9.6 mm	3.2 mm	0154 635 070	200
5 mm	80 mm	72 mm	9.6 mm	3.2 mm	0154 635 080	100

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere is chlorine-containing, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 RCS fittings screw Steel zinc plated full thread raised countersunk head

Universal full-thread screw with raised countersunk head for fastening zinc plated fittings to wood or wooden materials in furniture construction, shopfitting or interior construction in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Form-fit connection of the 90° countersunk head to metal fittings with 90° countersinks or in wooden products with high bulk density
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw

Material	Hardened steel
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
3 mm	16 mm	13 mm	5.9 mm	1.9 mm	0154 603 016	1000
3 mm	17 mm	14 mm	5.9 mm	1.9 mm	0154 603 017	1000
3 mm	20 mm	17 mm	5.9 mm	1.9 mm	0154 603 020	1000
3 mm	25 mm	22 mm	5.9 mm	1.9 mm	0154 603 025	1000
3 mm	30 mm	25 mm	5.9 mm	1.9 mm	0154 603 030	1000
3 mm	35 mm	30 mm	5.9 mm	1.9 mm	0154 603 035	1000
3.5 mm	16 mm	12 mm	7 mm	2.3 mm	0154 603 516	1000
3.5 mm	17 mm	13 mm	7 mm	2.3 mm	0154 603 517	1000
3.5 mm	20 mm	16 mm	7 mm	2.3 mm	0154 603 520	1000
3.5 mm	25 mm	21 mm	7 mm	2.3 mm	0154 603 525	1000
3.5 mm	30 mm	25 mm	7 mm	2.3 mm	0154 603 530	1000
3.5 mm	35 mm	30 mm	7 mm	2.3 mm	0154 603 535	1000
3.5 mm	40 mm	35 mm	7 mm	2.3 mm	0154 603 540	500
3.5 mm	45 mm	40 mm	7 mm	2.3 mm	0154 603 545	500
3.5 mm	50 mm	45 mm	7 mm	2.3 mm	0154 603 550	500
4 mm	20 mm	16 mm	8 mm	2.5 mm	0154 604 020	1000
4 mm	25 mm	21 mm	8 mm	2.5 mm	0154 604 025	1000
4 mm	30 mm	24 mm	8 mm	2.5 mm	0154 604 030	500
4 mm	35 mm	29 mm	8 mm	2.5 mm	0154 604 035	500
4 mm	40 mm	34 mm	8 mm	2.5 mm	0154 604 040	500
4 mm	45 mm	39 mm	8 mm	2.5 mm	0154 604 045	500
4 mm	50 mm	44 mm	8 mm	2.5 mm	0154 604 050	500
4.5 mm	30 mm	26 mm	8.9 mm	2.8 mm	0154 604 530	500
4.5 mm	35 mm	28 mm	8.9 mm	2.8 mm	0154 604 535	500
4.5 mm	40 mm	33 mm	8.9 mm	2.8 mm	0154 604 540	500
4.5 mm	45 mm	38 mm	8.9 mm	2.8 mm	0154 604 545	500
4.5 mm	50 mm	43 mm	8.9 mm	2.8 mm	0154 604 550	250
4.5 mm	60 mm	50 mm	8.9 mm	2.8 mm	0154 604 560	250
5 mm	35 mm	30 mm	9.6 mm	3.2 mm	0154 605 035	500
5 mm	40 mm	32 mm	9.6 mm	3.2 mm	0154 605 040	500
5 mm	50 mm	42 mm	9.6 mm	3.2 mm	0154 605 050	250
5 mm	60 mm	52 mm	9.6 mm	3.2 mm	0154 605 060	250
5 mm	70 mm	62 mm	9.6 mm	3.2 mm	0154 605 070	200

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere is chlorine-containing, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 SCS piano hinge screw Steel brass-plated full thread small countersunk head

Full-thread screw with small countersunk head for fixing piano hinges in wood in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Strong fastening of thin sheet metals, such as rod hinges or piano hinges
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility



Nominal diameter (d)	3 mm
Head diameter (d _h)	4.9 mm
Head height (k)	1.3 mm
Internal drive	RW10
Material	Hardened steel
Surface	Brass plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Art. no.	P. Qty.
10 mm	7 mm	0168 813 010	1000
12 mm	9 mm	0168 813 012	1000
16 mm	13 mm	0168 813 016	1000
20 mm	17 mm	0168 813 020	1000
25 mm	22 mm	0168 813 025	1000

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws

Continuation **ASSY® 4 SCS piano hinge screw Steel brass-plated full thread small countersunk head**

- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 SCS piano hinge screw Steel zinc plated full thread small countersunk head

Full-thread screw with small countersunk head for fixing piano hinges in wood in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Strong fastening of thin sheet metals, such as rod hinges or piano hinges
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility

Nominal diameter (d)	3 mm
Head diameter (d _h)	4.9 mm
Head height (k)	1.3 mm
Internal drive	RW10
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Art. no.	P. Qty.
12 mm	9 mm	0168 833 012	1000
16 mm	13 mm	0168 833 016	1000
20 mm	17 mm	0168 833 020	1000
25 mm	22 mm	0168 833 025	1000

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 TRH gate hinge screw Steel zinc-nickel black full thread truss head

Special black full-thread screw with high corrosion resistance (500 h salt spray test), large round head and underside shank reinforcement for fastening gate fittings or metal units made of flat steel to wood



- Ideal power transmission thanks to RW drive
- Well-designed, flat and visible metal connection
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility

Nominal diameter	Length	Thread length (lg)	Head diameter	Head height	Art. no.	P. Qty.
5 mm	30 mm	27 mm	12.2 mm	2.8 mm	0167 650 30	500
5 mm	35 mm	32 mm	12.2 mm	2.8 mm	0167 650 35	500
5 mm	40 mm	37 mm	12.2 mm	2.8 mm	0167 650 40	500
5 mm	50 mm	47 mm	12.2 mm	2.8 mm	0167 650 50	500
6 mm	30 mm	26 mm	14.5 mm	3.2 mm	0167 660 30	500
6 mm	35 mm	31 mm	14.5 mm	3.2 mm	0167 660 35	500
6 mm	40 mm	36 mm	14.5 mm	3.2 mm	0167 660 40	500
6 mm	50 mm	45 mm	14.5 mm	3.2 mm	0167 660 50	500

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 A2 WH washer head screw A2 stainless steel plain partial thread washer head

Partial-thread screw made of high-quality austenitic A2 stainless steel with large washer head for wood-wood fastening in outdoor areas exposed to the elements



- Ideal power transmission thanks to RW drive
- Visually appealing screw connection on wood surface
- Higher breaking torque
- Gentle thread start ensures optimised positioning and biting of the screw
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Continuation **ASSY® 4 A2 WH washer head screw A2 stainless steel** **plain partial thread washer head**

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
6 mm	60 mm	37 mm	14 mm	3 mm	0181 816 60	100
6 mm	70 mm	42 mm	14 mm	3 mm	0181 816 70	100
6 mm	80 mm	50 mm	14 mm	3 mm	0181 816 80	100
6 mm	90 mm	50 mm	14 mm	3 mm	0181 816 90	100
6 mm	100 mm	60 mm	14 mm	3 mm	0181 816 100	100
6 mm	120 mm	70 mm	14 mm	3 mm	0181 816 120	100
6 mm	140 mm	70 mm	14 mm	3 mm	0181 816 140	100
8 mm	80 mm	50 mm	18.9 mm	3.8 mm	0181 818 80	50
8 mm	100 mm	60 mm	18.9 mm	3.8 mm	0181 818 100	50
8 mm	120 mm	80 mm	18.9 mm	3.8 mm	0181 818 120	50
8 mm	140 mm	80 mm	18.9 mm	3.8 mm	0181 818 140	50
8 mm	160 mm	80 mm	18.9 mm	3.8 mm	0181 818 160	50
8 mm	180 mm	80 mm	18.9 mm	3.8 mm	0181 818 180	50
8 mm	200 mm	80 mm	18.9 mm	3.8 mm	0181 818 200	50
8 mm	220 mm	100 mm	18.9 mm	3.8 mm	0181 818 220	50
8 mm	240 mm	100 mm	18.9 mm	3.8 mm	0181 818 240	50
8 mm	260 mm	100 mm	18.9 mm	3.8 mm	0181 818 260	50
8 mm	280 mm	100 mm	18.9 mm	3.8 mm	0181 818 280	50
8 mm	300 mm	100 mm	18.9 mm	3.8 mm	0181 818 300	50
8 mm	320 mm	100 mm	18.9 mm	3.8 mm	0181 818 320	50
8 mm	340 mm	100 mm	18.9 mm	3.8 mm	0181 818 340	50
8 mm	360 mm	100 mm	18.9 mm	3.8 mm	0181 818 360	50
8 mm	380 mm	100 mm	18.9 mm	3.8 mm	0181 818 380	50
8 mm	400 mm	100 mm	18.9 mm	3.8 mm	0181 818 400	50

Please consider the legal instruction at the beginning of this chapter.

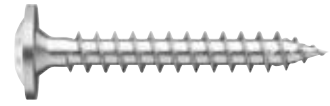
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- Austenitic stainless steel is characterised by a high degree of corrosion resistance against aggressive industrial air, sea air, tap water, river water, mine water and salt water, as well as woods containing tannic acid. It is resistant to acid to a certain extent and not suitable for atmospheres containing chlorine gas
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 A2 WH post screw A2 stainless steel plain full thread washer head

Full-thread screw made of high-quality austenitic A2 stainless steel with large washer head for fixing metal parts or plywood boards in wood in outdoor areas exposed to the elements



- Ideal power transmission thanks to RW drive
- Visually appealing screw connection on wood surface
- Higher breaking torque
- Gentle thread start ensures optimised positioning and biting of the screw
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Nominal diameter (d)	8 mm
Head diameter (d _h)	18.9 mm
Head height (k)	3.8 mm
Internal drive	RW40

Length (l)	Thread length (lg)	Art. no.	P. Qty.
40 mm	32 mm	0181 818 40	100
50 mm	42 mm	0181 818 50	100

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- Austenitic stainless steel is characterised by a high degree of corrosion resistance against aggressive industrial air, sea air, tap water, river water, mine water and salt water, as well as woods containing tannic acid. It is resistant to acid to a certain extent and not suitable for atmospheres containing chlorine gas
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 WH II washer head screw Steel zinc plated partial thread washer head II

Universal partial-thread screw with washer head washer head for wood-wood fastening, 90° or inclined screw connection in structural wood construction in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Visually appealing screw connection on wood surface with the option of countersinking like a countersunk head
- Significant reduction in the amount of force required when screwing in the screw
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility

Nominal diameter (d)	8 mm
Head diameter (d _h)	18.4 mm
Head height (k)	2.5 mm
Internal drive	RW40

Length (l)	Thread length (lg)	Art. no.	P. Qty.
80 mm	50 mm	0177 580 80	50
100 mm	60 mm	0177 580 100	50
120 mm	80 mm	0177 580 120	50
140 mm	80 mm	0177 580 140	50
160 mm	80 mm	0177 580 160	50
180 mm	80 mm	0177 580 180	50
200 mm	80 mm	0177 580 200	50
220 mm	100 mm	0177 580 220	50
240 mm	100 mm	0177 580 240	50
260 mm	100 mm	0177 580 260	50
280 mm	100 mm	0177 580 280	50
300 mm	100 mm	0177 580 300	50
320 mm	100 mm	0177 580 320	50
340 mm	100 mm	0177 580 340	50
360 mm	100 mm	0177 580 360	50
380 mm	100 mm	0177 580 380	50
400 mm	100 mm	0177 580 400	50

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 WH or ASSY 4 A2 BP stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 WH washer head screw Steel zinc plated partial thread washer head

Partial-thread screw with large washer head washer head for wood-wood fastening in a structural wood construction which must be pulled together in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Visually appealing screw connection on wood surface
- Significant reduction in the amount of force required when screwing in the screw
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
5 mm	30 mm	20 mm	12 mm	2.8 mm	0177 350 30	100
5 mm	35 mm	20 mm	12 mm	2.8 mm	0177 350 35	100
5 mm	40 mm	25 mm	12 mm	2.8 mm	0177 350 40	100
5 mm	45 mm	30 mm	12 mm	2.8 mm	0177 350 45	100
5 mm	50 mm	30 mm	12 mm	2.8 mm	0177 350 50	100
5 mm	60 mm	37 mm	12 mm	2.8 mm	0177 350 60	100
5 mm	70 mm	42 mm	12 mm	2.8 mm	0177 350 70	100
5 mm	80 mm	42 mm	12 mm	2.8 mm	0177 350 80	100
5 mm	90 mm	47 mm	12 mm	2.8 mm	0177 350 90	100
5 mm	100 mm	52 mm	12 mm	2.8 mm	0177 350 100	100
5 mm	110 mm	52 mm	12 mm	2.8 mm	0177 350 110	100
5 mm	120 mm	62 mm	12 mm	2.8 mm	0177 350 120	100
6 mm	60 mm	37 mm	14 mm	3 mm	0177 360 60	100
6 mm	70 mm	42 mm	14 mm	3 mm	0177 360 70	100
6 mm	80 mm	50 mm	14 mm	3 mm	0177 360 80	100
6 mm	90 mm	50 mm	14 mm	3 mm	0177 360 90	100
6 mm	100 mm	60 mm	14 mm	3 mm	0177 360 100	100
6 mm	110 mm	70 mm	14 mm	3 mm	0177 360 110	100
6 mm	120 mm	70 mm	14 mm	3 mm	0177 360 120	100
6 mm	140 mm	70 mm	14 mm	3 mm	0177 360 140	100
6 mm	160 mm	70 mm	14 mm	3 mm	0177 360 160	100
6 mm	180 mm	70 mm	14 mm	3 mm	0177 360 180	100
6 mm	200 mm	70 mm	14 mm	3 mm	0177 360 200	100
6 mm	220 mm	70 mm	14 mm	3 mm	0177 360 220	100
6 mm	240 mm	70 mm	14 mm	3 mm	0177 360 240	100
6 mm	260 mm	70 mm	14 mm	3 mm	0177 360 260	100
6 mm	280 mm	70 mm	14 mm	3 mm	0177 360 280	100
6 mm	300 mm	70 mm	14 mm	3 mm	0177 360 300	100
8 mm	60 mm	50 mm	22.1 mm	3.8 mm	0177 380 60	50
8 mm	80 mm	50 mm	22.1 mm	3.8 mm	0177 380 80	50
8 mm	100 mm	60 mm	22.1 mm	3.8 mm	0177 380 100	50
8 mm	120 mm	80 mm	22.1 mm	3.8 mm	0177 380 120	50
8 mm	140 mm	80 mm	22.1 mm	3.8 mm	0177 380 140	50
8 mm	160 mm	80 mm	22.1 mm	3.8 mm	0177 380 160	50
8 mm	180 mm	80 mm	22.1 mm	3.8 mm	0177 380 180	50
8 mm	200 mm	80 mm	22.1 mm	3.8 mm	0177 380 200	50
8 mm	220 mm	100 mm	22.1 mm	3.8 mm	0177 380 220	50

Continuation **ASSY® 4 WH** washer head screw Steel zinc plated partial thread washer head

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
8 mm	240 mm	100 mm	22.1 mm	3.8 mm	0177 380 240	50
8 mm	260 mm	100 mm	22.1 mm	3.8 mm	0177 380 260	50
8 mm	280 mm	100 mm	22.1 mm	3.8 mm	0177 380 280	50
8 mm	300 mm	100 mm	22.1 mm	3.8 mm	0177 380 300	50
8 mm	320 mm	100 mm	22.1 mm	3.8 mm	0177 380 320	50
8 mm	340 mm	100 mm	22.1 mm	3.8 mm	0177 380 340	50
8 mm	360 mm	100 mm	22.1 mm	3.8 mm	0177 380 360	50
8 mm	380 mm	100 mm	22.1 mm	3.8 mm	0177 380 380	50
8 mm	400 mm	100 mm	22.1 mm	3.8 mm	0177 380 400	50
8 mm	420 mm	100 mm	22.1 mm	3.8 mm	0177 380 420	50
8 mm	440 mm	100 mm	22.1 mm	3.8 mm	0177 380 440	50
8 mm	460 mm	100 mm	22.1 mm	3.8 mm	0177 380 460	25
8 mm	480 mm	100 mm	22.1 mm	3.8 mm	0177 380 480	25
8 mm	500 mm	100 mm	22.1 mm	3.8 mm	0177 380 500	25
10 mm	80 mm	50 mm	25.2 mm	4.6 mm	0177 310 80	50
10 mm	100 mm	60 mm	25.2 mm	4.6 mm	0177 310 100	50
10 mm	120 mm	80 mm	25.2 mm	4.6 mm	0177 310 120	50
10 mm	140 mm	80 mm	25.2 mm	4.6 mm	0177 310 140	50
10 mm	160 mm	100 mm	25.2 mm	4.6 mm	0177 310 160	50
10 mm	180 mm	100 mm	25.2 mm	4.6 mm	0177 310 180	50
10 mm	200 mm	100 mm	25.2 mm	4.6 mm	0177 310 200	50
10 mm	220 mm	100 mm	25.2 mm	4.6 mm	0177 310 220	50
10 mm	240 mm	100 mm	25.2 mm	4.6 mm	0177 310 240	50
10 mm	260 mm	100 mm	25.2 mm	4.6 mm	0177 310 260	50
10 mm	280 mm	100 mm	25.2 mm	4.6 mm	0177 310 280	50
10 mm	300 mm	100 mm	25.2 mm	4.6 mm	0177 310 300	50
10 mm	320 mm	120 mm	25.2 mm	4.6 mm	0177 310 320	50
10 mm	340 mm	120 mm	25.2 mm	4.6 mm	0177 310 340	50
10 mm	360 mm	120 mm	25.2 mm	4.6 mm	0177 310 360	50
10 mm	380 mm	120 mm	25.2 mm	4.6 mm	0177 310 380	50
10 mm	400 mm	120 mm	25.2 mm	4.6 mm	0177 310 400	50
10 mm	420 mm	120 mm	25.2 mm	4.6 mm	0177 310 420	25
10 mm	440 mm	120 mm	25.2 mm	4.6 mm	0177 310 440	25
10 mm	460 mm	120 mm	25.2 mm	4.6 mm	0177 310 460	25
10 mm	480 mm	120 mm	25.2 mm	4.6 mm	0177 310 480	25
10 mm	500 mm	120 mm	25.2 mm	4.6 mm	0177 310 500	25
12 mm	200 mm	100 mm	29.4 mm	5 mm	0177 312 200	25
12 mm	220 mm	120 mm	29.4 mm	5 mm	0177 312 220	25
12 mm	240 mm	120 mm	29.4 mm	5 mm	0177 312 240	25
12 mm	260 mm	120 mm	29.4 mm	5 mm	0177 312 260	25
12 mm	280 mm	120 mm	29.4 mm	5 mm	0177 312 280	25
12 mm	300 mm	120 mm	29.4 mm	5 mm	0177 312 300	25
12 mm	320 mm	120 mm	29.4 mm	5 mm	0177 312 320	25
12 mm	340 mm	120 mm	29.4 mm	5 mm	0177 312 340	25
12 mm	360 mm	120 mm	29.4 mm	5 mm	0177 312 360	25
12 mm	380 mm	145 mm	29.4 mm	5 mm	0177 312 380	25
12 mm	400 mm	145 mm	29.4 mm	5 mm	0177 312 400	25
12 mm	440 mm	145 mm	29.4 mm	5 mm	0177 312 440	25
12 mm	480 mm	145 mm	29.4 mm	5 mm	0177 312 480	25
12 mm	520 mm	145 mm	29.4 mm	5 mm	0177 312 520	25

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 WH or ASSY 4 A2 BP stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 WH post screw Steel zinc plated full thread washer head

Full-thread screw with large washer head for fastening metal parts or thin plywood boards in the packaging area in wood in indoor dry or sheltered areas



- Ideal power transmission thanks to RW drive
- Visually appealing screw connection on wood surface
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility

Internal drive	RW40
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Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
6 mm	30 mm	24 mm	14 mm	3 mm	0177 306 30	100/500
6 mm	35 mm	31 mm	14 mm	3 mm	0177 306 35	100
6 mm	40 mm	36 mm	14 mm	3 mm	0177 306 40	100
6 mm	45 mm	41 mm	14 mm	3 mm	0177 306 45	100
6 mm	50 mm	45 mm	14 mm	3 mm	0177 306 50	100
8 mm	40 mm	32 mm	22.1 mm	3.8 mm	0177 308 40	50
8 mm	50 mm	40 mm	22.1 mm	3.8 mm	0177 308 50	50

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 WH or ASSY 4 A2 BP stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® 4 WW CSMR timber screw Steel zinc plated partial thread countersunk milling head

Universal partial-thread screw for robust use in wood construction and large RW drive for fast gap-free fastening of wood-wood connections in indoor dry or sheltered areas



ASSY
RW

- Ideal power transmission thanks to RW drive
- Easy countersinking in hard wood surfaces
- Significant reduction in the amount of force required when screwing in the screw
- No over-tightening or stripping with high feed performance
- Gentle thread start ensures optimised positioning and biting of the screw
- High strength values and ductility

Nominal diameter (d)	5 mm
Head diameter (d _h)	9.5 mm
Head height (k)	4.7 mm
Internal drive	RW40

Length (l)	Thread length (lg)	Art. no.	P. Qty.
40 mm	25 mm	0190 653 40	500
45 mm	30 mm	0190 653 45	250
50 mm	30 mm	0190 653 50	250
60 mm	37 mm	0190 653 60	250
70 mm	42 mm	0190 653 70	200
80 mm	42 mm	0190 653 80	100
90 mm	47 mm	0190 653 90	100
100 mm	52 mm	0190 653 100	100
110 mm	52 mm	0190 653 110	100
120 mm	62 mm	0190 653 120	100

Please consider the legal instruction at the beginning of this chapter.

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 FBS RCS window construction screw Hardened steel zinc-plated full thread raised countersunk head

Special full threaded screw with raised countersunk head and restraining ribs for gap-free fastening close to edges. For mounting of metal fittings to timber windows without pre-drilling the wood



- Ideal power transmission thanks to RW drive
- Visually appealing connections in window construction
- Maximum reliability of the screw connection due to asymmetrical single thread
- Small edge distances

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d)	4 mm
Head diameter (d _h)	7 mm
Head height (k)	1.6 mm
Internal drive	RW20

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
25 mm	18 mm	21.5 mm	0178 744 025	1000
30 mm	23 mm	26.5 mm	0178 744 030	1000
35 mm	25 mm	28.5 mm	0178 744 035	1000
40 mm	30 mm	33.5 mm	0178 744 040	500
45 mm	35 mm	38.5 mm	0178 744 045	500

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus VG 4 CS construction screw Steel zinc plated full thread countersunk head

Special full-thread screw with countersunk head for universal use for high-load-bearing wood-wood, wood-metal connections or reinforcements in structural wood construction, which also require small edge and screw clearances, in indoor dry or wet areas



- Ideal power transmission thanks to RW drive
- Form-fitting connection to metal fittings or in wooden products with high bulk density
- Highest power transmission in the tensile and compressive direction
- Compact screw connections and small material cross-sections due to effective drill tip
- High strength values and ductility

Nominal diameter (d)	10 mm
Head diameter (d _h)	20 mm
Head height (k)	6.5 mm
Internal drive	RW50
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
120 mm	97 mm	97 mm	0150 110 120	50
140 mm	117 mm	117 mm	0150 110 140	50
160 mm	137 mm	137 mm	0150 110 160	50
180 mm	157 mm	157 mm	0150 110 180	50
200 mm	177 mm	177 mm	0150 110 200	50
220 mm	197 mm	197 mm	0150 110 220	50
240 mm	217 mm	217 mm	0150 110 240	50
260 mm	237 mm	237 mm	0150 110 260	50
280 mm	257 mm	257 mm	0150 110 280	50
300 mm	272 mm	272 mm	0150 110 300	50
320 mm	292 mm	292 mm	0150 110 320	50
340 mm	312 mm	312 mm	0150 110 340	50
360 mm	332 mm	332 mm	0150 110 360	50
380 mm	352 mm	352 mm	0150 110 380	50
400 mm	372 mm	372 mm	0150 110 400	50
430 mm	402 mm	402 mm	0150 110 430	25
450 mm	415 mm	415 mm	0150 110 450	25
480 mm	442 mm	442 mm	0150 110 480	25
530 mm	492 mm	492 mm	0150 110 530	25
580 mm	542 mm	542 mm	0150 110 580	25
650 mm	612 mm	612 mm	0150 110 650	25
700 mm	662 mm	662 mm	0150 110 700	25
750 mm	712 mm	712 mm	0150 110 750	25
800 mm	762 mm	762 mm	0150 110 800	25

Please consider the legal instruction at the beginning of this chapter.

Approved according to ETA-11/0190, for wood-concrete composite ceilings ETA-13/0029



- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use for screw applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus VG 4 CSMP construction screw Steel zinc plated full thread countersunk milling pocket head

Special full-thread screw with countersunk head with milling pockets for universal use for high-load-bearing wood-wood, wood-metal connections or reinforcements in structural wood construction, which also require small edge and screw clearances, in indoor dry or wet areas



- Ideal power transmission thanks to RW drive
- Clean countersinking in softwood or wood material
- Visually appealing countersunk finish in wood-wood applications or precise countersunk finish in metal-wood applications thanks to innovative milled pockets
- Highest power transmission in the tensile and compressive direction
- Compact screw connections and small material cross-sections due to effective drill tip
- High strength values and ductility

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
6 mm	80 mm	67 mm	67 mm	12 mm	0150 106 080	100
6 mm	100 mm	87 mm	87 mm	12 mm	0150 106 100	100
6 mm	120 mm	107 mm	107 mm	12 mm	0150 106 120	100
6 mm	140 mm	123 mm	123 mm	12 mm	0150 106 140	100
6 mm	160 mm	143 mm	143 mm	12 mm	0150 106 160	100
6 mm	180 mm	163 mm	163 mm	12 mm	0150 106 180	100
6 mm	200 mm	183 mm	183 mm	12 mm	0150 106 200	100
8 mm	120 mm	101 mm	101 mm	15 mm	0150 108 120	75
8 mm	140 mm	121 mm	121 mm	15 mm	0150 108 140	75
8 mm	160 mm	141 mm	141 mm	15 mm	0150 108 160	75
8 mm	180 mm	161 mm	161 mm	15 mm	0150 108 180	75
8 mm	200 mm	181 mm	181 mm	15 mm	0150 108 200	75
8 mm	220 mm	201 mm	201 mm	15 mm	0150 108 220	75
8 mm	240 mm	221 mm	221 mm	15 mm	0150 108 240	75

Continuation **ASSY® plus VG 4 CSMP construction screw Steel zinc plated full thread countersunk milling pocket head**

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
8 mm	260 mm	241 mm	241 mm	15 mm	0150 108 260	75
8 mm	280 mm	261 mm	261 mm	15 mm	0150 108 280	75
8 mm	300 mm	275 mm	275 mm	15 mm	0150 108 300	75
8 mm	320 mm	295 mm	295 mm	15 mm	0150 108 320	50
8 mm	340 mm	315 mm	315 mm	15 mm	0150 108 340	50
8 mm	360 mm	335 mm	335 mm	15 mm	0150 108 360	50
8 mm	380 mm	355 mm	355 mm	15 mm	0150 108 380	50
8 mm	400 mm	375 mm	375 mm	15 mm	0150 108 400	25
8 mm	430 mm	405 mm	405 mm	15 mm	0150 108 430	25
8 mm	450 mm	425 mm	425 mm	15 mm	0150 108 450	25
8 mm	480 mm	445 mm	445 mm	15 mm	0150 108 480	25
8 mm	530 mm	495 mm	495 mm	15 mm	0150 108 530	25
8 mm	580 mm	545 mm	545 mm	15 mm	0150 108 580	25
12 mm	120 mm	94 mm	94 mm	22.5 mm	0150 112 120	50
12 mm	140 mm	114 mm	114 mm	22.5 mm	0150 112 140	50
12 mm	160 mm	134 mm	134 mm	22.5 mm	0150 112 160	50
12 mm	180 mm	154 mm	154 mm	22.5 mm	0150 112 180	50
12 mm	200 mm	174 mm	174 mm	22.5 mm	0150 112 200	50
12 mm	220 mm	194 mm	194 mm	22.5 mm	0150 112 220	50
12 mm	240 mm	214 mm	214 mm	22.5 mm	0150 112 240	50
12 mm	260 mm	219 mm	219 mm	22.5 mm	0150 112 260	50
12 mm	280 mm	239 mm	239 mm	22.5 mm	0150 112 280	50
12 mm	300 mm	259 mm	259 mm	22.5 mm	0150 112 300	50
12 mm	320 mm	279 mm	279 mm	22.5 mm	0150 112 320	50
12 mm	340 mm	299 mm	299 mm	22.5 mm	0150 112 340	50
12 mm	360 mm	319 mm	319 mm	22.5 mm	0150 112 360	50
12 mm	380 mm	339 mm	339 mm	22.5 mm	0150 112 380	50
12 mm	400 mm	359 mm	359 mm	22.5 mm	0150 112 400	25
12 mm	430 mm	389 mm	389 mm	22.5 mm	0150 112 430	25
12 mm	450 mm	409 mm	409 mm	22.5 mm	0150 112 450	25
12 mm	480 mm	439 mm	439 mm	22.5 mm	0150 112 480	25
12 mm	600 mm	559 mm	559 mm	22.5 mm	0150 112 600	25

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use for screw applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® plus 4 A2 P CSMR60 wood façade screw A2 stainless steel plain partial thread with underhead thread countersunk head 60°

Special partial-thread screw with underhead thread with high tightening effect made of high-quality, austenitic A2 stainless steel with small countersunk head and milling ribs for flat, gap-free attachment close to edges, without predrilling, of wooden façades, skirting boards, fences etc. in outdoor areas constantly exposed to weathering



- Ideal power transmission thanks to RW drive
- Easy countersinking in hardwood/softwood with high knot content as well as hard wood fibreboards
- Maximum reliability of the screw connection due to asymmetrical single thread
- Precise positioning and very clean drilling due to advanced centring drill tip
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
3.5 mm	30 mm	14 mm	17 mm	6 mm	0166 403 530	500
3.5 mm	40 mm	18 mm	21 mm	6 mm	0166 403 540	500
3.5 mm	45 mm	18 mm	21 mm	6 mm	0166 403 545	500
3.5 mm	50 mm	21 mm	23 mm	6 mm	0166 403 550	500
3.5 mm	60 mm	24 mm	27 mm	6 mm	0166 403 560	500
4 mm	40 mm	18 mm	21.2 mm	7 mm	0166 404 040	500
4 mm	45 mm	18 mm	21.2 mm	7 mm	0166 404 045	500
4 mm	50 mm	21 mm	23 mm	7 mm	0166 404 050	500
4 mm	60 mm	24 mm	27.2 mm	7 mm	0166 404 060	250
4.5 mm	40 mm	18 mm	21.5 mm	7 mm	0166 404 540	500
4.5 mm	45 mm	18 mm	21.5 mm	7 mm	0166 404 545	500
4.5 mm	50 mm	21 mm	24.5 mm	7 mm	0166 404 550	500
4.5 mm	60 mm	24 mm	27.5 mm	7 mm	0166 404 560	250
4.5 mm	70 mm	24 mm	27.5 mm	7 mm	0166 404 570	200
4.5 mm	80 mm	24 mm	27.5 mm	7 mm	0166 404 580	200

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- Austenitic stainless steel is characterised by a high degree of corrosion resistance against aggressive industrial air, sea air, tap water, river water, mine water and salt water, as well as woods containing tannic acid. It is resistant to acid to a certain extent and not suitable for atmospheres containing chlorine gas

Continuation **ASSY® plus 4 A2 P CSMR60 wood façade screw A2 stainless steel plain partial thread with underhead thread countersunk head 60°**

- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY® plus 4 CS universal screw Hardened zinc-plated steel full thread countersunk head

Special full threaded screw with raised countersunk head and restraining ribs for gap-free fastening close to edges. For mounting of metal fittings to timber windows without pre-drilling the wood.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Form-fitting connection to metal fittings or in wooden products with high bulk density
- Maximum reliability of the screw connection due to asymmetrical single thread

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
3 mm	20 mm	14 mm	17.5 mm	5.9 mm	0178 043 020	1000
3 mm	25 mm	19 mm	22.5 mm	5.9 mm	0178 043 025	1000
3 mm	30 mm	22 mm	25.5 mm	5.9 mm	0178 043 030	1000
3 mm	34 mm	27 mm	30.5 mm	5.9 mm	0178 043 035	1000
3.5 mm	17 mm	11 mm	14.5 mm	6.9 mm	0178 043 517	1000
3.5 mm	20 mm	14 mm	17.5 mm	6.9 mm	0178 043 520	1000
3.5 mm	25 mm	18 mm	22.5 mm	6.9 mm	0178 043 525	1000
3.5 mm	30 mm	22 mm	25.5 mm	6.9 mm	0178 043 530	1000
3.5 mm	35 mm	27 mm	30.5 mm	6.9 mm	0178 043 535	1000
3.5 mm	40 mm	32 mm	35.5 mm	6.9 mm	0178 043 540	500
4 mm	20 mm	13 mm	16.5 mm	7.9 mm	0178 044 020	1000
4 mm	25 mm	18 mm	21.5 mm	7.9 mm	0178 044 025	1000
4 mm	30 mm	21 mm	24.5 mm	7.9 mm	0178 044 030	500
4 mm	35 mm	26 mm	29.5 mm	7.9 mm	0178 044 035	500
4 mm	40 mm	31 mm	34.5 mm	7.9 mm	0178 044 040	500
4 mm	45 mm	36 mm	39.5 mm	7.9 mm	0178 044 045	500

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 P CSMR 60 flooring screw Hardened zinc-plated steel partial thread countersunk head 60°

Partial thread flooring screw with underhead thread with small 60° countersunk milling head and high joining effect. Suitable for gap-free fastening, close to edges without pre-drilling (e.g. Tongue and groove profile wooden boards). The firm hold of the underhead thread in the component prevents any possible creaking or squeaking noises when walking on the floor.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Easy countersinking in hardwood/softwood with high knot content as well as hard wood fibreboards
- Maximum reliability of the screw connection due to asymmetrical single thread
- High strength values and ductility

Nominal diameter (d)	3.5 mm
Head diameter (d _h)	6 mm
Head height (k)	3.2 mm
Internal drive	RW10
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
40 mm	20 mm	23.5 mm	0178 083 540	500
50 mm	27 mm	30.5 mm	0178 083 550	500
60 mm	37 mm	40.5 mm	0178 083 560	500

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Continuation **ASSY®plus 4 P CSMR 60 flooring screw Hardened zinc-plated steel partial thread countersunk head 60°**

- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 CSMP corpus cabinet screw Hardened zinc-plated steel partial thread countersunk head

Partial thread screw with optimized thread length and countersunk milling pockets for joining components without gaps, pre-drilling or over tightening. Especially suitable for cabinet construction, different plate materials close to edges.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Clean countersinking in softwood or wood material
- Maximum reliability of the screw connection due to asymmetrical single thread

Internal drive	RW20
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
3.5 mm	45 mm	27 mm	30.5 mm	6.8 mm	0178 103 545	500
3.5 mm	50 mm	32 mm	35.5 mm	6.8 mm	0178 103 550	500
4 mm	30 mm	18 mm	21.5 mm	7.8 mm	0178 104 30	500
4 mm	35 mm	21 mm	24.5 mm	7.8 mm	0178 104 35	500
4 mm	50 mm	31 mm	34.5 mm	7.8 mm	0178 104 50	500
4 mm	55 mm	36 mm	39.5 mm	7.8 mm	0178 104 55	250
4 mm	60 mm	36 mm	39.5 mm	7.8 mm	0178 104 60	250
4 mm	70 mm	46 mm	49.5 mm	7.8 mm	0178 104 70	200
4.5 mm	35 mm	22 mm	26 mm	8.8 mm	0178 104 535	500
4.5 mm	45 mm	27 mm	31 mm	8.8 mm	0178 104 545	500
4.5 mm	50 mm	29 mm	33 mm	8.8 mm	0178 104 550	250
4.5 mm	60 mm	34 mm	38 mm	8.8 mm	0178 104 560	250
4.5 mm	70 mm	44 mm	48 mm	8.8 mm	0178 104 570	200
4.5 mm	80 mm	44 mm	48 mm	8.8 mm	0178 104 580	200

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 CSMP universal screw Hardened zinc-plated steel partial thread countersunk head

Universal partial thread with countersunk head with milling pockets. Suitable for gap-free attachment close to edges without pre-drilling of wood-wood connections in indoor dry or sheltered areas.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Clean countersinking in softwood or wood material
- Maximum reliability of the screw connection due to asymmetrical single thread

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
3.5 mm	35 mm	18 mm	21.5 mm	6.8 mm	0178 113 535	500
3.5 mm	40 mm	22 mm	25.5 mm	6.8 mm	0178 113 540	500
3.5 mm	45 mm	22 mm	25.5 mm	6.8 mm	0178 113 545	500
3.5 mm	50 mm	27 mm	30.5 mm	6.8 mm	0178 113 550	500
4 mm	30 mm	15 mm	18.5 mm	7.8 mm	0178 114 30	500
4 mm	35 mm	18 mm	21.5 mm	7.8 mm	0178 114 35	500
4 mm	40 mm	21 mm	24.5 mm	7.8 mm	0178 114 40	500
4 mm	45 mm	26 mm	29.5 mm	7.8 mm	0178 114 45	500
4 mm	50 mm	26 mm	29.5 mm	7.8 mm	0178 114 50	500
4 mm	55 mm	31 mm	34.5 mm	7.8 mm	0178 114 55	250
4 mm	60 mm	31 mm	34.5 mm	7.8 mm	0178 114 60	250
4 mm	70 mm	31 mm	34.5 mm	7.8 mm	0178 114 70	200
4.5 mm	35 mm	17 mm	21 mm	8.8 mm	0178 114 535	500
4.5 mm	40 mm	22 mm	26 mm	8.8 mm	0178 114 540	500
4.5 mm	45 mm	22 mm	26 mm	8.8 mm	0178 114 545	500
4.5 mm	50 mm	24 mm	28 mm	8.8 mm	0178 114 550	250
4.5 mm	60 mm	29 mm	33 mm	8.8 mm	0178 114 560	250
4.5 mm	70 mm	34 mm	38 mm	8.8 mm	0178 114 570	200
4.5 mm	80 mm	39 mm	43 mm	8.8 mm	0178 114 580	200
5 mm	50 mm	26 mm	30 mm	9.5 mm	0178 115 50	250

Continuation **ASSY® plus 4 CSMP universal screw Hardened zinc-plated steel partial thread countersunk head**

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
5 mm	60 mm	33 mm	37 mm	9.5 mm	0178 115 60	250
5 mm	70 mm	38 mm	42 mm	9.5 mm	0178 115 70	200
5 mm	80 mm	38 mm	42 mm	9.5 mm	0178 115 80	200
5 mm	90 mm	43 mm	47 mm	9.5 mm	0178 115 90	200
5 mm	100 mm	48 mm	52 mm	9.5 mm	0178 115 100	200
6 mm	80 mm	45 mm	50 mm	12 mm	0178 116 80	200
6 mm	90 mm	45 mm	50 mm	12 mm	0178 116 90	200
6 mm	100 mm	55 mm	60 mm	12 mm	0178 116 100	100
6 mm	120 mm	65 mm	70 mm	12 mm	0178 116 120	100
6 mm	140 mm	65 mm	70 mm	12 mm	0178 116 140	100
6 mm	160 mm	65 mm	70 mm	12 mm	0178 116 160	100
6 mm	180 mm	65 mm	70 mm	12 mm	0178 116 180	100
6 mm	200 mm	65 mm	70 mm	12 mm	0178 116 200	100
6 mm	220 mm	65 mm	70 mm	12 mm	0178 116 220	100
6 mm	240 mm	65 mm	70 mm	12 mm	0178 116 240	100
8 mm	140 mm	75 mm	80.5 mm	15 mm	0178 118 140	75
8 mm	160 mm	75 mm	80.5 mm	15 mm	0178 118 160	75
8 mm	180 mm	75 mm	80.5 mm	15 mm	0178 118 180	75
8 mm	200 mm	75 mm	80.5 mm	15 mm	0178 118 200	75
8 mm	220 mm	95 mm	100.5 mm	15 mm	0178 118 220	75
8 mm	240 mm	95 mm	100.5 mm	15 mm	0178 118 240	75
8 mm	260 mm	95 mm	100.5 mm	15 mm	0178 118 260	75
8 mm	280 mm	95 mm	100.5 mm	15 mm	0178 118 280	75
8 mm	300 mm	95 mm	100.5 mm	15 mm	0178 118 300	75
8 mm	400 mm	95 mm	100.5 mm	15 mm	0178 118 400	50
8 mm	430 mm	95 mm	100.5 mm	15 mm	0178 118 430	50
8 mm	480 mm	95 mm	100.5 mm	15 mm	0178 118 480	25

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 BP MDF rear panel screw Hardened zinc plated steel full thread washer head

Full-thread screw with geometry and drill tip attuned to MDF for mounting rear walls in MDF front faces without predrilling, splitting or bulging

- Ideal power transmission thanks to RW drive
- Screw fitting without gaps or bulging in MDF front surfaces
- Powerful connection of e.g. thin fibreboards for furniture back panels
- Maximum pull-out strength and minimum splitting effect



Nominal diameter (d)	3.4 mm
Head diameter (d _h)	8 mm
Head height (k)	1.4 mm
Internal drive	RW10
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
30 mm	20 mm	25 mm	0178 333 530	500
35 mm	25 mm	30 mm	0178 333 535	500
40 mm	31 mm	36 mm	0178 333 540	500

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 CS MDF universal screw Hardened zinc plated steel partial thread countersunk head

Partial-thread screw with geometry and drill tip attuned to MDF for connection in MDF front faces of cabinet parts without predrilling, splitting or bulging



- Ideal power transmission thanks to RW drive
- Screw fitting without gaps or bulging in MDF front surfaces
- Form-fitting connection to metal fittings or in wooden products with high bulk density
- Maximum pull-out strength and minimum splitting effect

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
3.4 mm	40 mm	27 mm	32 mm	5.7 mm	0178 393 540	500
3.4 mm	45 mm	29 mm	34 mm	5.7 mm	0178 393 545	500
3.4 mm	50 mm	31 mm	36 mm	5.7 mm	0178 393 550	500
3.4 mm	60 mm	35 mm	40 mm	5.7 mm	0178 393 560	500
3.9 mm	40 mm	27 mm	32 mm	6.7 mm	0178 394 040	500
3.9 mm	45 mm	29 mm	34 mm	6.7 mm	0178 394 045	500
3.9 mm	50 mm	31 mm	36 mm	6.7 mm	0178 394 050	500
3.9 mm	60 mm	35 mm	40 mm	6.7 mm	0178 394 060	250
4.4 mm	40 mm	27 mm	32 mm	7.7 mm	0178 394 540	500
4.4 mm	45 mm	29 mm	34 mm	7.7 mm	0178 394 545	500
4.4 mm	50 mm	31 mm	36 mm	7.7 mm	0178 394 550	250
4.4 mm	60 mm	35 mm	40 mm	7.7 mm	0178 394 560	250

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 P CSMR wooden plate screw Hardened zinc-plated steel partial thread with underhead thread countersunk head

Partial thread screw with underhead thread countersunk milling head and high joining effect. Suitable for gap-free fastening, close to edges without pre-drilling of wooden composite boards or solid woods. The firm hold of the underhead thread enables connections without an assembly gap even with lightweight wooden fibre boards and the screw head ending at the board surface.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Easy countersinking in hardwood/softwood with high knot content as well as hard wood fibreboards
- Maximum reliability of the screw connection due to asymmetrical single thread
- High strength values and ductility

Internal drive	RW20
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
3.5 mm	40 mm	20 mm	23.5 mm	7 mm	0178 403 540	500
3.5 mm	50 mm	20 mm	23.5 mm	7 mm	0178 403 550	500
3.5 mm	60 mm	27 mm	30.5 mm	7 mm	0178 403 560	500
4 mm	40 mm	20 mm	23.5 mm	8 mm	0178 404 40	500
4 mm	50 mm	20 mm	23.5 mm	8 mm	0178 404 50	500
4 mm	60 mm	27 mm	30.5 mm	8 mm	0178 404 60	250

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 CSMR 60 floor flooring screw Hardened zinc-plated steel full thread countersunk head 60°

Special full thread screw with small 60° countersunk milling head. Suitable for gap-free fastening, close to edges without pre-drilling of tongue and groove floorboards or panels (OSB, chipboards) in indoor dry or sheltered areas.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Easy countersinking in hardwood/softwood with high knot content as well as hard wood fibreboards
- Maximum reliability of the screw connection due to asymmetrical single thread
- High strength values and ductility

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
3.5 mm	30 mm	22 mm	25.5 mm	6 mm	0178 683 530	1000
3.5 mm	35 mm	27 mm	30.5 mm	6 mm	0178 683 535	1000
3.5 mm	40 mm	32 mm	35.5 mm	6 mm	0178 683 540	500
3.5 mm	45 mm	37 mm	40.5 mm	6 mm	0178 683 545	500
3.5 mm	50 mm	37 mm	40.5 mm	6 mm	0178 683 550	500
4 mm	35 mm	26 mm	29.5 mm	7 mm	0178 684 035	500
4 mm	40 mm	31 mm	34.5 mm	7 mm	0178 684 040	500
4 mm	45 mm	36 mm	39.5 mm	7 mm	0178 684 045	500
4 mm	50 mm	41 mm	44.5 mm	7 mm	0178 684 050	500
4 mm	60 mm	51 mm	54.5 mm	7 mm	0178 684 060	250

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 CSMR 60 floor flooring screw Hardened zinc-plated steel partial thread countersunk head 60°

Special partial thread screw with small 60° countersunk milling head. Suitable for gap-free fastening, close to edges without pre-drilling of tongue and groove floorboards or panels (OSB, chipboards) in indoor dry or sheltered areas.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Easy countersinking in hardwood/softwood with high knot content as well as hard wood fibreboards
- Maximum reliability of the screw connection due to asymmetrical single thread
- High strength values and ductility

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
3.5 mm	30 mm	14 mm	17.5 mm	6 mm	0178 693 530	1000
3.5 mm	35 mm	18 mm	21.5 mm	6 mm	0178 693 535	1000
3.5 mm	40 mm	22 mm	25.5 mm	6 mm	0178 693 540	500
3.5 mm	45 mm	22 mm	25.5 mm	6 mm	0178 693 545	500
3.5 mm	50 mm	27 mm	30.5 mm	6 mm	0178 693 550	500
4 mm	35 mm	18 mm	21.5 mm	7 mm	0178 694 035	500
4 mm	40 mm	21 mm	24.5 mm	7 mm	0178 694 040	500
4 mm	45 mm	26 mm	29.5 mm	7 mm	0178 694 045	500
4 mm	50 mm	26 mm	29.5 mm	7 mm	0178 694 050	500
4 mm	60 mm	31 mm	35.5 mm	7 mm	0178 694 060	250

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 TH glass strip screw Hardened zinc-plated steel partial thread top head 60°

Special partial thread screw with small top head and milling ribs. Suitable for gap-free fastening close to edges of delicate glass strips or skirting boards in furniture, shop or interior construction.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Well-designed, unobtrusive mounting of narrow wooden components
- Maximum reliability of the screw connection due to asymmetrical single thread

Nominal diameter (d)	3 mm
Head diameter (d _h)	5.2 mm
Head height (k)	3.3 mm
Internal drive	RW10
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
25 mm	11 mm	14.5 mm	0178 803 25	500
30 mm	14 mm	17.5 mm	0178 803 30	500
35 mm	16 mm	19.5 mm	0178 803 35	500

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 TH glass strip screw Hardened brass-plated steel partial thread top head 60°

Special partial thread screw with small top head and milling ribs. Suitable for gap-free fastening close to edges of delicate glass strips or skirting boards in furniture, shop or interior construction.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Well-designed, unobtrusive mounting of narrow wooden components
- Maximum reliability of the screw connection due to asymmetrical single thread
- High strength values and ductility

Nominal diameter (d)	3 mm
Head diameter (d _h)	5.2 mm
Head height (k)	3.3 mm
Internal drive	RW10
Material	Hardened steel
Surface	Brass plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
25 mm	11 mm	14.5 mm	0178 823 25	500
30 mm	14 mm	17.5 mm	0178 823 30	500
35 mm	16 mm	19.5 mm	0178 823 35	500
40 mm	19 mm	22.5 mm	0178 823 40	500
45 mm	22 mm	25.5 mm	0178 823 45	500
50 mm	22 mm	25.5 mm	0178 823 50	500

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 TH glass strip screw Hardened burnished steel partial thread top head 60°

Special partial thread screw with small top head and milling ribs. Suitable for gap-free fastening close to edges of delicate glass strips or skirting boards in furniture, shop or interior construction.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Well-designed, unobtrusive mounting of narrow wooden components
- Maximum reliability of the screw connection due to asymmetrical single thread

Nominal diameter (d)	3 mm
Head diameter (d _h)	5.2 mm
Head height (k)	3.3 mm
Internal drive	RW10
Material	Hardened steel
Surface	Burnished
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
25 mm	11 mm	14.5 mm	0178 833 25	500
30 mm	14 mm	17.5 mm	0178 833 30	500
35 mm	16 mm	19.5 mm	0178 833 35	500

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 TH glass strip screw Hardened nickel-plated steel partial thread top head 60°

Special partial-thread screw with small top head and milling ribs for gap-free fastening close to edges of delicate glass strips or skirting boards in furniture, shop or interior construction

- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Well-designed, unobtrusive mounting of narrow wooden components
- Maximum reliability of the screw connection due to asymmetrical single thread
- High strength values and ductility



Nominal diameter (d)	3 mm
Head diameter (d _h)	5.2 mm
Head height (k)	3.3 mm
Internal drive	RW10
Material	Hardened steel
Surface	Nickel plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
25 mm	11 mm	14.5 mm	0178 853 25	500
30 mm	14 mm	17.5 mm	0178 853 30	500
35 mm	16 mm	19.5 mm	0178 853 35	500
40 mm	19 mm	22.5 mm	0178 853 40	500
45 mm	22 mm	25.5 mm	0178 853 45	500
50 mm	22 mm	25.5 mm	0178 853 50	500

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. ASSY screws can be dimensioned in the Würth timber construction software from a Ø of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 CSMP special universal screw Hardened zinc-plated steel partial thread countersunk head

Universal partial thread with countersunk head with milling pockets. Suitable for gap-free attachment close to edges without pre-drilling of wood-wood connections in indoor dry or sheltered areas.



- Ideal power transmission thanks to RW drive
- Small edge distances
- Clean countersinking in softwood or wood material
- Maximum reliability of the screw connection due to asymmetrical single thread

Nominal diameter (d)	4 mm
Head diameter (d _h)	8 mm
Head height (k)	2.5 mm
Internal drive	RW20
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
30 mm	18 mm	21 mm	0178 914 030	500
35 mm	23 mm	26 mm	0178 914 035	500
40 mm	23 mm	26 mm	0178 914 040	500
45 mm	25 mm	28 mm	0178 914 045	500
50 mm	30 mm	33 mm	0178 914 050	500
55 mm	35 mm	38 mm	0178 914 055	250
60 mm	35 mm	38 mm	0178 914 060	500
70 mm	45 mm	48 mm	0178 914 070	200

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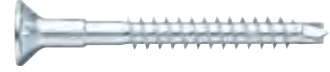
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 CSMP HO universal screw with access hole

Hardened zinc-plated steel partial thread countersunk head with milling pockets

Partial thread screw with access hole with countersunk head with milling pockets. Suitable for gap-free fastening, close to edges without pre-drilling of wood-wood connections in indoor dry or sheltered areas.

- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Clean countersinking in softwood or wood material
- Maximum reliability of the screw connection due to asymmetrical single thread



Nominal diameter (d)	4.5 mm
Head diameter (d _h)	8.7 mm
Head height (k)	2.7 mm
Internal drive	RW20
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (l _g)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
35 mm	17 mm	21 mm	0178 945 035	500
40 mm	22 mm	26 mm	0178 945 040	500
45 mm	22 mm	26 mm	0178 945 045	500
50 mm	24 mm	28 mm	0178 945 050	250
60 mm	29 mm	33 mm	0178 945 060	250

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 CSMP HO corpus cabinet screw with access hole

Hardened zinc-plated steel partial thread countersunk head

Partial thread screw with access hole with extended thread length and countersunk milling pockets for joining components without splitting pre-drilling or over-turning. Especially suitable for cabinet construction as well as for different plate materials close to edges.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Clean countersinking in softwood or wood material
- Maximum reliability of the screw connection due to asymmetrical single thread

Nominal diameter (d)	4.5 mm
Head diameter (d _h)	8.7 mm
Head height (k)	2.7 mm
Internal drive	RW20
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
35 mm	22 mm	26 mm	0178 945 350	500
40 mm	27 mm	31 mm	0178 945 400	500
45 mm	27 mm	31 mm	0178 945 450	500
50 mm	29 mm	33 mm	0178 945 500	250
60 mm	34 mm	38 mm	0178 945 600	250

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 A2 TH glass strip screw A2 plain stainless steel partial thread top head 60°

Special Partial Thread screw made of high quality, austenitic A2 stainless steel with small top head and milling ribs. Suitable for gap free fastening close to edges of delicate glass strips or skirting boards in outdoor areas constantly exposed to weathering.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Well-designed, unobtrusive mounting of wooden components
- Maximum reliability of the screw connection due to asymmetrical single thread
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Head diameter (d _h)	5.2 mm
Internal drive	RW10
Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (l _g)	Screw-thread length with drill tip (b)	Head height (k)	Art. no.	P. Qty.
3 mm	25 mm	11 mm	14.5 mm	3.5 mm	0166 130 25	500
3 mm	30 mm	14 mm	17.5 mm	3.5 mm	0166 130 30	500
3 mm	35 mm	16 mm	19.5 mm	3.5 mm	0166 130 35	500
3 mm	40 mm	19 mm	22.5 mm	3.5 mm	0166 130 40	500
3 mm	45 mm	22 mm	25.5 mm	3.5 mm	0166 130 45	500
3 mm	50 mm	22 mm	25.5 mm	3.5 mm	0166 130 50	500
3.5 mm	60 mm	27 mm	30.5 mm	3.1 mm	0166 135 060	500

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 A2 SRCS wood façade screw A2 plain stainless steel partial thread small raised countersunk head 60°

Special partial thread screw made of high quality austenitic A2 stainless steel with small raised countersunk head and milling ribs. Suitable for visually appealing fastening, close to edges without pre-drilling of wooden facades, skirting boards, fences etc in outdoor areas constantly exposed to weathering.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Clean countersinking in softwood/hardwood with high knot content
- Maximum reliability of the screw connection due to asymmetrical single thread
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Head diameter (d _h)	7 mm
Internal drive	RW20
Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head height (k)	Art. no.	P. Qty.
4 mm	40 mm	21 mm	24.5 mm	4 mm	0166 440 40	500
4 mm	45 mm	26 mm	29.5 mm	4 mm	0166 440 45	500
4 mm	50 mm	26 mm	29.5 mm	4 mm	0166 440 50	500
4.5 mm	40 mm	22 mm	26 mm	3.7 mm	0166 445 40	500
4.5 mm	45 mm	22 mm	26 mm	3.7 mm	0166 445 45	500
4.5 mm	50 mm	24 mm	28 mm	3.7 mm	0166 445 50	250
4.5 mm	60 mm	29 mm	33 mm	3.7 mm	0166 445 60	250
4.5 mm	70 mm	34 mm	38 mm	3.7 mm	0166 445 70	200
4.5 mm	80 mm	39 mm	43 mm	3.7 mm	0166 445 80	200

Please consider the legal instruction at the beginning of this chapter.

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 A2 SRCS TERRACE terrace construction screw A2 stainless steel plain partial thread raised countersunk head

Special partial thread screw with grooved shank made of high quality austenitic A2 stainless steel with small raised countersunk head and milling pockets. Suitable for visually appealing fastening, close to edges, without pre-drilling of terrace floorboards, wooden facades, skirting boards, fences etc. in outdoor areas constantly exposed to weathering.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Easy countersinking in softwoods and hardwoods
- Maximum reliability of the screw connection due to asymmetrical single thread
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Nominal diameter (d)	5.5 mm
Head diameter (d _h)	7.5 mm
Head height (k)	2.6 mm
Internal drive	RW20
Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

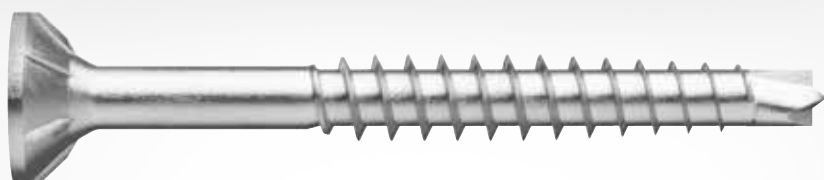
Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
40 mm	18 mm	22.5 mm	0166 815 540	250
45 mm	23 mm	27.5 mm	0166 815 545	250
50 mm	23 mm	27.5 mm	0166 815 550	250
60 mm	33 mm	37.5 mm	0166 815 560	250
70 mm	33 mm	37.5 mm	0166 815 570	250
80 mm	38 mm	42.5 mm	0166 815 580	200
90 mm	38 mm	42.5 mm	0166 815 590	100
100 mm	38 mm	42.5 mm	0166 815 510	100

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head



ASSY® plus 4 A2 CSMR universal screw A2 stainless steel plain partial thread countersunk head

Universal partial thread screw made of high quality austenitic A2 stainless steel countersunk head with milling pockets. Suitable for or gap-free fastening close to edges without pre-drilling of wood-wood connections in outdoor areas constantly exposed to weathering.

- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Easy countersinking in hardwood/softwood with high knot content as well as hard wood fibreboards
- Maximum reliability of the screw connection due to asymmetrical single thread
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

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Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
4 mm	30 mm	15 mm	18.5 mm	8 mm	0166 340 30	500
4 mm	35 mm	18 mm	21.5 mm	8 mm	0166 340 35	500
4 mm	40 mm	21 mm	24.5 mm	8 mm	0166 340 40	500
4 mm	45 mm	26 mm	29.5 mm	8 mm	0166 340 45	500

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
4 mm	50 mm	26 mm	29.5 mm	8 mm	0166 340 50	500
4 mm	60 mm	31 mm	34.5 mm	8 mm	0166 340 60	250
4.5 mm	40 mm	22 mm	26 mm	9 mm	0166 345 40	500
4.5 mm	45 mm	22 mm	26 mm	9 mm	0166 345 45	500
4.5 mm	50 mm	29 mm	33 mm	9 mm	0166 345 50	500
4.5 mm	60 mm	29 mm	33 mm	9 mm	0166 345 60	250
4.5 mm	70 mm	34 mm	38 mm	9 mm	0166 345 70	200
4.5 mm	80 mm	39 mm	43 mm	9 mm	0166 345 80	200
5.5 mm	40 mm	20 mm	24.5 mm	10 mm	0166 350 40	250
5.5 mm	45 mm	23 mm	27.5 mm	10 mm	0166 350 45	250
5.5 mm	50 mm	28 mm	32.5 mm	10 mm	0166 350 50	250
5.5 mm	60 mm	33 mm	37.5 mm	10 mm	0166 350 60	250
5.5 mm	70 mm	38 mm	42.5 mm	10 mm	0166 350 70	250
5.5 mm	80 mm	38 mm	42.5 mm	10 mm	0166 350 80	200
5.5 mm	80 mm	53 mm	57.5 mm	10 mm	0166 350 801	200
5.5 mm	90 mm	43 mm	47.5 mm	10 mm	0166 350 90	200
5.5 mm	100 mm	48 mm	52.5 mm	10 mm	0166 350 100	200
6.5 mm	50 mm	27 mm	37 mm	12 mm	0166 360 50	200
6.5 mm	60 mm	32 mm	37 mm	12 mm	0166 360 60	200
6.5 mm	70 mm	37 mm	42 mm	12 mm	0166 360 70	200
6.5 mm	80 mm	45 mm	50 mm	12 mm	0166 360 80	200
6.5 mm	90 mm	45 mm	50 mm	12 mm	0166 360 90	200
6.5 mm	100 mm	55 mm	60 mm	12 mm	0166 360 100	100
6.5 mm	120 mm	65 mm	70 mm	12 mm	0166 360 120	100
6.5 mm	140 mm	65 mm	70 mm	12 mm	0166 360 140	100
6.5 mm	160 mm	65 mm	70 mm	12 mm	0166 360 160	100
6.5 mm	180 mm	65 mm	70 mm	12 mm	0166 360 180	100
6.5 mm	200 mm	65 mm	70 mm	12 mm	0166 360 200	100

Please consider the legal instruction at the beginning of this chapter.

ASSY®plus 4 A2 CH TERRACE terrace construction screw A2 plain stainless steel partial thread with underhead thread cylinder head

Special partial thread screw with grooved shank made of high quality austenitic A2 stainless steel with small cheese head and underhead thread. Provides visually appealing fastening, close to edges without pre-drilling of terrace floorboards, wooden facades, skirting boards, fences etc. Suitable for outdoor areas constantly exposed to weathering.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Unobtrusive mounting of wooden components
- Maximum reliability of the screw connection due to asymmetrical single thread
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Nominal diameter (d)	5.5 mm
Head diameter (d _h)	6.8 mm
Head height (k)	2.3 mm
Internal drive	RW20
Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
50 mm	18 mm	22.5 mm	0166 825 550	250
60 mm	23 mm	27.5 mm	0166 825 560	250
70 mm	23 mm	27.5 mm	0166 825 570	250
80 mm	33 mm	37.5 mm	0166 825 580	200

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 A2 PH SOLAR roof hook screw A2 stainless steel plain partial thread pan head

Special full thread screw made of high quality austenitic A2 stainless steel with pan head for mounting close to edges without pre-drilling. Suitable for roof hooks when installing photovoltaic systems in outdoor areas constantly exposed to weathering.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Flat fastening of sheet metal onto substrate for secondary purposes
- Maximum reliability of the screw connection due to asymmetrical single thread
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Nominal diameter (d)	8 mm
Head diameter (d _h)	14.5 mm
Head height (k)	4.6 mm
Internal drive	RW40
Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
100 mm	85 mm	90.5 mm	0166 280 100	75
120 mm	95 mm	100.5 mm	0166 280 120	75

Please consider the legal instruction at the beginning of this chapter.

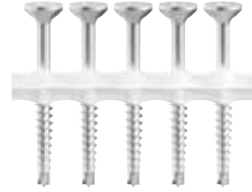
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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 A2 CSMR universal screw collated A2 stainless steel plain partial thread countersunk head

Universal, collated partial-thread screw made of high-quality, austenitic A2 stainless steel with countersunk milling ribs for serial, gap-free fastening close to edges, without predrilling, of wood-wood connections in outdoor areas constantly exposed to weathering



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Easy countersinking in hardwood/softwood with high knot content as well as hard wood fibreboards
- Maximum reliability of the screw connection due to asymmetrical single thread
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering



Internal drive	RW20
Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
4 mm	40 mm	21 mm	24.5 mm	8 mm	0166 904 040	1000
4 mm	45 mm	26 mm	29.5 mm	8 mm	0166 904 045	1000
4.5 mm	50 mm	29 mm	33 mm	9 mm	0166 904 550	1000
4.5 mm	60 mm	29 mm	33 mm	9 mm	0166 904 560	1000
5.5 mm	60 mm	33 mm	37.5 mm	10 mm	0166 905 060	1000
5.5 mm	70 mm	38 mm	42.5 mm	10 mm	0166 905 070	1000
5.5 mm	80 mm	53 mm	57.5 mm	10 mm	0166 905 080	1000

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 A4 SRCS TERRACE terrace construction screw A4 stainless steel plain partial thread raised countersunk head

Special partial thread screw with grooved shank made of high quality austenitic A4 stainless steel with small raised countersunk head and milling pockets. Provides visually appealing fastening close to edges without pre-drilling of terrace floorboards, wooden facades, skirting boards, fences etc. Suitable for outdoor areas constantly exposed to corrosion (e.g. in coastal regions).



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Easy countersinking in softwoods and hardwoods
- Maximum reliability of the screw connection due to asymmetrical single thread
- Stainless and acid-resistant mounting for inaccessible wood connections in outdoor areas exposed to weathering

Nominal diameter (d)	5.5 mm
Head diameter (d _h)	7.5 mm
Head height (k)	2.6 mm
Internal drive	RW20
Material	Stainless steel A4
Surface	Plain
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
40 mm	18 mm	22.5 mm	0169 025 540	250
45 mm	23 mm	27.5 mm	0169 025 545	250
50 mm	23 mm	27.5 mm	0169 025 550	250
60 mm	33 mm	37.5 mm	0169 025 560	250
70 mm	33 mm	37.5 mm	0169 025 570	250
80 mm	38 mm	42.5 mm	0169 025 580	200

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 CSMP universal screw collated Hardened zinc-plated steel partial thread countersunk head

Universal, collated partial-thread screw with countersunk head with milling pockets for serial, gap-free fastening close to edges, without predrilling, of wood-wood connections in indoor dry or wet areas



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Clean countersinking in softwood or wood material
- Maximum reliability of the screw connection due to asymmetrical single thread



Internal drive	RW20
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Head diameter (d _h)	Art. no.	P. Qty.
4 mm	35 mm	21 mm	24.5 mm	7.8 mm	0163 814 035	1000
4 mm	40 mm	21 mm	24.5 mm	7.8 mm	0163 814 040	1000
5 mm	60 mm	33 mm	37 mm	9.5 mm	0163 815 060	1000
5 mm	70 mm	38 mm	42 mm	9.5 mm	0163 815 070	1000
5 mm	80 mm	53 mm	57 mm	9.5 mm	0163 815 080	1000

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus VG 4 COMBI construction screw Steel zinc plated full thread hexagon head

Special full-thread screw with hexagon head and underside shank reinforcement for high-load-bearing metal-wood connections in structural wood construction, which also require small edge and screw clearances, in indoor dry or wet areas



- Ideal power transmission thanks to RW drive
- Flexible assembly with high power transmission and precise fit in metal connections
- Highest power transmission in the tensile and compressive direction
- Compact screw connections and small material cross-sections due to effective drill tip
- High strength values and ductility

Nominal diameter (d)	Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	External drive	Art. no.	P. Qty.
6 mm	80 mm	71 mm	71 mm	WS9	0150 206 080	100
6 mm	100 mm	91 mm	91 mm	WS9	0150 206 100	100
8 mm	80 mm	67 mm	67 mm	WS12	0150 208 080	75
8 mm	100 mm	87 mm	87 mm	WS12	0150 208 100	75
8 mm	120 mm	107 mm	107 mm	WS12	0150 208 120	75
10 mm	100 mm	80 mm	80 mm	WS15	0150 210 100	50
10 mm	120 mm	100 mm	100 mm	WS15	0150 210 120	50
10 mm	140 mm	120 mm	120 mm	WS15	0150 210 140	50
10 mm	160 mm	140 mm	140 mm	WS15	0150 210 160	50
12 mm	120 mm	98 mm	98 mm	WS17	0150 212 120	50
12 mm	140 mm	118 mm	118 mm	WS17	0150 212 140	50
12 mm	160 mm	138 mm	138 mm	WS17	0150 212 160	50

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- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use for screw applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

ASSY®plus 4 TH glass strip screw Hardened zinc-plated steel partial thread top head 60°

Special partial threaded screw with small top head and milling ribs. Suitable for gap-free mounting close to edges of delicate glass strips or skirting boards in furniture, shop or interior construction.



- Ideal power transmission thanks to RW drive
- Precise positioning and very clean drilling due to advanced centring drill tip
- Well-designed, unobtrusive mounting of narrow wooden components
- Maximum reliability of the screw connection due to asymmetrical single thread
- High strength values and ductility

Nominal diameter (d)	3 mm
Head diameter (d _h)	5.2 mm
Head height (k)	3.3 mm
Internal drive	RW10
Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
25 mm	11 mm	14.5 mm	0178 843 25	500
30 mm	14 mm	17.5 mm	0178 843 30	500
35 mm	16 mm	19.5 mm	0178 843 35	500

Please consider the legal instruction at the beginning of this chapter.

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- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. Please use ASSYplus 4 stainless steel screws for outdoor applications and rooms with constant high humidity
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Dimensions of the ASSY screws can be carried out in the Würth timber construction software from a Ø of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

Bit holder for ASSY screws

Ideal for mechanical attachment of bits and screw heads when driving-in screws.

- No bit slippage in drive
- No risk of injuries caused by bit slippage when driving in long, large screws
- Prevents incorrect screw attachments
- Bit holder magnetically attached to screw socket
- Enhanced grip
- Zinc plating/blue coating (A2K) for rust protection



Material	Steel
Surface	Zinc plated

Suitable for screw	Bit holder	Art. no.	P. Qty.
ASSY 3 SK diameter 10 and 12 mm, ASSYplus VG diameter 10 and 12 mm, ASSY 3 diameter 10 mm	1/2 inch hexagon	0165 300 92	1
ASSYplus VG diameter 14 mm	1/2 inch hexagon	0165 300 98	1
ASSY screws D 6 mm with countersunk head, round washer head, cylinder head	1/4 inch hexagon	0165 300 80	1
ASSY screws D 8 mm with countersunk head, round washer head	1/4 inch hexagon	0165 300 83	1
ASSY screws D 8 mm with cylinder head	1/4 inch hexagon	0165 300 84	1

Staircase construction screw, metric thread

Steel 8.8, galvanised, blue coated, AW, with large head



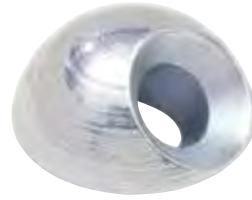
Material	Steel
Surface	Zinc plated
Nominal diameter (d)	10 mm
Head diameter (d _h)	27.5 mm
Internal drive	AW40

Length (l)	Thread length (lg)	Art. no.	P. Qty.
60 mm	30 mm	0168 510 60	200
80 mm	40 mm	0168 510 80	200
240 mm	60 mm	0168 510 240	100
250 mm	60 mm	0168 510 250	100
260 mm	60 mm	0168 510 260	100
275 mm	60 mm	0168 510 275	100

45° angled washer, round hole

For optimum transfer of tensile loads for metal/wood connections with ASSY countersunk screws.

- For metal tabs with a thickness of 2–3 mm
- High-precision fit and exact 45° specification for screwing the ASSY screws
- No pulling through of the screw head when using thin sheet metals
- Quick and easy installation of angled washer using a simple round hole or slot hole in the metal plate
- Clean appearance of the finished screw connection
- Material: Steel blue passivated (A3K)
- application in utilisation classes 1 and 2



Countersink angle (α)	90 Degree
Insertion depth (h ₂)	1.9 mm
Material	Steel
Surface	Zinc plated

Internal diameter (d)	Insertion diameter (d ₁)	Outer diameter (d ₂)	Height (h ₁)	Min./max. material thickness	Art. no.	P. Qty.
6.5 mm	12.9 mm	20 mm	10 mm	2.0-3 mm	0457 700 481	200
8.5 mm	15.9 mm	25 mm	11.6 mm	2-3 mm	0457 700 482	50

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To create metal cut-outs in the pull tab, download CAD drawings of the required holes from the Download section.

Angled washer 45° oval hole

For optimum transfer of tensile loads for metal/wood connections with ASSY countersunk screws.

- High fitting accuracy and precise 45° specification for fastening ASSY plus full-thread screws
- Screw head does not pull through when using thin-walled metal tabs
- Quick and easy mounting of the angled washer through a simple oval hole in the metal plate
- Clean appearance of the finished screw connection
- Application in utilisation classes 1 and 2



Countersink angle (α)	90 Degree
Material	Cast steel
Surface	Zinc plated

Internal diameter (d)	Height (h ₁)	Insertion depth (h ₂)	Min./max. material thickness	Suitable for screw	Art. no.	P. Qty.
6.5 mm	13.5 mm	2.7 mm	3-10 mm	ASSY 3 countersunk head diameter 6 mm, ASSYplus VG countersunk head diameter 6 mm, ASSY 4 countersunk head diameter 6 mm	0457 700 483	50
8.5 mm	16 mm	3.7 mm	4-15 mm	ASSY 3 countersunk head diameter 8 mm, ASSYplus VG countersunk head diameter 8 mm, ASSY 4 countersunk head diameter 8 mm	0457 700 484	50
10.7 mm	21.4 mm	4.7 mm	5-20 mm	ASSY 3 countersunk head diameter 10 mm, ASSYplus VG countersunk head diameter 10 mm, ASSY 4 countersunk head diameter 10 mm	0457 700 485	25
12.7 mm	23.5 mm	5.6 mm	6-25 mm	ASSY 3 countersunk head diameter 12 mm, ASSYplus VG countersunk head diameter 12 mm, ASSY 4 countersunk head diameter 12 mm	0457 700 486	25

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To create metal cut-outs in the pull tab, download CAD drawings of the required holes from the Download section.

Screw-in angle 45/60 degrees

Easy-to-install screw-in angle for quick and precise angled fitting of long ASSY timber screws at an angle of 45 or 60 degrees



- Both sides of this variably adjustable parallel stop can be used for the central positioning of the screws on the beam
- Screw run-off during screw insertion is minimised by the use of a stainless steel stop, both ends of which can be inserted
- Convenient and easy working is ensured by the permanent magnet for overhead work, integrated bit holder and the possibility of one-hand mounting
- Setpoints are easier to mark off due to the integrated detachment line and guarantees long service life through wear-resistant plastic

Length	200 mm
Width	30 mm
Height	120 mm
Suitable for screw	ASSY 4 diameter 6 mm, ASSY 4 diameter 8 mm, ASSY 4 diameter 10 mm, ASSYplus VG countersunk head diameter 6 mm, ASSYplus VG countersunk head diameter 8 mm, ASSYplus VG countersunk head diameter 10 mm, ASSYplus VG cylinder head diameter 6 mm, ASSYplus VG cylinder head diameter 8 mm, ASSYplus VG cylinder head diameter 10 mm

Art. no. 0165 300 20

P. Qty.: 2

Load bearing deviations, which can occur due to incorrect screw mounting or screw damage caused by intersecting screws at the crossing points, are avoided.

FP connector

For manufacturing wood/concrete composite ceilings using wet and dry methods.



- Advantages:
- Especially for the installation of dry, precast concrete elements with integrated FT connectors:

Baseplate length	111 mm
Width	50 mm
Height	70 mm
Suitable for screw	ASSYplus VG countersunk head diameter 10 mm

Art. no. 0165 300 10

P. Qty.: 50

ETA-13/0029
Expert report (from Karlsruher Institut für Technologie (KIT)) on improving concrete strength (up to 120 mm)



When using precast concrete elements:

- Merging of precast concrete elements with the wooden ceiling, without gaps, using additional ASSY 4 WH washer head screws
- Torque value (20 Nm) of the ASSYplus FT 4 countersunk head screws, 10 mm diameter for the FP connector
- To prevent the wooden ceilings shrinking after assembly, the unfinished wooden ceiling must be protected against moisture penetration
- Timber dimensioning software, load tables and detailed processing instructions can be found on the service page www.wuerth.de/assy.

D anchor Timber screw

Tension-free spaced installation anchor for dry ridge fixing and for attaching window frames, door casings or substructures.



- Material: Galvanised steel, blue coated
- Saves time
- Used as part of a system with an AW anchor cover cap
- The screw has a conical transition in the lower part of the head thread

Head thread length (lg ₂)	22 mm
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Nominal diameter (d)	Head thread diameter (d ₂)	Length (l)	Thread length (lg)	Internal drive	Art. no.	P. Qty.
4.5 mm	8 mm	60 mm	26 mm	AW25	0233 145 60	200
4.5 mm	8 mm	70 mm	31 mm	AW25	0233 145 70	200
4.5 mm	8 mm	80 mm	36 mm	AW25	0233 145 80	200
4.5 mm	8 mm	90 mm	36 mm	AW25	0233 145 90	200
4.5 mm	8 mm	100 mm	36 mm	AW25	0233 145 100	200
4.5 mm	8 mm	120 mm	42 mm	AW25	0233 145 120	200
6 mm	10 mm	60 mm	36 mm	AW30	0233 163 60	200
6 mm	10 mm	80 mm	36 mm	AW30	0233 163 80	200
6 mm	10 mm	100 mm	42 mm	AW30	0233 163 100	200
6 mm	10 mm	120 mm	42 mm	AW30	0233 163 120	200
6 mm	10 mm	140 mm	42 mm	AW30	0233 163 140	200
6 mm	10 mm	160 mm	42 mm	AW30	0233 163 160	200
6 mm	10 mm	180 mm	42 mm	AW30	0233 163 180	200
6 mm	10 mm	200 mm	42 mm	AW30	0233 163 200	100
6 mm	10 mm	250 mm	42 mm	AW30	0233 163 250	100

D anchor can be combined with Jamo® screws when assembling substructures. The D anchor has a higher load-bearing capacity and requires no subsequent readjustments.

JAMO® spacing assembly screw wood-concrete Spacing assembly screw for wood/concrete

The screw for making changes to spacing of wooden substructures on wooden, stone or concrete surfaces.



Substrates:

Solid wood (coniferous wood, ash, beech, oak), laminated beams, cross laminated timber (CLT) timber veneer (coniferous wood or BauBuche), OSB, chipboard and in combination with dowels in stone or concrete.

Benefits:

Approved load-bearing spacing assembly screw in accordance with ETA 11/0190 with wobble-free placement characteristics and quick bite.

Plastic non-friction coating:

High-quality slide coating to reduce friction and for easy screwing in.

Nominal diameter (d)	6 mm
Head diameter (d _h)	12.5 mm
Head height (k)	3.5 mm
Internal drive	AW30

Length (l)	Thread length (lg)	Art. no.	P. Qty.
80 mm	50 mm	0234 563 80	100
110 mm	70 mm	0234 563 110	100
120 mm	70 mm	0234 563 120	100
130 mm	70 mm	0234 563 130	100

ETA-11/0190



When selecting the screw length, keep in mind that the thread must be fully anchored into the surface. The requirements of the European Technical Approval and the dowel approval must be observed. More information about load values can be found at: www.wuerth.de/assy

Jamo plus 4 CSMP screw for adjustable distance mounting Steel zinc-plated partial thread with underhead thread for adjusting the countersunk head with milling pockets

Approved screw for adjustable distance mounting of wooden substructures on wood

- Ideal power transmission thanks to RW drive
- Permanent attachment of the component to be connected
- Maximum reliability of the screw connection due to asymmetrical single thread
- Precise positioning and very clean drilling due to advanced centring drill tip
- High strength values and ductility



Nominal diameter (d)	6 mm
Head diameter (d _h)	12 mm
Head height (k)	4.4 mm
Internal drive	RW40

Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
50 mm	19 mm	24 mm	0234 466 50	100
60 mm	29 mm	34 mm	0234 466 60	100
70 mm	33 mm	38 mm	0234 466 70	100
80 mm	43 mm	48 mm	0234 466 80	100
90 mm	55 mm	60 mm	0234 466 90	100
100 mm	55 mm	60 mm	0234 466 100	100
110 mm	65 mm	70 mm	0234 466 110	100
120 mm	65 mm	70 mm	0234 466 120	100
130 mm	65 mm	70 mm	0234 466 130	100
145 mm	65 mm	70 mm	0234 466 145	100
160 mm	65 mm	70 mm	0234 466 160	100

Please consider the legal instruction at the beginning of this chapter.

ETA-11/0190 approved



- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the JAMO 4 CS, ASSY D screws with countersunk head or pan head

Jamo 4 CS screw for adjustable distance mounting Steel zinc-plated partial thread with underhead thread for adjusting the countersunk head

Screw for making adjustments to the mounting distance of wooden substructures on wooden, stone or concrete surfaces



- Ideal power transmission thanks to RW drive
- Permanent attachment of the component to be connected
- Maximum reliability of the screw connection due to asymmetrical single thread
- Ideal for friction-free screw fitting in plastic, such as in anchors or in homogeneous highly compressed wooden materials
- High strength values and ductility

Nominal diameter (d)	6 mm
Head diameter (d _h)	12.3 mm
Head height (k)	3.5 mm
Internal drive	RW40

Length (l)	Thread length (lg)	Art. no.	P. Qty.
50 mm	23 mm	0234 564 50	100
70 mm	43 mm	0234 564 70	100
80 mm	53 mm	0234 564 80	100
90 mm	63 mm	0234 564 90	100
100 mm	73 mm	0234 564 100	100
110 mm	83 mm	0234 564 110	100
120 mm	83 mm	0234 564 120	100
130 mm	83 mm	0234 564 130	100
145 mm	83 mm	0234 564 145	100
160 mm	83 mm	0234 564 160	100

Please consider the legal instruction at the beginning of this chapter.

ETA-11/0190 approved

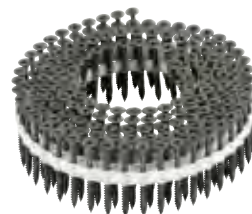


- Do not use for screw applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws

Dry wall screw with double thread, belt-linked

For mass screwing of plasterboard to metal stands.

Nominal diameter (d)	3.9 mm
Head diameter (d _h)	8.3 mm
Head height (k)	2.85 mm
Internal drive	H2

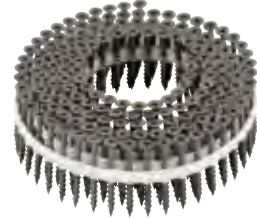


Length (l)	Art. no.	P. Qty.
25 mm	0179 239 25	1000
35 mm	0179 239 35	1000
45 mm	0179 239 45	1000

Dry wall screw with coarse thread, belt-linked

For mass screwing of plasterboard to wooden substructures.

Material	Hardened steel
Surface	Phosphated
Nominal diameter (d)	3.9 mm
Head diameter (d _h)	8.3 mm
Head height (k)	2.85 mm
Internal drive	H2



Length (l)	Art. no.	P. Qty.
25 mm	0179 439 25	1000
35 mm	0179 439 35	1000
45 mm	0179 439 45	1000

Countersunk washer/washer

A1 stainless steel

Material	Stainless steel A1
Surface	Plain
RoHS-compliant	Yes



Internal diameter (d ₁)	Outer diameter (d ₂)	Height (h ₁)	Art. no.	P. Qty.
4.3 mm	14 mm	2.8 mm	0457 54	200/1000
5.3 mm	16 mm	3.2 mm	0457 55	200
6.4 mm	18 mm	3.8 mm	0457 56	200
8.4 mm	25 mm	5 mm	0457 58	200

Angled washer 45° A2 oval hole

For optimum transfer of tensile stresses for metal/wood connections with ASSY 4 or ASSY 3.0 stainless steel countersunk head screws in outdoor areas exposed to the elements



- High fitting accuracy and precise 45° specification for screwing ASSY 4 or ASSY 3.0 A2 stainless steel countersunk head screws
- No pulling through of the screw head when using thin sheet metals
- Quick and easy mounting of the angled washer through a simple oval hole in the metal plate
- Clean appearance of the finished screw connection
- Use in utilisation class 3 and outdoor areas exposed to the elements

Countersink angle (α)	90 Degree
Material	Stainless steel A2
Surface	Plain

Internal diameter (d)	Height (h ₁)	Insertion depth (h ₂)	Min./max. material thickness	Suitable for screw	Art. no.	P. Qty.
6.5 mm	13.5 mm	2.7 mm	3-10 mm	ASSY 4 A2 countersunk head diameter 6 mm, ASSY 3 A2 countersunk head diameter 6 mm	0457 700 493	50
8.5 mm	16 mm	3.7 mm	4-15 mm	ASSY 4 A2 countersunk head diameter 8 mm, ASSY 3 A2 countersunk head diameter 8 mm	0457 700 494	50

ETA-11/0190



To create metal cut-outs in the pull tab, download CAD drawings of the required holes from the Download section.

Angled washer 30° CLT

For ASSY® screws with countersunk head

- Quick and easy assembly of the 30° CLT angled washer through a simple 40-mm round hole bore during element joining in cross laminated timber (CLT), laminated veneer lumber (LVL) or solid wood.
- Increase of the pre-production level through factory pre-assembly. A light press fit of the angled washer 30° CLT in the drilled hole ensures a tight fit during transport.
- Gap-free joining of elements by using partial-thread screws with countersunk head.



Internal diameter (d)	8.5 mm
Insertion diameter (d ₁)	40 mm
Outer diameter (d ₂)	40 mm

Countersink angle (α)	90 Degree
Height (h ₁)	16 mm
Material	Steel
Surface	Zinc plated
Suitable for screw	ASSY 4 countersunk head diameter 8 mm, ASSYplus VG countersunk head diameter 8 mm, ASSY 3 countersunk head diameter 8 mm
Diameter of hole	40 mm

Art. no. 0457 700 462

P. Qty.: 75

Oval decking connector

Fast and simple connection of wooden decking boards without a visible screwed joint

- Simple
- Wooden floorboards can be prepared for laying in the workshop: Mark the floorboards (depending on the distance between the sides of the frame of the substructure) then mill the floorboards to the markings. For connecting without screw holes on the top of the decking boards (only the first and last boards have to be screwed once). This ensures a delicate decking surface that can be walked on with bare feet without hesitation. The decking connector was developed to work hand in hand with the Würth decking construction screw. The decking construction screw blends into the structure well. The substructure does not require pre-drilling, as the decking construction screw has a drill tip.



Length (l ₁)	80 mm
Width (b ₁)	35 mm
Bar width (b ₂)	8 mm
Thickness (h ₁)	4 mm
Material	Aluminium

Art. no. 0907 000 80

P. Qty.: 100

Decking connector, bracket

Fast and simple connection of wooden decking boards without a visible screwed joint

- Spacers prevent moisture building up between the boards and the substructure
- Boards can swell and shrink in any direction
- Aluminium for a long life and high corrosion resistance
- Joint width can be adjusted
- Specially developed for the installation of wooden decks



Length (l ₁)	60 mm
Width (b ₁)	60 mm
Thickness (h ₁)	7 mm
Material	Aluminium

Continuation **Decking connector, bracket**

Art. no. 0907 000 90

P. Qty.: 100

TIP: Set torque on screwdriver, as stainless steel screws are not hardened!

Support pad

The support pad provides structural protection of the wood and prolongs the service life of the terrace

- Creates clearance between foundation and substructure
- Serves as a support point for the substructure
- Prevents water logging and premature rotting of the wood



Length	90 mm
Width	90 mm
Height	10 mm
Material	Rubber

Art. no. 0907 000 110

P. Qty.: 50

Spacer for terrace

Würth spacer allows for a uniform joint width when laying decking, while maintaining distance to the subconstruction to ensure that the whole construction is optimally ventilated and water is prevented from accumulating.

- Open construction prevents water accumulating
- Quick and simple laying with consistent spacing maintained



Length	80 mm
Width	25 mm
Height	6 mm
Material	PA - Polyamide
Colour	Black

Joint width	Art. no.	P. Qty.
4 mm	0907 000 218	200
7 mm	0907 000 219	200

Sound insulation strip, SonusStripe

Reduces the flange transmission of air and body sound through internal friction

- Consisting of basic ecological materials: sand and wood
- Load-independent, acoustic decoupling, particularly effective in low frequency ranges
- No risk of confusion as use is suited for all applications and levels



Max. compressive strength	23 N/mm ²
Fire resistance rating	B2

Type description	Length x width x thickness	Product weight (per item)	Art. no.	P. Qty.
SonusStripe 50	1200 x 50 x 15 mm	1099.6 g	5405 120 005	5
SonusStripe 60	1200 x 60 x 15 mm	1299.6 g	5405 120 006	5
SonusStripe 80	1200 x 80 x 15 mm	1799.6 g	5405 120 008	5
SonusStripe 100	1200 x 100 x 15 mm	2199.6 g	5405 120 010	5
SonusStripe 120	1200 x 120 x 15 mm	2599.6 g	5405 120 012	5

Higher loads in construction have no negative impact on the effects of the SonusStripe acoustic decoupling strips

Spacer strip

The spacer strip provides structural wood protection and prolongs the service life of the terrace

- Creates clearance between terrace boards and substructure, thus minimising the risk of screws shearing off
- Guarantees optimum underfloor ventilation of the terrace boards
- Secured with ASSY A2 pan head screws, prefix number 0180



Length	345 mm
Width	18 mm
Height	8 mm
Material	PA 6 GF30 - Polyamide

Art. no. 0907 000 100

P. Qty.: 50

Corner connector screw

For connecting pre-drilled unit parts in furniture construction and shopfitting.

- Galvanised steel, blue chromated
- Countersunk head



Nominal diameter (d)	7 mm
Shaft diameter (d _s)	7 mm
Shaft length (l ₁)	9.5 mm
Head diameter (d _h)	10 mm
Head height (k)	0.8 mm

Continuation **Corner connector screw**

Length (l)	Internal drive	Thread length (lg)	Art. no.	P. Qty.
50 mm	AW25	40 mm	0276 37 50	500
50 mm	HS4	40 mm	0276 27 50	500
50 mm	Z3	40 mm	0276 17 50	500
70 mm	AW25	60 mm	0276 37 70	500
70 mm	HS4	60 mm	0276 27 70	500
70 mm	Z3	60 mm	0276 17 70	500

Use suitable cover caps for AW or TX screws.

Corner joint screw head access hole

For connecting pre-drilled unit parts in furniture construction or shopfitting. Cover the screw head with cover caps.



**Galvanised steel, blue chromated
Countersunk head with head access hole**

Nominal diameter (d)	7 mm
Shaft diameter (d _s)	7 mm
Head diameter (d _h)	10 mm

Length (l)	Shaft length (l _s)	Internal drive	Thread length (lg)	Head height (k)	Art. no.	P. Qty.
40 mm		Z3			0276 7 40	500
50 mm	9.5 mm	AW25	40 mm	0.8 mm	0276 47 50	500
50 mm	9.5 mm	Z3	40 mm	0.8 mm	0276 7 50	500
70 mm	9.5 mm	AW25	60 mm	0.8 mm	0276 47 70	500
70 mm	9.5 mm	Z3	60 mm	0.8 mm	0276 7 70	500

Euro screw, countersunk head, type A

Nickel-plated steel. For the connection of concealed hinges, conventional hinges, extensions and fittings in furniture construction



Nominal diameter (d)	6.3 mm
Head height (k)	1.8 mm
Surface	Nickel plated

Length (l)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
11 mm	6.8 mm	AW20	0276 663 11	500
11 mm	6.8 mm	Z2	0276 163 11	500
11 mm	7.4 mm	AW20	0276 563 11	500
11 mm	7.4 mm	Z2	0276 063 11	500
14 mm	6.8 mm	AW20	0276 663 14	500
14 mm	6.8 mm	Z2	0276 163 14	500
14 mm	7.4 mm	AW20	0276 563 14	500
14 mm	7.4 mm	Z2	0276 063 14	500
18 mm	7.4 mm	AW20	0276 563 18	500
18 mm	7.4 mm	Z2	0276 063 18	500

EURO screw countersunk head type A

Zinc-plated steel, PZ-drive. For the connection of concealed hinges, conventional hinges, extensions and fittings in furniture construction



Nominal diameter (d)	6.3 mm
Head diameter (d _h)	8 mm
Head height (k)	2 mm
Internal drive	Z2
Surface	Zinc plated

Length (l)	Art. no.	P. Qty.
10 mm	0276 063 010	200
20 mm	0276 063 020	200

Euro screw, pan head, type B

For the connection of concealed hinges, conventional hinges, extensions and fittings in furniture construction



Nominal diameter (d)	6.3 mm
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Length (l)	Head diameter (d _h)	Head height (k)	Internal drive	Surface	Art. no.	P. Qty.
10 mm	9 mm	2.1 mm	AW20	Nickel plated	0276 963 10	500
10 mm	9 mm	2.1 mm	AW20	Zinc plated	0276 863 10	500
10 mm	9 mm	2.1 mm	Z2	Nickel plated	0276 630 10	500
10 mm	9 mm	2.1 mm	Z2	Zinc plated	0276 63 10	500
11 mm	9 mm	2.1 mm	Z2	Zinc plated	0276 63 11	500
12 mm	9 mm	2.1 mm	AW20	Nickel plated	0276 963 12	500
12 mm	9 mm	2.1 mm	AW20	Zinc plated	0276 863 12	500
12 mm	9 mm	2.1 mm	Z2	Nickel plated	0276 630 12	500
12 mm	9 mm	2.1 mm	Z2	Zinc plated	0276 63 12	500
14 mm	9 mm	2.1 mm	AW20	Zinc plated	0276 863 14	500
14 mm	9 mm	2.1 mm	Z2	Zinc plated	0276 63 14	500
16 mm	9 mm		Z2	Zinc plated	0276 63 16	100/500
18 mm	9 mm	2.1 mm	AW20	Zinc plated	0276 863 18	500
18 mm	9 mm	2.1 mm	Z2	Zinc plated	0276 63 18	500

WÜPOFAST®, blue galvanised Particle board screw

Hardened steel, galvanised, blue passivated

- Anti-friction coated
- With pre-drilled head



Material	Steel
Surface	Zinc plated

Continuation **WÜPOFAST®**, blue galvanised Particle board screw

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
4.5 mm	20 mm	12 mm	9 mm	Z2	0174 345 20	500
4.5 mm	25 mm	15 mm	9 mm	Z2	0174 345 25	500
4.5 mm	30 mm	19 mm	9 mm	Z2	0174 345 30	500
4.5 mm	35 mm	21 mm	9 mm	Z2	0174 345 35	500
4.5 mm	40 mm	24 mm	9 mm	Z2	0174 345 40	500
4.5 mm	45 mm	28 mm	9 mm	Z2	0174 345 45	500
4.5 mm	50 mm	30 mm	9 mm	Z2	0174 345 50	250
4.5 mm	55 mm	35 mm	9 mm	Z2	0174 345 55	250
4.5 mm	60 mm	35 mm	9 mm	Z2	0174 345 60	250
4.5 mm	70 mm	40 mm	9 mm	Z2	0174 345 70	200
5 mm	40 mm	24 mm	10 mm	Z2	0174 355 40	500
5 mm	50 mm	30 mm	10 mm	Z2	0174 355 50	250
5 mm	60 mm	35 mm	10 mm	Z2	0174 355 60	250
5 mm	70 mm	40 mm	10 mm	Z2	0174 355 70	200
5 mm	80 mm	50 mm	10 mm	Z2	0174 355 80	100
5 mm	90 mm	54 mm	10 mm	Z2	0174 355 90	100
5 mm	100 mm	60 mm	10 mm	Z2	0174 355 100	100
6 mm	60 mm	35 mm	12 mm	Z3	0174 356 60	200
6 mm	70 mm	43 mm	12 mm	Z3	0174 356 70	100
6 mm	80 mm	50 mm	12 mm	Z3	0174 356 80	100
6 mm	100 mm	60 mm	12 mm	Z3	0174 356 100	100
6 mm	110 mm	70 mm	12 mm	Z3	0174 356 110	100
6 mm	120 mm	70 mm	12 mm	Z3	0174 356 120	100

WÜPOFAST®, blue galvanised Particle board screw

Steel, blue galvanised, full thread, raised countersunk, PZ recessed head.



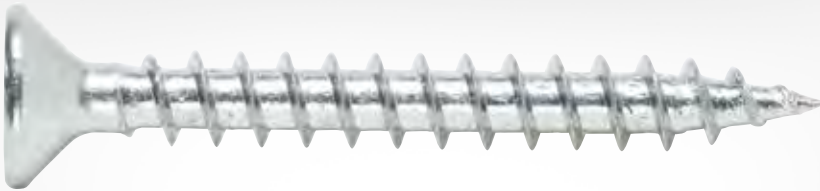
- Plastic slide coating
- Bending angle
- Breaking torque
- Screw-in torque
- 25° tip

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3 mm	12 mm	6 mm	Z1	0195 3 12	1000
3 mm	16 mm	6 mm	Z1	0195 3 16	1000
3 mm	17 mm	6 mm	Z1	0195 3 17	1000
3 mm	20 mm	6 mm	Z1	0195 3 20	1000/2000
3 mm	25 mm	6 mm	Z1	0195 3 25	1000
3 mm	30 mm	6 mm	Z1	0195 3 30	1000/2000
3.5 mm	12 mm	7 mm	Z2	0195 35 12	1000
3.5 mm	13 mm	7 mm	Z2	0195 35 13	1000/4000
3.5 mm	15 mm	7 mm	Z2	0195 35 15	1000/5000
3.5 mm	16 mm	7 mm	Z2	0195 35 16	1000
3.5 mm	17 mm	7 mm	Z2	0195 35 17	1000

Nominal diameter (d)	Length (l)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3.5 mm	20 mm	7 mm	Z2	0195 35 20	1000/4000
3.5 mm	25 mm	7 mm	Z2	0195 35 25	1000/2000
3.5 mm	30 mm	7 mm	Z2	0195 35 30	1000/2000
3.5 mm	35 mm	7 mm	Z2	0195 35 35	1000/2000
3.5 mm	40 mm	7 mm	Z2	0195 35 40	500/1000
3.5 mm	50 mm	7 mm	Z2	0195 35 50	500
4 mm	16 mm	8 mm	Z2	0195 4 16	1000
4 mm	20 mm	8 mm	Z2	0195 4 20	1000/2000
4 mm	25 mm	8 mm	Z2	0195 4 25	1000/2000
4 mm	30 mm	8 mm	Z2	0195 4 30	500/2000
4 mm	35 mm	8 mm	Z2	0195 4 35	500
4 mm	40 mm	8 mm	Z2	0195 4 40	500/1000
4 mm	45 mm	8 mm	Z2	0195 4 45	500/1000
4.5 mm	17 mm	9 mm	Z2	0195 45 17	500/2000
4.5 mm	20 mm	9 mm	Z2	0195 45 20	500
4.5 mm	25 mm	9 mm	Z2	0195 45 25	500
4.5 mm	30 mm	9 mm	Z2	0195 45 30	500/2000
4.5 mm	35 mm	9 mm	Z2	0195 45 35	500
4.5 mm	40 mm	9 mm	Z2	0195 45 40	500
4.5 mm	45 mm	9 mm	Z2	0195 45 45	500/1000
4.5 mm	50 mm	9 mm	Z2	0195 45 50	250/500
5 mm	20 mm	10 mm	Z2	0195 5 20	500
5 mm	30 mm	10 mm	Z2	0195 5 30	500
5 mm	40 mm	10 mm	Z2	0195 5 40	500
5 mm	45 mm	10 mm	Z2	0195 5 45	250
5 mm	50 mm	10 mm	Z2	0195 5 50	250
5 mm	55 mm	10 mm	Z2	0195 5 55	250
5 mm	60 mm	10 mm	Z2	0195 5 60	250
6 mm	40 mm	12 mm	Z3	0195 6 40	250
6 mm	50 mm	12 mm	Z3	0195 6 50	250
6 mm	60 mm	12 mm	Z3	0195 6 60	200

Not for outdoor use



WÜPOFAST®, blue galvanised Particle board screw

Steel, blue galvanised, full thread, countersunk head, PZ recessed head.

- Pozidrive recessed head
- Plastic slide coating
- Bending angle
- Breaking torque
- Screw-in torque
- 25° tip
- Precision positioning on hard surfaces such as coated and waterproof chipboard and all types of wood, wooden materials and MDF.

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
2.4 mm	12 mm	8 mm	5 mm	Z1	0198 24 12	1000/5000
2.4 mm	16 mm	12 mm	5 mm	Z1	0198 24 16	1000/2000
3 mm	10 mm	6 mm	6 mm	Z1	0198 3 10	1000/2000
3 mm	12 mm	8 mm	6 mm	Z1	0198 3 12	1000/2000
3 mm	13 mm	9 mm	6 mm	Z1	0198 3 13	1000/2000
3 mm	15 mm	11 mm	6 mm	Z1	0198 3 15	1000/2000
3 mm	16 mm	12 mm	6 mm	Z1	0198 3 16	1000/2500
3 mm	17 mm	13 mm	6 mm	Z1	0198 3 17	1000/2000

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3 mm	20 mm	16 mm	6 mm	Z1	0198 3 20	1000/3000
3 mm	25 mm	21 mm	6 mm	Z1	0198 3 25	1000/2000
3 mm	30 mm	26 mm	6 mm	Z1	0198 3 30	1000/2000
3 mm	35 mm	31 mm	6 mm	Z1	0198 3 35	1000
3 mm	40 mm	36 mm	6 mm	Z1	0198 3 40	500/1000
3 mm	45 mm	39 mm	6 mm	Z1	0198 3 45	500
3.5 mm	12 mm	8 mm	7 mm	Z2	0198 35 12	1000
3.5 mm	13 mm	9 mm	7 mm	Z2	0198 35 13	1000/2000
3.5 mm	15 mm	11 mm	7 mm	Z2	0198 35 15	1000/2000
3.5 mm	16 mm	12 mm	7 mm	Z2	0198 35 16	1000/2000
3.5 mm	17 mm	13 mm	7 mm	Z2	0198 35 17	1000/2000
3.5 mm	20 mm	16 mm	7 mm	Z2	0198 35 20	1000/2000
3.5 mm	22 mm	18 mm	7 mm	Z2	0198 35 22	1000/2500
3.5 mm	25 mm	21 mm	7 mm	Z2	0198 35 25	1000/2500
3.5 mm	30 mm	26 mm	7 mm	Z2	0198 35 30	1000/2000
3.5 mm	35 mm	31 mm	7 mm	Z2	0198 35 35	1000
3.5 mm	40 mm	36 mm	7 mm	Z2	0198 35 40	500
3.5 mm	45 mm	41 mm	7 mm	Z2	0198 35 45	500/1500
3.5 mm	50 mm	46 mm	7 mm	Z2	0198 35 50	500/1000
4 mm	12 mm	7 mm	8 mm	Z2	0198 4 12	1000/2000
4 mm	13 mm	8 mm	8 mm	Z2	0198 4 13	1000
4 mm	15 mm	10 mm	8 mm	Z2	0198 4 15	1000/2000
4 mm	16 mm	11 mm	8 mm	Z2	0198 4 16	1000/2000
4 mm	17 mm	12 mm	8 mm	Z2	0198 4 17	1000/2000
4 mm	20 mm	15 mm	8 mm	Z2	0198 4 20	1000/2000
4 mm	22 mm	17 mm	8 mm	Z2	0198 4 22	1000
4 mm	25 mm	20 mm	8 mm	Z2	0198 4 25	1000/2000
4 mm	27 mm	22 mm	8 mm	Z2	0198 4 27	500/2000
4 mm	30 mm	25 mm	8 mm	Z2	0198 4 30	500/2000
4 mm	35 mm	30 mm	8 mm	Z2	0198 4 35	500
4 mm	40 mm	35 mm	8 mm	Z2	0198 4 40	500/1000
4 mm	45 mm	40 mm	8 mm	Z2	0198 4 45	500/1000
4 mm	50 mm	45 mm	8 mm	Z2	0198 4 50	500/1000
4 mm	55 mm	50 mm	8 mm	Z2	0198 4 55	250/500
4 mm	60 mm	55 mm	8 mm	Z2	0198 4 60	500
4.5 mm	15 mm	9 mm	9 mm	Z2	0198 45 15	500
4.5 mm	16 mm	10 mm	9 mm	Z2	0198 45 16	500
4.5 mm	17 mm	11 mm	9 mm	Z2	0198 45 17	500
4.5 mm	20 mm	14 mm	9 mm	Z2	0198 45 20	500/2000
4.5 mm	25 mm	19 mm	9 mm	Z2	0198 45 25	500/1000
4.5 mm	30 mm	24 mm	9 mm	Z2	0198 45 30	500/1000
4.5 mm	35 mm	29 mm	9 mm	Z2	0198 45 35	500/1000
4.5 mm	40 mm	34 mm	9 mm	Z2	0198 45 40	500/1000
4.5 mm	45 mm	39 mm	9 mm	Z2	0198 45 45	500/1000
4.5 mm	50 mm	44 mm	9 mm	Z2	0198 45 50	250/500
4.5 mm	55 mm	49 mm	9 mm	Z2	0198 45 55	250/500
4.5 mm	60 mm	54 mm	9 mm	Z2	0198 45 60	250/500
5 mm	16 mm	10 mm	10 mm	Z2	0198 5 16	500
5 mm	17 mm	11 mm	10 mm	Z2	0198 5 17	500
5 mm	20 mm	14 mm	10 mm	Z2	0198 5 20	500/1000
5 mm	25 mm	19 mm	10 mm	Z2	0198 5 25	500/1000
5 mm	30 mm	24 mm	10 mm	Z2	0198 5 30	500/1000
5 mm	35 mm	29 mm	10 mm	Z2	0198 5 35	500
5 mm	40 mm	34 mm	10 mm	Z2	0198 5 40	500/1000

Continuation **WÜPOFAST®**, blue galvanised Particle board screw

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
5 mm	45 mm	39 mm	10 mm	Z2	0198 5 45	200/250/500
5 mm	50 mm	44 mm	10 mm	Z2	0198 5 50	250/500
5 mm	55 mm	49 mm	10 mm	Z2	0198 5 55	250/500
5 mm	60 mm	54 mm	10 mm	Z2	0198 5 60	200/250
5 mm	65 mm	59 mm	10 mm	Z2	0198 5 65	200
5 mm	70 mm	64 mm	10 mm	Z2	0198 5 70	200
5 mm	80 mm	74 mm	10 mm	Z2	0198 5 80	100/200
6 mm	40 mm	33 mm	12 mm	Z3	0198 6 40	250/500
6 mm	45 mm	38 mm	12 mm	Z3	0198 6 45	250
6 mm	50 mm	43 mm	12 mm	Z3	0198 6 50	250
6 mm	55 mm	48 mm	12 mm	Z3	0198 6 55	250
6 mm	60 mm	53 mm	12 mm	Z3	0198 6 60	200/500
6 mm	70 mm	63 mm	12 mm	Z3	0198 6 70	200
6 mm	80 mm	73 mm	12 mm	Z3	0198 6 80	100/200

WÜPOFAST®, blue galvanised Particle board screw

Steel, blue galvanised, full thread, pan head, PZ recessed head



- Plastic slide coating
- Bending angle
- Breaking torque
- Screw-in torque
- 25° tip

Material	Steel
Surface	Zinc plated

Nominal diameter (d)	Length (l)	Head diameter (d _h)	Internal drive	RoHS-compliant	Art. no.	P. Qty.
3 mm	10 mm	6 mm	Z1		0196 3 10	1000
3 mm	12 mm	6 mm	Z1		0196 3 12	1000/3000
3 mm	13 mm	6 mm	Z1		0196 3 13	1000/2000
3 mm	15 mm	6 mm	Z1		0196 3 15	1000/5000
3 mm	16 mm	6 mm	Z1		0196 3 16	1000
3 mm	17 mm	6 mm	Z1		0196 3 17	1000/2000
3 mm	20 mm	6 mm	Z1		0196 3 20	1000/2500
3 mm	25 mm	6 mm	Z1		0196 3 25	1000/2000
3 mm	30 mm	6 mm	Z1		0196 3 30	1000/2500
3 mm	35 mm	6 mm	Z1		0196 3 35	1000
3.5 mm	12 mm	7 mm	Z2		0196 35 12	1000/5000
3.5 mm	13 mm	7 mm	Z2		0196 35 13	1000/2000
3.5 mm	15 mm	7 mm	Z2		0196 35 15	1000/5000
3.5 mm	16 mm	7 mm	Z2		0196 35 16	1000/5000
3.5 mm	17 mm	7 mm	Z2		0196 35 17	1000
3.5 mm	20 mm	7 mm	Z2		0196 35 20	1000/2000
3.5 mm	25 mm	7 mm	Z2		0196 35 25	1000/2000
3.5 mm	30 mm	7 mm	Z2		0196 35 30	1000/2000
3.5 mm	35 mm	7 mm	Z2	Yes	0196 35 35	1000
3.5 mm	40 mm	7 mm	Z2		0196 35 40	500/1000

Nominal diameter (d)	Length (l)	Head diameter (d _h)	Internal drive	RoHS-compliant	Art. no.	P. Qty.
4 mm	12 mm	8 mm	Z2		0196 4 12	1000/2000
4 mm	13 mm	8 mm	Z2	Yes	0196 4 13	1000
4 mm	15 mm	8 mm	Z2		0196 4 15	1000/2000
4 mm	16 mm	8 mm	Z2		0196 4 16	1000/2000
4 mm	17 mm	8 mm	Z2		0196 4 17	1000/2000
4 mm	20 mm		Z2		0196 84 20	2000
4 mm	20 mm	8 mm	Z2		0196 4 20	1000/2000
4 mm	25 mm	8 mm	Z2		0196 4 25	1000/2000
4 mm	30 mm	8 mm	Z2		0196 4 30	500/2000
4 mm	35 mm	8 mm	Z2		0196 4 35	500/1000
4 mm	40 mm	8 mm	Z2		0196 4 40	250/500/1000
4 mm	45 mm	8 mm	Z2		0196 4 45	250/500/1000
4 mm	50 mm	8 mm	Z2		0196 4 50	250/500/1000
4 mm	60 mm	8 mm	Z2		0196 4 60	250/500
4.5 mm	13 mm	9 mm	Z2		0196 45 13	500
4.5 mm	15 mm	9 mm	Z2		0196 45 15	500/2000
4.5 mm	16 mm	9 mm	Z2		0196 45 16	500/2000
4.5 mm	20 mm	9 mm	Z2		0196 45 20	500/2000
4.5 mm	25 mm	9 mm	Z2		0196 45 25	500/1000
4.5 mm	30 mm	9 mm	Z2		0196 45 30	500/1000
4.5 mm	35 mm	9 mm	Z2		0196 45 35	500/1000
4.5 mm	40 mm	9 mm	Z2		0196 45 40	250/500/1000
4.5 mm	45 mm	9 mm	Z2		0196 45 45	250/500/1000
4.5 mm	50 mm	9 mm	Z2		0196 45 50	250/750
4.5 mm	60 mm	9 mm	Z2		0196 45 60	250/500
4.5 mm	70 mm	9 mm	Z2		0196 45 70	200
5 mm	16 mm	10 mm	Z2		0196 5 16	500/1000
5 mm	17 mm	10 mm	Z2		0196 5 17	500/1000
5 mm	20 mm	10 mm	Z2		0196 5 20	500/1000
5 mm	22 mm	10 mm	Z2		0196 5 22	4000
5 mm	25 mm	10 mm	Z2		0196 5 25	500/1000
5 mm	30 mm	10 mm	Z2		0196 5 30	500/1000
5 mm	35 mm	10 mm	Z2		0196 5 35	500
5 mm	40 mm	10 mm	Z2		0196 5 40	500/1000
5 mm	45 mm		Z2		0196 85 45	5000
5 mm	45 mm	10 mm	Z2		0196 5 45	250/500
5 mm	50 mm	10 mm	Z2		0196 5 50	250/500
5 mm	55 mm	10 mm	Z2		0196 5 55	250/500
5 mm	60 mm	10 mm	Z2		0196 5 60	250/500
5 mm	70 mm	10 mm	Z2		0196 5 70	200
6 mm	40 mm	12 mm	Z3		0196 6 40	250/500
6 mm	45 mm	12 mm	Z3		0196 6 45	250
6 mm	50 mm	12 mm	Z3		0196 6 50	250
6 mm	55 mm	12 mm	Z3		0196 6 55	250
6 mm	60 mm	12 mm	Z3		0196 6 60	200/250
6 mm	70 mm	12 mm	Z3		0196 6 70	200
6 mm	80 mm	12 mm	Z3		0196 6 80	100

Not for outdoor use

WÜPOFAST®, blue galvanised Particle board screw

With combination slot. Blue galvanised steel

- Material: Case-hardened steel
- Surface: Galvanised, plastic-coated
- Head: Pan head, Z recessed head
- Thread almost up to head



WÜPO

Material	Steel
Surface	Zinc plated

Nominal diameter (d)	Length (l)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3.5 mm	25 mm	7 mm	Z2+slot	0172 35 25	250
3.5 mm	30 mm	7 mm	Z2+slot	0172 35 30	250
3.5 mm	35 mm	7 mm	Z2+slot	0172 35 35	250
3.5 mm	40 mm	7 mm	Z2+slot	0172 35 40	500
3.5 mm	45 mm	7 mm	Z2+slot	0172 35 45	500
3.5 mm	50 mm	7 mm	Z2+slot	0172 35 50	500
4 mm	16 mm	8 mm	Z2+slot	0172 4 16	250
4 mm	20 mm	8 mm	Z2+slot	0172 4 20	250
4 mm	25 mm	8 mm	Z2+slot	0172 4 25	1000
4 mm	30 mm	8 mm	Z2+slot	0172 4 30	250/500
4 mm	35 mm	8 mm	Z2+slot	0172 4 35	250/500
4 mm	40 mm	8 mm	Z2+slot	0172 4 40	250/500
4 mm	45 mm	8 mm	Z2+slot	0172 4 45	250/500
4 mm	50 mm	8 mm	Z2+slot	0172 4 50	250/500
4 mm	60 mm	8 mm	Z2+slot	0172 4 60	250
4 mm	70 mm	8 mm	Z2+slot	0172 4 70	250
4.5 mm	30 mm	9 mm	Z2+slot	0172 45 30	250/500
4.5 mm	35 mm	9 mm	Z2+slot	0172 45 35	250/500
4.5 mm	40 mm	9 mm	Z2+slot	0172 45 40	250/500
4.5 mm	45 mm	9 mm	Z2+slot	0172 45 45	250/500
4.5 mm	50 mm	9 mm	Z2+slot	0172 45 50	250
5 mm	35 mm	10 mm	Z2+slot	0172 5 35	250/500
5 mm	40 mm	10 mm	Z2+slot	0172 5 40	250/500
5 mm	45 mm	10 mm	Z2+slot	0172 5 45	250
5 mm	50 mm	10 mm	Z2+slot	0172 5 50	250
5 mm	60 mm	10 mm	Z2+slot	0172 5 60	250
5 mm	70 mm	10 mm	Z2+slot	0172 5 70	250
5 mm	80 mm	10 mm	Z2+slot	0172 5 80	250
6 mm	40 mm	12 mm	Z3+slot	0172 6 40	250
6 mm	50 mm	12 mm	Z3+slot	0172 6 50	250
6 mm	60 mm	12 mm	Z3+slot	0172 6 60	250
6 mm	80 mm	12 mm	Z3+slot	0172 6 80	250

WÜPOFAST®, blue galvanised Particle board screw

Steel, blue galvanised, partial thread, countersunk head, PZ recessed head.



- Plastic slide coating
- Bending angle
- Breaking torque
- Screw-in torque
- 25° tip

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3.5 mm	25 mm	17 mm	7 mm	Z2	0198 135 25	1000
3.5 mm	30 mm	17 mm	7 mm	Z2	0198 135 30	1000
3.5 mm	35 mm	22 mm	7 mm	Z2	0198 135 35	1000
3.5 mm	40 mm	24 mm	7 mm	Z2	0198 135 40	500
3.5 mm	45 mm	30 mm	7 mm	Z2	0198 135 45	500
3.5 mm	50 mm	30 mm	7 mm	Z2	0198 135 50	500
4 mm	25 mm	16 mm	8 mm	Z2	0198 14 25	1000
4 mm	30 mm	18 mm	8 mm	Z2	0198 14 30	500/1000
4 mm	35 mm	21 mm	8 mm	Z2	0198 14 35	500
4 mm	40 mm	24 mm	8 mm	Z2	0198 14 40	500
4 mm	45 mm	29 mm	8 mm	Z2	0198 14 45	500/1000
4 mm	50 mm	30 mm	8 mm	Z2	0198 14 50	500/1000
4 mm	55 mm	34 mm	8 mm	Z2	0198 14 55	250
4 mm	60 mm	34 mm	8 mm	Z2	0198 14 60	250/1000
4 mm	70 mm	39 mm	8 mm	Z2	0198 14 70	200/500
4.5 mm	35 mm	21 mm	9 mm	Z2	0198 145 35	500
4.5 mm	40 mm	24 mm	9 mm	Z2	0198 145 40	500
4.5 mm	45 mm	28 mm	9 mm	Z2	0198 145 45	500/1000
4.5 mm	50 mm	30 mm	9 mm	Z2	0198 145 50	250/1000
4.5 mm	60 mm	35 mm	9 mm	Z2	0198 145 60	250
4.5 mm	65 mm	38 mm	9 mm	Z2	0198 145 65	200
4.5 mm	70 mm	40 mm	9 mm	Z2	0198 145 70	200/500
4.5 mm	80 mm	50 mm	9 mm	Z2	0198 145 80	200/400
5 mm	30 mm	20 mm	10 mm	Z2	0198 15 30	500/1000
5 mm	35 mm	24 mm	10 mm	Z2	0198 15 35	500/1500
5 mm	40 mm	24 mm	10 mm	Z2	0198 15 40	500
5 mm	45 mm	30 mm	10 mm	Z2	0198 15 45	250
5 mm	50 mm	30 mm	10 mm	Z2	0198 15 50	250/500
5 mm	55 mm	35 mm	10 mm	Z2	0198 15 55	200/250
5 mm	60 mm	35 mm	10 mm	Z2	0198 15 60	250/500
5 mm	70 mm	40 mm	10 mm	Z2	0198 15 70	200
5 mm	80 mm	50 mm	10 mm	Z2	0198 15 80	100/200
5 mm	90 mm	54 mm	10 mm	Z2	0198 15 90	100
5 mm	100 mm	60 mm	10 mm	Z2	0198 15 100	100/200
5 mm	110 mm	70 mm	10 mm	Z2	0198 15 110	100
5 mm	120 mm	70 mm	10 mm	Z2	0198 15 120	100/250
6 mm	40 mm	24 mm	12 mm	Z3	0198 16 40	250
6 mm	45 mm	30 mm	12 mm	Z3	0198 16 45	250
6 mm	50 mm	30 mm	12 mm	Z3	0198 16 50	250
6 mm	60 mm	35 mm	12 mm	Z3	0198 16 60	200

Continuation **WÜPOFAST®**, blue galvanised Particle board screw

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
6 mm	70 mm	42 mm	12 mm	Z3	0198 16 70	200
6 mm	80 mm	50 mm	12 mm	Z3	0198 16 80	100
6 mm	90 mm	56 mm	12 mm	Z3	0198 16 90	100/200
6 mm	100 mm	60 mm	12 mm	Z3	0198 16 100	100
6 mm	110 mm	70 mm	12 mm	Z3	0198 16 110	100
6 mm	120 mm	70 mm	12 mm	Z3	0198 16 120	100/200
6 mm	140 mm	70 mm	12 mm	Z3	0198 16 140	100/200
6 mm	150 mm	70 mm	12 mm	Z3	0198 16 150	100
6 mm	160 mm	70 mm	12 mm	Z3	0198 16 160	100/200
6 mm	180 mm	70 mm	12 mm	Z3	0198 16 180	100
6 mm	200 mm	70 mm	12 mm	Z3	0198 16 200	100

Not for outdoor use

WÜPOFAST®, blue galvanised Particle board screw

Steel, blue galvanised, partial thread, pan head, recessed head, PZ.



- Plastic slide coating
- Bending angle
- Breaking torque
- Screw-in torque
- 25° tip

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
4.5 mm	60 mm	35 mm	9 mm	Z2	0196 145 60	250
4.5 mm	70 mm	40 mm	9 mm	Z2	0196 145 70	200
5 mm	80 mm	50 mm	10 mm	Z2	0196 15 80	100
5 mm	100 mm	60 mm	10 mm	Z2	0196 15 100	100
6 mm	90 mm	56 mm	12 mm	Z3	0196 16 90	500
6 mm	100 mm	60 mm	12 mm	Z3	0196 16 100	100/200

Not for outdoor use

WÜPOFAST® brass-plated Particle board screw

Brass-plated steel, full thread, raised countersunk head, PZ. Take the use of new materials into account. New innovative manufacturing and testing process – consistent high quality for professionals.



- Pozidrive recessed head
- Plastic slide coating
- Bending angle
- Breaking torque
- Screw-in torque

Nominal diameter (d)	3.5 mm
Length (l)	20 mm
Thread length (lg)	16 mm
Head diameter (d _h)	7 mm
Internal drive	Z2
Material	Steel
Surface	Brass plated
RoHS-compliant	Yes

Art. no. 0195 335 20

P. Qty.: 4000

Not for outdoor use

WÜPOFAST® nickel-plated Particle board screw

Nickel-plated steel, full thread, raised countersunk head, PZ. Manufacturing and testing process ensures consistent high quality for professionals.



- Pozidrive recessed head
- Plastic slide coating
- Bending angle
- Breaking torque
- Screw-in torque

Material	Steel
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3 mm	16 mm	13 mm	6 mm	Z1	0195 23 16	1000
3 mm	17 mm	14 mm	6 mm	Z1	0195 23 17	1000
3 mm	20 mm	17 mm	6 mm	Z1	0195 23 20	1000
3 mm	25 mm	22 mm	6 mm	Z1	0195 23 25	1000
3 mm	30 mm	27 mm	6 mm	Z1	0195 23 30	1000
3 mm	35 mm	32 mm	6 mm	Z1	0195 23 35	1000
3.5 mm	16 mm	12 mm	7 mm	Z2	0195 235 16	1000
3.5 mm	17 mm	13 mm	7 mm	Z2	0195 235 17	1000
3.5 mm	20 mm	16 mm	7 mm	Z2	0195 235 20	1000
3.5 mm	25 mm	21 mm	7 mm	Z2	0195 235 25	1000
3.5 mm	30 mm	26 mm	7 mm	Z2	0195 235 30	1000
3.5 mm	35 mm	31 mm	7 mm	Z2	0195 235 35	1000

Continuation **WÜPOFAST®** nickel-plated Particle board screw

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3.5 mm	40 mm	36 mm	7 mm	Z2	0195 235 40	500
4 mm	16 mm	11.5 mm	8 mm	Z2	0195 24 16	1000/2000
4 mm	20 mm	15.5 mm	8 mm	Z2	0195 24 20	1000
4 mm	25 mm	20.5 mm	8 mm	Z2	0195 24 25	1000
4 mm	30 mm	25.5 mm	8 mm	Z2	0195 24 30	1000
4 mm	35 mm	30.5 mm	8 mm	Z2	0195 24 35	500
4 mm	40 mm	35.5 mm	8 mm	Z2	0195 24 40	500
4.5 mm	40 mm	35 mm	9 mm	Z2	0195 245 40	500
4.5 mm	45 mm	40 mm	9 mm	Z2	0195 245 45	500
4.5 mm	50 mm	45 mm	9 mm	Z2	0195 245 50	250
4.5 mm	60 mm	55 mm	9 mm	Z2	0195 245 60	250
5 mm	40 mm	34.5 mm	10 mm	Z2	0195 25 40	500
5 mm	50 mm	44.5 mm	10 mm	Z2	0195 25 50	250
5 mm	60 mm	54.5 mm	10 mm	Z2	0195 25 60	250

Not for outdoor use

WÜPOFAST® burnished Particle board screw

Steel, burnished, full thread, countersunk head, PZ.

Take the use of new materials into account. New innovative manufacturing and testing process – consistent high quality for professionals.



- Pozidrive recessed head
- Plastic slide coating
- Bending angle
- Breaking torque
- Screw-in torque

Material	Steel
Surface	Burnished

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3 mm	16 mm	13 mm	6 mm	Z1	0183 3 16	1000
3 mm	20 mm	17 mm	6 mm	Z1	0183 3 20	1000
3 mm	25 mm	22 mm	6 mm	Z1	0183 3 25	1000
3.5 mm	16 mm	12 mm	7 mm	Z2	0183 35 16	1000
3.5 mm	20 mm	16 mm	7 mm	Z2	0183 35 20	1000
3.5 mm	25 mm	21 mm	7 mm	Z2	0183 35 25	1000
3.5 mm	30 mm	26 mm	7 mm	Z2	0183 35 30	1000
3.5 mm	35 mm	31 mm	7 mm	Z2	0183 35 35	1000
3.5 mm	40 mm	36 mm	7 mm	Z2	0183 35 40	500
3.5 mm	50 mm	46 mm	7 mm	Z2	0183 35 50	500
4 mm	13 mm	8.5 mm	8 mm	Z2	0183 4 13	1000
4 mm	30 mm	25.5 mm	8 mm	Z2	0183 4 30	500
4 mm	35 mm	30.5 mm	8 mm	Z2	0183 4 35	500
4 mm	40 mm	35.5 mm	8 mm	Z2	0183 4 40	500
4 mm	50 mm	45.5 mm	8 mm	Z2	0183 4 50	500

Not for outdoor use

WÜPOFAST® burnished Particle board screw

Steel, burnished, full thread, raised countersunk head, PZ. Take the use of new materials into account. New innovative manufacturing and testing process – consistent high quality for professionals.



- Pozidrive recessed head
- Plastic slide coating
- Bending angle
- Breaking torque
- Screw-in torque

Material	Steel
Surface	Burnished

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3 mm	20 mm	17 mm	6 mm	Z1	0195 03 20	1000
3 mm	25 mm	22 mm	6 mm	Z1	0195 03 25	1000
3 mm	30 mm	27 mm	6 mm	Z1	0195 03 30	1000
3.5 mm	15 mm	11 mm	7 mm	Z2	0195 035 15	1000
3.5 mm	16 mm	12 mm	7 mm	Z2	0195 035 16	1000
3.5 mm	20 mm	16 mm	7 mm	Z2	0195 035 20	1000
3.5 mm	25 mm	21 mm	7 mm	Z2	0195 035 25	1000
3.5 mm	35 mm	31 mm	7 mm	Z2	0195 035 35	1000
3.5 mm	40 mm	36 mm	7 mm	Z2	0195 035 40	500
3.5 mm	45 mm	41 mm	7 mm	Z2	0195 035 45	1000
3.5 mm	50 mm	46 mm	7 mm	Z2	0195 035 50	500
4 mm	30 mm	25.5 mm	8 mm	Z2	0195 04 30	500
4 mm	35 mm	30.5 mm	8 mm	Z2	0195 04 35	500
4 mm	40 mm	35.5 mm	8 mm	Z2	0195 04 40	500
4 mm	45 mm	40.5 mm	8 mm	Z2	0195 04 45	500
4.5 mm	50 mm	45 mm	9 mm	Z2	0195 045 50	250

Not for outdoor use

WÜPOFAST®, yellow galvanised Particle board screw

Steel, yellow galvanised, full thread countersunk head PZ. Take the use of new materials into account. New innovative manufacturing and testing process – consistent high quality for professionals.



- Pozidrive recessed head
- Plastic slide coating
- Bending angle
- Breaking torque
- Screw-in torque

Material	Steel
Surface	Zinc plated yellow

Continuation **WÜPOFAST®**, yellow galvanised Particle board screw

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3 mm	10 mm	7 mm	6 mm	Z1	0186 3 10	1000
3 mm	13 mm	10 mm	6 mm	Z1	0186 3 13	1000
3 mm	15 mm	12 mm	6 mm	Z1	0186 3 15	1000
3 mm	16 mm	13 mm	6 mm	Z1	0186 3 16	1000
3 mm	17 mm	14 mm	6 mm	Z1	0186 3 17	1000
3 mm	30 mm	27 mm	6 mm	Z1	0186 3 30	1000
3 mm	35 mm	32 mm	6 mm	Z1	0186 3 35	1000
3 mm	40 mm	37 mm	6 mm	Z1	0186 3 40	500
3.5 mm	12 mm	8 mm	7 mm	Z2	0186 35 12	1000
3.5 mm	13 mm	9 mm	7 mm	Z2	0186 35 13	1000
3.5 mm	20 mm	16 mm	7 mm	Z2	0186 35 20	1000
3.5 mm	35 mm	31 mm	7 mm	Z2	0186 35 35	1000
3.5 mm	50 mm	46 mm	7 mm	Z2	0186 35 50	500
4 mm	12 mm	7.5 mm	8 mm	Z2	0186 4 12	1000
4 mm	13 mm	8.5 mm	8 mm	Z2	0186 4 13	1000
4 mm	15 mm	10.5 mm	8 mm	Z2	0186 4 15	1000
4 mm	17 mm	12.5 mm	8 mm	Z2	0186 4 17	1000
4 mm	30 mm	25.5 mm	8 mm	Z2	0186 4 30	500
4 mm	35 mm	30.5 mm	8 mm	Z2	0186 4 35	500
4 mm	45 mm	40.5 mm	8 mm	Z2	0186 4 45	500
4 mm	55 mm	50.5 mm	8 mm	Z2	0186 4 55	250
4.5 mm	15 mm	10 mm	9 mm	Z2	0186 45 15	500
4.5 mm	16 mm	11 mm	9 mm	Z2	0186 45 16	500
4.5 mm	25 mm	20 mm	9 mm	Z2	0186 45 25	500
4.5 mm	30 mm	25 mm	9 mm	Z2	0186 45 30	500
4.5 mm	45 mm	40 mm	9 mm	Z2	0186 45 45	500
4.5 mm	55 mm	50 mm	9 mm	Z2	0186 45 55	250
5 mm	16 mm	10.5 mm	10 mm	Z2	0186 5 16	500
5 mm	20 mm	14.5 mm	10 mm	Z2	0186 5 20	500
5 mm	25 mm	19.5 mm	10 mm	Z2	0186 5 25	500
5 mm	55 mm	49.5 mm	10 mm	Z2	0186 5 55	250
6 mm	40 mm	23 mm	12 mm	Z3	0186 6 40	250
6 mm	45 mm	33 mm	12 mm	Z3	0186 6 45	250
6 mm	50 mm	38 mm	12 mm	Z3	0186 6 50	250
6 mm	60 mm	53 mm	12 mm	Z3	0186 6 60	200

Not for outdoor use

WÜPOFAST®, yellow galvanised Particle board screw

Steel yellow galvanised, partial thread, PZ. Take the use of new materials into account. New innovative manufacturing and testing process – consistent high quality for professionals.



- Pozidrive recessed head
- Plastic slide coating
- Bending angle
- Breaking torque
- Screw-in torque

Material	Steel
Surface	Zinc plated yellow

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3.5 mm	25 mm	17 mm	7 mm	Z2	0186 135 25	1000
3.5 mm	35 mm	22 mm	7 mm	Z2	0186 135 35	1000
3.5 mm	40 mm	24 mm	7 mm	Z2	0186 135 40	500
3.5 mm	50 mm	30 mm	7 mm	Z2	0186 135 50	500
4 mm	30 mm	18 mm	8 mm	Z2	0186 14 30	500
4 mm	45 mm	29 mm	8 mm	Z2	0186 14 45	500
4 mm	55 mm	34 mm	8 mm	Z2	0186 14 55	250
4 mm	60 mm	34 mm	8 mm	Z2	0186 14 60	250
4.5 mm	35 mm	21 mm	9 mm	Z2	0186 145 35	500
4.5 mm	80 mm	50 mm	9 mm	Z2	0186 145 80	200
5 mm	30 mm	20 mm	10 mm	Z2	0186 15 30	500
5 mm	35 mm	24 mm	10 mm	Z2	0186 15 35	500
5 mm	40 mm	24 mm	10 mm	Z2	0186 15 40	500
5 mm	45 mm	30 mm	10 mm	Z2	0186 15 45	250
5 mm	55 mm	35 mm	10 mm	Z2	0186 15 55	250
5 mm	60 mm	35 mm	10 mm	Z2	0186 15 60	250
5 mm	70 mm	40 mm	10 mm	Z2	0186 15 70	200
5 mm	110 mm	70 mm	10 mm	Z2	0186 15 110	100
5 mm	120 mm	70 mm	10 mm	Z2	0186 15 120	100
6 mm	40 mm	24 mm	12 mm	Z3	0186 16 40	250
6 mm	60 mm	35 mm	12 mm	Z3	0186 16 60	200
6 mm	70 mm	42 mm	12 mm	Z3	0186 16 70	200
6 mm	80 mm	50 mm	12 mm	Z3	0186 16 80	100
6 mm	90 mm	56 mm	12 mm	Z3	0186 16 90	100
6 mm	140 mm	70 mm	12 mm	Z3	0186 16 140	100
6 mm	150 mm	70 mm	12 mm	Z3	0186 16 150	100
6 mm	160 mm	70 mm	12 mm	Z3	0186 16 160	100
6 mm	180 mm	70 mm	12 mm	Z3	0186 16 180	100

Not for outdoor use

WÜPOFAST® A2 Particle board screw

Stainless steel A2, full thread, raised countersunk head, PZ

- Wüpo particle board screws meet the heightened requirements brought about through the use of new materials and modern machining techniques.
- No need for pre-drilling
- The thin bolt core creates a large pull-out strength and low material deformation



WÜPO

Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3 mm	12 mm	8.5 mm	5.8 mm	Z1	0182 23 12	200
3 mm	15 mm	11.5 mm	5.8 mm	Z1	0182 23 15	200
3 mm	17 mm	13.5 mm	5.8 mm	Z1	0182 23 17	200
3 mm	20 mm	16.5 mm	5.8 mm	Z1	0182 23 20	200

Continuation **WÜPOFAST® A2 Particle board screw**

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3.5 mm	15 mm	11 mm	6.8 mm	Z2	0182 235 15	200
3.5 mm	20 mm	16 mm	6.8 mm	Z2	0182 235 20	200
3.5 mm	25 mm	21 mm	6.8 mm	Z2	0182 235 25	200
3.5 mm	30 mm	26 mm	6.8 mm	Z2	0182 235 30	200
3.5 mm	35 mm	31 mm	6.8 mm	Z2	0182 235 35	200
3.5 mm	40 mm	36 mm	6.8 mm	Z2	0182 235 40	200
4 mm	20 mm	15.5 mm	7.8 mm	Z2	0182 24 20	200/1000
4 mm	25 mm	20.5 mm	7.8 mm	Z2	0182 24 25	200
4 mm	30 mm	25.5 mm	7.8 mm	Z2	0182 24 30	200
4 mm	35 mm	30.5 mm	7.8 mm	Z2	0182 24 35	200
4 mm	40 mm	35.5 mm	7.8 mm	Z2	0182 24 40	200
4 mm	45 mm	40.5 mm	7.8 mm	Z2	0182 24 45	100
4 mm	50 mm	45.5 mm	7.8 mm	Z2	0182 24 50	100
5 mm	70 mm	64.5 mm	9.7 mm	Z2	0182 25 70	200
5 mm	80 mm	74.5 mm	9.7 mm	Z2	0182 25 80	100

WÜPOFAST® A2 Particle board screw

A2 stainless steel. PZ.

Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes



WÜPO

Nominal diameter (d)	Length (l)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3 mm	16 mm	5.8 mm	Z1	0182 3 16	200/1000
3 mm	20 mm	5.8 mm	Z1	0182 3 20	200/1000
3 mm	25 mm	5.8 mm	Z1	0182 3 25	200/1000
3 mm	30 mm	5.8 mm	Z1	0182 3 30	200
3.5 mm	16 mm	6.8 mm	Z2	0182 35 16	200/1000
3.5 mm	20 mm	6.8 mm	Z2	0182 35 20	200/1000
3.5 mm	25 mm	6.8 mm	Z2	0182 35 25	200/1000
3.5 mm	30 mm	6.8 mm	Z2	0182 35 30	200/1000
3.5 mm	35 mm	6.8 mm	Z2	0182 35 35	200/1000
3.5 mm	40 mm	6.8 mm	Z2	0182 35 40	200/1000
4 mm	16 mm	7.8 mm	Z2	0182 4 16	200/1000
4 mm	20 mm	7.8 mm	Z2	0182 4 20	200/1000
4 mm	25 mm	7.8 mm	Z2	0182 4 25	200/1000
4 mm	30 mm	7.8 mm	Z2	0182 4 30	200
4 mm	35 mm	7.8 mm	Z2	0182 4 35	200/500
4 mm	40 mm	7.8 mm	Z2	0182 4 40	200/500
4 mm	45 mm	7.8 mm	Z2	0182 4 45	100
4 mm	50 mm	7.8 mm	Z2	0182 4 50	100/500
4 mm	55 mm	7.8 mm	Z2	0182 4 55	100
4.5 mm	35 mm	8.7 mm	Z2	0182 45 35	200
4.5 mm	40 mm	8.7 mm	Z2	0182 45 40	200
4.5 mm	45 mm	8.7 mm	Z2	0182 45 45	100
4.5 mm	50 mm	8.7 mm	Z2	0182 45 50	250/500
4.5 mm	60 mm	8.7 mm	Z2	0182 45 60	250

Nominal diameter (d)	Length (l)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
4.5 mm	65 mm	8.7 mm	Z2	0182 45 65	100
5 mm	20 mm	9.7 mm	Z2	0182 5 20	500
5 mm	30 mm	9.7 mm	Z2	0182 5 30	100/200
5 mm	35 mm	9.7 mm	Z2	0182 5 35	500
5 mm	40 mm	9.7 mm	Z2	0182 5 40	500
5 mm	50 mm	9.7 mm	Z2	0182 5 50	250/500
5 mm	60 mm	9.7 mm	Z2	0182 5 60	250/500
5 mm	70 mm	9.7 mm	Z2	0182 5 70	200
5 mm	80 mm	9.7 mm	Z2	0182 5 80	200
6 mm	40 mm	11.7 mm	Z3	0182 6 40	100/200
6 mm	50 mm	11.7 mm	Z3	0182 6 50	100
6 mm	60 mm	11.7 mm	Z3	0182 6 60	200
6 mm	70 mm	11.7 mm	Z3	0182 6 70	100
6 mm	80 mm	11.7 mm	Z3	0182 6 80	100

WÜPOFAST® A2 Particle board screw

Stainless steel A2, full thread, pan head, PZ

- WÜPO particle board screws meet the heightened requirements brought about through the use of new materials and modern machining techniques.
- No need for pre-drilling
- The thin bolt core creates a large pull-out strength and low material deformation



WÜPO

Head diameter (d _h)	7.8 mm
Internal drive	Z2
Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Art. no.	P. Qty.
4 mm	16 mm	14 mm	0182 14 16	200/1000
4 mm	20 mm	18 mm	0182 14 20	200/1000
4 mm	25 mm	23 mm	0182 14 25	200/500
4 mm	30 mm	28 mm	0182 14 30	200/500
4 mm	35 mm	33 mm	0182 14 35	200
4 mm	40 mm	38 mm	0182 14 40	200/400
4 mm	50 mm	48 mm	0182 14 50	100/1000

WÜPOFAST® A2 Particle board screw

Stainless steel A2, partial thread, countersunk head, PZ

- WÜPO particle board screws meet the heightened requirements brought about through the use of new materials and modern machining techniques.
- No need for pre-drilling
- The thin bolt core creates a large pull-out strength and low material deformation



WÜPO

Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Continuation **WÜPOFAST® A2 Particle board screw**

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3.5 mm	40 mm	24 mm	6.8 mm	Z2	0182 813 540	500
4 mm	40 mm	24 mm	7.8 mm	Z2	0182 814 40	500
4 mm	45 mm	29 mm	7.8 mm	Z2	0182 814 45	500
4 mm	50 mm	30 mm	7.8 mm	Z2	0182 814 50	500
4 mm	55 mm	34 mm	7.8 mm	Z2	0182 814 55	250
4 mm	60 mm	34 mm	7.8 mm	Z2	0182 814 60	250
4 mm	70 mm	39 mm	7.8 mm	Z2	0182 814 70	200
4.5 mm	50 mm	30 mm	8.7 mm	Z2	0182 814 550	250/500
4.5 mm	60 mm	35 mm	8.7 mm	Z2	0182 814 560	250
4.5 mm	70 mm	40 mm	8.7 mm	Z2	0182 814 570	200
4.5 mm	80 mm	50 mm	8.7 mm	Z2	0182 814 580	100
5 mm	40 mm	24 mm	9.7 mm	Z2	0182 815 40	500
5 mm	50 mm	30 mm	9.7 mm	Z2	0182 815 50	250
5 mm	60 mm	35 mm	9.7 mm	Z2	0182 815 60	250
5 mm	70 mm	40 mm	9.7 mm	Z2	0182 815 70	200
5 mm	80 mm	50 mm	9.7 mm	Z2	0182 815 80	100
5 mm	90 mm	54 mm	9.7 mm	Z2	0182 815 90	100
5 mm	100 mm	60 mm	9.7 mm	Z2	0182 815 100	100
6 mm	60 mm	35 mm	11.7 mm	Z3	0182 816 60	200
6 mm	80 mm	50 mm	11.7 mm	Z3	0182 816 80	100
6 mm	90 mm	56 mm	11.7 mm	Z3	0182 816 90	100
6 mm	100 mm	60 mm	11.7 mm	Z3	0182 816 100	100
6 mm	110 mm	70 mm	11.7 mm	Z3	0182 816 110	100
6 mm	120 mm	70 mm	11.7 mm	Z3	0182 816 120	100
6 mm	140 mm	70 mm	11.7 mm	Z3	0182 816 140	100

WÜPOFAST®, blue galvanised Back panel screw

Steel, blue galvanized

Double-threaded



Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Internal drive	Z2

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Art. no.	P. Qty.
3 mm	20 mm	16 mm	8 mm	0175 3 20	1000
3 mm	25 mm	21 mm	8 mm	0175 3 25	1000
3 mm	30 mm	27 mm	8 mm	0175 3 30	1000
3 mm	35 mm	32 mm	8 mm	0175 3 35	1000
4 mm	25 mm	23 mm	9.5 mm	0175 14 25	1000
4 mm	30 mm	28 mm	9.5 mm	0175 14 30	500/1500
4 mm	35 mm	33 mm	9.5 mm	0175 14 35	500/1000
4 mm	40 mm	37 mm	9.5 mm	0175 14 40	500/1000
4 mm	45 mm	41 mm	9.5 mm	0175 14 45	500/1000

WÜPOFAST®, blue galvanised Piano hinge screw

Steel, blue galvanized, small countersunk head

Nominal diameter (d)	3 mm
Head diameter (d _h)	5 mm
Internal drive	Z1
Material	Steel
Surface	Zinc plated



Length (l)	Art. no.	P. Qty.
10 mm	0199 3 10	1000
12 mm	0199 3 12	1000
16 mm	0199 3 16	1000
20 mm	0199 3 20	1000
25 mm	0199 3 25	1000

ECOFAST® Particle board screw

Galvanised steel, blue, partial thread, countersunk milling head, PZ drive.

- Milling head
- Thin shaft
- Thread and 25° tip



Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3 mm	20 mm	12 mm	6 mm	Z1	0171 13 20	1000
3 mm	25 mm	15 mm	6 mm	Z1	0171 13 25	1000
3 mm	30 mm	17 mm	6 mm	Z1	0171 13 30	1000
3 mm	35 mm	22 mm	6 mm	Z1	0171 13 35	1000
3 mm	40 mm	26 mm	6 mm	Z1	0171 13 40	500
3.5 mm	20 mm	12 mm	7 mm	Z2	0171 135 20	1000
3.5 mm	25 mm	15 mm	7 mm	Z2	0171 135 25	1000
3.5 mm	30 mm	17 mm	7 mm	Z2	0171 135 30	1000
3.5 mm	35 mm	22 mm	7 mm	Z2	0171 135 35	1000
3.5 mm	40 mm	22 mm	7 mm	Z2	0171 135 40	500
3.5 mm	45 mm	28 mm	7 mm	Z2	0171 135 45	500
3.5 mm	50 mm	30 mm	7 mm	Z2	0171 135 50	500
4 mm	20 mm	12 mm	8 mm	Z2	0171 14 20	1000
4 mm	25 mm	16 mm	8 mm	Z2	0171 14 25	1000
4 mm	30 mm	18 mm	8 mm	Z2	0171 14 30	500
4 mm	35 mm	21 mm	8 mm	Z2	0171 14 35	500
4 mm	40 mm	26 mm	8 mm	Z2	0171 14 40	500
4 mm	45 mm	27 mm	8 mm	Z2	0171 14 45	500
4 mm	50 mm	30 mm	8 mm	Z2	0171 14 50	500
4 mm	55 mm	33 mm	8 mm	Z2	0171 14 55	250
4 mm	60 mm	35 mm	8 mm	Z2	0171 14 60	250
4 mm	70 mm	40 mm	8 mm	Z2	0171 14 70	200
4.5 mm	35 mm	21 mm	9 mm	Z2	0171 145 35	500
4.5 mm	40 mm	24 mm	9 mm	Z2	0171 145 40	500
4.5 mm	45 mm	27 mm	9 mm	Z2	0171 145 45	500
4.5 mm	50 mm	30 mm	9 mm	Z2	0171 145 50	250
4.5 mm	60 mm	35 mm	9 mm	Z2	0171 145 60	250

Continuation **ECOFAST® Particle board screw**

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
4.5 mm	70 mm	40 mm	9 mm	Z2	0171 145 70	200
4.5 mm	80 mm	50 mm	9 mm	Z2	0171 145 80	200
5 mm	30 mm	20 mm	10 mm	Z2	0171 15 30	500
5 mm	35 mm	20 mm	10 mm	Z2	0171 15 35	500
5 mm	40 mm	25 mm	10 mm	Z2	0171 15 40	500
5 mm	45 mm	30 mm	10 mm	Z2	0171 15 45	250
5 mm	50 mm	30 mm	10 mm	Z2	0171 15 50	250
5 mm	60 mm	35 mm	10 mm	Z2	0171 15 60	250
5 mm	70 mm	40 mm	10 mm	Z2	0171 15 70	200
5 mm	80 mm	50 mm	10 mm	Z2	0171 15 80	100
5 mm	90 mm	54 mm	10 mm	Z2	0171 15 90	100
5 mm	100 mm	56 mm	10 mm	Z2	0171 15 100	100
6 mm	50 mm	30 mm	12 mm	Z3	0171 16 50	250
6 mm	60 mm	35 mm	12 mm	Z3	0171 16 60	200
6 mm	70 mm	42 mm	12 mm	Z3	0171 16 70	200
6 mm	80 mm	50 mm	12 mm	Z3	0171 16 80	100
6 mm	100 mm	60 mm	12 mm	Z3	0171 16 100	100
6 mm	120 mm	70 mm	12 mm	Z3	0171 16 120	100

Not for outdoor use.

ECOFAST® Particle board screw

Galvanised steel, yellow, partial thread, countersunk milling head, PZ drive. New innovative manufacturing and testing process guarantees consistent high quality for professionals.



- Milling head
- Thin shaft
- Thread and 25° tip

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
3 mm	20 mm	12 mm	6 mm	Z1	0171 23 20	1000
3 mm	30 mm	17 mm	6 mm	Z1	0171 23 30	1000
3 mm	35 mm	22 mm	6 mm	Z1	0171 23 35	1000
3 mm	40 mm	26 mm	6 mm	Z1	0171 23 40	500
3.5 mm	20 mm	12 mm	7 mm	Z2	0171 235 20	1000
3.5 mm	25 mm	15 mm	7 mm	Z2	0171 235 25	1000
3.5 mm	30 mm	17 mm	7 mm	Z2	0171 235 30	1000
3.5 mm	35 mm	22 mm	7 mm	Z2	0171 235 35	1000
3.5 mm	40 mm	22 mm	7 mm	Z2	0171 235 40	500
3.5 mm	50 mm	30 mm	7 mm	Z2	0171 235 50	500
4 mm	20 mm	12 mm	8 mm	Z2	0171 24 20	1000
4 mm	25 mm	16 mm	8 mm	Z2	0171 24 25	1000
4 mm	30 mm	18 mm	8 mm	Z2	0171 24 30	500
4 mm	35 mm	21 mm	8 mm	Z2	0171 24 35	500
4 mm	40 mm	26 mm	8 mm	Z2	0171 24 40	500
4 mm	45 mm	27 mm	8 mm	Z2	0171 24 45	500
4 mm	50 mm	30 mm	8 mm	Z2	0171 24 50	500
4 mm	60 mm	35 mm	8 mm	Z2	0171 24 60	250

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Internal drive	Art. no.	P. Qty.
4 mm	70 mm	40 mm	8 mm	Z2	0171 24 70	200
4.5 mm	35 mm	21 mm	9 mm	Z2	0171 245 35	500
4.5 mm	40 mm	25 mm	9 mm	Z2	0171 245 40	500
4.5 mm	45 mm	27 mm	9 mm	Z2	0171 245 45	500
4.5 mm	50 mm	30 mm	9 mm	Z2	0171 245 50	250
4.5 mm	60 mm	35 mm	9 mm	Z2	0171 245 60	250
4.5 mm	70 mm	40 mm	9 mm	Z2	0171 245 70	200
4.5 mm	80 mm	50 mm	9 mm	Z2	0171 245 80	200
5 mm	35 mm	20 mm	10 mm	Z2	0171 25 35	500
5 mm	40 mm	25 mm	10 mm	Z2	0171 25 40	500
5 mm	50 mm	30 mm	10 mm	Z2	0171 25 50	250
5 mm	60 mm	35 mm	10 mm	Z2	0171 25 60	250
5 mm	70 mm	40 mm	10 mm	Z2	0171 25 70	200
5 mm	80 mm	50 mm	10 mm	Z2	0171 25 80	100
5 mm	90 mm	54 mm	10 mm	Z2	0171 25 90	100
5 mm	100 mm	56 mm	10 mm	Z2	0171 25 100	100
6 mm	50 mm	30 mm	12 mm	Z3	0171 26 50	250
6 mm	60 mm	38 mm	12 mm	Z3	0171 26 60	200
6 mm	80 mm	48 mm	12 mm	Z3	0171 26 80	100
6 mm	100 mm	60 mm	12 mm	Z3	0171 26 100	100
6 mm	120 mm	70 mm	12 mm	Z3	0171 26 120	100

Not for outdoor use.

Dry wall screw with drill tip

With drill tip

- Tapping screw thread with ZEBRA plus drill tip
- For screwing gypsum plasterboard to metal profiles with a thickness of 0.75 – 2.25 mm
- Hardened, phosphated steel
- Trumpet head with Phillips drive PH 2



Material	Steel
Surface	Phosphated
RoHS-compliant	Yes
Head diameter (d _h)	8.5 mm
Internal drive	H2

Nominal diameter (d)	Length (l)	Art. no.	P. Qty.
3.5 mm	25 mm	0189 35 25	1000/2000
3.5 mm	35 mm	0189 35 35	1000
3.5 mm	45 mm	0189 35 45	1000
3.5 mm	55 mm	0189 35 55	1000
4.2 mm	75 mm	0189 42 75	500

Steel phosphated drill tip H collated

Material	Steel
Surface	Phosphated
RoHS-compliant	Yes
Nominal diameter (d)	3.5 mm
Head diameter (d _h)	8.5 mm
Internal drive	H2



Length (l)	Thread length (lg)	Screw-thread length with drill tip (b)	Art. no.	P. Qty.
25 mm	18 mm	21 mm	0179 435 25	1000
35 mm	28 mm	31 mm	0179 435 35	1000
45 mm	38 mm	41 mm	0179 435 45	1000



Dry wall screw with double-start thread

For screwing on metal substructures up to max. 1 mm

- Double-start thread with special needle tip
- Hardened, phosphated steel
- Bugle head with PH 2 cross recess drive

Internal drive	H2
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Nominal diameter (d)	Length (l)	Head diameter (d _h)	Art. no.	P. Qty.
3.5 mm	25 mm	8.4 mm	0189 035 25	1000
3.5 mm	35 mm	8.4 mm	0189 035 35	1000
3.5 mm	45 mm	8.4 mm	0189 035 45	1000
3.9 mm	19 mm	8.5 mm	0189 039 19	1000
3.9 mm	25 mm	8.5 mm	0189 039 25	1000
3.9 mm	30 mm	8.5 mm	0189 039 30	1000
3.9 mm	35 mm	8.5 mm	0189 039 35	1000
3.9 mm	45 mm	8.5 mm	0189 039 45	1000
3.9 mm	55 mm	8.5 mm	0189 039 55	1000
3.9 mm	65 mm	8.5 mm	0189 039 65	1000
4 mm	75 mm	8.5 mm	0189 04 75	500
5 mm	90 mm	8.5 mm	0189 05 90	500
5 mm	120 mm	8.5 mm	0189 05 120	250

Dry wall screw with coarse thread

With coarse thread

- For screwing on to wooden substructures
- Extremely deep threads with sharp tip
- Hardened, phosphated steel
- Trumpet head with Phillips drive PH 2



Material	Steel
Surface	Phosphated
RoHS-compliant	Yes
Head diameter (d _h)	8.5 mm
Internal drive	H2

Nominal diameter (d)	Length (l)	Art. no.	P. Qty.
3.9 mm	25 mm	0189 39 25	1000
3.9 mm	30 mm	0189 39 30	1000
3.9 mm	35 mm	0189 39 35	1000
3.9 mm	40 mm	0189 39 40	1000
3.9 mm	45 mm	0189 39 45	1000
3.9 mm	55 mm	0189 39 55	1000
3.9 mm	70 mm	0189 39 70	500
3.9 mm	90 mm	0189 39 90	500
5 mm	90 mm	0189 5 90	500
5 mm	100 mm	0189 5 100	250
5 mm	120 mm	0189 5 120	250

Gypsum plasterboard screw

For screwing plasterboard panels onto one another

- Sharp coarse thread
- Hardened, phosphated steel
- Countersunk head with Phillips drive PH 2



Material	Steel
Surface	Phosphated
RoHS-compliant	Yes
Nominal diameter (d)	5.5 mm
Length (l)	38 mm
Head diameter (d _h)	8 mm
Internal drive	H2

Art. no. 0189 655 38

P. Qty.: 500/1000

Stand connecting screw

Hardened, phosphated steel. Screw specially designed for sound-absorbing and dry construction.

- For connecting U-profiles, C-supports and other metal profiles on substructures up to 1 mm material thickness per component
- Double-threaded tapping screw thread



Nominal diameter (d)	3.9 mm
Length (l)	13.5 mm
Head diameter (d _h)	8 mm
Head height (k)	2.67 mm
Internal drive	H2
Material	Steel
Surface	Phosphated
RoHS-compliant	Yes

Art. no. 0189 335 13

P. Qty.: 1000

Cement board screw

For attaching cemented panels to metal substructures of up to 1 mm and to wooden substructures

- Hilo thread with special needle tip
- 60° milling head with Phillips drive PH 2
- Hardened, phosphated steel



Nominal diameter (d)	3.9 mm
Head diameter (d _h)	7 mm
Internal drive	H2
Material	Steel
Surface	Phosphated
RoHS-compliant	Yes

Length (l)	Thread length (lg)	Art. no.	P. Qty.
19 mm	14 mm	0189 239 19	1000
30 mm	25 mm	0189 239 30	1000
45 mm	30 mm	0189 239 45	1000
50 mm	35 mm	0189 239 50	500
55 mm	35 mm	0189 239 55	500
65 mm	40 mm	0189 239 65	500

Dry wall screw Top head

The patented dry wall screw for screwing plaster-board panels onto metal substructures (C-supports and U-profiles) and wood substructures



- Patented head shape prevents the screw head from fraying
- Smooth bedding of the screw thanks to a sharp-edged tip and threads
- Screws in fast thanks to sharp-edged threads
- Hardened, phosphated steel
- Philips drive PH 2

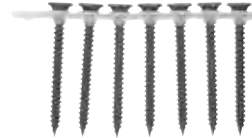
Head diameter (d _h)	8.5 mm
Internal drive	H2
Material	Steel
Surface	Phosphated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Art. no.	P. Qty.
3.5 mm	25 mm	0189 635 25	1000
3.5 mm	35 mm	0189 635 35	1000
3.5 mm	45 mm	0189 635 45	1000
4 mm	25 mm	0189 640 25	1000
4 mm	35 mm	0189 640 35	1000
4 mm	45 mm	0189 640 45	1000

Top head dry wall screw, collated

In magazine

- The patented dry wall screw for screwing plasterboard panels onto metal substructures (C-supports and U-profiles) and wood substructures
- Smooth bedding of the screw thanks to a sharp-edged tip and threads
- Screws in fast thanks to sharp threads



Head diameter (d _h)	8.5 mm
Internal drive	H2
Material	Steel
Surface	Phosphated

Nominal diameter (d)	Length (l)	Art. no.	P. Qty.
3.5 mm	25 mm	0179 935 25	1000
3.5 mm	35 mm	0179 935 35	1000
3.5 mm	45 mm	0179 935 45	1000
4 mm	25 mm	0179 940 25	1000
4 mm	35 mm	0179 940 35	1000
4 mm	45 mm	0179 940 45	1000

Pay attention to compatible machine type!

Wood screw, DIN 95 brass Raised countersunk head, slotted

DIN 95 brass chromed slotted

Internal drive	Slot
Material	Brass
Surface	Chrome plated



Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4 mm	20 mm	12 mm	7.5 mm	2.2 mm	0146 4 20	200
4 mm	25 mm	15 mm	7.5 mm	2.2 mm	0146 4 25	200
4 mm	30 mm	18 mm	7.5 mm	2.2 mm	0146 4 30	200
4 mm	35 mm	21 mm	7.5 mm	2.2 mm	0146 4 35	200
4 mm	40 mm	24 mm	7.5 mm	2.2 mm	0146 4 40	200
4 mm	45 mm	27 mm	7.5 mm	2.2 mm	0146 4 45	200
4 mm	50 mm	30 mm	7.5 mm	2.2 mm	0146 4 50	200
4 mm	60 mm	36 mm	7.5 mm	2.2 mm	0146 4 60	200
4.5 mm	30 mm	18 mm	8.3 mm	2.35 mm	0146 45 30	200
4.5 mm	35 mm	21 mm	8.3 mm	2.35 mm	0146 45 35	200
4.5 mm	40 mm	24 mm	8.3 mm	2.35 mm	0146 45 40	200
4.5 mm	45 mm	27 mm	8.3 mm	2.35 mm	0146 45 45	200
4.5 mm	50 mm	30 mm	8.3 mm	2.35 mm	0146 45 50	200
4.5 mm	60 mm	36 mm	8.3 mm	2.35 mm	0146 45 60	200
4.5 mm	80 mm				0146 45 80	500
5 mm	30 mm	18 mm	9.2 mm	2.5 mm	0146 5 30	200
5 mm	35 mm	21 mm	9.2 mm	2.5 mm	0146 5 35	200
5 mm	40 mm	24 mm	9.2 mm	2.5 mm	0146 5 40	200
5 mm	50 mm	30 mm	9.2 mm	2.5 mm	0146 5 50	200
5 mm	60 mm	36 mm	9.2 mm	2.5 mm	0146 5 60	200
5 mm	70 mm	42 mm	9.2 mm	2.5 mm	0146 5 70	200
5 mm	100 mm	60 mm	9.2 mm	2.5 mm	0146 5 100	200
5.5 mm	80 mm		10.2 mm	2.75 mm	0146 55 80	100
6 mm	40 mm	24 mm	11 mm	3 mm	0146 6 40	200
6 mm	50 mm	30 mm	11 mm	3 mm	0146 6 50	200
6 mm	60 mm	36 mm	11 mm	3 mm	0146 6 60	100
6 mm	70 mm	42 mm	11 mm	3 mm	0146 6 70	100
6 mm	80 mm	48 mm	11 mm	3 mm	0146 6 80	100
6 mm	90 mm		11 mm	3 mm	0146 6 90	100
6 mm	100 mm		11 mm	3 mm	0146 6 100	100



DIN 571 wood screw, blue coated Hexagon head

DIN 571, blue galvanized steel

- For solid wood connections
- Hexagon head for improved application of force when screwing in
- The wood screw forms its nut thread instead of cutting
- A core hole must be pre-drilled depending on the diameter and type of wood (hardwood)

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (thread for woodwork)	Head height (k)	External drive (s ₁)	Art. no.	P. Qty.
5 mm	40 mm	24 mm	3.5 mm	WS8	0192 5 40	200
5 mm	45 mm	27 mm	3.5 mm	WS8	0192 5 45	300
5 mm	50 mm	30 mm	3.5 mm	WS8	0192 5 50	200/500
5 mm	60 mm	36 mm	3.5 mm	WS8	0192 5 60	2000
6 mm	20 mm	12 mm	4 mm	WS10	0192 6 20	500/1000
6 mm	25 mm	15 mm	4 mm	WS10	0192 6 25	500
6 mm	30 mm	18 mm	4 mm	WS10	0192 6 30	200/1000
6 mm	35 mm	21 mm	4 mm	WS10	0192 6 35	200/600
6 mm	40 mm	24 mm	4 mm	WS10	0192 6 40	200
6 mm	45 mm	27 mm	4 mm	WS10	0192 6 45	200/500
6 mm	50 mm	30 mm	4 mm	WS10	0192 6 50	200

Nominal diameter (d)	Length (l)	Thread length (thread for woodwork)	Head height (k)	External drive (s ₁)	Art. no.	P. Qty.
6 mm	55 mm	33 mm	4 mm	WS10	0192 6 55	200
6 mm	60 mm	36 mm	4 mm	WS10	0192 6 60	100/200
6 mm	65 mm	39 mm	4 mm	WS10	0192 6 65	100
6 mm	70 mm	42 mm	4 mm	WS10	0192 6 70	100/200
6 mm	80 mm	48 mm	4 mm	WS10	0192 6 80	100/200
6 mm	90 mm	54 mm	4 mm	WS10	0192 6 90	50
6 mm	100 mm	60 mm	4 mm	WS10	0192 6 100	50/200
6 mm	110 mm	66 mm	4 mm	WS10	0192 6 110	50
6 mm	120 mm	72 mm	4 mm	WS10	0192 6 120	50
6 mm	140 mm	84 mm	4 mm	WS10	0192 6 140	100
8 mm	25 mm	15 mm	5.5 mm	WS13	0192 8 25	500
8 mm	30 mm	18 mm	5.5 mm	WS13	0192 8 30	200/500
8 mm	35 mm	21 mm	5.5 mm	WS13	0192 8 35	200/500
8 mm	40 mm	24 mm	5.5 mm	WS13	0192 8 40	100/500
8 mm	45 mm	27 mm	5.5 mm	WS13	0192 8 45	100
8 mm	50 mm	30 mm	5.5 mm	WS13	0192 8 50	100/200
8 mm	55 mm	33 mm	5.5 mm	WS13	0192 8 55	100
8 mm	60 mm	36 mm	5.5 mm	WS13	0192 8 60	100/200
8 mm	65 mm	39 mm	5.5 mm	WS13	0192 8 65	100/200
8 mm	70 mm	42 mm	5.5 mm	WS13	0192 8 70	100/200
8 mm	75 mm	42 mm	5.5 mm	WS13	0192 8 75	200
8 mm	80 mm	48 mm	5.5 mm	WS13	0192 8 80	50/100
8 mm	90 mm	54 mm	5.5 mm	WS13	0192 8 90	50/150
8 mm	100 mm	60 mm	5.5 mm	WS13	0192 8 100	50/100
8 mm	110 mm	66 mm	5.5 mm	WS13	0192 8 110	50
8 mm	120 mm	72 mm	5.5 mm	WS13	0192 8 120	50/100
8 mm	130 mm	78 mm	5.5 mm	WS13	0192 8 130	50
8 mm	140 mm	84 mm	5.5 mm	WS13	0192 8 140	50/100
8 mm	150 mm	90 mm	5.5 mm	WS13	0192 8 150	25/50
8 mm	160 mm	96 mm	5.5 mm	WS13	0192 8 160	50/100
8 mm	170 mm	102 mm	5.5 mm	WS13	0192 8 170	50
8 mm	180 mm	108 mm	5.5 mm	WS13	0192 8 180	50
8 mm	200 mm	120 mm	5.5 mm	WS13	0192 8 200	50
10 mm	30 mm	18 mm	7 mm	WS17	0192 10 30	100
10 mm	35 mm	21 mm	7 mm	WS17	0192 10 35	100
10 mm	40 mm	24 mm	7 mm	WS17	0192 10 40	100
10 mm	45 mm	27 mm	7 mm	WS17	0192 10 45	100
10 mm	50 mm	30 mm	7 mm	WS17	0192 10 50	50/100
10 mm	60 mm	36 mm	7 mm	WS17	0192 10 60	50/100
10 mm	70 mm	42 mm	7 mm	WS17	0192 10 70	50/100
10 mm	80 mm	48 mm	7 mm	WS17	0192 10 80	50/100
10 mm	90 mm	54 mm	7 mm	WS17	0192 10 90	25/50
10 mm	100 mm	60 mm	7 mm	WS17	0192 10 100	25/50
10 mm	110 mm	66 mm	7 mm	WS17	0192 10 110	25/75
10 mm	120 mm	72 mm	7 mm	WS17	0192 10 120	25/50
10 mm	130 mm	78 mm	7 mm	WS17	0192 10 130	25
10 mm	140 mm	84 mm	7 mm	WS17	0192 10 140	25/50
10 mm	150 mm	90 mm	7 mm	WS17	0192 10 150	50
10 mm	160 mm	96 mm	7 mm	WS17	0192 10 160	50
10 mm	170 mm	102 mm	7 mm	WS17	0192 10 170	50
10 mm	180 mm	108 mm	7 mm	WS17	0192 10 180	50
10 mm	190 mm	114 mm	7 mm	WS17	0192 10 190	50
10 mm	200 mm	120 mm	7 mm	WS17	0192 10 200	25/50

Continuation **DIN 571 wood screw, blue coated Hexagon head**

Nominal diameter (d)	Length (l)	Thread length (thread for woodwork)	Head height (k)	External drive (s ₁)	Art. no.	P. Qty.
10 mm	220 mm	132 mm	7 mm	WS17	0192 10 220	25
10 mm	240 mm	144 mm	7 mm	WS17	0192 10 240	25
10 mm	260 mm	156 mm	7 mm	WS17	0192 10 260	25
10 mm	280 mm	168 mm	7 mm	WS17	0192 10 280	25
10 mm	300 mm	180 mm	7 mm	WS17	0192 10 300	25
10 mm	320 mm	192 mm	7 mm	WS17	0192 10 320	25
10 mm	360 mm	216 mm	7 mm	WS17	0192 10 360	15
12 mm	40 mm	24 mm	8 mm	WS19	0192 12 40	50
12 mm	50 mm	30 mm	8 mm	WS19	0192 12 50	50/100
12 mm	60 mm	36 mm	8 mm	WS19	0192 12 60	50/100
12 mm	70 mm	42 mm	8 mm	WS19	0192 12 70	25/75
12 mm	80 mm	48 mm	8 mm	WS19	0192 12 80	25/100
12 mm	90 mm	54 mm	8 mm	WS19	0192 12 90	25/80
12 mm	100 mm	60 mm	8 mm	WS19	0192 12 100	25/50
12 mm	110 mm	66 mm	8 mm	WS19	0192 12 110	25
12 mm	120 mm	72 mm	8 mm	WS19	0192 12 120	50
12 mm	130 mm	78 mm	8 mm	WS19	0192 12 130	25
12 mm	140 mm	84 mm	8 mm	WS19	0192 12 140	50
12 mm	150 mm	90 mm	8 mm	WS19	0192 12 150	50
12 mm	160 mm	96 mm	8 mm	WS19	0192 12 160	50
12 mm	170 mm	102 mm	8 mm	WS19	0192 12 170	100
12 mm	180 mm	108 mm	8 mm	WS19	0192 12 180	50
12 mm	200 mm	120 mm	8 mm	WS19	0192 12 200	25
12 mm	220 mm	132 mm	8 mm	WS19	0192 12 220	25
12 mm	240 mm	144 mm	8 mm	WS19	0192 12 240	25/50
12 mm	260 mm	156 mm	8 mm	WS19	0192 12 260	25
12 mm	280 mm	168 mm	8 mm	WS19	0192 12 280	25
12 mm	300 mm	180 mm	8 mm	WS19	0192 12 300	25
12 mm	320 mm	192 mm	8 mm	WS19	0192 12 320	1/25
12 mm	380 mm	228 mm	8 mm	WS19	0192 12 380	10
12 mm	420 mm	252 mm	8 mm	WS19	0192 12 420	10
12 mm	440 mm	264 mm	8 mm	WS19	0192 12 440	10
12 mm	460 mm	276 mm	8 mm	WS19	0192 12 460	10
12 mm	520 mm	312 mm	8 mm	WS19	0192 12 520	25
12 mm	600 mm	360 mm	8 mm	WS19	0192 12 600	25
16 mm	70 mm	42 mm	10 mm	WS24	0192 16 70	25
16 mm	80 mm	48 mm	10 mm	WS24	0192 16 80	25
16 mm	90 mm	54 mm	10 mm	WS24	0192 16 90	25
16 mm	100 mm	60 mm	10 mm	WS24	0192 16 100	25
16 mm	110 mm	66 mm	10 mm	WS24	0192 16 110	25
16 mm	120 mm	72 mm	10 mm	WS24	0192 16 120	25
16 mm	130 mm	78 mm	10 mm	WS24	0192 16 130	25
16 mm	140 mm	84 mm	10 mm	WS24	0192 16 140	25
16 mm	150 mm	90 mm	10 mm	WS24	0192 16 150	25
16 mm	180 mm	108 mm	10 mm	WS24	0192 16 180	25
16 mm	200 mm	120 mm	10 mm	WS24	0192 16 200	25
16 mm	220 mm	132 mm	10 mm	WS24	0192 16 220	25
16 mm	240 mm	144 mm	10 mm	WS24	0192 16 240	25
16 mm	260 mm	156 mm	10 mm	WS24	0192 16 260	25
16 mm	280 mm	168 mm	10 mm	WS24	0192 16 280	25
16 mm	300 mm	180 mm	10 mm	WS24	0192 16 300	25

Nominal diameter (d)	Length (l)	Thread length (thread for woodwork)	Head height (k)	External drive (s ₁)	Art. no.	P. Qty.
16 mm	360 mm	216 mm	10 mm	WS24	0192 16 360	25
20 mm	100 mm	60 mm	13 mm	WS30	0192 20 100	50
20 mm	120 mm	72 mm	13 mm	WS30	0192 20 120	25
20 mm	130 mm	78 mm	13 mm	WS30	0192 20 130	25
20 mm	240 mm	144 mm	13 mm	WS30	0192 20 240	1
20 mm	320 mm	192 mm	13 mm	WS30	0192 20 320	1
20 mm	380 mm	228 mm	13 mm	WS30	0192 20 380	1
20 mm	400 mm	240 mm	13 mm	WS30	0192 20 400	1

Wood screw, DIN 571 A2 Hexagon head

DIN 571, stainless steel A2

- For solid wood connections
- Hexagon head for improved application of force when screwing in
- The wood screw forms its nut thread instead of cutting it, depending on the diameter, pre-drilling must be carried out



Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (thread for woodwork)	Head height (k)	External drive (s ₁)	Art. no.	P. Qty.
5 mm	25 mm	15 mm	3.5 mm	WS8	0193 5 25	200
5 mm	30 mm	18 mm	3.5 mm	WS8	0193 5 30	200
5 mm	35 mm	21 mm	3.5 mm	WS8	0193 5 35	200
5 mm	40 mm	24 mm	3.5 mm	WS8	0193 5 40	200
5 mm	45 mm	27 mm	3.5 mm	WS8	0193 5 45	200
5 mm	50 mm	30 mm	3.5 mm	WS8	0193 5 50	200
5 mm	60 mm	36 mm	3.5 mm	WS8	0193 5 60	200
5 mm	70 mm	42 mm	3.5 mm	WS8	0193 5 70	200
5 mm	80 mm	48 mm	3.5 mm	WS8	0193 5 80	200
6 mm	30 mm	18 mm	4 mm	WS10	0193 6 30	100
6 mm	35 mm	21 mm	4 mm	WS10	0193 6 35	100
6 mm	40 mm	24 mm	4 mm	WS10	0193 6 40	100/1000
6 mm	45 mm	27 mm	4 mm	WS10	0193 6 45	200
6 mm	50 mm	30 mm	4 mm	WS10	0193 6 50	100
6 mm	60 mm	36 mm	4 mm	WS10	0193 6 60	100
6 mm	70 mm	42 mm	4 mm	WS10	0193 6 70	100
6 mm	80 mm	48 mm	4 mm	WS10	0193 6 80	100/200
6 mm	90 mm	54 mm	4 mm	WS10	0193 6 90	100
6 mm	100 mm	60 mm	4 mm	WS10	0193 6 100	50/100
6 mm	110 mm	66 mm	4 mm	WS10	0193 6 110	100
6 mm	120 mm	72 mm	4 mm	WS10	0193 6 120	100
6 mm	140 mm	84 mm	4 mm	WS10	0193 6 140	100
7 mm	45 mm	27 mm	5 mm	WS12	0193 7 45	100
7 mm	50 mm	30 mm	5 mm	WS12	0193 7 50	100
7 mm	60 mm	36 mm	5 mm	WS12	0193 7 60	100
7 mm	65 mm	39 mm	5 mm	WS12	0193 7 65	100
7 mm	70 mm	42 mm	5 mm	WS12	0193 7 70	100

Continuation **Wood screw, DIN 571 A2 Hexagon head**

Nominal diameter (d)	Length (l)	Thread length (thread for woodwork)	Head height (k)	External drive (s ₁)	Art. no.	P. Qty.
7 mm	80 mm	48 mm	5 mm	WS12	0193 7 80	50
7 mm	90 mm	54 mm	5 mm	WS12	0193 7 90	100
7 mm	100 mm	60 mm	5 mm	WS12	0193 7 100	50
7 mm	110 mm	66 mm	5 mm	WS12	0193 7 110	100
7 mm	120 mm	72 mm	5 mm	WS12	0193 7 120	100
7 mm	130 mm	78 mm	5 mm	WS12	0193 7 130	100
7 mm	140 mm	84 mm	5 mm	WS12	0193 7 140	100
7 mm	150 mm	90 mm	5 mm	WS12	0193 7 150	100
8 mm	25 mm	15 mm	5.5 mm	WS13	0193 8 25	100
8 mm	30 mm	18 mm	5.5 mm	WS13	0193 8 30	50/100
8 mm	35 mm	21 mm	5.5 mm	WS13	0193 8 35	100
8 mm	40 mm	24 mm	5.5 mm	WS13	0193 8 40	100
8 mm	45 mm	27 mm	5.5 mm	WS13	0193 8 45	100
8 mm	50 mm	30 mm	5.5 mm	WS13	0193 8 50	100
8 mm	55 mm	33 mm	5.5 mm	WS13	0193 8 55	100
8 mm	60 mm	36 mm	5.5 mm	WS13	0193 8 60	100
8 mm	65 mm	39 mm	5.5 mm	WS13	0193 8 65	100
8 mm	70 mm	42 mm	5.5 mm	WS13	0193 8 70	100
8 mm	75 mm	45 mm	5.5 mm	WS13	0193 8 75	100
8 mm	80 mm	48 mm	5.5 mm	WS13	0193 8 80	100
8 mm	100 mm	60 mm	5.5 mm	WS13	0193 8 100	50/100
8 mm	110 mm	66 mm	5.5 mm	WS13	0193 8 110	100
8 mm	120 mm	72 mm	5.5 mm	WS13	0193 8 120	50
8 mm	130 mm	78 mm	5.5 mm	WS13	0193 8 130	100
8 mm	140 mm	84 mm	5.5 mm	WS13	0193 8 140	50
8 mm	150 mm	90 mm	5.5 mm	WS13	0193 8 150	50
8 mm	160 mm	96 mm	5.5 mm	WS13	0193 8 160	50
8 mm	180 mm	108 mm	5.5 mm	WS13	0193 8 180	50
8 mm	200 mm	120 mm	5.5 mm	WS13	0193 8 200	50
10 mm	40 mm	24 mm	7 mm	WS17	0193 10 40	50
10 mm	50 mm	30 mm	7 mm	WS17	0193 10 50	50
10 mm	60 mm	36 mm	7 mm	WS17	0193 10 60	50/100
10 mm	70 mm	42 mm	7 mm	WS17	0193 10 70	50/100
10 mm	80 mm	48 mm	7 mm	WS17	0193 10 80	50/100
10 mm	90 mm	54 mm	7 mm	WS17	0193 10 90	25/50
10 mm	100 mm	60 mm	7 mm	WS17	0193 10 100	25
10 mm	110 mm	66 mm	7 mm	WS17	0193 10 110	25
10 mm	130 mm	78 mm	7 mm	WS17	0193 10 130	100
10 mm	140 mm	84 mm	7 mm	WS17	0193 10 140	50
10 mm	150 mm	90 mm	7 mm	WS17	0193 10 150	100
10 mm	160 mm	96 mm	7 mm	WS17	0193 10 160	25
10 mm	180 mm	108 mm	7 mm	WS17	0193 10 180	25
12 mm	50 mm	30 mm	8 mm	WS19	0193 12 50	50
12 mm	60 mm	36 mm	8 mm	WS19	0193 12 60	50
12 mm	80 mm	48 mm	8 mm	WS19	0193 12 80	25
12 mm	100 mm	60 mm	8 mm	WS19	0193 12 100	25
12 mm	110 mm	66 mm	8 mm	WS19	0193 12 110	50
12 mm	120 mm	72 mm	8 mm	WS19	0193 12 120	25
12 mm	130 mm	78 mm	8 mm	WS19	0193 12 130	50
12 mm	140 mm	84 mm	8 mm	WS19	0193 12 140	50
12 mm	150 mm	90 mm	8 mm	WS19	0193 12 150	50

Nominal diameter (d)	Length (l)	Thread length (thread for woodwork)	Head height (k)	External drive (s ₁)	Art. no.	P. Qty.
12 mm	160 mm	96 mm	8 mm	WS19	0193 12 160	25
12 mm	180 mm	108 mm	8 mm	WS19	0193 12 180	25
12 mm	200 mm	120 mm	8 mm	WS19	0193 12 200	50
12 mm	220 mm	132 mm	8 mm	WS19	0193 12 220	25
12 mm	240 mm	144 mm	8 mm	WS19	0193 12 240	25
12 mm	260 mm	156 mm	8 mm	WS19	0193 12 260	25
12 mm	280 mm	168 mm	8 mm	WS19	0193 12 280	50
12 mm	300 mm	180 mm	8 mm	WS19	0193 12 300	25
16 mm	80 mm	48 mm	10 mm	WS24	0193 16 80	25
16 mm	100 mm	60 mm	10 mm	WS24	0193 16 100	25
16 mm	120 mm	72 mm	10 mm	WS24	0193 16 120	25
16 mm	130 mm	78 mm	10 mm	WS24	0193 16 130	25
16 mm	140 mm	84 mm	10 mm	WS24	0193 16 140	25
16 mm	150 mm	90 mm	10 mm	WS24	0193 16 150	25
16 mm	160 mm	96 mm	10 mm	WS24	0193 16 160	25
16 mm	180 mm	108 mm	10 mm	WS24	0193 16 180	25
16 mm	200 mm	120 mm	10 mm	WS24	0193 16 200	25

Wood screw, DIN 571 hot-dip galvanised steel Hexagon head

DIN 571, hot-dip galvanized steel

- For solid wood connections
- Hexagon head for improved application of force when screwing in
- The wood screw forms its nut thread instead of cutting it, depending on the diameter, pre-drilling must be carried out



Material	Steel
Surface	Hot dip galvanized
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (thread for woodwork)	Head height (k)	External drive (s ₁)	Art. no.	P. Qty.
6 mm	40 mm	24 mm	4 mm	WS10	4152 6 40	200
7 mm	60 mm	36 mm	5 mm	WS12	0192 7 60	100
7 mm	70 mm	42 mm	5 mm	WS12	0192 7 70	100
7 mm	80 mm	48 mm	5 mm	WS12	0192 7 80	100
7 mm	90 mm	54 mm	5 mm	WS12	0192 7 90	100
7 mm	100 mm	60 mm	5 mm	WS12	0192 7 100	100
7 mm	110 mm	66 mm	5 mm	WS12	0192 7 110	100
7 mm	120 mm	72 mm	5 mm	WS12	0192 7 120	100
7 mm	130 mm	78 mm	5 mm	WS12	0192 7 130	100
7 mm	150 mm	90 mm	5 mm	WS12	0192 7 150	100
7 mm	170 mm	102 mm	5 mm	WS12	0192 7 170	100
8 mm	35 mm	21 mm	5.5 mm	WS13	4152 8 35	500
8 mm	40 mm	24 mm	5.5 mm	WS13	4152 8 40	200
8 mm	60 mm	36 mm	5.5 mm	WS13	4152 8 60	200
8 mm	65 mm	39 mm	5.5 mm	WS13	4152 8 65	200
8 mm	80 mm	48 mm	5.5 mm	WS13	4152 8 80	100
10 mm	30 mm	18 mm	7 mm	WS17	4152 10 30	100
10 mm	60 mm	36 mm	7 mm	WS17	4152 10 60	100

Continuation **Wood screw, DIN 571 hot-dip galvanised steel**

Hexagon head

Nominal diameter (d)	Length (l)	Thread length (thread for woodwork)	Head height (k)	External drive (s ₁)	Art. no.	P. Qty.
10 mm	100 mm	60 mm	7 mm	WS17	4152 10 100	100
12 mm	100 mm	60 mm	8 mm	WS19	4152 12 100	50
12 mm	120 mm	72 mm	8 mm	WS19	4152 12 120	50
12 mm	200 mm	120 mm	8 mm	WS19	4152 12 200	25
16 mm	100 mm	60 mm	10 mm	WS24	4152 16 100	25
16 mm	120 mm	72 mm	10 mm	WS24	4152 16 120	25
16 mm	140 mm	84 mm	10 mm	WS24	4152 16 140	25
16 mm	180 mm	108 mm	10 mm	WS24	4152 16 180	25
20 mm	100 mm	60 mm	13 mm	WS30	4152 20 100	20
20 mm	120 mm	72 mm	13 mm	WS30	4152 20 120	10
20 mm	140 mm	84 mm	13 mm	WS30	4152 20 140	10
20 mm	160 mm	96 mm	13 mm	WS30	4152 20 160	10
20 mm	200 mm	120 mm	13 mm	WS30	4152 20 200	14
20 mm	240 mm	144 mm	13 mm	WS30	4152 20 240	25

- Hot-dip galvanised screws have excellent corrosion resistance. The thickness of the zinc coating is up to ten times greater than coatings applied with electroplating.

Wood screw, DIN 571 A4 Hexagon head

DIN 571 A4 stainless steel

- For solid wood connections
- Hexagon head for improved application of force when screwing in
- The wood screw forms its nut thread instead of cutting it, depending on the diameter, pre-drilling must be carried out



Material	Stainless steel A4
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Head height (k)	External drive (s ₁)	Art. no.	P. Qty.
5 mm	25 mm	3.5 mm	WS8	0191 05 25	200
5 mm	35 mm	3.5 mm	WS8	0191 05 35	200
5 mm	40 mm	3.5 mm	WS8	0191 05 40	200
5 mm	45 mm	3.5 mm	WS8	0191 05 45	200
5 mm	50 mm	3.5 mm	WS8	0191 05 50	200
5 mm	60 mm	3.5 mm	WS8	0191 05 60	200
5 mm	70 mm	3.5 mm	WS8	0191 05 70	200
6 mm	30 mm	4 mm	WS10	0191 06 30	100
6 mm	35 mm	4 mm	WS10	0191 06 35	100
6 mm	40 mm	4 mm	WS10	0191 06 40	200
6 mm	45 mm	4 mm	WS10	0191 06 45	100/200
6 mm	55 mm	4 mm	WS10	0191 06 55	100
6 mm	60 mm	4 mm	WS10	0191 06 60	100
6 mm	65 mm	4 mm	WS10	0191 06 65	100
6 mm	70 mm	4 mm	WS10	0191 06 70	100
6 mm	80 mm	4 mm	WS10	0191 06 80	200

Nominal diameter (d)	Length (l)	Head height (k)	External drive (s ₁)	Art. no.	P. Qty.
6 mm	90 mm	4 mm	WS10	0191 06 90	100
6 mm	100 mm	4 mm	WS10	0191 06 100	100
6 mm	110 mm	4 mm	WS10	0191 06 110	100
6 mm	120 mm	4 mm	WS10	0191 06 120	100
7 mm	50 mm	5 mm	WS12	0191 07 50	100
7 mm	60 mm	5 mm	WS12	0191 07 60	100
7 mm	70 mm	5 mm	WS12	0191 07 70	100
7 mm	80 mm	5 mm	WS12	0191 07 80	100
7 mm	100 mm	5 mm	WS12	0191 07 100	100
8 mm	25 mm	5.5 mm	WS13	0191 08 25	100
8 mm	30 mm	5.5 mm	WS13	0191 08 30	200
8 mm	40 mm	5.5 mm	WS13	0191 08 40	200
8 mm	50 mm	5.5 mm	WS13	0191 08 50	100
8 mm	60 mm	5.5 mm	WS13	0191 08 60	100
8 mm	65 mm	5.5 mm	WS13	0191 08 65	100
8 mm	70 mm	5.5 mm	WS13	0191 08 70	100
8 mm	80 mm	5.5 mm	WS13	0191 08 80	100
8 mm	90 mm	5.5 mm	WS13	0191 08 90	100
8 mm	100 mm	5.5 mm	WS13	0191 08 100	100
8 mm	110 mm	5.5 mm	WS13	0191 08 110	100
8 mm	120 mm	5.5 mm	WS13	0191 08 120	100
8 mm	130 mm	5.5 mm	WS13	0191 08 130	100
8 mm	140 mm	5.5 mm	WS13	0191 08 140	100
8 mm	150 mm	5.5 mm	WS13	0191 08 150	100
8 mm	160 mm	5.5 mm	WS13	0191 08 160	100
8 mm	180 mm	5.5 mm	WS13	0191 08 180	100
10 mm	40 mm	7 mm	WS17	0191 010 40	100
10 mm	45 mm	7 mm	WS17	0191 010 45	100
10 mm	50 mm	7 mm	WS17	0191 010 50	100
10 mm	60 mm	7 mm	WS17	0191 010 60	50
10 mm	70 mm	7 mm	WS17	0191 010 70	100
10 mm	80 mm	7 mm	WS17	0191 010 80	100
10 mm	90 mm	7 mm	WS17	0191 010 90	100
10 mm	100 mm	7 mm	WS17	0191 010 100	100
10 mm	110 mm	7 mm	WS17	0191 010 110	100
10 mm	140 mm	7 mm	WS17	0191 010 140	100
10 mm	150 mm	7 mm	WS17	0191 010 150	100
10 mm	160 mm	7 mm	WS17	0191 010 160	100
10 mm	180 mm	7 mm	WS17	0191 010 180	100
10 mm	200 mm	7 mm	WS17	0191 010 200	100
12 mm	50 mm	8 mm	WS19	0191 012 50	50
12 mm	60 mm	8 mm	WS19	0191 012 60	50
12 mm	70 mm	8 mm	WS19	0191 012 70	50
12 mm	80 mm	8 mm	WS19	0191 012 80	50
12 mm	90 mm	8 mm	WS19	0191 012 90	50
12 mm	100 mm	8 mm	WS19	0191 012 100	50
12 mm	120 mm	8 mm	WS19	0191 012 120	50
12 mm	130 mm	8 mm	WS19	0191 012 130	50
12 mm	140 mm	8 mm	WS19	0191 012 140	50
12 mm	150 mm	8 mm	WS19	0191 012 150	50
12 mm	160 mm	8 mm	WS19	0191 012 160	50
12 mm	180 mm	8 mm	WS19	0191 012 180	50
12 mm	200 mm	8 mm	WS19	0191 012 200	50
12 mm	240 mm	8 mm	WS19	0191 012 240	25
12 mm	260 mm	8 mm	WS19	0191 012 260	25

Continuation **Wood screw, DIN 571 A4 Hexagon head**

Nominal diameter (d)	Length (l)	Head height (k)	External drive (s ₁)	Art. no.	P. Qty.
12 mm	300 mm	8 mm	WS19	0191 012 300	25
16 mm	70 mm	10 mm	WS24	0191 016 70	25
16 mm	80 mm	10 mm	WS24	0191 016 80	25
16 mm	100 mm	10 mm	WS24	0191 016 100	25
16 mm	110 mm	10 mm	WS24	0191 016 110	25
16 mm	120 mm	10 mm	WS24	0191 016 120	25
16 mm	130 mm	10 mm	WS24	0191 016 130	25
16 mm	150 mm	10 mm	WS24	0191 016 150	25

ELMO® speed screws

Galvanised steel, blue, AW slot drive. The quick and time-saving combination screw. With two different drives in the screw head: AW drive for secure working with large quantities and normal slot drive for smaller quantities.



Asymmetrical thread

- Low screw-in torque
- High over-turning force

AW drive

- Optimal force transmission
- Excellent fit
- Rapid finding
- Screw settles securely
- Virtually no unscrewing of bit
- No wobbling
- No damage to surface coating of screw

Head

- Pan head
- Combi AW slot drive

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4 mm	16 mm	14 mm	8 mm	2.8 mm	0172 14 16	250
4 mm	20 mm	18 mm	8 mm	2.8 mm	0172 14 20	250
4 mm	25 mm	22 mm	8 mm	2.8 mm	0172 14 25	250
4 mm	30 mm	27 mm	8 mm	2.8 mm	0172 14 30	250
4 mm	35 mm	32 mm	8 mm	2.8 mm	0172 14 35	250
4 mm	40 mm	37 mm	8 mm	2.8 mm	0172 14 40	250
4 mm	45 mm	42 mm	8 mm	2.8 mm	0172 14 45	250
4 mm	50 mm	47 mm	8 mm	2.8 mm	0172 14 50	250
4 mm	60 mm	57 mm	8 mm	2.8 mm	0172 14 60	250
4 mm	70 mm	67 mm	8 mm	2.8 mm	0172 14 70	250
4.5 mm	30 mm	27 mm	9 mm	3.15 mm	0172 145 30	250
4.5 mm	35 mm	32 mm	9 mm	3.15 mm	0172 145 35	250

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Art. no.	P. Qty.
4.5 mm	40 mm	37 mm	9 mm	3.15 mm	0172 145 40	250
4.5 mm	45 mm	42 mm	9 mm	3.15 mm	0172 145 45	250
4.5 mm	50 mm	47 mm	9 mm	3.15 mm	0172 145 50	250
4.5 mm	60 mm	57 mm	9 mm	3.15 mm	0172 145 60	250
5 mm	35 mm	31 mm	10 mm	3.5 mm	0172 15 35	250
5 mm	40 mm	36 mm	10 mm	3.5 mm	0172 15 40	250
5 mm	45 mm	41 mm	10 mm	3.5 mm	0172 15 45	250
5 mm	50 mm	46 mm	10 mm	3.5 mm	0172 15 50	250
5 mm	60 mm	56 mm	10 mm	3.5 mm	0172 15 60	250
6 mm	40 mm	36 mm	12 mm	4.2 mm	0172 16 40	250
6 mm	50 mm	46 mm	12 mm	4.2 mm	0172 16 50	250
6 mm	60 mm	56 mm	12 mm	4.2 mm	0172 16 60	250
6 mm	70 mm	66 mm	12 mm	4.2 mm	0172 16 70	100

Shaft head screw

Galvanized steel, blue passivated, 8 x 30

Nominal diameter (d)	8 mm
Length (l)	30 mm

Art. no. 0902 310

P. Qty.: 100



Universal anchor AW

Assembly anchor for quick and secure mounting of door jambs. Save time while protecting the environment.

- Invisible mounting of door jambs
- No need to apply pressure as adhesive is already applied
- Highly secure bonding when used with
- Vertical assembly and full surface adhesive contact, even when drill holes are angled – ball head screw evens out the angle (90°–75°)!
- Assembly instructions included
- AW25 drive

Nominal diameter (d ₁)	6 mm
Length (l ₁)	89 mm
Plate length (a ₁)	55 mm
Plate width (b ₁)	55 mm
Internal drive	AW25
Plate size	55 x 55 mm

Art. no. 0902 60 85

P. Qty.: 100

Tested and assessed in expert's report no. 037-2002-1

Please observe the instructions for application of the adhesives.



Hammerset anchor, rotatable

For installation of plastic windows in the reveal

- Fast and simple installation of plastic windows in masonry
- Swivel anchors absorb thermal length changes in frame materials highly effectively



Dowel hole diameter	8.5 mm
Surface	Zinc plated

Suitable for profile manufacturers	Suitable for profile	Length x width x height (L1 x B1 x h)	Art. no.	P. Qty.
Aluplast, Schüco	Aluplast Ideal 2000, Aluplast Ideal 4000, Aluplast energeto 5000, Aluplast Ideal 5000, Aluplast Ideal 7000, Aluplast energeto 4000, Aluplast energeto 8000, Schüco Living 82	150 x 25 x 1.25 mm	0479 420 19	100
Aluplast, Schüco	Aluplast Ideal 2000, Aluplast Ideal 4000, Aluplast Ideal 5000, Aluplast Ideal 7000, Aluplast Ideal 8000, Aluplast energeto 4000, Aluplast energeto 5000, Aluplast energeto 8000, Schüco Living 82	200 x 25 x 1.25 mm	0479 520 003	150
Brüggmann, Salamander	Brüggmann AD, HP 102 HP 104, Brüggmann bluEvolution 82, Salamander bluEvolution 82	200 x 25 x 1.25 mm	0479 520 9	150
Brüggmann, Salamander	Salamander 2D/3D/MD/ID, Salamander 3D, Brüggmann bluEvolution 92, Salamander Streamline, Salamander bluEvolution 92	150 x 25 x 1.25 mm	0479 420 18	100
Dimex	Dimex Contour 7.0 8.0	150 x 25 x 1.25 mm	0479 420 23	100
Dimex, Kömmerling, Inoutic	Dimex, Kömmerling EuroFutur Classic, Inoutic Eforte	150 x 25 x 1.25 mm	0479 420 21	100
Gealan	Gealan S3000/S6000 Osmo 58/Sarne 58/Unilux K-Eurodur MPF13S/Combidur WF	200 x 25 x 1.25 mm	0479 520 6	150
Gealan	Gealan S7000, Gealan S8000, Gealan S9000	150 x 25 x 1.25 mm	0479 420 26	100
Gealan	Gealan S7000, Gealan S8000, Gealan S9000	200 x 25 x 1.25 mm	0479 520 21	150
KBE, Kömmerling, Rehau, Trocal, Deceuninck	KBE 88+, Trocal Innova_70, Trocal 88+, Kömmerling 88+, Rehau S 729/730/796/799, Rehau Geneo, Rehau Euro 86, Deceuninck Heritage 2800, Deceuninck Zendow	150 x 25 x 1.25 mm	0479 420 3	100
KBE, Profine, Kömmerling, Trocal	KBE 76, KBE 88, Kömmerling 76, Kömmerling 88, Trocal 76, Trocal 88, Profine 76, Profine 88	200 x 25 x 1.25 mm	0479 520 001	150
KBE, Trocal, Kömmerling, Rehau, Deceuninck	KBE 88+, Trocal Innova_70, Trocal 88+, Kömmerling 88+, Rehau S 729/730/796/799, Rehau Geneo, Rehau Euro 86, Deceuninck Heritage 2800, Deceuninck Zendow	200 x 25 x 1.25 mm	0479 520 3	150
Kömmerling	Kömmerling Eurodur 3 S	150 x 25 x 1.25 mm	0479 420 1	100
Kömmerling	Kömmerling Eurodur 3 S	200 x 25 x 1.25 mm	0479 520 1	150
Kömmerling, Inoutic, Dimex	Kömmerling EuroFutur Classic, Dimex, Inoutic Eforte	200 x 25 x 1.25 mm	0479 520 17	150

Suitable for profile manufacturers	Suitable for profile	Length x width x height (L1 x B1 x h)	Art. no.	P. Qty.
Kömmerling, KBE, Trocal, Profine	Kömmerling 76, Kömmerling 88, KBE 76, KBE 88, Trocal 76, Trocal 88, Profine 76, Profine 88	150 x 25 x 1.25 mm	0479 420 003	100
Rehau	Rehau Basic, Brillant, Novo, Thermodesign	200 x 25 x 1.25 mm	0479 520 20	150
Salamander, Brüggmann	Brüggmann bluEvolution 92, Salamander bluEvolution 92, Salamander 3D, Salamander Streamline, Salamander 2D/3D/MD/ID	200 x 25 x 1.25 mm	0479 520 002	150
Schüco	Schüco CT 70, Schüco Corona CT 70 AS, Schüco Corona SI 82	150 x 25 x 1.25 mm	0479 420 002	100
Schüco	Schüco CT 70, Schüco Corona CT 70 AS, Schüco Corona SI 82	200 x 25 x 1.25 mm	0479 520 2	150
Trocal	Roplasto 6001 Trocal Serie 900	150 x 25 x 1.25 mm	0479 420 11	100
Veka	Veka 58 mm	200 x 25 x 1.25 mm	0479 520 4	150
Veka	Veka SOFTLINE 70, Veka TOPLINE 70, Veka SOFTLINE 82, Veka ALPHALINE 90	150 x 25 x 1.25 mm	0479 420 15	100
Veka	Veka TOPLINE 70, Veka SOFTLINE 70, Veka SOFTLINE 82, Veka ALPHALINE 90	200 x 25 x 1.25 mm	0479 520 15	150
Wavin, Thyssen	Thyssen 60 mm, Wavin, Thyssen	150 x 25 x 1.25 mm	0479 420 16	100

Twist-on anchor, rigid

For installation of aluminium and plastic windows in the reveal

Fast and simple installation of aluminium and plastic windows in masonry.



Surface	Zinc plated
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Suitable for profile manufacturers	Suitable for profile	Length x width x height (L1 x B1 x h)	Dowel hole diameter	Art. no.	P. Qty.
	Aluplast, RC51a, RC65	160 x 25 x 2 mm	8.5 mm	0479 555 002	100
Aluplast	Aluplast energeto 8000, Aluplast Ideal 8000 (BH=100 mm)	160 x 25 x 2 mm	8.5 mm	0479 620 003	100
Aluplast, Schüco, Wavin, Dimex	Aluplast Ideal 2000, Aluplast Ideal 4000, Aluplast Ideal 5000, Aluplast Ideal 7000, Aluplast Ideal 8000, Aluplast energeto 4000, Aluplast energeto 5000, Schüco Living 82, Wavin, Dimex	160 x 25 x 2 mm	8.5 mm	0479 620 6	100

Continuation **Twist-on anchor, rigid**

Suitable for profile manufacturers	Suitable for profile	Length x width x height (L1 x B1 x h)	Dowel hole diameter	Art. no.	P. Qty.
Aluplast, Schüco, Wavin, Dimex	Aluplast Ideal 2000, Aluplast Ideal 4000, Aluplast Ideal 5000, Aluplast Ideal 7000, Aluplast Ideal 8000, Schüco Living 82, Aluplast energeto 4000, Aluplast energeto 5000, Dimex, Wavin	200 x 25 x 2 mm	10.5 mm	0479 620 207	150
Brüggmann, Duraflex, Hueck, Kömmerling, Salamander	Brüggmann bluEvolution 82, Brüggmann AD, HP 102 HP 104, Duraflex Dimond, Hueck, Kömmerling R02-67-4A13, Salamander bluEvolution 82	200 x 25 x 2 mm	10.5 mm	0479 620 202	150
Brüggmann, Salamander	Brüggmann bluEvolution 92, Salamander bluEvolution 92, Salamander Streamline, Salamander 2D/3D/MD/1D, Salamander 3D	200 x 25 x 2 mm	10.5 mm	0479 620 208	150
Brüggmann, Salamander, Duraflex, Hueck	Brüggmann bluEvolution 82, Brüggmann AD, HP 102 HP 104, Duraflex Dimond, Hueck, Kömmerling R02-67-4A13, Salamander bluEvolution 82	160 x 25 x 2 mm	8.5 mm	0479 620 002	100
Deceuninck, KBE, Kömmerling, Trocal, Rehau, Weru, Schüco	KBE 88+, Kömmerling 88+, Trocal 88+, Rehau Synego, Schüco Corona CT 70 AS, Schüco CT 70, Schüco Corona SI 82, Schüco Alu Inside, Weru Castello, Deceuninck Zendow, Deceuninck Heritage 2800, Rehau S 729/730/796/799, Rehau Basic, Brilliant, Novo, Thermodesign, Weru Palazzo, Rehau Euro 86, Trocal Innova_70	200 x 25 x 2 mm	10.5 mm	0479 620 205	150
Gealan, Home, Kömmerling	Gealan S7000, Gealan S8000, Gealan S9000, Kömmerling EuroFutur Classic, Home EB 51	160 x 25 x 2 mm	8.5 mm	0479 620 001	100
Gealan, Kömmerling, Home	Gealan S7000, Gealan S8000, Gealan S9000, Kömmerling EuroFutur Classic, Home EB 51	200 x 25 x 2 mm	10.5 mm	0479 620 201	150
KBE, Kömmerling, Profine, Trocal	KBE 88, Kömmerling 88, Profine 88, Trocal 88	200 x 25 x 2 mm	10.5 mm	0479 620 209	150
Kömmerling, KBE, Profine, Trocal	KBE 76, Kömmerling 76, Profine 76, Kömmerling K-Vision, Trocal 76	200 x 25 x 2 mm	10.5 mm	0479 620 204	150

Suitable for profile manufacturers	Suitable for profile	Length x width x height (L1 x B1 x h)	Dowel hole diameter	Art. no.	P. Qty.
Kömmerling, KBE, Trocal, Profine	KBE 76, Kömmerling 76, Kömmerling K-Vision, Trocal 76, Profine 76	160 x 25 x 2 mm	8.5 mm	0479 620 004	100
Kömmerling, Trocal, Rehau, Schüco, Deceuninck, Weru, KBE, Profine	KBE 88+, Kömmerling 88+, Trocal 88+, Rehau Synego, Schüco CT 70, Schüco Corona CT 70 AS, Weru Castello, Schüco Alu Inside, Schüco Corona SI 82, Deceuninck Zendow, Deceuninck Heritage 2800, Rehau S 729/730/796/799, Rehau Basic, Brillant, Novo, Thermodesign, Weru Palazzo, Trocal Innova_70, Rehau Euro 86	160 x 25 x 2 mm	8.5 mm	0479 620 3	100
Kömmerling, Trocal, Rehau, Schüco, Weru, Deceuninck, KBE	KBE 88+, Kömmerling 88+, Trocal 88+, Rehau Geneo, Schüco Corona CT 70 AS, Schüco, Schüco Corona SI 82, Deceuninck Heritage 2800, Deceuninck Zendow, Rehau Euro 86, Trocal Innova_70, Weru Castello, Weru Palazzo, Rehau Basic, Brillant, Novo, Thermodesign, Schüco Alu Inside, Schüco CT 70	240 x 25 x 2 mm	10.5 mm	0479 620 402	150
Rehau, Veka	Veka TOPLINE 70, Veka SOFTLINE 70, Veka SWINGLINE 70, Veka SOFTLINE 82, Veka ARTLINE 82, Veka ALPHALINE 90, Rehau Synego	160 x 25 x 2 mm	8.5 mm	0479 620 005	100
Salamander, Brüggmann	Salamander 2D/3D/MD/ID, Salamander Streamline, Salamander 3D, Salamander bluEvolution 92, Brüggmann bluEvolution 92	160 x 25 x 2 mm	8.5 mm	0479 620 7	100
Schüco, Wicona	Schüco AWS 65, Schüco AWS 70, Schüco AWS 75, Schüco AWS 90, WICONA WICLINE 65, WICONA WICLINE 75, WICONA WICLINE 95, Schüco Royal, Bug, Heroal, Wicona	200 x 25 x 2 mm	10.5 mm	0479 620 210	150
Thyssen	Thyssen Prestige	200 x 25 x 2 mm	8.5 mm	0479 520 16	150

Continuation **Twist-on anchor, rigid**

Suitable for profile manufacturers	Suitable for profile	Length x width x height (L1 x B1 x h)	Dowel hole diameter	Art. no.	P. Qty.
Schüco, Wicona	Schüco Royal, Bug, Heroyal, Wicona, Schüco AWS 65, Schüco AWS 70, Schüco AWS 75, Schüco AWS 90, WICONA WICLINE 65, WICONA WICLINE 75, WICONA WICLINE 95	160 x 25 x 2 mm	8.5 mm	0479 555 001	100
Thyssen, Inoutic	Inoutic Eforte, Thyssen/Inoutic Eforte	200 x 25 x 2 mm	10.5 mm	0479 620 211	150
Veka, Rehau	Rehau Synego, Veka ALPHALINE 90, Veka ARTLINE 82, Veka SOFTLINE 82, Veka SOFTLINE 70, Veka SWING-LINE 70, Veka TOPLINE 70	240 x 25 x 2 mm	10.5 mm	0479 620 401	150
Veka, Rehau	Veka ALPHALINE 90, Veka ARTLINE 82, Veka SOFTLINE 82, Veka SOFTLINE 70, Veka SWING-LINE 70, Veka TOPLINE 70, Rehau Synego	200 x 25 x 2 mm	10.5 mm	0479 620 206	150

Knock-in claw Type 2

Fast and simple installation of wooden windows in masonry



Nail holes:

- Ø 4.5 mm

Anchor holes:

- Ø 9 mm

Material: hot-dip galvanised steel sheet

Surface	Zinc plated
Claw length x claw height (L2 x h)	30 x 17 mm
Nail-hole diameter	4.5 mm
Dowel hole diameter	9 mm

Length x width x thickness (L1 x B1 x h)	Art. no.	P. Qty.
140 x 25 x 1.8 mm	0479 140 25	150
180 x 25 x 1.8 mm	0479 180 25	100

Window installation bracket with height adjustment bracket JB-DK

Galvanised steel for adjustable window installation in insulated wall structures.

Systematic, flexible, secure

The JB-DK adjustable window installation system enables glazing to be installed systematically, in line with RAL guidelines and with safe transfer of all live loads. The system is adjustable in three dimensions to enable easy compensation of structural tolerances. It can be installed at any level and adjusted according to the isothermal profile.



Type description	JB-DK50/5-W
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Length	Height	Art. no.	P. Qty.
138 mm	5 mm	0479 733 23	1/50
138 mm	10 mm	0479 733 24	1/50
188 mm	10 mm	0479 733 30	1/50

The load capacity of brackets and rails has been determined by the manufacturer based on test report no. 10541805 from IFT Rosenheim. Individual calculations can be found in the guidelines on installing windows and house doors.

Window installation bracket with height adjustment plate JB-DK

Galvanised steel for adjustable window installation in insulated wall structures.

Systematic, flexible, secure

The JB-DK adjustable window installation system enables glazing to be installed systematically, in line with RAL guidelines and with safe transfer of all live loads. The system is adjustable in three dimensions to enable easy compensation of structural tolerances. It can be installed at any level and adjusted according to the isothermal profile.



Type description	JB-DK50/5-W
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Length	Height	Art. no.	P. Qty.
138 mm	5 mm	0479 733 25	1/50
138 mm	10 mm	0479 733 26	1/50
188 mm	10 mm	0479 733 31	1/50

The load capacity of brackets and rails has been determined by the manufacturer based on test report no. 10541805 from IFT Rosenheim. Individual calculations can be found in the guidelines on installing windows and house doors.

Window installation bracket with height adjustment bracket JB-DK

Projection up to 150 mm with support bracket for larger loads

- Building structure: Concrete, sand-lime brick, aerated concrete (jumbo)
- With locking screw
- Adjustable window installation in insulated wall structures



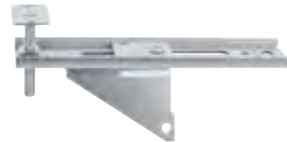
Height	37.3 mm
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Type description	Length	Art. no.	P. Qty.
JB-DK100-130/10-AW125-W	253 mm	0479 733 33	1/25
JB-DK100/10-AW75-W	188 mm	0479 733 32	1/50
JB-DK120-150/10-AW125-W	253 mm	0479 733 34	1/25

Window installation bracket with height adjustment plate JB-DK

Projection up to 150 mm with support bracket for larger loads

- Building structure: Concrete, sand-lime brick, aerated concrete (jumbo)
- With locking screw
- Adjustable window installation in insulated wall structures



Height	10 mm
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Type description	Length	Art. no.	P. Qty.
JB-DK100-130/10-AW125-P	253 mm	0479 733 36	1/25
JB-DK100/10-AW75-P	188 mm	0479 733 35	1/50
JB-DK120-150/10-AW125-P	253 mm	0479 733 37	1/25

Window installation bracket with height adjustment bracket JB-DK

Bracket with deflection angle for mounting on perforated brick and AW support bracket for greater loads

- Material: Galvanised steel
- Structure: Perforated brick, masonry
- Projection of each bracket according to wall thickness and window weight
- With locking screw
- Adjustable window installation in insulated wall structures



Length	253 mm
Height	37.3 mm

Type description	Art. no.	P. Qty.
JB-DK100/10-ALW-W	0479 733 38	1/50
JB-DK100/10-AW75-ALW-W	0479 733 39	1/50

Window mounting rail with screw-on plate JB-D

Galvanised steel for adjustable window installation in insulated wall structures.

Systematic, flexible, secure

The JB-D adjustable window installation system enables glazing to be installed systematically, in line with RAL guidelines and with safe transfer of all live loads. The system is adjustable in three dimensions to enable easy compensation of structural tolerances. It can be installed at any level and adjusted according to the isothermal profile.



Height	37.3 mm
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Type description	Length	Width	Art. no.	P. Qty.
JB-D50/5-G-40	138 mm	5 mm	0479 733 56	1/50
JB-D50/5-G60	138 mm	5 mm	0479 733 57	1/50
JB-D50/10-G40	138 mm	10 mm	0479 733 66	1/50
JB-D50/10-G60	138 mm	10 mm	0479 733 67	1/50
JB-D100/10-G40	188 mm	10 mm	0479 733 68	1/50
JB-D100/10-G60	188 mm	10 mm	0479 733 69	1/50
JB-D150/10-G40	253 mm	10 mm	0479 733 62	1/50
JB-D150/10-G40-AW75	253 mm	10 mm	0479 733 63	1/50
JB-D150/10-G60	253 mm	10 mm	0479 733 64	1/50
JB-D150/10-G60-AW75	253 mm	10 mm	0479 733 65	1/50

The load capacity of brackets and rails has been determined by the manufacturer based on test report no. 10541805 from IFT Rosenheim. Individual calculations can be found in the guidelines on installing windows and house doors.

Window installation rails W-ABZ

Fall-proof, adjustable window mounting with approval

- Fall-proof mounting with approval
- Systematic, flexible, secure

The W-ABZ window installation system enables fall-proof window installation in line with all the applicable guidelines and regulations



Min. joint width (f min)	17 mm
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Type description	Length x width x height (L x B x H)	Max. distance adjustment (G)	Approval	Fastener spacing (a)	Art. no.	P. Qty.
W-ABZ-D60-10-40	60 x 10 x 37.3 mm	40 mm		38 mm	0479 740 60	2/50
W-ABZ-D60-10-40	60 x 10 x 37.3 mm	60 mm	DIBt Z-14.4-728	38 mm	0479 760 60	2/50
W-ABZ-D102-10-60	102 x 10 x 37.3 mm	60 mm	DIBt Z-14.4-728	80 mm	0479 760 102	2/50
W-ABZ-D102-10-40	102 x 10 x 37.3 mm	40 mm	DIBt Z-14.4-728	80 mm	0479 740 102	2/50
W-ABZ-D138-10-60	138 x 10 x 37.3 mm	60 mm	DIBt Z-14.4-728	116 mm	0479 760 138	2/50
W-ABZ-D138-10-40	138 x 10 x 37.3 mm	40 mm	DIBt Z-14.4-728	116 mm	0479 740 138	2/50
W-ABZ-D188-10-60	188 x 10 x 37.3 mm	60 mm	DIBt Z-14.4-728	166 mm	0479 760 188	2/50

Continuation **Window installation rails W-ABZ**

Type description	Length x width x height (L x B x H)	Max. distance adjustment (G)	Approval	Fastener spacing (a)	Art. no.	P. Qty.
W-ABZ-D188-10-40	188 x 10 x 37.3 mm	40 mm	DIBt Z-14.4-728	166 mm	0479 740 188	2/50
W-ABZ-D253-10-60	253 x 10 x 37.3 mm	60 mm	DIBt Z-14.4-728	231 mm	0479 760 253	2
W-ABZ-D253-10-40	253 x 10 x 37.3 mm	40 mm	DIBt Z-14.4-728	231 mm	0479 740 253	2

General construction permit Z-14.4-728



The dimensions are based on the following approvals, standards and guidelines:

- Z-14.4-728 Fall-proof window element mounting
- ETA-08/0190 Plastic anchors for multiple anchoring of non-load-bearing systems in concrete and masonry
- ETA-11/0190 Self-tapping screws for use in timber constructions
- ETB Guideline „Fall prevention components“
- Guidelines for planning and executing the installation of windows and exterior doors, in particular Chapter 5 (art. no.: 5995000000).
- Eurocode 1 - Effects

Mounting rail

Rigid mounting rail profile (complies with tech. guideline no. 20) with slots for adjustment and fixed holes for securing the window element in place.



Length	165 mm
Width	55 mm

Art. no. 0479 733 22

P. Qty.: 1/50

Mounting bracket

Rigid mounting bracket profile (complies with tech. guideline no. 20) with slots for adjustment and fixed holes for securing the window element in place.

Recommended fastener in concrete:

- Screw anchor W-SA 7.5 type MS
- Plastic frame anchor W-UR8

Recommended fastener in aerated concrete:

Plastic frame anchor W-UR8

Recommended fastener in solid or perforated brick masonry:

- Plastic frame anchor W-UR8
- AMO III screw diameter 7.5 mm

Recommended fastener for connection to window sill or window frame profile:

- FBS 1
- ASSY 3.0
- pias drilling screw

Recommended fastener for window frame profile or coupling of frames:

Pias drilling screw



Length (L1)	58 mm
Material	Steel
Surface	Sendzimir galvanized

Length 2 (L2)	Art. no.	P. Qty.
70 mm	0479 733 20	1/50
120 mm	0479 733 21	1/50

VWM pre-wall mounting system EPS EPS VWM system

Easy to assemble pre-wall mounting system with special system profiles made from high-density EPS for fitting windows in front of supporting walls

- Tested pre-wall mounting system with special system profiles made from high-density EPS
- Easy to mount thanks to low weight and dovetail connection to the special profiles



Material	EPS - Expanded polystyrene
Material thickness (t)	80 mm

Dimension VWM (SxS2xL)	Art. no.	P. Qty.
80 x 80 x 1200 mm	0479 743 208	10/108
120 x 80 x 1200 mm	0997 842 840	5/72
140 x 80 x 1200 mm	0479 743 214	5/60
160 x 80 x 1200 mm	0997 825 691	5/60

- Observe the RAL guidelines on assembly and planning of windows and house doors when planning and assembling (art. no. 5995 000 000).

Continuation **VWM pre-wall mounting system EPS EPS VWM system**

- Always seal and adhere EPS special system profiles using the associated VWM assembly adhesive (art. 0479 743 200) to the substrate and to each other.
- The VWM assembly adhesive must be ordered separately.
- When mounting, follow Special Case 1 in accordance with the RAL guidelines for mounting. If there are any special requirements, it may be necessary to consider Special Case 2.
- It is important to check that installation has been performed correctly for the specific construction conditions (e.g. weight of window casement, surface properties). When planning and selecting suitable fasteners, their properties (e.g. application surface, edge spacings, loads) need to be taken into account.
- To attach fall-proof glazing in accordance with DIN 18008-4, additional suitable and approved securing systems such as the W-ABZ window installation rail (art. no. 0479 740 XXX) must be used. Alternatively, approval is required for each individual case.
- Instructions for processing can be found in the processing guidelines/mounting instructions.
- Technical data and other product documentation can be found in the online shop.

Pre-wall mounting system VWM

Pre-wall installation system with mounting brackets designed to be fitted circumferentially for optimal attachment and sealing of windows and doors in front of supporting walls in insulation layers



- Overhand of 80 mm to 200 mm possible
- Complies with the requirements of EnEV
- Window replacement in case of renovation or repair without damaging the façade/ETICS possible

Dimension VWM	Max. throat depth	Content (rm)	Art. no.	P. Qty.
80 x 80 x 1200 mm	80 mm	118.8 m	0479 742 108	1
140 x 90 x 1200 mm	140 mm	72 m	0479 742 114	1
160 x 110 x 1200 mm	160 mm	48 m	0479 742 116	1
180 x 110 x 1200 mm	180 mm	48 m	0479 742 118	1
200 x 110 x 1200 mm	200 mm	33.6 m	0479 742 120	1

Cover strip

High-quality self-adhesive plastic cover strip for the overlap of connecting joints

- For battening and lining connecting joints
- Quick installation with high-quality self-adhesive strips
- Well designed overlap of connecting joints



Processing temperature	0 °C
Max. temperature resistance	80 °C
Number of metres per pack	75 m
Thickness	7 mm
Colour	Traffic white RAL 9016

Width	Length	Art. no.	P. Qty.
20 mm	1500 mm	0518 822 150	75
20 mm	2500 mm	0518 822 250	75
30 mm	1500 mm	0518 823 150	75
30 mm	2500 mm	0518 823 250	75
40 mm	1500 mm	0518 824 150	75
40 mm	2500 mm	0518 824 250	75
50 mm	1500 mm	0518 825 150	75
50 mm	2500 mm	0518 825 250	75

Product is only suitable for visual enhancement of the connecting joints and therefore does not assume any sealing function

Flat strip

High-quality self-adhesive plastic flat strip for the overlap of connecting joints

- For battening and lining connecting joints
- With high-quality self-adhesive strips for quick and easy assembly
- Quick and simple to shorten, ensuring minimum waste



Length	50 m
Processing temperature	0 °C
Max. temperature resistance	80 °C
Number of metres per pack	50 m
Thickness	1 mm
Colour	Traffic white RAL 9016

Width	Art. no.	P. Qty.
20 mm	0518 802 500	1
30 mm	0518 803 500	1
40 mm	0518 804 500	1
50 mm	0518 805 500	1

Product is only suitable for visual enhancement of the connecting joints and therefore does not assume any sealing function

Flat strip with lip

High-quality self-adhesive plastic strip with lip for the overlap of connecting joints. Elegantly smooths out unevenness in the reveal.

- Plastic strip with lip, ideal for visual enhancement of connecting joints
Due to the flexible lip, more minor reveal unevenness is smoothed out
- With high-quality self-adhesive strips for quick and easy assembly



Processing temperature	0 °C
Max. temperature resistance	80 °C
Number of metres per pack	75 m

Continuation **Flat strip with lip**

Thickness	1 mm
Colour	Traffic white

Width	Length	Art. no.	P. Qty.
20 mm	1500 mm	0518 812 150	75
20 mm	2500 mm	0518 812 250	75
30 mm	1500 mm	0518 813 150	75
30 mm	2500 mm	0518 813 250	75
40 mm	1500 mm	0518 814 150	75
40 mm	2500 mm	0518 814 250	75
50 mm	1500 mm	0518 815 150	75
50 mm	2500 mm	0518 815 250	75

Product is only suitable for visual enhancement of the connecting joints and therefore does not assume any sealing function

Flat strip with seal for indoor use

High-quality self-adhesive plastic flat strip for covering, sealing and enhancing connecting joints

- Sealing function through additional adhesive connection
- Quick assembly



Width	25 mm
Processing temperature	0 °C
Max. temperature resistance	80 °C
Thickness	5 mm
Colour	Traffic white

Length	Number of metres per pack	Art. no.	P. Qty.
1500 mm	30 m	0518 832 150	30
2500 mm	50 m	0518 832 250	50

Flat strip with seal for outdoor use

High-quality self-adhesive plastic flat strip for covering and sealing connecting joints

- For the professional lining and battening of all types of joints and transitions throughout the home and construction industry
- Quick and easy assembly thanks to high-quality self-adhesive foam tape
- Green liner is for outdoor use



Width	25 mm
Processing temperature	0 °C
Max. temperature resistance	80 °C
Thickness	5 mm
Colour	Traffic white

Length	Number of metres per pack	Art. no.	P. Qty.
1500 mm	30 m	0518 852 150	30
2500 mm	50 m	0518 852 250	50

Window construction screw, self-drilling, raised countersunk head FEBOS® M

Steel, galvanized, blue passivated, PH drive. For non-automatic screw connections.

- Metric thread
- Self-drilling window construction screw for use in UPVC window construction
- For connecting UPVC profiles with the metal reinforcement (up to 2.5 mm) and for securing fittings on profiles with metal stiffening (up to 2.5 mm)
- Greater load capacity threads with thin sheathing iron
- The danger of forced feed with large distances between plastic and metal stiffening is minimised by the flat metric thread



Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Thread type x nominal diameter (d _t)	M4.0
Head diameter (d _h)	7 mm
Head height (k _t)	3.05 mm
Drill tip length (l _p)	5.2 mm
Drill tip diameter (d _p)	3.4 mm
Internal drive	H2

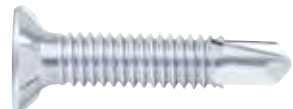
Length (l _t)	Art. no.	P. Qty.
16 mm	0207 184 016	6000
20 mm	0207 184 020	5000
25 mm	0207 184 025	4000
32 mm	0207 184 032	2500

Please also note the information on the overview page.

Window construction screw, self-drilling, countersunk milling head FEBOS® M

Steel, galvanized, blue passivated, PH drive

- Metric thread
- Self-drilling window construction screw for use in UPVC window construction
- For connecting UPVC profiles with the metal reinforcement (up to 2.5 mm) and for securing fittings on profiles with metal stiffening (up to 2.5 mm)
- Greater load capacity threads with thin sheathing iron
- The danger of forced feed with large distances between plastic and metal stiffening is minimised by the flat metric thread



Continuation **Window construction screw, self-drilling, countersunk milling head FEBOS® M**

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d ₁)	4 mm
Head diameter (d _h)	7.5 mm
Head height (k ₁)	2.2 mm
Internal drive	H2

Length (l ₁)	Drill tip length (l _p)	Art. no.	P. Qty.
13 mm	3.5 mm	0207 084 013	8000
16 mm	5.2 mm	0207 084 016	6000
20 mm	5.2 mm	0207 084 020	5000
25 mm	5.2 mm	0207 084 025	4000
32 mm	5.2 mm	0207 084 032	2500

Please also note the information on the overview page.

Window construction screw, self-drilling, countersunk milling head FEBOS® plus

Steel, galvanized, blue passivated, AW drive. For use in automatic machines, roll-sorted.



- Metric thread
- Head diameter 7.0 mm
- Self-drilling window construction screw for use in UPVC window construction
- For connecting UPVC profiles with the metal reinforcement (up to 2.5 mm) and for securing fittings on profiles with metal stiffening (up to 2.5 mm)
- Greater load capacity threads with thin sheathing iron
- The danger of forced feed with large distances between plastic and metal stiffening is minimised by the flat metric thread
- AW drive

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d ₁)	4 mm
Head diameter (d _h)	7 mm
Head height (k ₁)	2 mm
Internal drive	AW20

Length (l ₁)	Drill tip length (l _p)	Art. no.	P. Qty.
13 mm	3.5 mm	0208 044 013	8000
16 mm	5.2 mm	0208 044 016	6000
19 mm	5.2 mm	0208 044 019	5000
25 mm	5.2 mm	0208 044 025	4000

Please also note the information on the overview page.

Window construction screw, self-drilling, countersunk milling head FEBOS®plus

Steel, galvanized, blue passivated, PH drive. For use in automatic machines, roll-sorted.

- Self-tapping screw thread
- Head diameter 7.5 mm
- Demagnetised
- Self-drilling window construction screw for use in plastic window construction
- For connecting plastic profiles with the metal reinforcement (up to 2.5 mm) and for securing fittings on profiles with metal stiffening (up to 2.5 mm)



Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d ₁)	3.9 mm
Head diameter (d _h)	7.5 mm
Head height (k ₁)	3.05 mm
Drill tip length (l _p)	6 mm
Internal drive	H2

Length (l ₁)	Art. no.	P. Qty.
13 mm	0207 583 913	8000
16 mm	0207 583 916	6000
19 mm	0207 583 919	5000
22 mm	0207 583 922	4000
25 mm	0207 583 925	4000
32 mm	0207 583 932	2500
38 mm	0207 583 938	2000

Please also note the information on the overview page.

Window construction screw, self-drilling, raised countersunk head FEBOS®plus

Steel, galvanized, blue passivated, AW drive. For use in automatic machines, roll-sorted.

- Self-tapping screw thread
- Head diameter 7.0 mm
- Self-drilling window construction screw for use in plastic window construction
- For connecting plastic profiles with the metal reinforcement (up to 2.5 mm) and for securing fittings on profiles with metal stiffening (up to 2.5 mm)



AW drive

- Optimum transmission of forces
- No ejection forces
- Good centring
- Fast location

Continuation **Window construction screw, self-drilling, raised countersunk head FEBOS® plus**

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Thread type x nominal diameter (d _i)	ST3.9
Head diameter (d _h)	7 mm
Head height (k ₁)	2.4 mm
Drill tip length (l _p)	6 mm
Drill tip diameter (dp)	3.2 mm
Internal drive	AW20

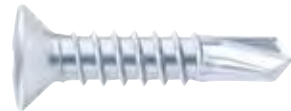
Length (l ₁)	Art. no.	P. Qty.
16 mm	0208 143 916	6000
19 mm	0208 143 919	5000
25 mm	0208 143 925	4000
32 mm	0208 143 932	2500
38 mm	0208 143 938	2000
45 mm	0208 143 945	1500
50 mm	0208 143 950	1000
55 mm	0208 143 955	1000
60 mm	0208 143 960	1000

Please also note the information on the overview page.

Window construction screw, self-drilling, raised countersunk head FEBOS® plus

Steel, galvanized, blue passivated, PH drive. For use in automatic machines, roll-sorted.

- Tapping screw thread
- Head diameter 7.0 mm
- Self-drilling window construction screw for use in UPVC window construction
- For connecting UPVC profiles with the metal reinforcement (up to 2.5 mm) and for securing fittings on profiles with metal stiffening (up to 2.5 mm)



Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Thread type x nominal diameter (d _i)	ST3.9
Head diameter (d _h)	7 mm
Drill tip length (l _p)	6 mm
Drill tip diameter (dp)	3.2 mm
Internal drive	H2

Length (l ₁)	Art. no.	P. Qty.
16 mm	0207 683 916	6000
19 mm	0207 683 919	5000

Length (l ₁)	Art. no.	P. Qty.
25 mm	0207 683 925	4000
32 mm	0207 683 932	2500
38 mm	0207 683 938	2000
45 mm	0207 683 945	1000
50 mm	0207 683 950	1000
55 mm	0207 683 955	1000
60 mm	0207 683 960	1000

Please also note the information on the overview page.

Window construction screw, raised countersunk head FBS

Steel, galvanized (thick-layer passivation), Delta-coil-coated, AW drive

- Drive: AW20
- Special thread with needle tip
- Head diameter 7.0 mm



Increased rust protection

In the salt-spray mist test according to DIN EN ISO 9227-NSS, 240 hours without red rust on base metal corrosion.

Thermal stability of corrosion protection layer 150° C

Cr(VI)-free corrosion protection layer.

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d)	4.1 mm
Head diameter (d _h)	7 mm
Head height (k)	2.2 mm
Internal drive	AW20

Length (l)	Art. no.	P. Qty.
16 mm	0188 294 116	6000
19 mm	0188 294 119	5000
22 mm	0188 294 122	4500
25 mm	0188 294 125	4000
30 mm	0188 294 130	2500
35 mm	0188 294 135	2000
38 mm	0188 294 138	2000
45 mm	0188 294 145	1500
50 mm	0188 294 150	1000
55 mm	0188 294 155	1000
60 mm	0188 294 160	1000

Please also note the information on the overview page.

Window construction screw, raised countersunk head FBS

Steel, galvanized (thick-layer passivation), Delta-coll-coated, PH drive

- Drive: PH2
- Special thread with needle tip
- Head diameter 7.0 mm



Increased rust protection

In the salt-spray mist test according to DIN EN ISO 9227-NSS, 240 hours without red rust on base metal corrosion.

Thermal stability of corrosion protection layer 150°C

Cr(VI)-free corrosion protection layer.

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d)	4.1 mm
Length (l)	22 mm
Head diameter (d _h)	7 mm
Head height (k)	2.2 mm
Internal drive	H2

Art. no. 0185 244 122

P. Qty.: 1000

Please also note the information on the overview page.

Window construction screw, raised countersunk head FBS

Steel, zinc-plated (thick-film passivation), Deltacoll-coated, PH drive. Roller-sorted

- Drive: PH2
- Special thread with needle tip
- Head diameter 7.0 mm



Increased rust protection

In the salt-spray mist test according to DIN EN ISO 9227-NSS, 240 hours without red rust on base metal corrosion.

Thermal stability of corrosion protection layer 150°C

Cr(VI)-free corrosion protection layer.

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d)	4.1 mm
Head diameter (d _h)	7 mm
Head height (k)	2.2 mm
Internal drive	H2

Length (l)	Art. no.	P. Qty.
16 mm	0185 944 116	6000
19 mm	0185 944 119	5000
22 mm	0185 944 122	4500

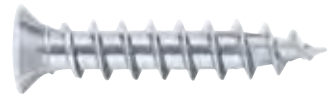
Length (l)	Art. no.	P. Qty.
25 mm	0185 944 125	4000
30 mm	0185 944 130	2500
35 mm	0185 944 135	2000
38 mm	0185 944 138	2000
45 mm	0185 944 145	1500
50 mm	0185 944 150	1000
55 mm	0185 944 155	1000
60 mm	0185 944 160	1000

Please also note the information on the overview page.

Window construction repair screw, raised countersunk head FBS

Steel, galvanised, blue coated, PH drive

- Special thread with needle tip
- Head diameter 7.0 mm
- Due to the 4.8-mm diameter, suitable for repair work with torn-out screws (diameter 3.9–4.2 mm)



Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d)	4.8 mm
Head diameter (d _h)	7 mm
Head height (k)	1.7 mm
Internal drive	H2

Length (l)	Art. no.	P. Qty.
25 mm	0185 284 825	500
38 mm	0185 284 838	500

Please also note the information on the overview page.

Window construction screw, raised countersunk head FBS 2

Steel, galvanized, blue passivated

- Drive: PH 2
- Double-threaded Hilo thread with needle tip
- Head diameter 7.0 mm



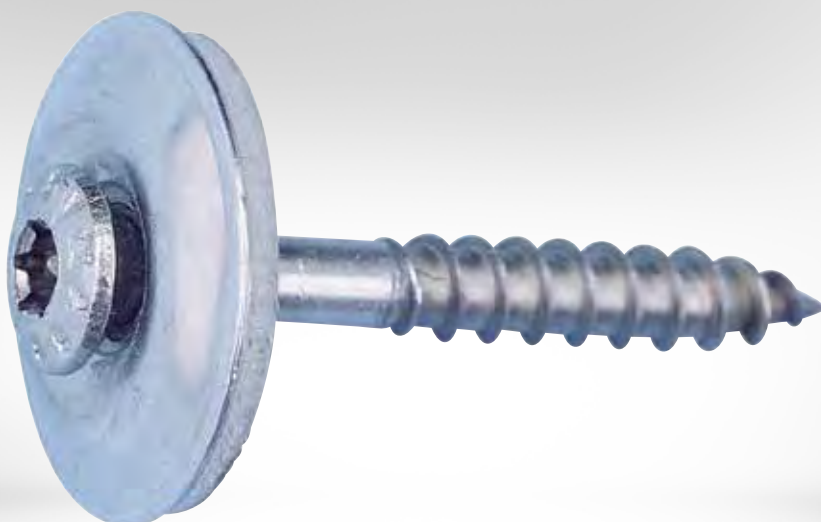
Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d)	4 mm
Head diameter (d _h)	7 mm
Internal drive	H2

Length (l)	Art. no.	P. Qty.
19 mm	0185 684 019	1000
22 mm	0185 684 022	1000
25 mm	0185 684 025	1000
30 mm	0185 684 030	1000

Continuation **Window construction screw, raised countersunk head**
FBS 2

Length (l)	Art. no.	P. Qty.
35 mm	0185 684 035	1000
38 mm	0185 684 038	500
45 mm	0185 684 045	500

Please also note the information on the overview page.



Plumber's sealing screw, A2 stainless steel

- Cured-on, high-quality EPDM sealing washer
- ASSY screw
- AW drive

Material	Stainless steel A2
Surface	Plain
Material of the washer	Stainless steel A2
Surface of the washer	Plain
Sealing-washer material	EPDM

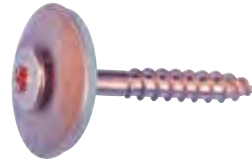
Nominal diameter (d)	Washer diameter (ds)	Length (l ₁)	Art. no.	P. Qty.
4.5 mm	15 mm	20 mm	0238 045 020	200/500
4.5 mm	15 mm	25 mm	0238 045 025	200/500
4.5 mm	15 mm	35 mm	0238 045 035	200/500
4.5 mm	15 mm	45 mm	0238 045 045	200/500
4.5 mm	15 mm	60 mm	0238 045 060	100
4.5 mm	15 mm	70 mm	0238 045 070	100
4.5 mm	15 mm	80 mm	0238 045 080	100
4.5 mm	15 mm	90 mm	0238 045 090	75
4.5 mm	15 mm	100 mm	0238 045 100	50
4.5 mm	15 mm	120 mm	0238 045 120	50
4.5 mm	15 mm	140 mm	0238 045 140	50
4.5 mm	20 mm	20 mm	0238 145 020	200/500
4.5 mm	20 mm	25 mm	0238 145 025	200/500

Continuation **Plumber's sealing screw, A2 stainless steel**

Nominal diameter (d)	Washer diameter (ds)	Length (l ₁)	Art. no.	P. Qty.
4.5 mm	20 mm	35 mm	0238 145 035	200/500
4.5 mm	20 mm	45 mm	0238 145 045	200/500
4.5 mm	20 mm	60 mm	0238 145 060	100
4.5 mm	20 mm	70 mm	0238 145 070	100
4.5 mm	20 mm	100 mm	0238 145 100	50
4.5 mm	20 mm	120 mm	0238 145 120	50
4.5 mm	20 mm	140 mm	0238 145 140	50
4.5 mm	25 mm	25 mm	0238 245 025	200
4.5 mm	25 mm	35 mm	0238 245 035	200
4.5 mm	25 mm	45 mm	0238 245 045	200
4.5 mm	25 mm	60 mm	0238 245 060	100
4.5 mm	25 mm	70 mm	0238 245 070	100
4.5 mm	25 mm	100 mm	0238 245 100	50
5 mm	20 mm	160 mm	0238 150 160	50
5 mm	20 mm	180 mm	0238 150 180	50
5 mm	20 mm	200 mm	0238 150 200	50
5 mm	20 mm	220 mm	0238 150 220	50
5 mm	20 mm	240 mm	0238 150 240	30
5 mm	20 mm	260 mm	0238 150 260	30
5 mm	20 mm	280 mm	0238 150 280	30
5 mm	20 mm	300 mm	0238 150 300	30

Plumber's sealing screw, A2 stainless steel, copper-plated

- Cured-on, high-quality EPDM sealing washer
- ASSY screw
- AW drive



Material	Stainless steel A2
Surface	Copper plated
Material of the washer	Copper
Surface of the washer	Plain
Sealing-washer material	EPDM
Colour	Copper

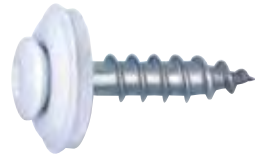
Nominal diameter (d)	Washer diameter (ds)	Length (l ₁)	Art. no.	P. Qty.
4.5 mm	15 mm	20 mm	0238 545 020	200/500
4.5 mm	15 mm	25 mm	0238 545 025	200/500
4.5 mm	15 mm	35 mm	0238 545 035	200/500
4.5 mm	15 mm	45 mm	0238 545 045	200/500
4.5 mm	15 mm	60 mm	0238 545 060	100
4.5 mm	15 mm	70 mm	0238 545 070	100
4.5 mm	15 mm	100 mm	0238 545 100	50
4.5 mm	20 mm	20 mm	0238 645 020	200/500
4.5 mm	20 mm	25 mm	0238 645 025	200/500
4.5 mm	20 mm	35 mm	0238 645 035	200/500
4.5 mm	20 mm	45 mm	0238 645 045	200/500
4.5 mm	20 mm	60 mm	0238 645 060	100
4.5 mm	20 mm	70 mm	0238 645 070	100
4.5 mm	20 mm	100 mm	0238 645 100	50
4.5 mm	20 mm	120 mm	0238 645 120	50

Nominal diameter (d)	Washer diameter (ds)	Length (l ₁)	Art. no.	P. Qty.
4.5 mm	20 mm	140 mm	0238 645 140	50
4.5 mm	25 mm	25 mm	0238 745 025	200
4.5 mm	25 mm	35 mm	0238 745 035	200
4.5 mm	25 mm	45 mm	0238 745 045	200
4.5 mm	25 mm	60 mm	0238 745 060	100
4.5 mm	25 mm	70 mm	0238 745 070	100
5 mm	20 mm	160 mm	0238 650 160	50
5 mm	20 mm	180 mm	0238 650 180	50
5 mm	20 mm	200 mm	0238 650 200	50
5 mm	20 mm	220 mm	0238 650 220	50

Plumber's sealing screw, colour

High-quality 2-component paint coating, abrasion-resistant and weather-resistant

- Vulcanised-on, high-quality EPDM seal
- ASSY screw
- AW drive



Nominal diameter (d)	4.5 mm
Washer diameter (ds)	15 mm
Material	Stainless steel A2
Material of the washer	Stainless steel A2
Surface of the washer	Lacquered
Sealing-washer material	EPDM

Length (l ₁)	Surface	Colour	Art. no.	P. Qty.
25 mm	Lacquered	Anthracite grey, similar to RAL 7016	0238 801 025	100
25 mm	Lacquered	Copper brown	0238 804 025	100
25 mm	Lacquered	Deep black	0238 802 025	100
25 mm	Lacquered	Oxide red	0238 805 025	100
25 mm	Lacquered	Pure white	0238 800 025	100
25 mm	Lacquered	Red brown	0238 803 025	100
25 mm	Lacquered	Sepia brown	0238 806 025	100
35 mm	Lacquered	Anthracite grey, similar to RAL 7016	0238 801 035	100
35 mm	Lacquered	Copper brown	0238 804 035	100
35 mm	Lacquered	Oxide red	0238 805 035	100
35 mm	Lacquered	Pure white	0238 800 035	100
35 mm	Lacquered	Red brown	0238 803 035	100
35 mm	Lacquered	Sepia brown	0238 806 035	100
35 mm	Plain	Deep black	0238 802 035	100
45 mm	Lacquered	Anthracite grey, similar to RAL 7016	0238 801 045	100
45 mm	Lacquered	Copper brown	0238 804 045	100
45 mm	Lacquered	Deep black	0238 802 045	100
45 mm	Lacquered	Oxide red	0238 805 045	100
45 mm	Lacquered	Pure white	0238 800 045	100
45 mm	Lacquered	Red brown	0238 803 045	100
45 mm	Lacquered	Sepia brown	0238 806 045	100

The colours may differ slightly from the original colour for production-related reasons.

ASSY® 4 A2 CS universal screw assortment A2 stainless steel plain partial thread countersunk head

705 pieces in system case. Partial-thread screw made of high-quality austenitic A2 stainless steel with countersunk head for universal wood-wood fastening in outdoor areas exposed to the elements

- Ideal power transmission thanks to RW drive
- Form-fitting connection to metal fittings or in wooden products with high bulk density
- Higher breaking torque
- Smooth thread start ensures optimised recessing and biting of the screw
- Stainless mounting for accessible wood connections in outdoor areas exposed to weathering

Art. no. 5964 018 700

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



ASSY




ETA-11/0190 approved

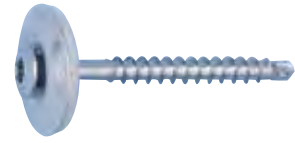


- Austenitic stainless steel is characterised by a high degree of corrosion resistance against aggressive industrial air, sea air, tap water, river water, mine water and salt water, as well as woods containing tannic acid. It is resistant to acid to a certain extent and not suitable for atmospheres containing chlorine gas
- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. ASSY screws can be dimensioned in the Würth timber construction software from a Ø of 5 mm
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

Plumber's sealing screw **pias®**

Self-drilling **pias®** drill tip

- Centre punching, boring, thread cutting and screwing in a single step
- Low contact pressure
- Optimum drilling performance
- Reduced time and effort



Cured-on, high-quality EPDM sealing washer

ASSY screw

AW drive

Nominal diameter (d)	4.5 mm
Material	Stainless steel A2
Surface	Plain
Material of the washer	Stainless steel A2
Surface of the washer	Plain
Sealing-washer material	EPDM

Washer diameter (ds)	Length (l ₁)	Art. no.	P. Qty.
15 mm	25 mm	0238 000 025	200
15 mm	35 mm	0238 000 035	200
15 mm	45 mm	0238 000 045	200
20 mm	25 mm	0238 001 025	200
20 mm	35 mm	0238 001 035	200
20 mm	45 mm	0238 001 045	200

Sealing washer for A2 plumber's sealing screw

Cured-on, high-quality EPDM seal

Internal diameter	5.4 mm
Material	Stainless steel A2
Sealing-washer material	EPDM



Outer diameter (d _e)	Art. no.	P. Qty.
15 mm	0234 150	500
20 mm	0234 200	500
25 mm	0234 250	500

Wing-tip drilling screw with countersunk milling head With AW drive **PIAS®**

The self-drilling screw with up to 50% time savings when fastening wood to metal sub-structures

Other standard	WN 219
Material	Steel



Continuation **Wing-tip drilling screw with countersunk milling head With AW drive PIAS®**

Surface	Zinc plated
Head type	Countersunk milling head
Thread type	Self-tapping screw thread
RoHS-compliant	Yes



Nominal diameter (d)	Length (l)	Head diameter (d _k)	Head height (k ₁)	Drill tip length (l _p)	Art. no.	P. Qty.
3.9 mm	25 mm	7.5 mm	3.2 mm	8 mm	0219 123 925	500
3.9 mm	32 mm	7.5 mm	3.2 mm	8 mm	0219 123 932	500
3.9 mm	38 mm	7.5 mm	3.2 mm	8 mm	0219 123 938	500
4.2 mm	32 mm	8 mm	3.2 mm	9 mm	0219 124 232	500
4.2 mm	38 mm	8 mm	3.2 mm	9 mm	0219 124 238	500
4.2 mm	50 mm	8 mm	3.2 mm	9 mm	0219 124 250	500
4.8 mm	32 mm	9.5 mm	4 mm	10 mm	0219 124 832	500
4.8 mm	38 mm	9.5 mm	4 mm	10 mm	0219 124 838	500
4.8 mm	50 mm	9.5 mm	4 mm	10 mm	0219 124 850	500
5.5 mm	38 mm	10.8 mm	4.4 mm	11 mm	0219 125 538	500
5.5 mm	45 mm	10.8 mm	4.4 mm	11 mm	0219 125 545	500
5.5 mm	50 mm	10.8 mm	4.4 mm	11 mm	0219 125 550	500
6.3 mm	45 mm	12.4 mm	5 mm	12.5 mm	0219 126 345	500
6.3 mm	65 mm	12.4 mm	5 mm	12.5 mm	0219 126 365	500

Please consider the legal instruction at the beginning of this chapter.

For 3.9/4.2/4.8 mm Ø

General construction permit Z-14.4-634

For use with wood and gypsum material boards and cement-bound mineral construction material boards with thin-walled steel profiles.

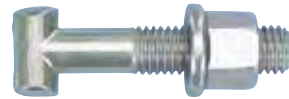
The recommendation for the maximum wood thickness l_H was calculated with reference to the maximum attachment thickness l_U of the substructure.

Wing-pias® must be appropriately tested for usability for each application case. Only install using equipment with depth stop and claw coupling.

Scaffolding screw

Incl. hexagon nut with collar

- Yellow galvanised steel (A2C)
- Strength class 5.8



Material	Steel
Surface	Zinc plated yellow
Thread type x nominal diameter (d ₁)	M14
Length (l ₁)	70 mm

External drive (s ₁)	Art. no.	P. Qty.
WS19	0228 914 70	50
WS22	0228 914 71	50

Distance assembly kit

For the quick and easy installation of trapezoidal and corrugated light panels on wooden substructures

- Can be completely assembled from one side
- Minimal effort thanks to pre-assembled sealing washer and spacer
- Therefore 50% time savings in assembly

Min. profile thickness	1 mm
Material of the screw	Stainless steel A2
Surface of the screw	Plain
Material of the sleeve	PA - Polyamide
Gasket material	Ethylene propylene diene terpolymer rubber



Nominal diameter	Length	Max. profile thickness	Min. profile height	Max. profile height	Art. no.	P. Qty.
4.8 mm	50 mm	2 mm	17 mm	20 mm	0217 948 50	100
4.8 mm	50 mm	3 mm	17 mm	20 mm	0217 948 51	100
6 mm	90 mm	2 mm	34 mm	38 mm	0217 960 90	100
6 mm	90 mm	2 mm	39 mm	43 mm	0217 960 91	100
6 mm	100 mm	2 mm	49 mm	53 mm	0217 960 101	100

Stepped drill bit

For the optimal pre-drilling of corrugated and trapezoidal light panels

- For use in combination with Würth spacer assembly set

Material	HSS
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Nominal diameter	Art. no.	P. Qty.
10 mm	0217 910	1
12 mm	0217 912	1

Self-tapping screw with bugle head

DIN 7500-1, large head, case-hardened steel (-O-), zinc flake silver, TXplus

- Pre-drill floor panel (wood or multi-layer panel or similar) with a diameter of at least 9 mm
- Countersink the holes in the floor panel according to the large countersunk head of the screw or set countersinking depth
- Pre-drill the steel substructure for the M8 thread groove and select the drill diameter according to the material strength and thickness (recommended dia. 7.2 mm)

Thread type x nominal diameter (d ₁)	M8
Head diameter (d _k)	22.5 mm
Head height (k ₁)	6 mm
Standards	DIN 7500-1
Material	Steel



Continuation **Self-tapping screw with bugle head**

Surface	Flake zinc silver
Head type	Bugle head
Internal drive	TXP40
Thread type	Metric thread
Guideline values for hole diameters	7.2 mm
RoHS-compliant	Yes

Length (l ₁)	Art. no.	P. Qty.
50 mm	0209 920 850	100
55 mm	0209 920 855	100
60 mm	0209 920 860	100

The grooving tip is not suitable for mounting. Grooving tip length is 5XP (P = thread pitch, at diameter M8 P = 1.25 mm).

Self-tapping screw with bugle head

DIN 7500-1, large head, case-hardened steel (-O-), zinc flake black, TXplus

- Pre-drill floor panel (wood or multi-layer panel or similar) with a diameter of at least 9 mm
- Countersink the holes in the floor panel according to the large countersunk head of the screw or set countersinking depth
- Pre-drill the steel substructure for the M8 thread groove and select the drill diameter according to the material strength and thickness (recommended dia. 7.2 mm)



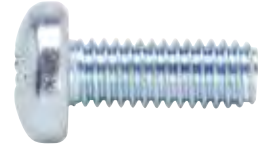
Thread type x nominal diameter (d ₁)	M8
Head diameter (d _h)	22.5 mm
Head height (k ₁)	6 mm
Standards	DIN 7500-1
Material	Steel
Surface	Flake zinc black
Head type	Bugle head
Internal drive	TXP40
Thread type	Metric thread
Guideline values for hole diameters	7.2 mm
RoHS-compliant	Yes

Length (l ₁)	Art. no.	P. Qty.
50 mm	0209 921 850	100
55 mm	0209 921 855	100
60 mm	0209 921 860	100

The grooving tip is not suitable for mounting. Grooving tip length is 5XP (P = thread pitch, at diameter M8 P = 1.25 mm).

GEFU® thread-rolling screw with Taptite 2000® thread, pan head with cross recessed

DIN 7500-1 (dimensions according to ISO 7045), shape CE, with case-hardened (-O-) galvanised steel, blue passivated (A2K) with anti-friction coating



- Non-cutting thread formation
- TRILOBULAR shape of the core diameter combined with the radius profile of the thread flanks
- Large thread flank overlap
- Strain-hardened receiving thread (nut thread)
- Play-free and self-locking thread seating
- The formed thread corresponds to a standard metric thread

Standards	DIN 7500-1
Material	Steel, case-hardened
Surface	Zinc plated
RoHS-compliant	Yes

Thread type x nominal diameter (d ₁)	Length (l ₁)	Head diameter (d _k)	Head height (k ₁)	Internal drive	Art. no.	P. Qty.
M3	6 mm	5.6 mm	2.4 mm	Z1	0209 753 06	200/2000
M3	8 mm	5.6 mm	2.4 mm	Z1	0209 753 08	200
M3	10 mm	5.6 mm	2.4 mm	Z1	0209 753 10	200/2000
M3	12 mm	5.6 mm	2.4 mm	Z1	0209 753 12	200
M3	16 mm	5.6 mm	2.4 mm	Z1	0209 753 16	200
M4	6 mm	8 mm	3.1 mm	Z2	0209 754 06	200/2000
M4	8 mm	8 mm	3.1 mm	Z2	0209 754 08	200/2000
M4	10 mm	8 mm	3.1 mm	Z2	0209 754 10	200/2000
M4	12 mm	8 mm	3.1 mm	Z2	0209 754 12	200/2000
M4	14 mm	8 mm	3.1 mm	Z2	0209 754 14	200
M4	16 mm	8 mm	3.1 mm	Z2	0209 754 16	200/1000
M4	20 mm	8 mm	3.1 mm	Z2	0209 754 20	200
M4	25 mm	8 mm	3.1 mm	Z2	0209 754 25	200
M5	8 mm	9.5 mm	3.7 mm	Z2	0209 755 08	200
M5	10 mm	9.5 mm	3.7 mm	Z2	0209 755 10	200/2000
M5	12 mm	9.5 mm	3.7 mm	Z2	0209 755 12	200/2000
M5	16 mm	9.5 mm	3.7 mm	Z2	0209 755 16	200/1000
M5	20 mm	9.5 mm	3.7 mm	Z2	0209 755 20	200
M5	25 mm	9.5 mm	3.7 mm	Z2	0209 755 25	200
M6	8 mm	12 mm	4.6 mm	Z3	0209 756 08	200/2000
M6	10 mm	12 mm	4.6 mm	Z3	0209 756 10	200/2000
M6	12 mm	12 mm	4.6 mm	Z3	0209 756 12	200/500/2000
M6	16 mm	12 mm	4.6 mm	Z3	0209 756 16	200/1000
M6	20 mm	12 mm	4.6 mm	Z3	0209 756 20	200
M6	25 mm	12 mm	4.6 mm	Z3	0209 756 25	200

The suitability of the GEFU for the application or component in question must be determined through preliminary testing. Guideline values for suitable hole diameters are specified in DIN 7500-2.

GEFU® self-tapping screw with Taptite 2000® thread, flat head and hexalobular socket

Mechanical and functional properties in accordance with DIN 7500-1 (shape PE), case-hardened (-O-) zinc-plated steel, blue passivated (A2K) with slide coating, head dimensions according to ISO 14583



- Non-cutting thread formation
- TRILOBULAR shape of the screw combined with the radius profile of the thread flanks
- Large thread flank overlap
- Strain-hardened counter thread (nut thread)
- Play-free and self-locking thread seating
- The formed thread corresponds to a standard metric thread

Standards	DIN 7500-1
Material	Steel, case-hardened
Surface	Zinc plated
RoHS-compliant	Yes

Thread type x nominal diameter (d ₁)	Length (l ₁)	Head diameter (d _k)	Head height (k ₁)	Internal drive	Art. no.	P. Qty.
M2.5	4 mm	5 mm	2.1 mm	TX8	0209 712 504	200
M2.5	5 mm	5 mm	2.1 mm	TX8	0209 712 505	200/2000
M2.5	6 mm	5 mm	2.1 mm	TX8	0209 712 506	200/2000
M2.5	8 mm	5 mm	2.1 mm	TX8	0209 712 508	200
M2.5	10 mm	5 mm	2.1 mm	TX8	0209 712 510	200
M2.5	12 mm	5 mm	2.1 mm	TX8	0209 712 512	200
M2.5	16 mm	5 mm	2.1 mm	TX8	0209 712 516	200/2000
M3	4 mm	5.6 mm	2.4 mm	TX10	0209 713 04	200/2000
M3	5 mm	5.6 mm	2.4 mm	TX10	0209 713 05	200/2000
M3	6 mm	5.6 mm	2.4 mm	TX10	0209 713 06	200/2000
M3	8 mm	5.6 mm	2.4 mm	TX10	0209 713 08	200/2000
M3	10 mm	5.6 mm	2.4 mm	TX10	0209 713 10	200/2000
M3	12 mm	5.6 mm	2.4 mm	TX10	0209 713 12	200/2000
M3	16 mm	5.6 mm	2.4 mm	TX10	0209 713 16	200
M3	20 mm	5.6 mm	2.4 mm	TX10	0209 713 20	200/2000
M3	25 mm	5.6 mm	2.4 mm	TX10	0209 713 25	200
M3	30 mm	5.6 mm	2.4 mm	TX10	0209 713 30	200
M3.5	5 mm	7 mm	2.6 mm	TX15	0209 713 505	200
M3.5	6 mm	7 mm	2.6 mm	TX15	0209 713 506	200
M3.5	8 mm	7 mm	2.6 mm	TX15	0209 713 508	200
M3.5	10 mm	7 mm	2.6 mm	TX15	0209 713 510	200
M3.5	12 mm	7 mm	2.6 mm	TX15	0209 713 512	200
M3.5	16 mm	7 mm	2.6 mm	TX15	0209 713 516	200/2000
M4	6 mm	8 mm	3.1 mm	TX20	0209 714 06	200/2000
M4	8 mm	8 mm	3.1 mm	TX20	0209 714 08	200/2000
M4	10 mm	8 mm	3.1 mm	TX20	0209 714 10	200/2000/ 2500
M4	12 mm	8 mm	3.1 mm	TX20	0209 714 12	200/2000
M4	14 mm	8 mm	3.1 mm	TX20	0209 714 14	200
M4	16 mm	8 mm	3.1 mm	TX20	0209 714 16	200/1000
M4	20 mm	8 mm	3.1 mm	TX20	0209 714 20	200/1000
M4	25 mm	8 mm	3.1 mm	TX20	0209 714 25	200

Thread type x nominal diameter (d ₁)	Length (l ₁)	Head dia- meter (d _k)	Head height (k ₁)	Internal drive	Art. no.	P. Qty.
M4	30 mm	8 mm	3.1 mm	TX20	0209 714 30	200/1000
M4	35 mm	8 mm	3.1 mm	TX20	0209 714 35	200
M4	45 mm	8 mm	3.1 mm	TX20	0209 714 45	200
M5	6 mm	9.5 mm	3.7 mm	TX25	0209 715 06	200/2000
M5	8 mm	9.5 mm	3.7 mm	TX25	0209 715 08	200/2000
M5	10 mm	9.5 mm	3.7 mm	TX25	0209 715 10	200/2000
M5	12 mm	9.5 mm	3.7 mm	TX25	0209 715 12	200/2000
M5	16 mm	9.5 mm	3.7 mm	TX25	0209 715 16	200/1000
M5	20 mm	9.5 mm	3.7 mm	TX25	0209 715 20	200/1000
M5	25 mm	9.5 mm	3.7 mm	TX25	0209 715 25	200/1000
M5	30 mm	9.5 mm	3.7 mm	TX25	0209 715 30	200/1000
M5	35 mm	9.5 mm	3.7 mm	TX25	0209 715 35	100
M5	40 mm	9.5 mm	3.7 mm	TX25	0209 715 40	100
M6	8 mm	12 mm	4.6 mm	TX30	0209 716 08	200
M6	10 mm	12 mm	4.6 mm	TX30	0209 716 10	200/2000
M6	12 mm	12 mm	4.6 mm	TX30	0209 716 12	200/2000
M6	16 mm	12 mm	4.6 mm	TX30	0209 716 16	200/1000
M6	20 mm	12 mm	4.6 mm	TX30	0209 716 20	200/1000
M6	25 mm	12 mm	4.6 mm	TX30	0209 716 25	200/1000
M6	30 mm	12 mm	4.6 mm	TX30	0209 716 30	200
M6	35 mm	12 mm	4.6 mm	TX30	0209 716 35	100/1000
M6	40 mm	12 mm	4.6 mm	TX30	0209 716 40	100/1000
M6	45 mm	12 mm	4.6 mm	TX30	0209 716 45	100
M6	50 mm	12 mm	4.6 mm	TX30	0209 716 50	100
M8	10 mm	16 mm	6 mm	TX45	0209 718 10	100/1000
M8	12 mm	16 mm	6 mm	TX45	0209 718 12	100
M8	16 mm	16 mm	6 mm	TX45	0209 718 16	100
M8	20 mm	16 mm	6 mm	TX45	0209 718 20	100
M8	25 mm	16 mm	6 mm	TX45	0209 718 25	100
M8	30 mm	16 mm	6 mm	TX45	0209 718 30	100/500
M8	35 mm	16 mm	6 mm	TX45	0209 718 35	100
M8	40 mm	16 mm	6 mm	TX45	0209 718 40	100
M8	45 mm	16 mm	6 mm	TX45	0209 718 45	100
M8	50 mm	16 mm	6 mm	TX45	0209 718 50	100
M8	55 mm	16 mm	6 mm	TX45	0209 718 55	100
M8	60 mm	16 mm	6 mm	TX45	0209 718 60	100

The suitability of the GEFU for the application or component in question must be determined through preliminary testing. Guideline values for suitable hole diameters are specified in DIN 7500-2.

WÜPLAST® pan head screw with Z Phillips head

WN 1412, galvanised steel 10.9, transparent coated (A3K) for thermo-plastic materials



30° angle

- Greater flank overlap

Thread pitch

- Material preservation

Reset core diameter

- Low screw-in torques

High-quality surfaces

Material	Steel
Property class	10.9
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d ₁)	Length (l ₁)	Head diameter (d _k)	Head height (k ₁)	Internal drive	Art. no.	P. Qty.
2.2 mm	5 mm	3.9 mm	1.48 mm	Z1	4216 22 5	2000
2.5 mm	6 mm	4.4 mm	1.82 mm	Z1	4216 25 6	1000/2000
2.5 mm	8 mm	4.4 mm	1.82 mm	Z1	4216 25 8	1000/2000
2.5 mm	10 mm	4.4 mm	1.82 mm	Z1	4216 25 10	1000/2000
2.5 mm	12 mm	4.4 mm	1.82 mm	Z1	4216 25 12	1000/2000
2.5 mm	16 mm	4.4 mm	1.82 mm	Z1	4216 25 16	1000/2000
3 mm	6 mm	5.3 mm	2.12 mm	Z1	4216 3 6	1000/2000
3 mm	8 mm	5.3 mm	2.12 mm	Z1	4216 3 8	1000/2000
3 mm	10 mm	5.3 mm	2.12 mm	Z1	4216 3 10	1000/2000
3 mm	12 mm	5.3 mm	2.12 mm	Z1	4216 3 12	1000/2000
3 mm	14 mm	5.3 mm	2.12 mm	Z1	4216 3 14	1000/2000
3 mm	16 mm	5.3 mm	2.12 mm	Z1	4216 3 16	1000/2000
3 mm	18 mm	5.3 mm	2.12 mm	Z1	4216 3 18	1000/2000
3 mm	20 mm	5.3 mm	2.12 mm	Z1	4216 3 20	1000/2000
3 mm	25 mm	5.3 mm	2.12 mm	Z1	4216 3 25	2000
3 mm	40 mm	5.3 mm	2.12 mm	Z1	4216 3 40	1000
3.5 mm	8 mm	6.1 mm	2.62 mm	Z2	4216 35 8	1000/2000
3.5 mm	10 mm	6.1 mm	2.62 mm	Z2	4216 35 10	1000/2000
3.5 mm	12 mm	6.1 mm	2.62 mm	Z2	4216 35 12	1000/2000
3.5 mm	14 mm	6.1 mm	2.62 mm	Z2	4216 35 14	1000/2000
3.5 mm	16 mm	6.1 mm	2.62 mm	Z2	4216 35 16	1000/2000
3.5 mm	20 mm	6.1 mm	2.62 mm	Z2	4216 35 20	1000/2000
3.5 mm	25 mm	6.1 mm	2.62 mm	Z2	4216 35 25	1000/2000
3.5 mm	30 mm	6.1 mm	2.62 mm	Z2	4216 35 30	1000/2000
4 mm	6 mm	7 mm	2.82 mm	Z2	4216 4 6	5000
4 mm	8 mm	7 mm	2.82 mm	Z2	4216 4 8	1000/2000
4 mm	10 mm	7 mm	2.82 mm	Z2	4216 4 10	1000/2000
4 mm	12 mm	7 mm	2.82 mm	Z2	4216 4 12	1000/2000
4 mm	14 mm	7 mm	2.82 mm	Z2	4216 4 14	1000/2000
4 mm	16 mm	7 mm	2.82 mm	Z2	4216 4 16	1000/2000
4 mm	20 mm	7 mm	2.82 mm	Z2	4216 4 20	1000/2000
4 mm	25 mm	7 mm	2.82 mm	Z2	4216 4 25	500/1000
4 mm	30 mm	7 mm	2.82 mm	Z2	4216 4 30	500/1000
4 mm	35 mm	7 mm	2.82 mm	Z2	4216 4 35	500/1000
4 mm	40 mm	7 mm	2.82 mm	Z2	4216 4 40	500/1000
5 mm	10 mm	8.8 mm	3.55 mm	Z2	4216 5 10	500/1000

Nominal diameter (d _i)	Length (l ₁)	Head diameter (d _k)	Head height (k ₁)	Internal drive	Art. no.	P. Qty.
5 mm	12 mm	8.8 mm	3.55 mm	Z2	4216 5 12	500/1000
5 mm	14 mm	8.8 mm	3.55 mm	Z2	4216 5 14	500/1000
5 mm	16 mm	8.8 mm	3.55 mm	Z2	4216 5 16	500/1000
5 mm	20 mm	8.8 mm	3.55 mm	Z2	4216 5 20	500
5 mm	25 mm	8.8 mm	3.55 mm	Z2	4216 5 25	500/1000
5 mm	30 mm	8.8 mm	3.55 mm	Z2	4216 5 30	500
5 mm	35 mm	8.8 mm	3.55 mm	Z2	4216 5 35	500
5 mm	40 mm	8.8 mm	3.55 mm	Z2	4216 5 40	500/1000
6 mm	12 mm	10.5 mm	4.15 mm	Z3	4216 6 12	1000
6 mm	16 mm	10.5 mm	4.15 mm	Z3	4216 6 16	1500
6 mm	20 mm	10.5 mm	4.15 mm	Z3	4216 6 20	500/1000
6 mm	25 mm	10.5 mm	4.15 mm	Z3	4216 6 25	500
6 mm	30 mm	10.5 mm	4.15 mm	Z3	4216 6 30	500
6 mm	40 mm	10.5 mm	4.15 mm	Z3	4216 6 40	1000

WÜPLAST screws only conform to strength class 10.9 as defined in DIN EN ISO 898-1 to a limited extent, since due to the screw geometry not all requirements can be tested and applied in accordance with the above standard.

WÜPLAST® pan head screw with hexalobular drive

WN 1452, austenitic steel A2, for thermoplastics

30° angle

- Greater flank coverage

Thread pitch

- Material preservation

Reset core diameter

- Low screw-in torques

High-quality surfaces



Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d _i)	Length (l ₁)	Head diameter (d _k)	Head height (k ₁)	Internal drive	Art. no.	P. Qty.
3 mm	8 mm	5.6 mm	2.22 mm	TX10	4231 3 8	2000
3 mm	10 mm	5.6 mm	2.22 mm	TX10	4231 3 10	2000
3 mm	12 mm	5.6 mm	2.22 mm	TX10	4231 3 12	2000
3 mm	20 mm	5.6 mm	2.22 mm	TX10	4231 3 20	2000
4 mm	10 mm	7.5 mm	2.72 mm	TX20	4231 4 10	2000
4 mm	12 mm	7.5 mm	2.72 mm	TX20	4231 4 12	2000
4 mm	16 mm	7.5 mm	2.72 mm	TX20	4231 4 16	2000
5 mm	10 mm	8.2 mm	3.02 mm	TX20	4231 5 10	1000
5 mm	12 mm	8.2 mm	3.02 mm	TX20	4231 5 12	1000

WÜPLAST® countersunk head screw with Z Phillips head

**WN 1413, steel 10.9, zinc-nickel, black coated (P3R)
for thermo-plastic materials.**



30° angle

- Greater flank overlap

Thread pitch

- Material preservation

Reset core diameter

- Low screw-in torques

High-quality surfaces

Material	Steel
Property class	10.9
Surface	Zinc nickel black
RoHS-compliant	Yes

Nominal diameter (d ₁)	Length (l ₁)	Head diameter (d _k)	Internal drive	Art. no.	P. Qty.
2.5 mm	6 mm	4.7 mm	Z1	4226 25 6	2000
2.5 mm	8 mm	4.7 mm	Z1	4226 25 8	2000
2.5 mm	10 mm	4.7 mm	Z1	4226 25 10	2000
3 mm	8 mm	5.5 mm	Z1	4226 3 8	2000
3 mm	10 mm	5.5 mm	Z1	4226 3 10	2000
3 mm	16 mm	5.5 mm	Z1	4226 3 16	2000
3.5 mm	8 mm	7.3 mm	Z2	4226 35 8	2000
3.5 mm	10 mm	7.3 mm	Z2	4226 35 10	2000
3.5 mm	12 mm	7.3 mm	Z2	4226 35 12	2000
3.5 mm	20 mm	7.3 mm	Z2	4226 35 20	2000
4 mm	10 mm	8.4 mm	Z2	4226 4 10	2000
4 mm	12 mm	8.4 mm	Z2	4226 4 12	2000
4 mm	16 mm	8.4 mm	Z2	4226 4 16	2000
4 mm	20 mm	8.4 mm	Z2	4226 4 20	2000
5 mm	12 mm	9.3 mm	Z2	4226 5 12	1000
5 mm	20 mm	9.3 mm	Z2	4226 5 20	1000

WÜPLAST screws only conform to strength class 10.9 as defined in DIN EN ISO 898-1 to a limited extent, since the screw geometry does not allow all requirements to be tested and applied in accordance with the above standard.

Lock washer, washer and nut assortment

**2400 pieces in system case 4.4.1. Zinc-plated steel,
blue passivated (A2K)**

Scope of delivery:

- Hexagon nuts, ISO 4032, strength class 8
- Washers, ISO 7089 in 200HV
- Washers, ISO 7093 in 200HV
- Lock washer, DIN 127

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes



ORSY

Product weight (per item)	6480 g
Number of pieces in assortment/set	2400 PCS

Art. no. 5964 514 900

P. Qty.: 1

Locking nut, nut and washer assortment

1700 pieces in system case 4.4.1. ISO 7040, ISO 4032, ISO 7089, steel or 200 HV for washers, zinc-plated, blue passivated (A2K)

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Product weight (per item)	6000 g
Number of pieces in assortment/set	1700 PCS



ORSY

Art. no. 5964 031 702

P. Qty.: 1



Threaded rod

DIN 976-1 (form A) with metric ISO standard thread, stainless steel A2

Standards	DIN 976-1
Material	Stainless steel A2
Surface	Plain
Form	A
Thread type	Metric thread
Identification colour	Traffic green RAL 6024
RoHS-compliant	Yes

Thread type x nominal diameter (d ₁)	Length (l ₁)	Property class	Art. no.	P. Qty.
M2	1000 mm	70	0954 2	10
M3	1000 mm	70	0954 3	1/100
M4	1000 mm	70	0954 4	1/100
M4	3000 mm	70	0954 003 4	20
M5	1000 mm	70	0954 5	1/100
M5	2000 mm	70	0954 002 5	1/50
M5	3000 mm	70	0954 003 5	1/25
M6	1000 mm	70	0954 6	1
M6	2000 mm	70	0954 002 6	1/25
M6	3000 mm	70	0954 003 6	1/25
M8	1000 mm	70	0954 8	1/50
M8	2000 mm	70	0954 002 8	1

Thread type x nominal diameter (d _n)	Length (l ₁)	Property class	Art. no.	P. Qty.
M8	3000 mm	70	0954 003 8	1/10
M10	1000 mm	70	0954 10	1/25
M10	2000 mm	70	0954 002 10	1
M10	3000 mm	70	0954 003 10	1
M12	1000 mm	70	0954 12	1/25
M12	2000 mm	70	0954 002 12	1
M12	3000 mm	70	0954 003 12	1
M14	1000 mm	70	0954 14	1/10
M14	2000 mm	70	0954 002 14	5
M14	3000 mm	70	0954 003 14	1
M16	1000 mm	70	0954 16	1/10
M16	2000 mm	70	0954 002 16	1
M16	3000 mm	70	0954 003 16	1
M18	1000 mm	70	0954 18	1/10
M18	2000 mm	70	0954 002 18	1
M20	1000 mm	70	0954 20	1/10
M20	2000 mm	70	0954 002 20	1
M20	3000 mm	70	0954 003 20	1
M22	1000 mm	70	0954 22	1/5
M24	1000 mm	70	0954 24	1/5
M24	2000 mm	70	0954 002 24	1
M24	3000 mm	70	0954 003 24	1
M27	1000 mm	50	0954 27	1
M27	3000 mm	50	0954 003 27	1
M30	1000 mm	50	0954 30	1
M30	2000 mm	50	0954 002 30	1
M30	3000 mm	50	0954 003 30	1
M33	2000 mm	50	0954 002 33	1
M33	3000 mm	50	0954 003 33	1
M36	3000 mm	50	0954 003 36	10
M39	1000 mm	50	0954 39	1
M42	1000 mm	50	0954 42	1

Threaded rod with test certificate

DIN 976-1 steel 10.9U hot-dip zinc-plated

Length (l ₁)	1000 mm
Standards	DIN 976-1
Material	Steel
Property class	10.9U
Surface	Hot dip galvanized
Form	A
Thread type	Metric thread
Identification colour	Oyster white RAL 1013
RoHS-compliant	Yes



Thread type x nominal diameter (d _n)	Art. no.	P. Qty.
M12	0959 000 312	1/25
M16	0959 000 316	1/10
M20	0959 000 320	1/5
M24	0959 000 324	1/5

Continuation Threaded rod with test certificate

Thread type x nominal diameter (d ₁)	Art. no.	P. Qty.
M27	0959 000 327	1
M30	0959 000 330	1
M36	0959 000 336	1
M42	0959 000 342	1
M48	0959 000 348	1

If required, the threaded rods are supplied with a test certificate "Acceptance test certificate 3.1" in accordance with EN 10204. (Please contact a sales representative in this respect).

Threaded rod

DIN 976, stainless steel A2-70, shape A

Standards	DIN 976-1
Material	Stainless steel A2
Surface	Plain
Form	A
RoHS-compliant	Yes



Thread type x nominal diameter (d ₁)	Length (l ₁)	Property class	Art. no.	P. Qty.
M3	50 mm	70	0954 93 50	200
M3	60 mm	70	0954 93 60	200
M3	70 mm	70	0954 93 70	200
M3	90 mm	70	0954 93 90	200
M3	100 mm	70	0954 93 100	200
M4	40 mm	70	0954 94 40	50
M4	50 mm	70	0954 94 50	100
M4	60 mm	70	0954 94 60	100
M4	65 mm	70	0954 94 65	25
M4	70 mm	70	0954 94 70	200
M4	80 mm	70	0954 94 80	100
M4	100 mm	70	0954 94 100	50
M4	120 mm	70	0954 94 120	1
M5	35 mm	70	0954 95 35	500
M5	40 mm	70	0954 95 40	1
M5	45 mm	70	0954 95 45	500
M5	50 mm	70	0954 95 50	100
M5	60 mm	70	0954 95 60	100
M5	75 mm	70	0954 95 75	100
M5	80 mm	70	0954 95 80	200
M5	100 mm	70	0954 95 100	100
M5	113 mm	70	0954 95 113	100
M5	140 mm	70	0954 95 140	10
M5	150 mm	70	0954 95 150	100
M5	220 mm	70	0954 95 220	50
M5	240 mm	70	0954 95 240	50
M6	15 mm	70	0954 96 15	100
M6	16 mm	70	0954 96 16	50
M6	20 mm	70	0954 96 20	100
M6	25 mm	70	0954 96 25	1000
M6	30 mm	70	0954 96 30	100
M6	35 mm	70	0954 96 35	100

Thread type x nominal diameter (d ₁)	Length (l ₁)	Property class	Art. no.	P. Qty.
M6	40 mm	70	0954 96 40	200
M6	45 mm	70	0954 96 45	500
M6	50 mm	70	0954 96 50	100
M6	55 mm	70	0954 96 55	100
M6	60 mm	70	0954 96 60	100
M6	65 mm	70	0954 96 65	100
M6	70 mm	70	0954 96 70	500
M6	75 mm	70	0954 96 75	200
M6	80 mm	70	0954 96 80	100
M6	95 mm	70	0954 96 95	1
M6	100 mm	70	0954 96 100	100
M6	110 mm	70	0954 96 110	500
M6	120 mm	70	0954 96 120	100
M6	140 mm	70	0954 96 140	50
M6	150 mm	70	0954 96 150	100
M6	165 mm	70	0954 96 165	100
M6	170 mm	70	0954 96 170	10
M6	180 mm	70	0954 96 180	10
M6	190 mm	70	0954 96 190	50
M6	200 mm	70	0954 96 200	100
M6	280 mm	70	0954 96 280	10
M6	500 mm	70	0954 96 500	100
M8	16 mm	70	0954 98 16	100
M8	20 mm	70	0954 98 20	100
M8	25 mm	70	0954 98 25	100
M8	30 mm	70	0954 98 30	100
M8	35 mm	70	0954 98 35	100
M8	40 mm	70	0954 98 40	100
M8	45 mm	70	0954 98 45	100
M8	50 mm	70	0954 98 50	100
M8	55 mm	70	0954 98 55	100
M8	60 mm	70	0954 98 60	100
M8	65 mm	70	0954 98 65	100
M8	70 mm	70	0954 98 70	100
M8	75 mm	70	0954 98 75	100
M8	90 mm	70	0954 98 90	50
M8	100 mm	70	0954 98 100	50
M8	110 mm	70	0954 98 110	100
M8	120 mm	70	0954 98 120	50
M8	127 mm	70	0954 96 127	10
M8	135 mm	70	0954 98 135	100
M8	140 mm	70	0954 98 140	50
M8	150 mm	70	0954 98 150	50
M8	160 mm	70	0954 98 160	100
M8	170 mm	70	0954 98 170	100
M8	175 mm	70	0954 98 175	100
M8	190 mm	70	0954 98 190	1
M8	200 mm	70	0954 98 200	100
M8	220 mm	70	0954 98 220	50
M8	225 mm	70	0954 98 225	10
M8	230 mm	70	0954 98 230	1
M8	240 mm	70	0954 98 240	100
M8	247 mm	70	0954 98 247	50
M8	250 mm	70	0954 98 250	100
M8	270 mm	70	0954 98 270	50

Continuation Threaded rod

Thread type x nominal diameter (d ₁)	Length (l ₁)	Property class	Art. no.	P. Qty.
M8	300 mm	70	0954 98 300	100
M8	330 mm	70	0954 98 330	50
M8	340 mm	70	0954 98 340	50
M8	450 mm	70	0954 98 450	10
M8	460 mm	70	0954 96 460	25
M8	500 mm	70	0954 98 500	50
M8	630 mm	70	0954 98 630	1
M8	635 mm	70	0954 98 635	25
M10	20 mm	70	0954 910 20	200
M10	25 mm	70	0954 910 25	100
M10	30 mm	70	0954 910 30	100
M10	35 mm	70	0954 910 35	100
M10	45 mm	70	0954 910 45	50
M10	55 mm	70	0954 910 55	100
M10	60 mm	70	0954 910 60	100
M10	65 mm	70	0954 910 65	100
M10	70 mm	70	0954 910 70	100
M10	73 mm	70	0954 910 73	100
M10	75 mm	70	0954 910 75	100
M10	80 mm	70	0954 910 80	100
M10	90 mm	70	0954 910 90	50
M10	95 mm	70	0954 910 95	100
M10	97 mm	70	0954 910 97	50
M10	100 mm	70	0954 910 100	25
M10	110 mm	70	0954 910 110	50
M10	120 mm	70	0954 910 120	100
M10	137 mm	70	0954 910 137	50
M10	140 mm	70	0954 910 140	20
M10	145 mm	70	0954 910 145	50
M10	150 mm	70	0954 910 150	50
M10	160 mm	70	0954 910 160	25
M10	170 mm	70	0954 910 170	100
M10	180 mm	70	0954 910 180	50
M10	185 mm	70	0954 910 185	100
M10	190 mm	70	0954 910 190	100
M10	200 mm	70	0954 910 200	50
M10	210 mm	70	0954 910 210	1
M10	240 mm	70	0954 910 240	50
M10	250 mm	70	0954 910 250	100
M10	260 mm	70	0954 910 260	25
M10	270 mm	70	0954 910 270	100
M10	277 mm	70	0954 910 277	20
M10	288 mm	70	0954 910 288	50
M10	310 mm	70	0954 910 310	25
M10	320 mm	70	0954 910 320	30
M10	325 mm	70	0954 910 325	1
M10	328 mm	70	0954 910 328	1
M10	340 mm	70	0954 910 340	25
M10	360 mm	70	0954 910 360	1
M10	400 mm	70	0954 910 400	10
M10	450 mm	70	0954 910 450	25
M10	472 mm	70	0954 910 472	1

Thread type x nominal diameter (d _n)	Length (l ₁)	Property class	Art. no.	P. Qty.
M10	500 mm	70	0954 910 500	1
M10	503 mm	70	0954 910 503	1
M10	530 mm	70	0954 910 530	1
M10	710 mm	70	0954 910 710	1
M12	35 mm	70	0954 912 35	100
M12	40 mm	70	0954 912 40	25
M12	50 mm	70	0954 912 50	100
M12	55 mm	70	0954 912 55	100
M12	60 mm	70	0954 912 60	100
M12	70 mm	70	0954 912 70	100
M12	80 mm	70	0954 912 80	100
M12	90 mm	70	0954 912 90	50
M12	100 mm	70	0954 912 100	25
M12	110 mm	70	0954 912 110	25
M12	120 mm	70	0954 912 120	50
M12	140 mm	70	0954 912 140	50
M12	150 mm	70	0954 912 150	50
M12	160 mm	70	0954 912 160	50
M12	175 mm	70	0954 912 175	10
M12	180 mm	70	0954 912 180	100
M12	190 mm	70	0954 912 190	25
M12	200 mm	70	0954 912 200	50
M12	210 mm	70	0954 912 210	25
M12	220 mm	70	0954 912 220	50
M12	230 mm	70	0954 912 230	50
M12	240 mm	70	0954 912 240	50
M12	245 mm	70	0954 912 45	100
M12	260 mm	70	0954 912 260	25
M12	280 mm	70	0954 912 280	50
M12	290 mm	70	0954 912 290	10
M12	300 mm	70	0954 912 300	25
M12	320 mm	70	0954 912 320	25
M12	330 mm	70	0954 912 330	100
M12	350 mm	70	0954 912 350	10
M12	365 mm	70	0954 912 365	1
M12	390 mm	70	0954 912 390	25
M12	400 mm	70	0954 912 400	25
M12	500 mm	70	0954 912 500	25
M14	200 mm	70	0954 914 200	100
M14	250 mm	70	0954 914 250	25
M14	260 mm	70	0954 914 260	25
M14	270 mm	70	0954 914 270	25
M14	280 mm	70	0954 914 280	10
M14	500 mm	70	0954 914 500	1
M16	30 mm	70	0954 916 30	200
M16	40 mm	70	0954 916 40	100
M16	60 mm	70	0954 916 60	25
M16	80 mm	70	0954 916 80	50
M16	85 mm	70	0954 916 85	50
M16	100 mm	70	0954 916 100	50
M16	105 mm	70	0954 916 105	25
M16	120 mm	70	0954 916 120	25
M16	125 mm	70	0954 916 125	100
M16	130 mm	70	0954 916 130	25
M16	140 mm	70	0954 916 140	10

Continuation Threaded rod

Thread type x nominal diameter (d ₁)	Length (l ₁)	Property class	Art. no.	P. Qty.
M16	150 mm	70	0954 916 150	10
M16	160 mm	70	0954 916 160	25
M16	175 mm	70	0954 916 175	25
M16	190 mm	70	0954 916 190	100
M16	200 mm	70	0954 916 200	100
M16	220 mm	70	0954 916 220	100
M16	230 mm	70	0954 916 230	1
M16	250 mm	70	0954 916 250	10
M16	270 mm	70	0954 916 270	50
M16	290 mm	70	0954 916 290	50
M16	300 mm	70	0954 916 300	50
M16	310 mm	70	0954 916 310	50
M16	325 mm	70	0954 916 325	1
M16	330 mm	70	0954 916 330	1
M16	340 mm	70	0954 916 340	1
M16	400 mm	70	0954 916 400	1
M16	450 mm	70	0954 916 450	1
M20	80 mm	70	0954 920 80	20
M20	110 mm	70	0954 920 110	1
M20	200 mm	70	0954 920 200	100
M20	250 mm	70	0954 920 250	1
M20	280 mm	70	0954 920 280	1
M20	340 mm	70	0954 920 340	1
M20	400 mm	70	0954 920 400	1
M20	500 mm	70	0954 920 500	10
M20	600 mm	70	0954 916 600	1
M24	200 mm	70	0954 924 200	1
M24	250 mm	70	0954 924 250	10
M24	300 mm	70	0954 924 300	100
M30	135 mm	50	0954 930 135	10
M30	175 mm	50	0954 930 175	1
M30	250 mm	50	0954 930 250	1

Threaded fitting

DIN 976, galvanised steel 8.8, shape A

Standards	DIN 976-1
Material	Steel
Property class	8.8
Surface	Zinc plated
Form	A
RoHS-compliant	Yes



Thread type x nominal diameter (d ₁)	Length (l ₁)	Art. no.	P. Qty.
M5	35 mm	0959 05 35	100
M5	45 mm	0959 05 45	100
M5	50 mm	0959 05 50	100
M5	60 mm	0959 05 60	100
M5	70 mm	0959 05 70	100

Thread type x nominal diameter (d ₁)	Length (l ₁)	Art. no.	P. Qty.
M5	80 mm	0959 05 80	50
M5	90 mm	0959 05 90	50
M5	100 mm	0959 05 100	50
M6	16 mm	0959 06 16	100
M6	25 mm	0959 06 25	1000
M6	30 mm	0959 06 30	100
M6	35 mm	0959 06 35	50
M6	40 mm	0959 06 40	50
M6	50 mm	0959 06 50	100
M6	55 mm	0959 06 55	50
M6	60 mm	0959 06 60	50
M6	65 mm	0959 06 65	50
M6	70 mm	0959 06 70	100
M6	75 mm	0959 06 75	50
M6	80 mm	0959 06 80	50
M6	85 mm	0959 06 85	50
M6	90 mm	0959 06 90	100
M6	95 mm	0959 06 95	50
M6	105 mm	0959 06 105	100
M6	115 mm	0959 06 115	100
M6	150 mm	0959 06 150	100
M6	155 mm	0959 06 155	100
M8	20 mm	0959 08 20	100
M8	25 mm	0959 08 25	100
M8	30 mm	0959 08 30	100
M8	35 mm	0959 08 35	100
M8	40 mm	0959 08 40	100
M8	45 mm	0959 08 45	100
M8	50 mm	0959 08 50	200
M8	55 mm	0959 08 55	100
M8	60 mm	0959 08 60	100
M8	65 mm	0959 08 65	50
M8	70 mm	0959 08 70	100
M8	80 mm	0959 08 80	100
M8	85 mm	0959 08 85	50
M8	95 mm	0959 08 95	50
M8	130 mm	0959 08 130	100
M8	140 mm	0959 08 140	25
M8	150 mm	0959 08 150	100
M8	160 mm	0959 008 160	50
M8	165 mm	0959 08 165	1
M8	175 mm	0959 08 175	50
M8	180 mm	0959 08 180	50
M8	190 mm	0959 08 190	10
M8	210 mm	0959 08 210	1
M8	245 mm	0959 08 245	10
M8	310 mm	0959 08 310	100
M8	604 mm	0959 08 604	25
M10	20 mm	0959 010 20	250
M10	30 mm	0959 010 30	200
M10	60 mm	0959 010 60	100
M10	80 mm	0959 010 80	100
M10	90 mm	0959 010 90	50
M10	100 mm	0959 010 100	25
M10	105 mm	0959 010 105	1

Continuation Threaded fitting

Thread type x nominal diameter (d ₁)	Length (l ₁)	Art. no.	P. Qty.
M10	110 mm	0959 010 110	25
M10	120 mm	0959 010 120	50
M10	135 mm	0959 010 135	50
M10	140 mm	0959 010 140	25
M10	150 mm	0959 010 150	100
M10	170 mm	0959 010 170	1
M10	180 mm	0959 010 180	100
M10	190 mm	0959 010 190	10
M10	200 mm	0959 010 200	100
M10	225 mm	0959 010 225	50
M10	270 mm	0959 010 270	50
M10	275 mm	0959 010 275	50
M10	285 mm	0959 010 285	50
M10	290 mm	0959 010 290	50
M10	300 mm	0959 010 300	50
M10	320 mm	0959 010 320	1
M10	380 mm	0959 010 380	10
M10	395 mm	0959 010 395	50
M10	475 mm	0959 010 475	100
M10	535 mm	0959 010 535	50
M10	600 mm	0959 010 600	10
M10	650 mm	0959 010 650	100
M12	40 mm	0959 012 40	100
M12	50 mm	0959 012 50	100
M12	55 mm	0959 012 55	50
M12	70 mm	0959 012 70	100
M12	75 mm	0959 012 75	100
M12	80 mm	0959 012 80	200
M12	90 mm	0959 012 90	100
M12	100 mm	0959 012 100	100
M12	110 mm	0959 012 110	25
M12	120 mm	0959 012 120	100
M12	130 mm	0959 012 130	10
M12	140 mm	0959 012 140	100
M12	150 mm	0959 012 150	100
M12	160 mm	0959 012 160	100
M12	180 mm	0959 012 180	1
M12	200 mm	0959 012 200	50
M12	210 mm	0959 012 210	50
M12	220 mm	0959 012 220	50
M12	275 mm	0959 012 275	1
M12	300 mm	0959 012 300	25
M12	370 mm	0959 012 370	25
M12	400 mm	0959 012 400	10
M12	570 mm	0959 012 570	20
M12	750 mm	0959 012 750	1
M14	250 mm	0959 014 250	1
M14	750 mm	0959 014 750	1
M16	30 mm	0959 016 30	1
M16	40 mm	0959 016 40	100
M16	60 mm	0959 016 60	100
M16	65 mm	0959 016 65	100

Thread type x nominal diameter (d ₁)	Length (l ₁)	Art. no.	P. Qty.
M16	75 mm	0959 016 75	1
M16	80 mm	0959 016 80	50
M16	90 mm	0959 016 90	1
M16	95 mm	0959 016 95	1
M16	100 mm	0959 016 100	10
M16	110 mm	0959 016 110	50
M16	120 mm	0959 016 120	50
M16	135 mm	0959 016 135	25
M16	150 mm	0959 016 150	25
M16	160 mm	0959 016 160	10
M16	162 mm	0959 016 162	125
M16	165 mm	0959 016 165	25
M16	170 mm	0959 016 170	25
M16	180 mm	0959 016 180	50
M16	190 mm	0959 016 190	25
M16	220 mm	0959 016 220	10
M16	230 mm	0959 016 230	25
M16	240 mm	0959 016 240	25
M16	260 mm	0959 016 260	4
M16	270 mm	0959 016 270	10
M16	300 mm	0959 016 300	25
M16	330 mm	0959 016 330	25
M16	350 mm	0959 016 350	10
M16	470 mm	0959 016 470	10
M16	665 mm	0959 016 665	10
M16	670 mm	0959 016 670	10
M16	900 mm	0959 016 900	10
M20	90 mm	0959 020 90	25
M20	110 mm	0959 020 110	5
M20	120 mm	0959 020 120	1
M20	125 mm	0959 020 125	5
M20	170 mm	0959 020 170	20
M20	180 mm	0959 020 180	1
M20	210 mm	0959 020 210	10
M20	240 mm	0959 020 240	10
M20	270 mm	0959 020 270	5
M20	330 mm	0959 020 330	10
M20	400 mm	0959 020 400	10
M20	450 mm	0959 020 450	1
M20	550 mm	0959 020 550	25
M20	565 mm	0959 020 565	1
M20	700 mm	0959 020 700	10
M20	930 mm	0959 020 930	1
M22	420 mm	0959 022 420	5
M24	125 mm	0959 024 125	1
M24	160 mm	0959 024 160	60
M24	180 mm	0959 024 180	1
M24	250 mm	0959 024 250	1
M24	260 mm	0959 024 260	10
M24	300 mm	0959 024 300	50
M24	380 mm	0959 024 380	20
M24	400 mm	0959 024 400	1
M24	500 mm	0959 024 500	10
M24	590 mm	0959 024 590	1
M24	600 mm	0959 024 600	1

Continuation Threaded fitting

Thread type x nominal diameter (d ₁)	Length (l ₁)	Art. no.	P. Qty.
M24	650 mm	0959 024 650	10
M24	930 mm	0959 024 930	1
M27	790 mm	0959 027 790	1
M30	250 mm	0959 030 250	20
M30	400 mm	0959 030 400	4
M30	410 mm	0959 030 410	1
M30	500 mm	0959 030 500	1
M33	200 mm	0959 033 200	10
M33	290 mm	0959 033 290	1
M36	250 mm	0959 036 250	1
M36	500 mm	0959 036 500	1
M36	650 mm	0959 036 650	1
M39	390 mm	0959 039 390	5
M45	725 mm	0959 045 725	1

Threaded rod

DIN 976 plain steel 4.8, shape A

Standards	DIN 976-1
Material	Steel
Property class	4.8
Surface	Plain
Form	A
RoHS-compliant	Yes



Thread type x nominal diameter (d ₁)	Length (l ₁)	Art. no.	P. Qty.
M5	65 mm	0950 05 65	1
M5	110 mm	0950 05 110	1
M6	20 mm	0950 6 20	500
M6	45 mm	0950 76 45	1
M6	65 mm	0950 06 65	1200
M6	100 mm	0950 06 100	10
M6	170 mm	0950 6 170	100
M8	20 mm	0950 08 20	500
M8	25 mm	0950 08 25	750
M8	30 mm	0950 08 30	100
M8	35 mm	0950 08 35	200
M8	40 mm	0950 08 40	100
M8	45 mm	0950 08 45	2500
M8	50 mm	0950 08 50	400
M8	70 mm	0950 08 70	100
M8	90 mm	0950 08 90	50
M8	120 mm	0950 08 120	100
M8	150 mm	0950 8 150	1
M8	310 mm	0950 08 310	1
M8	550 mm	0950 08 550	1
M8	600 mm	0950 08 600	1
M8	632 mm	0950 08 632	50
M8	720 mm	0950 08 720	1

Thread type x nominal diameter (d ₁)	Length (l ₁)	Art. no.	P. Qty.
M10	30 mm	0950 10 30	450
M10	40 mm	0950 10 40	50
M10	50 mm	0950 10 50	100
M10	80 mm	0950 10 80	100
M10	100 mm	0950 10 100	50
M10	120 mm	0950 10 120	100
M10	290 mm	0950 10 290	2500
M10	420 mm	0950 10 420	10
M12	30 mm	0950 12 30	500
M12	40 mm	0950 12 40	100
M12	45 mm	0950 12 45	100
M12	60 mm	0950 12 60	100
M12	90 mm	0950 12 90	100
M12	110 mm	0950 12 110	50
M12	140 mm	0950 12 140	1
M12	155 mm	0950 12 155	100
M12	205 mm	0950 12 205	100
M12	300 mm	0950 12 300	100
M16	200 mm	0950 16 200	10
M16	220 mm	0950 162 20	1
M16	330 mm	0950 163 30	1
M16	360 mm	0950 163 60	10
M16	400 mm	0950 164 00	50
M16	500 mm	0950 165 00	10
M16	600 mm	0950 166 00	100
M16	800 mm	0950 168 00	5
M16	900 mm	0950 16 900	10
M20	65 mm	0950 20 65	100
M20	130 mm	0950 20 130	1
M20	145 mm	0950 20 145	5
M20	170 mm	0950 20 170	1
M20	250 mm	0950 20 250	10
M24	600 mm	0950 24 600	1

Coupling sleeve Type B

With slot

- Connection can be loosened as many times as necessary
- Quickly screw into holes using manual, electrical or pneumatic tools
- Sharp self-tapping male thread



Material	Steel
Surface	Plain
RoHS-compliant	Yes
Internal drive	Slot

Thread type x nominal diameter (d ₁)	Outer diameter (d ₂)	Length (l ₁)	Art. no.	P. Qty.
M4	8 mm	8 mm	0376 04 8	250
M4	8 mm	10 mm	0376 04 10	250
M5	10 mm	10 mm	0376 05 10	250
M5	10 mm	12 mm	0376 05 12	250

Continuation **Coupling sleeve Type B**

Thread type x nominal diameter (d ₁)	Outer diameter (d ₂)	Length (l ₁)	Art. no.	P. Qty.
M5	10 mm	14 mm	0376 05 14	250
M6	12 mm	10 mm	0376 06 10	250
M6	12 mm	11 mm	0376 06 11	250
M6	12 mm	13 mm	0376 06 13	250
M6	12 mm	15 mm	0376 06 15	250
M6	12 mm	18 mm	0376 06 18	250
M8	14 mm	14 mm	0376 08 14	250
M8	14 mm	15 mm	0376 08 15	250
M8	14 mm	18 mm	0376 08 18	250
M8	16 mm	23 mm	0376 08 23	250
M10	18.5 mm	15 mm	0376 010 15	250
M10	18.5 mm	20 mm	0376 010 20	250
M10	18.5 mm	25 mm	0376 010 25	250
M12	22 mm	20 mm	0376 012 20	100

Please use the corresponding bits (art. pre-no. 0614) as insertion tools.

Coupling sleeve Type SK

With hexagon socket

- Connection can be loosened as many times as necessary
- Quickly screw into holes using manual, electrical or pneumatic tools
- Sharp self-tapping male thread



Material	Steel
Surface	Plain
RoHS-compliant	Yes

Thread type x nominal diameter (d ₁)	Outer diameter (d ₂)	Length (l ₁)	Internal drive	Art. no.	P. Qty.
M5	10 mm	10 mm	HS5	0376 15 10	250
M5	10 mm	12 mm	HS5	0376 15 12	250
M6	12 mm	12 mm	HS6	0376 16 12	250
M6	12 mm	15 mm	HS6	0376 16 15	250
M6	12 mm	18 mm	HS6	0376 16 18	250
M8	14 mm	15 mm	HS8	0376 18 15	250
M8	14 mm	18 mm	HS8	0376 18 18	250
M8	16 mm	23 mm	HS8	0376 18 23	250
M10	18.5 mm	20 mm	HS10	0376 110 20	250
M10	18.5 mm	25 mm	HS10	0376 110 25	250

Please use the corresponding bits (art. pre-no. 0614) as insertion tools.

Coupling sleeve Type SKD

With hexagon socket and collar

- Connection can be loosened as many times as necessary
- Quickly screw into holes using manual, electrical or pneumatic tools
- Sharp self-tapping male thread



Material	Steel
Surface	Plain
RoHS-compliant	Yes

Thread type x nominal diameter (d ₁)	Outer diameter (d ₂)	Length (l ₁)	Internal drive	Art. no.	P. Qty.
M4	8 mm	10 mm	HS4	0376 24 10	250
M5	10 mm	12 mm	HS5	0376 25 12	250/1000
M6	12 mm	12 mm	HS6	0376 26 12	250
M6	12 mm	15 mm	HS6	0376 26 15	250
M6	12 mm	18 mm	HS6	0376 26 18	250
M8	14 mm	15 mm	HS8	0376 28 15	250
M8	16 mm	18 mm	HS8	0376 28 18	250
M10	18.5 mm	20 mm	HS10	0376 210 20	250
M12	22 mm	25 mm	HS12	0376 212 25	100

Please use the corresponding bits (art. pre-no. 0614) as insertion tools.

Sealing ring, copper, shape A

Shape A

- A copper ring can be used anywhere (except in the presence of some strong acids) due to its corrosion resistance. Via special pre-heating, the metal ring's structure softens further so that, when under pressure, it can embed itself into all the uneven areas of the parts to be screwed together.



Material	Copper
Surface	Plain
Form	A
Max. temperature resistance	300 °C

Outer diameter (d ₂)	Internal diameter (d ₁)	Thickness (h ₁)	Nominal size	RoHS-compliant	Art. no.	P. Qty.
7.4 mm	5.2 mm	1 mm	5 x 7,5 mm	Yes	0460 5 75	100
7.9 mm	4.2 mm	1 mm	4 x 8 mm	Yes	0460 4 8	100/1000
7.9 mm	5.7 mm	1 mm	5.5 x 8 mm	Yes	0460 55 8	200
8.9 mm	5.2 mm	1 mm	5 x 9 mm	Yes	0460 5 9	100/1000
9.4 mm	6.7 mm	1 mm	6.5 x 9.5 mm	Yes	0460 65 95	1000
9.9 mm	6.2 mm	1 mm	6 x 10 mm	Yes	0460 6 10	100/300/10000
9.9 mm	8.2 mm	1 mm	8 x 10 mm	Yes	0460 8 10	1000
10.9 mm	6.7 mm	1 mm	6.5 x 11 mm	Yes	0460 65 11	500
11.4 mm	8.2 mm	1 mm	8 x 11.5 mm	Yes	0460 8 115	100/2000
11.9 mm	6.2 mm	1 mm	6 x 12 mm	Yes	0460 6 12	50/100
11.9 mm	8.2 mm	1 mm	8 x 12 mm	Yes	0460 8 12	50/100/5000
11.9 mm	10.2 mm	1 mm	10 x 12 mm	Yes	0460 10 12	100

Continuation **Sealing ring, copper, shape A**

Outer diameter (d ₂)	Internal diameter (d ₁)	Thickness (h ₁)	Nominal size	RoHS-compliant	Art. no.	P. Qty.
12.9 mm	8.2 mm	1 mm	8 x 13 mm	Yes	0460 8 13	1000
13.4 mm	10.2 mm	1 mm	10 x 13.5 mm	Yes	0460 10 135	2500
13.9 mm	8.2 mm	1 mm	8 x 14 mm	Yes	0460 8 14	50/100/500
13.9 mm	8.2 mm	1.5 mm	8 x 14 mm	Yes	0460 8 141	1000
13.9 mm	10.2 mm	1 mm	10 x 14 mm	Yes	0460 10 14	100/300/2500
13.9 mm	10.2 mm	1.5 mm	10 x 14 mm	Yes	0460 10 141	1000
13.9 mm	10.2 mm	2.5 mm	10 x 14 mm		0460 101 425	500
13.9 mm	11.2 mm	1 mm	11 x 14 mm	Yes	0460 111 410	1000
14.9 mm	10.2 mm	1 mm	10 x 15 mm	Yes	0460 10 15	2500
15.4 mm	12.2 mm	1.5 mm	12 x 15.5 mm	Yes	0460 12 155	500
15.9 mm	10.2 mm	1 mm	10 x 16 mm	Yes	0460 10 16	100/300/2500
15.9 mm	10.2 mm	1.5 mm	10 x 16 mm		0460 10 161	1000
15.9 mm	12.2 mm	1.5 mm	12 x 16 mm	Yes	0460 12 16	100/500
16.9 mm	10.2 mm	1.5 mm	10 x 17 mm	Yes	0460 101 715	200
16.9 mm	12.2 mm	1.5 mm	12 x 17 mm	Yes	0460 12 17	50/1000
16.9 mm	13.7 mm	1.5 mm	13 x 17 mm	Yes	0460 135 171	1000
17.9 mm	10.2 mm	1 mm	10 x 18 mm	Yes	0460 10 18	100/1000
17.9 mm	12.2 mm	1.5 mm	12 x 18 mm	Yes	0460 12 18	100/300/1000
17.9 mm	13.2 mm	1 mm	13 x 18 mm	Yes	0460 13 181	500
17.9 mm	13.2 mm	1.5 mm	13 x 18 mm	Yes	0460 13 18	100/300/500
17.9 mm	14.2 mm	1.5 mm	14 x 18 mm	Yes	0460 14 18	100/300/1000
18.9 mm	15.2 mm	1.5 mm	15 x 19 mm	Yes	0460 15 19	500
19.9 mm	11.2 mm	2 mm	11 x 20 mm	Yes	0460 11 202	100
19.9 mm	12.2 mm	2 mm	12 x 20 mm	Yes	0460 12 202	200
19.9 mm	13.2 mm	1 mm	13 x 20 mm	Yes	0460 13 201	100
19.9 mm	13.2 mm	2 mm	13 x 20 mm	Yes	0460 13 202	500
19.9 mm	14.2 mm	1.5 mm	14 x 20 mm	Yes	0460 14 20	100/300/500
19.9 mm	14.2 mm	2.5 mm	14 x 20 mm	Yes	0460 14 203	500
19.9 mm	14.2 mm	3 mm	14 x 20 mm	Yes	0460 142 030	100
19.9 mm	15.2 mm	1.5 mm	15 x 20 mm	Yes	0460 15 20	100
19.9 mm	16.2 mm	1.5 mm	16 x 20 mm	Yes	0460 16 20	100/300/1000
20.9 mm	17.2 mm	1.5 mm	17 x 21 mm	Yes	0460 17 21	100/1000
21.9 mm	14.2 mm	1.5 mm	14 x 22 mm	Yes	0460 14 22	100/300/1000
21.9 mm	16.2 mm	1.5 mm	16 x 22 mm	Yes	0460 16 22	100/300/500
21.9 mm	18.2 mm	1.5 mm	18 x 22 mm	Yes	0460 18 22	50/100/500
22.9 mm	17.2 mm	1.5 mm	17 x 23 mm	Yes	0460 17 23	50/100
23.9 mm	16.2 mm	1.5 mm	16 x 24 mm	Yes	0460 16 24	100/1000
23.9 mm	16.2 mm	2 mm	16 x 24 mm	Yes	0460 16 242	1000
23.9 mm	18.2 mm	1.5 mm	18 x 24 mm	Yes	0460 18 24	50/100/500
23.9 mm	20.2 mm	1.5 mm	20 x 24 mm	Yes	0460 20 24	50/100/1000
24.9 mm	13.7 mm	2 mm	13 x 25 mm	Yes	0460 135 252	100
25.9 mm	20.2 mm	1.5 mm	20 x 26 mm	Yes	0460 20 26	50/100/1000
25.9 mm	21.2 mm	1.5 mm	21 x 26 mm	Yes	0460 21 26	50/100/1000
26.9 mm	22.2 mm	1.5 mm	22 x 27 mm	Yes	0460 22 27	50/100/1000

Outer diameter (d ₂)	Internal diameter (d ₁)	Thickness (h ₁)	Nominal size	RoHS-compliant	Art. no.	P. Qty.
27.9 mm	21.2 mm	1.5 mm	21 x 28 mm	Yes	0460 21 28	50/100/500
27.9 mm	23.3 mm	1.5 mm	23 x 28 mm	Yes	0460 23 28	100
28.9 mm	22.2 mm	1.5 mm	22 x 29 mm	Yes	0460 22 29	50/100
28.9 mm	24.3 mm	2 mm	24 x 29 mm	Yes	0460 24 29	50
29.9 mm	24.3 mm	2 mm	24 x 30 mm	Yes	0460 24 30	50/100/500
29.9 mm	25.3 mm	2 mm	25 x 30 mm	Yes	0460 25 30	200
30.9 mm	26.3 mm	2 mm	26 x 31 mm	Yes	0460 26 31	500
31.9 mm	24.3 mm	2 mm	24 x 32 mm	Yes	0460 24 32	50/100
31.9 mm	26.3 mm	1 mm	26 x 32 mm	Yes	0460 26 321	200
31.9 mm	26.3 mm	2 mm	26 x 32 mm	Yes	0460 26 32	50/100
31.9 mm	27.3 mm	2 mm	27 x 32 mm	Yes	0460 27 32	50/100/500
32.9 mm	28.3 mm	2 mm	28 x 33 mm	Yes	0460 28 33	100
33.9 mm	26.3 mm	2 mm	26 x 34 mm	Yes	0460 26 34	50/100/500
33.9 mm	28.3 mm	2 mm	28 x 34 mm	Yes	0460 28 34	50/100/200
35.9 mm	30.3 mm	2 mm	30 x 36 mm	Yes	0460 30 36	25/100
37.9 mm	30.3 mm	2 mm	30 x 38 mm	Yes	0460 30 38	25/100
37.9 mm	32.3 mm	2 mm	32 x 38 mm	Yes	0460 32 38	25
38.9 mm	33.3 mm	2 mm	33 x 39 mm	Yes	0460 33 39	25/100
40 mm	35 mm	2 mm	35 x 40 mm	Yes	0460 354 02	100
40.9 mm	33.3 mm	2 mm	33 x 41 mm	Yes	0460 33 41	25/100
40.9 mm	35.3 mm	2 mm	35 x 41 mm	Yes	0460 35 41	25
41.9 mm	36.3 mm	2 mm	36 x 42 mm	Yes	0460 36 42	25
43.9 mm	38.3 mm	2 mm	38 x 44 mm	Yes	0460 38 44	25/100
45.9 mm	39.3 mm	2 mm	39 x 46 mm	Yes	0460 39 46	100
46.9 mm	40.3 mm	2 mm	40 x 47 mm	Yes	0460 40 47	25/100
48.9 mm	42.3 mm	2 mm	42 x 49 mm	Yes	0460 42 49	25/100
50.9 mm	45.3 mm	2 mm	45 x 51 mm	Yes	0460 42 51	50
51.9 mm	45.3 mm	2 mm	45 x 52 mm	Yes	0460 45 52	25
54.9 mm	48.3 mm	2 mm	48 x 55 mm	Yes	0460 48 55	25
63 mm	55 mm	2.5 mm	55 x 63 mm	Yes	0460 55 63	25
63.8 mm	56.5 mm	2.5 mm	56 x 65 mm	Yes	0460 56 65	50
67.8 mm	60.5 mm	2.5 mm	60 x 68 mm	Yes	0460 60 68	100
83.8 mm	75.5 mm	2.5 mm	75 x 84 mm	Yes	0460 75 84	25
190 mm	180 mm	1.5 mm	180 x 190 mm	Yes	0460 180 190	50

O-ring, imperial

Inch

- Made of Perbunan N (nitrile rubber) PN 70 ±5
- Temperature resistance: -35°C to +120°C
- Space-saving, easy to install, reliable sealing elements.
- Resistant to all mineral oils, lubricating grease, hot water, steam, compressed air and weak acids.



ISO	3601
Design	Imperial
Material	Perbunan
Surface	Plain
Shore A hardness	70 +/- 5
Min./max. temperature resistance	-35 to 120 °C
RoHS-compliant	Yes

Continuation **O-ring, imperial**

Internal diameter (d _i)	Thickness (h _i)	Art. no.	P. Qty.
2.9 mm	1.78 mm	0468 290	50/1000
3.69 mm	1.78 mm	0468 369	50
4.47 mm	1.78 mm	0468 447	50/2000
5.28 mm	1.78 mm	0468 528	25/4000
6.07 mm	1.78 mm	0468 607	25/50/1000
7.66 mm	1.78 mm	0468 766	25
9.19 mm	2.62 mm	0468 919	50/1000
9.25 mm	1.78 mm	0468 925	25/1000
10.78 mm	2.62 mm	0468 107 8	25/1000
12.37 mm	2.62 mm	0468 123 7	25
13.95 mm	2.62 mm	0468 139 5	25/1000
15.54 mm	2.62 mm	0468 155 4	25/1000
17.13 mm	2.62 mm	0468 171 3	25/1000
18.64 mm	3.53 mm	0468 186 4	25/500
18.72 mm	2.62 mm	0468 187 2	25/400
20.22 mm	3.53 mm	0468 202 2	25/500
21.82 mm	3.53 mm	0468 218 2	25
23.4 mm	3.53 mm	0468 234 0	25/500
25 mm	3.53 mm	0468 250 0	25/500
26.57 mm	3.53 mm	0468 265 7	25/300
28.17 mm	3.53 mm	0468 281 7	25/1000
29.75 mm	3.53 mm	0468 297 5	25/250
31.34 mm	3.53 mm	0468 313 4	25/100
32.93 mm	3.53 mm	0468 329 3	25/200
34.52 mm	3.53 mm	0468 345 2	25/250
36.1 mm	3.53 mm	0468 361 0	25/150
37.47 mm	5.34 mm	0468 374 7	25
37.7 mm	3.53 mm	0468 377 0	25
40.65 mm	5.34 mm	0468 406 5	25
43.82 mm	5.34 mm	0468 438 2	25

O-ring, metric

Metric

- Made of Perbunan N (nitrile rubber) PN 70 ±5
- Temperature resistance: -35°C to +120°C
- Space-saving, easy to install, reliable sealing elements.
- Resistant to all mineral oils, lubricating grease, hot water, steam, compressed air and weak acids.



ISO	3601
Design	Metric
Material	Perbunan
Surface	Plain
Shore A hardness	70 +/- 5
Min./max. temperature resistance	-35 to 120 °C
Colour	Black
RoHS-compliant	Yes

Internal diameter (d _i)	Thickness (h _i)	Art. no.	P. Qty.
1.78 mm	1.78 mm	0468 001 17	5000
1.8 mm	1.8 mm	0468 004 18	500
2 mm	1.25 mm	0468 002 125	1000
2 mm	1.5 mm	0468 002 15	5000
2.2 mm	1 mm	0468 22	2000
2.4 mm	1.9 mm	0468 024 18	100
2.5 mm	1 mm	0468 025 10	2500
2.5 mm	1.2 mm	0468 002 512	2000
3 mm	1 mm	0468 003 10	5000
3 mm	1.25 mm	0468 003 125	2500
3 mm	2 mm	0468 003 20	50/10000
3.25 mm	0.64 mm	0468 325	1000
3.5 mm	1.5 mm	0468 350	2000
4 mm	1 mm	0468 004 10	5000
4 mm	1.5 mm	0468 004 15	2500
4 mm	2 mm	0468 004 20	50/3500
4 mm	3 mm	0468 004 30	500
4.2 mm	1.9 mm	0468 42	1000
5 mm	1 mm	0468 005 10	1000
5 mm	1.2 mm	0468 005 12	5000
5 mm	1.5 mm	0468 005 15	5000
5 mm	2 mm	0468 005 20	50/2000
5 mm	2.5 mm	0468 005 25	1000
6 mm	1 mm	0468 006 10	5000
6 mm	1.5 mm	0468 006 15	5000
6 mm	2 mm	0468 006 20	50/3000
6 mm	3 mm	0468 006 30	1000
6 mm	3.5 mm	0468 006 35	200
6.3 mm	2.4 mm	0468 63	1000
7 mm	1 mm	0468 007 10	5000
7 mm	1.5 mm	0468 007 15	5000
7 mm	2 mm	0468 007 20	50/5000
7 mm	2.5 mm	0468 007 25	1000
7 mm	3 mm	0468 007 30	1000
7.5 mm	2 mm	0468 007 21	1000
7.65 mm	1.78 mm	0468 765	1000
8 mm	1 mm	0468 008 10	1000
8 mm	1.25 mm	0468 008 12	500
8 mm	1.5 mm	0468 008 15	2000
8 mm	1.6 mm	0468 008 16	500
8 mm	2 mm	0468 008 20	50/2500
8 mm	2.5 mm	0468 008 25	1800
8 mm	3 mm	0468 008 30	1200
8 mm	3.5 mm	0468 008 35	1000
8 mm	4 mm	0468 008 40	1000
8.3 mm	2.4 mm	0468 008 24	1000
8.5 mm	1.5 mm	0468 008 14	1000
9 mm	1 mm	0468 009 10	1000
9 mm	1.5 mm	0468 009 15	1500
9 mm	1.8 mm	0468 009 18	1000
9 mm	2 mm	0468 009 20	1000
9 mm	2.2 mm	0468 009 22	100
9 mm	2.5 mm	0468 009 25	3000
10 mm	1 mm	0468 010 10	1000
10 mm	1.5 mm	0468 010 15	2500

Continuation **O-ring, metric**

Internal diameter (d _i)	Thickness (h _i)	Art. no.	P. Qty.
10 mm	2 mm	0468 010 20	50/2000
10 mm	2.2 mm	0468 010 22	1000
10 mm	2.5 mm	0468 010 25	50/1000
10 mm	3 mm	0468 103 0	2000
11 mm	1.5 mm	0468 011 15	1000
11 mm	2 mm	0468 011 20	800
11 mm	2.5 mm	0468 011 25	1000
11 mm	3 mm	0468 113	1000
11.3 mm	2.4 mm	0468 113 24	1000
12 mm	1.5 mm	0468 012 15	1000
12 mm	2 mm	0468 012 20	50/2500
12 mm	2.25 mm	0468 012 22	500
12 mm	2.5 mm	0468 012 25	50/600
12 mm	3 mm	0468 012 30	500
12.3 mm	2.4 mm	0468 123	1000
12.42 mm	1.78 mm	0468 124 2	500
13 mm	1 mm	0468 013 10	1000
13 mm	1.5 mm	0468 013 15	2500
13 mm	2 mm	0468 013 20	850
13 mm	2.5 mm	0468 013 25	1500
13 mm	4 mm	0468 013 40	500
13.3 mm	2.4 mm	0468 133	1000
14 mm	1 mm	0468 014 10	1000
14 mm	1.5 mm	0468 014 15	1500
14 mm	1.6 mm	0468 014 16	2000
14 mm	1.78 mm	0468 014 17	2000
14 mm	2 mm	0468 014 20	1000
14 mm	2.5 mm	0468 014 25	50/500
14 mm	2.65 mm	0468 14 265	200
14 mm	3 mm	0468 014 30	500
15 mm	1 mm	0468 015 10	1000
15 mm	1.5 mm	0468 015 15	1000
15 mm	2 mm	0468 015 20	50/1000
15 mm	2.5 mm	0468 015 25	50/1500
15 mm	2.65 mm	0468 015 265	1000
15 mm	3 mm	0468 015 30	500
15.3 mm	2.4 mm	0468 015 24	1100
15.6 mm	1.78 mm	0468 015 17	1000
16 mm	2 mm	0468 016 20	1500
16 mm	2.5 mm	0468 016 25	500
16 mm	3 mm	0468 016 30	400
16.3 mm	2.4 mm	0468 163	1000
16.5 mm	1.5 mm	0468 165	1000
17 mm	1 mm	0468 017 10	1000
17 mm	1.5 mm	0468 017 15	1000
17 mm	2 mm	0468 017 20	50
17 mm	2.5 mm	0468 017 25	25/1000
17 mm	3 mm	0468 017 30	500
17 mm	3.5 mm	0468 017 35	250
17.17 mm	1.78 mm	0468 171 7	1000
17.3 mm	2.4 mm	0468 173 024	500
18 mm	2 mm	0468 018 20	1000
18 mm	3 mm	0468 018 30	25/250

Internal diameter (d ₁)	Thickness (h ₁)	Art. no.	P. Qty.
18 mm	5 mm	0468 018 50	500
18.77 mm	1.78 mm	0468 187 7	2000
19 mm	2 mm	0468 019 20	500
19 mm	2.5 mm	0468 019 25	25/1000
19 mm	3 mm	0468 019 30	500
20 mm	1.5 mm	0468 020 15	1000
20 mm	2 mm	0468 020 20	1000
20 mm	2.5 mm	0468 020 25	500
20 mm	3 mm	0468 020 30	25/500
20 mm	3.5 mm	0468 020 35	500
20.3 mm	2.4 mm	0468 020 24	500
21 mm	1 mm	0468 021 10	1000
21 mm	1.5 mm	0468 021 15	500
21 mm	2 mm	0468 021 20	500
21 mm	2.5 mm	0468 021 25	1000
21 mm	3 mm	0468 021 30	300
21.3 mm	3.6 mm	0468 213 0	200
22 mm	1 mm	0468 022 10	1000
22 mm	1.5 mm	0468 022 15	1000
22 mm	2 mm	0468 022 20	800
22 mm	2.5 mm	0468 022 25	500
22 mm	3 mm	0468 022 30	25/500
22 mm	3.5 mm	0468 022 35	500
22 mm	4 mm	0468 022 40	500
23 mm	1.5 mm	0468 023 15	1000
23 mm	2 mm	0468 023 20	500
23 mm	2.5 mm	0468 023 25	600
23 mm	3 mm	0468 023 30	100/500
23.47 mm	2.62 mm	0468 234 7	500
24 mm	1 mm	0468 024 10	200
24 mm	2 mm	0468 024 20	1000
24 mm	3 mm	0468 024 15	100
24 mm	3 mm	0468 024 30	25/400
24 mm	4 mm	0468 244	100
24 mm	4.5 mm	0468 024 45	250
24.2 mm	3 mm	0468 242 30	400
24.8 mm	1.5 mm	0468 248 0	25
25 mm	1.5 mm	0468 025 15	1000
25 mm	2 mm	0468 025 20	500
25 mm	2.5 mm	0468 025 25	400
25 mm	3 mm	0468 025 30	25
25 mm	4 mm	0468 025 40	250
26 mm	1 mm	0468 026 10	200
26 mm	1.5 mm	0468 026 15	500
26 mm	2 mm	0468 026 20	1000
26 mm	2.5 mm	0468 026 25	500
26 mm	3 mm	0468 026 30	500
26 mm	3.5 mm	0468 026 35	100
26 mm	4 mm	0468 026 40	50
26 mm	5 mm	0468 026 50	500
26.2 mm	3 mm	0468 262	100
27 mm	1.5 mm	0468 027 15	500
27 mm	2 mm	0468 027 20	500
27 mm	3 mm	0468 027 30	500
27 mm	3.5 mm	0468 027 35	300

Continuation **O-ring, metric**

Internal diameter (d _i)	Thickness (h _i)	Art. no.	P. Qty.
28 mm	1.5 mm	0468 028 15	500
28 mm	2 mm	0468 028 20	25/500
28 mm	2.5 mm	0468 028 25	200
28 mm	3 mm	0468 028 30	25/500
28 mm	3.5 mm	0468 028 35	100
28 mm	4 mm	0468 028 40	250
29 mm	2.5 mm	0468 029 25	250
29.82 mm	2.62 mm	0468 298 2	500
30 mm	1 mm	0468 030 10	1000
30 mm	1.5 mm	0468 030 15	2500
30 mm	2 mm	0468 030 20	1000
30 mm	2.5 mm	0468 030 25	300
30 mm	3 mm	0468 030 30	25/300
30 mm	3.5 mm	0468 030 35	25
30 mm	4 mm	0468 030 40	200
30 mm	5 mm	0468 030 50	100
30.3 mm	2.4 mm	0468 030 24	300
31 mm	2 mm	0468 031 20	1000
31.42 mm	2.62 mm	0468 314 2	500
32 mm	1 mm	0468 032 10	1000
32 mm	1.5 mm	0468 032 15	200
32 mm	2 mm	0468 032 20	1000
32 mm	2.5 mm	0468 032 25	250
32 mm	3.5 mm	0468 032 35	25
32 mm	4 mm	0468 032 40	250
32 mm	5 mm	0468 032 50	100
32.92 mm	3.53 mm	0468 329 2	200
33 mm	2 mm	0468 033 20	200
33 mm	2.5 mm	0468 033 25	500
33 mm	3.5 mm	0468 033 35	25
33.5 mm	2 mm	0468 335	250
34 mm	2 mm	0468 034 20	250
34 mm	3 mm	0468 034 30	25
34 mm	3.5 mm	0468 034 35	250
34 mm	4 mm	0468 034 40	100
34.5 mm	3 mm	0468 345 0	25
35 mm	1.5 mm	0468 035 15	1000
35 mm	2 mm	0468 035 20	200
35 mm	2.5 mm	0468 035 25	500
35 mm	3 mm	0468 035 30	350
35 mm	3.2 mm	0468 035 32	200
35 mm	3.5 mm	0468 035 35	25
35 mm	4 mm	0468 035 40	500
35 mm	6 mm	0468 035 60	100
35.5 mm	3 mm	0468 035 53	250
36 mm	2 mm	0468 036 20	250
36 mm	3 mm	0468 036 30	25/400
36 mm	4 mm	0468 036 40	200
36.17 mm	2.62 mm	0468 036 26	1000
37 mm	2 mm	0468 037 20	800
37 mm	3 mm	0468 037 30	250
38 mm	2 mm	0468 038 20	250
38 mm	2.5 mm	0468 038 25	350

Internal diameter (d _i)	Thickness (h _i)	Art. no.	P. Qty.
38 mm	3 mm	0468 038 30	25/300
38 mm	4 mm	0468 038 40	100
38 mm	5 mm	0468 038 50	10
38 mm	7 mm	0468 038 70	100
39 mm	2 mm	0468 039 20	250
39 mm	2.5 mm	0468 039 25	100
39 mm	3 mm	0468 039 30	250
39 mm	4.5 mm	0468 039 45	25
39.2 mm	3 mm	0468 392	50
39.34 mm	2.62 mm	0468 393 4	250
39.69 mm	3.53 mm	0468 396 9	250
40 mm	1.5 mm	0468 040 15	1000
40 mm	2 mm	0468 040 20	1000
40 mm	2.5 mm	0468 040 25	250
40 mm	3 mm	0468 040 30	25/250
40 mm	3.5 mm	0468 040 35	100
40 mm	4 mm	0468 040 40	100
40 mm	5 mm	0468 040 50	100
40.87 mm	3.53 mm	0468 408 7	200
42 mm	1 mm	0468 042 10	100
42 mm	2 mm	0468 042 20	250
42 mm	2.5 mm	0468 042 25	500
42 mm	3 mm	0468 042 30	25/200
42 mm	5 mm	0468 042 50	250
43 mm	1 mm	0468 043 10	200
43 mm	3 mm	0468 043 30	300
44 mm	2.5 mm	0468 044 25	100
44 mm	3 mm	0468 044 30	300
44 mm	3.5 mm	0468 044 35	250
44 mm	4 mm	0468 044 40	500
44.12 mm	2.62 mm	0468 441 2	350
44.2 mm	5.7 mm	0468 442	25
45 mm	1.5 mm	0468 045 15	1000
45 mm	2 mm	0468 045 20	800
45 mm	2.5 mm	0468 045 25	200
45 mm	4 mm	0468 454	100
45 mm	5 mm	0468 045 50	100
46 mm	2 mm	0468 046 20	500
46 mm	3.5 mm	0468 046 35	200
46 mm	4 mm	0468 046 40	100
46.99 mm	5.33 mm	0468 469 9	25
47 mm	2 mm	0468 047 20	500
47 mm	2.5 mm	0468 047 25	500
47 mm	2.6 mm	0468 047 26	25
47.22 mm	3.53 mm	0468 047 35	100
48 mm	3 mm	0468 048 30	100
48 mm	4 mm	0468 048 40	1000
49 mm	2.5 mm	0468 049 25	200
49 mm	3 mm	0468 049 30	200
50 mm	1.5 mm	0468 050 15	1000
50 mm	2.5 mm	0468 050 25	100
50 mm	3 mm	0468 050 30	100
50 mm	4 mm	0468 050 40	140
50 mm	5 mm	0468 050 50	100
50.17 mm	5.33 mm	0468 501 7	50

Continuation **O-ring, metric**

Internal diameter (d _i)	Thickness (h _i)	Art. no.	P. Qty.
50.39 mm	3.53 mm	0468 503 9	200
50.47 mm	2.62 mm	0468 050 26	50
51 mm	3 mm	0468 051 30	100
52 mm	1.5 mm	0468 052 15	500
52 mm	2 mm	0468 052 20	600
52 mm	4 mm	0468 052 40	1
52 mm	5 mm	0468 052 50	100
53 mm	2 mm	0468 053 20	100
53 mm	2.5 mm	0468 054 25	250
53 mm	3 mm	0468 053 30	200
53.57 mm	3.53 mm	0468 535 7	150
54 mm	1 mm	0468 054 10	100
54 mm	3 mm	0468 054 30	250
55 mm	1 mm	0468 055 10	500
55 mm	1.5 mm	0468 055 15	500
55 mm	2 mm	0468 055 20	200
55 mm	2.5 mm	0468 055 25	250
55 mm	3 mm	0468 055 30	100
55 mm	5 mm	0468 055 50	250
55.25 mm	2.62 mm	0468 552 5	250
56 mm	2 mm	0468 056 20	200
56 mm	3 mm	0468 056 30	100
56 mm	4 mm	0468 056 40	150
56.74 mm	3.53 mm	0468 567 4	100
57 mm	1.5 mm	0468 057 15	100
57 mm	2 mm	0468 057 20	100
57 mm	2.5 mm	0468 057 25	100
57 mm	4 mm	0468 057 40	100
58 mm	1 mm	0468 058 10	500
58 mm	2 mm	0468 058 20	200
58 mm	3 mm	0468 058 30	200
58 mm	4 mm	0468 058 40	150
59 mm	3 mm	0468 059 30	100
59.69 mm	5.33 mm	0468 596 9	100
59.92 mm	3.53 mm	0468 599 2	100
59.99 mm	2.62 mm	0468 599 9	10
60 mm	2 mm	0468 060 20	300
60 mm	3 mm	0468 060 30	1000
60 mm	3.5 mm	0468 060 35	150
60 mm	4 mm	0468 060 40	100
60 mm	5 mm	0468 060 50	60
60.04 mm	1.78 mm	0468 600 4	500
62 mm	1.5 mm	0468 062 15	500
62 mm	2 mm	0468 062 20	100
62 mm	3 mm	0468 062 30	50
62 mm	4 mm	0468 062 40	100
62 mm	5 mm	0468 062 50	50
63 mm	3 mm	0468 063 30	100
63 mm	4 mm	0468 063 40	25
63.09 mm	3.53 mm	0468 063 35	80
63.17 mm	2.62 mm	0468 631 7	200
64 mm	3 mm	0468 064 30	100
64 mm	3.5 mm	0468 064 35	100

Internal diameter (d _i)	Thickness (h _i)	Art. no.	P. Qty.
64 mm	4 mm	0468 064 40	25
64.5 mm	3 mm	0468 645	50
65 mm	2 mm	0468 065 20	200
65 mm	3 mm	0468 065 30	50
65 mm	3.5 mm	0468 065 35	100
65 mm	4 mm	0468 065 40	100
65 mm	5 mm	0468 065 50	100
66 mm	2 mm	0468 066 20	350
66 mm	3 mm	0468 066 30	100
66.27 mm	3.53 mm	0468 662 7	100
66.34 mm	2.62 mm	0468 663 4	500
67 mm	2 mm	0468 067 20	500
67 mm	2.5 mm	0468 067 25	200
67 mm	3 mm	0468 067 30	100
67 mm	5 mm	0468 067 50	500
67.95 mm	2.62 mm	0468 679 5	100
68 mm	2 mm	0468 068 20	500
69 mm	3.5 mm	0468 690 0	10
69.22 mm	5.33 mm	0468 692 2	100
69.52 mm	2.62 mm	0468 695 2	300
70 mm	2 mm	0468 070 20	1000
70 mm	3 mm	0468 070 30	250
70 mm	3.5 mm	0468 070 35	200
70 mm	4 mm	0468 070 40	100
70 mm	5 mm	0468 070 90	80
72 mm	2 mm	0468 072 20	200
72.62 mm	3.53 mm	0468 726 2	100
72.75 mm	1.78 mm	0468 727 5	600
73 mm	2.5 mm	0468 073 25	5
73 mm	3 mm	0468 073 30	25
73 mm	3.5 mm	0468 073 35	10
73 mm	5 mm	0468 073 50	100
74 mm	2 mm	0468 074 20	100
74 mm	2.5 mm	0468 074 25	100
74 mm	3 mm	0468 074 30	100
75 mm	2 mm	0468 075 20	100
75 mm	2.5 mm	0468 075 25	200
75 mm	3 mm	0468 075 30	100
75.79 mm	3.53 mm	0468 075 35	100
77.5 mm	2.62 mm	0468 775	50
78 mm	3 mm	0468 078 30	100
78 mm	3.5 mm	0468 078 35	10
78 mm	4 mm	0468 078 40	100
80 mm	2 mm	0468 080 20	500
80 mm	2.5 mm	0468 080 25	500
80 mm	3 mm	0468 080 30	100
80 mm	3.5 mm	0468 080 35	10
80 mm	4 mm	0468 080 40	100
82 mm	2 mm	0468 082 20	250
82 mm	3 mm	0468 082 30	100
82 mm	4 mm	0468 082 40	10
82.27 mm	1.78 mm	0468 822 7	500
84 mm	3 mm	0468 084 30	100
85 mm	2.5 mm	0468 085 25	300
85 mm	3 mm	0468 085 30	250

Continuation **O-ring, metric**

Internal diameter (d _i)	Thickness (h _i)	Art. no.	P. Qty.
85 mm	4 mm	0468 085 40	50
85 mm	5 mm	0468 085 50	100
85.09 mm	5.33 mm	0468 850 9	250
85.32 mm	3.53 mm	0468 853 2	100
86 mm	2 mm	0468 086 20	100
86 mm	2.5 mm	0468 086 25	200
88 mm	2 mm	0468 088 20	100
88 mm	3 mm	0468 088 30	100
88 mm	3.5 mm	0468 088 35	100
88 mm	4 mm	0468 088 40	25
88.62 mm	1.78 mm	0468 886 2	100
90 mm	1.5 mm	0468 090 15	250
90 mm	2 mm	0468 090 20	800
90 mm	2.5 mm	0468 090 25	200
90 mm	3 mm	0468 090 30	200
90 mm	5 mm	0468 090 50	100
91.44 mm	5.33 mm	0468 091 53	10
92 mm	4 mm	0468 092 40	100
94 mm	3 mm	0468 094 30	100
94.62 mm	5.34 mm	0468 094 53	50
95 mm	3 mm	0468 095 30	100
95 mm	6 mm	0468 095 60	10
96 mm	2 mm	0468 096 20	250
97 mm	3 mm	0468 009 730	100
98 mm	3 mm	0468 098 30	50
100 mm	1.5 mm	0468 100 15	500
100 mm	2 mm	0468 100 20	100
100 mm	2.5 mm	0468 100 25	200
100 mm	3 mm	0468 100 30	100
100 mm	3.5 mm	0468 100 35	50
100 mm	6 mm	0468 100 60	50
101.2 mm	3.53 mm	0468 101 20	50
101.27 mm	2.62 mm	0468 101 27	100
101.32 mm	1.78 mm	0468 101 32	200
102 mm	3 mm	0468 102 30	250
102 mm	4 mm	0468 102 40	50
103 mm	3 mm	0468 103 30	100
103 mm	4 mm	0468 103 40	25
104.37 mm	3.53 mm	0468 104 37	100
105 mm	3 mm	0468 105 30	100
105 mm	3.5 mm	0468 105 35	100
105 mm	4 mm	0468 105 40	40
105 mm	5 mm	0468 105 50	10
106 mm	2 mm	0468 106 20	100
107.54 mm	3.53 mm	0468 107 54	1
108 mm	3 mm	0468 108 30	100
108 mm	5 mm	0468 108 50	100
109.5 mm	3 mm	0468 109 53	100
110 mm	3 mm	0468 110 30	50
110 mm	5 mm	0468 110 50	100
110 mm	6 mm	0468 110 60	10
112 mm	3 mm	0468 112 30	100
112 mm	3.5 mm	0468 112 35	25

Internal diameter (d _i)	Thickness (h ₁)	Art. no.	P. Qty.
113 mm	5 mm	0468 113 50	50
114 mm	1.5 mm	0468 114 15	25
115 mm	3 mm	0468 115 30	200
115 mm	4 mm	0468 115 40	25
116 mm	3 mm	0468 116 30	10
116 mm	3.5 mm	0468 116 35	1000
117 mm	4 mm	0468 117 40	20
117 mm	8 mm	0468 117 80	100
117.07 mm	3.53 mm	0468 117 07	80
118 mm	2 mm	0468 118 20	100
118 mm	3.5 mm	0468 118 35	100
118 mm	4 mm	0468 118 40	100
120 mm	2 mm	0468 120 20	50
120 mm	3 mm	0468 120 30	100
120 mm	3.5 mm	0468 120 35	1
120 mm	4 mm	0468 120 40	100
120 mm	5 mm	0468 120 50	10
120.24 mm	3.53 mm	0468 120 24	10
120.32 mm	2.62 mm	0468 120 32	150
122 mm	4 mm	0468 122 40	10
123.42 mm	3.53 mm	0468 123 42	150
124 mm	3 mm	0468 124 30	50
124 mm	4 mm	0468 124 40	60
125 mm	1.5 mm	0468 125 15	100
125 mm	2.5 mm	0468 125 25	25
125 mm	3 mm	0468 125 30	100
125 mm	4 mm	0468 125 40	100
125 mm	5 mm	0468 125 50	100
125 mm	5.3 mm	0468 125 53	10
125 mm	6 mm	0468 125 60	100
126 mm	3 mm	0468 126 30	25
126.67 mm	2.62 mm	0468 126 67	20
128 mm	3 mm	0468 128 30	100
128 mm	4 mm	0468 128 40	10
130 mm	2 mm	0468 130 20	100
130 mm	3 mm	0468 130 30	100
134 mm	3 mm	0468 134 30	100
134 mm	5 mm	0468 134 50	10
135 mm	2.5 mm	0468 135 25	50
135 mm	3 mm	0468 135 30	80
136 mm	3 mm	0468 136 30	100
136 mm	4 mm	0468 136 40	100
136.12 mm	3.53 mm	0468 136 12	100
139.37 mm	2.62 mm	0468 139 37	50
140 mm	3 mm	0468 140 30	100
143 mm	2 mm	0468 143 20	100
144 mm	3 mm	0468 144 30	100
144 mm	4 mm	0468 144 40	10
145 mm	2.5 mm	0468 145 25	100
145.72 mm	2.62 mm	0468 145 72	500
146 mm	5 mm	0468 146 50	50
148 mm	2 mm	0468 148 20	100
148 mm	4 mm	0468 148 40	50
148.49 mm	5.33 mm	0468 148 49	50
150 mm	2 mm	0468 150 20	120

Continuation **O-ring, metric**

Internal diameter (d _i)	Thickness (h _i)	Art. no.	P. Qty.
150 mm	3 mm	0468 150 30	100
150 mm	5 mm	0468 150 50	100
151.99 mm	3.53 mm	0468 151 99	100
155 mm	2.5 mm	0468 155 25	10
155 mm	5 mm	0468 155 50	50
156 mm	2 mm	0468 156 20	50
158 mm	2 mm	0468 158 20	50
158.12 mm	5.33 mm	0468 158 12	10
160 mm	3 mm	0468 160 30	50
160 mm	5 mm	0468 160 50	50
164.69 mm	3.53 mm	0468 164 69	50
165 mm	2 mm	0468 165 20	100
165 mm	3 mm	0468 165 30	100
165 mm	4 mm	0468 165 40	40
165 mm	5 mm	0468 165 50	10
170 mm	3 mm	0468 170 30	100
170 mm	4 mm	0468 170 40	50
170 mm	5 mm	0468 170 50	50
170 mm	7 mm	0468 170 70	50
170.82 mm	5.33 mm	0468 170 82	10
172 mm	3 mm	0468 172 30	100
174 mm	3 mm	0468 174 30	50
175 mm	4 mm	0468 175 40	50
177 mm	3 mm	0468 177 30	100
179 mm	3 mm	0468 179 30	10
180 mm	2 mm	0468 180 20	50
180 mm	4 mm	0468 180 40	50
182 mm	3 mm	0468 182 30	50
183.82 mm	2.62 mm	0468 183 262	100
190.09 mm	3.53 mm	0468 190 09	100
192 mm	4 mm	0468 192 40	50
192 mm	5 mm	0468 192 50	10
194 mm	2 mm	0468 194 20	50
194 mm	3 mm	0468 194 30	10
195 mm	2.5 mm	0468 195 25	10
195 mm	3 mm	0468 195 30	100
195 mm	3.5 mm	0468 195 35	50
195 mm	5 mm	0468 195 50	10
200 mm	2 mm	0468 200 20	300
200 mm	3 mm	0468 200 30	40
200 mm	4 mm	0468 200 40	10
200 mm	5 mm	0468 200 50	50
202.79 mm	3.53 mm	0468 202 79	25
202.87 mm	2.62 mm	0468 202 87	150
205 mm	5 mm	0468 205 50	100
210 mm	5 mm	0468 210 50	25
225 mm	2.5 mm	0468 225 25	50
225 mm	3 mm	0468 225 30	100
225 mm	4 mm	0468 225 40	25
228 mm	4 mm	0468 228 40	50
230 mm	5 mm	0468 230 50	10
234.1 mm	8.4 mm	0468 234 1	10
234.32 mm	5.33 mm	0468 234 32	10

Internal diameter (d _i)	Thickness (h _i)	Art. no.	P. Qty.
236 mm	3 mm	0468 236 30	50
238 mm	4 mm	0468 238 40	1
238 mm	5 mm	0468 238 50	25
240 mm	3 mm	0468 240 30	100
240.89 mm	3.53 mm	0468 240 89	50
245 mm	3 mm	0468 245 30	100
245 mm	5 mm	0468 245 50	20
250 mm	3 mm	0468 250 30	50
255 mm	4 mm	0468 255 40	1
255 mm	7 mm	0468 255 70	10
260 mm	4 mm	0468 260 40	1
265 mm	4 mm	0468 265 40	50
265 mm	5 mm	0468 265 50	50
270 mm	3 mm	0468 270 30	20
280 mm	3 mm	0468 280 30	10
285 mm	3 mm	0468 285 30	25
290 mm	5 mm	0468 290 50	10
300 mm	3 mm	0468 300 30	50
300 mm	6 mm	0468 300 60	10
305 mm	4 mm	0468 305 40	10
310 mm	4 mm	0468 310 40	100
320 mm	4 mm	0468 320 40	100
325 mm	5 mm	0468 325 50	50
370 mm	5 mm	0468 370 50	25
390 mm	3 mm	0468 390 30	20
390 mm	5 mm	0468 390 50	5
400 mm	5 mm	0468 400 50	25
420 mm	8 mm	0468 420 80	1
440 mm	3 mm	0468 440 30	50
440 mm	5 mm	0468 440 50	100
490 mm	5 mm	0468 490 50	30
500 mm	5 mm	0468 500 50	10
515 mm	6 mm	0468 515 60	25



Cover cap for hexagonal bolts and nuts

For hexagonal screws/nuts (according to DIN or ISO widths across flats)

- Colours: black, white, grey
- Material: Polyethylene (not UV-stabilised)
- Operating temperatures: -50°C to +60°C (briefly 80°C) without mechanical stress

Material	PE - Polyethylene
RoHS-compliant	Yes
Suitable for	Hexagon bolts and nuts

Colour	Suitable for screw	Suitable for width across flats (s ₁)	Outer diameter (d ₁)	Height (h ₁)	Art. no.	P. Qty.
Jet black RAL 9005	M4	7 mm	9 mm	7.6 mm	0590 04	100
Jet black RAL 9005	M5	8 mm	11 mm	10.3 mm	0590 05	100
Jet black RAL 9005	M6	10 mm	13 mm	12.3 mm	0590 06	100
Jet black RAL 9005	M8	13 mm	16.5 mm	15.1 mm	0590 08	50/250
Jet black RAL 9005	M10	16 mm	19.8 mm	18.7 mm	0590 010 1	50
Jet black RAL 9005	M10	17 mm	20.5 mm	19.3 mm	0590 010	50
Jet black RAL 9005	M12	18 mm	22 mm	20 mm	0590 012 1	50

Colour	Suitable for screw	Suitable for width across flats (s ₁)	Outer diameter (d ₁)	Height (h ₁)	Art. no.	P. Qty.
Jet black RAL 9005	M12	19 mm	22.8 mm	20.3 mm	0590 012	50
Jet black RAL 9005	M16	24 mm	29.2 mm	26 mm	0590 016	25
Pure white RAL 9010	M4	7 mm	9 mm	7.6 mm	0590 004	100
Pure white RAL 9010	M5	8 mm	11 mm	10.3 mm	0590 005	100
Pure white RAL 9010	M6	10 mm	13 mm	12.3 mm	0590 006	100
Pure white RAL 9010	M8	13 mm	16.5 mm	15.1 mm	0590 008	50
Pure white RAL 9010	M10	16 mm	19.8 mm	18.7 mm	0590 001 01	50
Pure white RAL 9010	M10	17 mm	20.5 mm	19.3 mm	0590 001 0	50
Pure white RAL 9010	M12	18 mm	22 mm	20 mm	0590 001 21	50
Pure white RAL 9010	M12	19 mm	22.8 mm	20.3 mm	0590 001 2	50
Pure white RAL 9010	M16	24 mm	29.2 mm	26 mm	0590 001 6	25
Silver grey RAL 7001	M4	7 mm	9 mm	7.6 mm	0590 094	100
Silver grey RAL 7001	M5	8 mm	11 mm	10.3 mm	0590 095	100
Silver grey RAL 7001	M6	10 mm	13 mm	12.3 mm	0590 096	100
Silver grey RAL 7001	M8	13 mm	16.5 mm	15.1 mm	0590 098	50
Silver grey RAL 7001	M10	16 mm	19.8 mm	18.7 mm	0590 091 01	50
Silver grey RAL 7001	M10	17 mm	20.5 mm	19.3 mm	0590 091 0	50
Silver grey RAL 7001	M12	18 mm	22 mm	20 mm	0590 091 21	50
Silver grey RAL 7001	M12	19 mm	22.8 mm	20.3 mm	0590 091 2	50
Silver grey RAL 7001	M16	24 mm	29.2 mm	26 mm	0590 091 6	25

Cover cap, AW drive

For D-anchor

Material	Plastic
RoHS-compliant	Yes
Outer diameter (d ₁)	13 mm



Suitable for	Suitable for wood colour	Colour	Art. no.	P. Qty.
AW25		Pure white RAL 9010	0590 425 101	500
AW25	Light oak	Brown beige RAL 1011	0590 425 108	500
AW25	Mahogany	Mahogany RAL 8016	0590 425 111	500
AW25	Pine, Spruce	Sand yellow RAL 1002	0590 425 107	500
AW30		Pure white RAL 9010	0590 430 101	500

Continuation **Cover cap, AW drive**

Suitable for	Suitable for wood colour	Colour	Art. no.	P. Qty.
AW30	Light oak	Brown beige RAL 1011	0590 430 108	500
AW30	Mahogany	Mahogany RAL 8016	0590 430 111	500
AW30	Pine, Spruce	Sand yellow RAL 1002	0590 430 107	500

Cover cap, flat, for hexalobular head and AW drive

Suitable for all screws with TX and AW drives

Material	Plastic
RoHS-compliant	Yes



Suitable for	Outer diameter (d ₁)	Suitable for wood colour	Colour	Art. no.	P. Qty.
AW20	12 mm		Dusty grey RAL 7037	0590 720 104	500
AW20	12 mm		Jet black RAL 9005	0590 720 112	500
AW20	12 mm		Light grey RAL 7035	0590 720 102	500
AW20	12 mm		Pure white RAL 9010	0590 720 101	500
AW20	12 mm		Silver grey RAL 7001	0590 720 103	500
AW20	12 mm	Ash	Light ivory RAL 1015	0590 720 105	500
AW20	12 mm	Beech, Larch	Ochre brown RAL 8001	0590 720 109	500
AW20	12 mm	Cherry	Saffron yellow RAL 1017	0590 720 106	500
AW20	12 mm	Dark oak	Fawn brown RAL 8007	0590 720 110	500
AW20	12 mm	Light oak	Brown beige RAL 1011	0590 720 108	500
AW20	12 mm	Mahogany	Mahogany RAL 8016	0590 720 111	500
AW20	12 mm	Pine, Spruce	Sand yellow RAL 1002	0590 720 107	500
AW25	15 mm		Dusty grey RAL 7037	0590 725 104	500
AW25	15 mm		Jet black RAL 9005	0590 725 112	500
AW25	15 mm		Light grey RAL 7035	0590 725 102	500
AW25	15 mm		Pure white RAL 9010	0590 725 101	500
AW25	15 mm		Silver grey RAL 7001	0590 725 103	500
AW25	15 mm	Ash	Light ivory RAL 1015	0590 725 105	500
AW25	15 mm	Beech, Larch	Ochre brown RAL 8001	0590 725 109	500
AW25	15 mm	Dark oak	Fawn brown RAL 8007	0590 725 110	500
AW25	15 mm	Light oak	Brown beige RAL 1011	0590 725 108	500
AW25	15 mm	Mahogany	Mahogany RAL 8016	0590 725 111	500
AW25	15 mm	Pine, Spruce	Sand yellow RAL 1002	0590 725 107	500

Suitable for	Outer diameter (d ₁)	Suitable for wood colour	Colour	Art. no.	P. Qty.
AW30	15 mm		Dusty grey RAL 7037	0590 730 204	500
AW30	15 mm		Jet black RAL 9005	0590 730 212	500
AW30	15 mm		Light grey RAL 7035	0590 730 202	500
AW30	15 mm		Pure white RAL 9010	0590 730 201	500
AW30	15 mm		Silver grey RAL 7001	0590 730 203	500
AW30	15 mm	Ash	Light ivory RAL 1015	0590 730 205	500
AW30	15 mm	Beech, Larch	Ochre brown RAL 8001	0590 730 209	500
AW30	15 mm	Dark oak	Fawn brown RAL 8007	0590 730 210	500
AW30	15 mm	Light oak	Brown beige RAL 1011	0590 730 208	500
AW30	15 mm	Mahogany	Mahogany RAL 8016	0590 730 211	500
AW30	15 mm	Pine, Spruce	Sand yellow RAL 1002	0590 730 207	500
AW30	18 mm		Jet black RAL 9005	0590 730 112	500
AW30	18 mm		Ochre brown RAL 8001	0590 730 109	500
AW30	18 mm		Pure white RAL 9010	0590 730 101	500
AW30	18 mm	Mahogany	Mahogany RAL 8016	0590 730 111	500
AW30	18 mm	Pine, Spruce	Sand yellow RAL 1002	0590 730 107	500
AW40	15 mm		Pure white RAL 9010	0590 740 101	500
AW40	15 mm	Mahogany	Mahogany RAL 8016	0590 740 111	500
AW40	18 mm		Pure white RAL 9010	0590 740 201	500
AW40	18 mm		Silver grey RAL 7001	0590 740 203	500
AW40	18 mm	Cherry	Saffron yellow RAL 1017	0590 740 206	500
AW40	18 mm	Mahogany	Mahogany RAL 8016	0590 740 211	500

Please make sure that the screws you wish to cover are screwed in as vertically and as flush as possible.

Cover cap, overlapping, for hexalobular head and AW drive

Suitable for all screws with TX and AW drives

Material	Plastic
RoHS-compliant	Yes



Suitable for	Outer diameter (d ₁)	Suitable for wood colour	Colour	Art. no.	P. Qty.
AW20	12 mm		Pure white RAL 9010	0590 721 101	500
AW25	15 mm		Pure white RAL 9010	0590 726 101	500
AW30	15 mm		Jet black RAL 9005	0590 731 212	500

Continuation **Cover cap, overlapping, for hexalobular head and AW drive**

Suitable for	Outer diameter (d ₁)	Suitable for wood colour	Colour	Art. no.	P. Qty.
AW30	15 mm		Pure white RAL 9010	0590 731 201	500
AW30	15 mm		Silver grey RAL 7001	0590 731 203	500
AW30	15 mm	Beech, Larch	Ochre brown RAL 8001	0590 731 209	500
AW30	15 mm	Mahogany	Mahogany RAL 8016	0590 731 211	500

Please make sure that the screws you wish to cover are screwed in as vertically and as flush as possible.

Overlapping cover cap, for countersunk and pan head Z3

For countersunk heads and pan heads with Z3 drive

Material	Plastic
RoHS-compliant	Yes
Outer diameter (d ₁)	16 mm
Height (h ₁)	3 mm



Colour	Art. no.	P. Qty.
Jet black RAL 9005	0590 610 025	100
Mahogany RAL 8016	0590 610 024	100
Ochre brown RAL 8001	0590 610 023	100
Pure white RAL 9010	0590 610 021	100/1000
Silver grey RAL 7001	0590 610 022	100

Cover cap for façade construction screw

For facade screws

Material	Plastic
RoHS-compliant	Yes
Outer diameter (d ₁)	14 mm
Height (h ₁)	4.7 mm



Colour	Art. no.	P. Qty.
Black	0590 194 3	100
Dark grey	0590 194 5	100
Grey	0590 194 2	100
Peat brown	0590 194 4	100
White	0590 194 1	100

Cover cap for tapping screws and window sill screws

For tapping screws, A2 window sill screws, plus window sill screws

Material	PE - Polyethylene
Outer diameter (d ₁)	12 mm
Height (h ₁)	4.2 mm



Colour	Art. no.	P. Qty.
Jet black RAL 9005	0590 126 125	100/500
Mahogany RAL 8016	0590 128 125	100/500
Pure white RAL 9010	0590 12 125	100/500
Silver grey RAL 7001	0590 125 125	100/500

Cover cap, hexagon head GPN 1000

Hexagon head cover cap GPN 1000

Material	LDPE - Low density polyethylene
Colour	Black



Suitable for screw	Suitable for width across flats (s ₁)	Outer diameter (d ₁)	Art. no.	P. Qty.
	14 mm	18 mm	0598 101 071	100
M5	8 mm	10.9 mm	0598 101 068	500
M6	10 mm	12.9 mm	0598 101 069	1000
M8	13 mm	16.8 mm	0598 108 93	400
M10	16 mm	21.3 mm	0598 108 267	250
M10	17 mm	21.3 mm	0598 101 072	250
M12	18 mm	23 mm	0598 108 57	150
M12	19 mm	23.6 mm	0598 101 073	500
M16	24 mm	29.8 mm	0598 101 075	100
M20	30 mm	37.4 mm	0598 101 077	50
M22	32 mm	39.7 mm	0598 101 078	100
M24	36 mm	44.4 mm	0598 101 079	25
M27	41 mm	50.1 mm	0598 101 080	100
M30	46 mm	55.9 mm	0598 101 081	50
M36	55 mm	67 mm	0598 101 811	15
M45	70 mm	85.5 mm	0598 106 706	50



Cover cap for head-hole-drilled screw

For head-hole-drilled screws

Material	PE - Polyethylene
RoHS-compliant	Yes

Outer diameter (d ₁)	Base diameter (d ₂)	Suitable for wood colour	Colour	Art. no.	P. Qty.
12 mm	2.5 mm		Dusty grey RAL 7037	0590 122 551	500
12 mm	2.5 mm		Jet black RAL 9005	0590 122 56	500/5000
12 mm	2.5 mm		Light grey RAL 7035	0590 122 553	500
12 mm	2.5 mm		Pure white RAL 9010	0590 122 5	500/2000
12 mm	2.5 mm		Silver grey RAL 7001	0590 122 55	500
12 mm	2.5 mm	Ash	Light ivory RAL 1015	0590 122 531	500
12 mm	2.5 mm	Beech, Larch	Ochre brown RAL 8001	0590 122 592	500
12 mm	2.5 mm	Cherry	Saffron yellow RAL 1017	0590 122 552	500
12 mm	2.5 mm	Dark oak	Fawn brown RAL 8007	0590 122 59	500
12 mm	2.5 mm	Mahogany	Mahogany RAL 8016	0590 122 591	500
12 mm	2.5 mm	Maple	Maple	0590 122 556	500

Outer diameter (d ₁)	Base diameter (d ₂)	Suitable for wood colour	Colour	Art. no.	P. Qty.
12 mm	2.5 mm	Pine, Spruce	Sand yellow RAL 1002	0590 122 532	500
12 mm	2.5 mm	Red beech	Copper beech	0590 122 555	500
12 mm	3 mm		Jet black RAL 9005	0590 12 6	100
12 mm	3 mm		Pure white RAL 9010	0590 12	100/500
12 mm	3 mm		Silver grey RAL 7001	0590 12 5	100
12 mm	3 mm	Beech, Larch	Ochre brown RAL 8001	0590 12 92	100
12 mm	3 mm	Dark oak	Fawn brown RAL 8007	0590 12 9	100
12 mm	3 mm	Mahogany	Mahogany RAL 8016	0590 12 91	500
15 mm	2.5 mm		Dusty grey RAL 7037	0590 152 551	500
15 mm	2.5 mm		Jet black RAL 9005	0590 152 56	500
15 mm	2.5 mm		Light grey RAL 7035	0590 152 553	500
15 mm	2.5 mm		Pure white RAL 9010	0590 152 5	500
15 mm	2.5 mm		Silver grey RAL 7001	0590 152 595	500
15 mm	2.5 mm	Ash	Light ivory RAL 1015	0590 152 554	500
15 mm	2.5 mm	Beech, Larch	Ochre brown RAL 8001	0590 152 592	500
15 mm	2.5 mm	Cherry	Saffron yellow RAL 1017	0590 152 552	500
15 mm	2.5 mm	Dark oak	Fawn brown RAL 8007	0590 152 59	500
15 mm	2.5 mm	Mahogany	Mahogany RAL 8016	0590 152 591	500
15 mm	2.5 mm	Maple	Maple	0590 152 556	500
15 mm	2.5 mm	Pine, Spruce	Sand yellow RAL 1002	0590 152 53	500
15 mm	2.5 mm	Red beech	Copper beech	0590 152 555	500
15 mm	3 mm		Dusty grey RAL 7037	0590 15 51	200
15 mm	3 mm		Jet black RAL 9005	0590 15 6	200/1000
15 mm	3 mm		Pure white RAL 9010	0590 15	200/1000
15 mm	3 mm		Silver grey RAL 7001	0590 15 5	200
15 mm	3 mm	Beech, Larch	Ochre brown RAL 8001	0590 15 92	200
15 mm	3 mm	Cherry	Saffron yellow RAL 1017	0590 15 52	200
15 mm	3 mm	Dark oak	Fawn brown RAL 8007	0590 15 9	200
15 mm	3 mm	Mahogany	Mahogany RAL 8016	0590 15 91	200
17 mm	3 mm		Pure white RAL 9010	0590 905 1	200
17 mm	3 mm		Silver grey RAL 7001	0590 905 2	200
17 mm	3 mm	Mahogany	Mahogany RAL 8016	0590 905 3	200
18 mm	3 mm		Pure white RAL 9010	0590 157	200/1200

Continuation **Cover cap for head-hole-drilled screw**

Outer diameter (d ₁)	Base diameter (d ₂)	Suitable for wood colour	Colour	Art. no.	P. Qty.
18 mm	3 mm		Silver grey RAL 7001	0590 157 5	200
18 mm	3 mm	Cherry	Saffron yellow RAL 1017	0590 157 6	200
18 mm	3 mm	Mahogany	Mahogany RAL 8016	0590 157 91	200

Screw cap for number plate screw

For number plate screws

- Material: High-density polyethylene
- The cap is pressed on in the same way as pushing a button
- Additional, more effective rust protection for galvanic treatment
- Water, oil and alkali-resistant
- Prevents contamination of the screw slots and injuries due to the sharp-edged screw heads



Material	Plastic
RoHS-compliant	Yes
Outer diameter (d ₁)	11.5 mm
Height (h ₁)	5 mm

Colour	Art. no.	P. Qty.
Black	0590 10 6	100/500
Blue	0590 102	100/500
Pure white	0590 103	100/500

Cover cap for number plate screw

For article prefix number 0210

Material	Plastic
RoHS-compliant	Yes
Outer diameter (d ₁)	12.5 mm
Height (h ₁)	5 mm



Colour	Art. no.	P. Qty.
Jet black RAL 9005	0590 132 3	100
Pure white RAL 9010	0590 132 2	100
Traffic blue RAL 5017	0590 132 4	100
Traffic red RAL 3020	0590 132 5	500
Traffic yellow RAL 1023	0590 132 6	100

Plastic end cap, square

For square pipes

- Square head shape
- Resistant to wear and abrasion
- Splash-proof; prevents moisture from entering pipe structures

Material	LDPE - Low density polyethylene
RoHS-compliant	Yes
Suitable for	Square tubes



Length (a ₁)	Suitable for pipe thickness (t ₁)	Height (h ₁)	Colour	Art. no.	P. Qty.
16 mm	1.5 - 2 mm	17.5 mm	Jet black RAL 9005	0590 216 16	50
16 mm	1.5 - 2 mm	17.5 mm	Traffic grey A RAL 7042	0590 816 16	50
20 mm	1.5 - 2 mm	16 mm	Jet black RAL 9005	0590 220 20	50
20 mm	1.5 - 2 mm	16 mm	Traffic grey A RAL 7042	0590 820 20	50
25 mm	1.5 - 2 mm	17 mm	Jet black RAL 9005	0590 225 25	50/200
25 mm	1.5 - 2 mm	17 mm	Traffic grey A RAL 7042	0590 825 25	50
25 mm	3 mm	16.5 mm	Jet black RAL 9005	0590 225 253	50
25 mm	3 mm	16.5 mm	Traffic grey A RAL 7042	0590 825 253	50
30 mm	1.5 - 2 mm	16.5 mm	Jet black RAL 9005	0590 230 30	50
30 mm	1.5 - 2 mm	16.5 mm	Traffic grey A RAL 7042	0590 830 30	50
30 mm	3 mm	17.5 mm	Jet black RAL 9005	0590 230 303	50
30 mm	3 mm	17.5 mm	Traffic grey A RAL 7042	0590 830 303	50
35 mm	1.5 - 2 mm	19 mm	Jet black RAL 9005	0590 235 35	50
35 mm	1.5 - 2 mm	19 mm	Traffic grey A RAL 7042	0590 835 35	50
40 mm	1.5 - 2 mm	19.5 mm	Jet black RAL 9005	0590 240 40	50
40 mm	1.5 - 2 mm	19.5 mm	Traffic grey A RAL 7042	0590 840 40	50
40 mm	3 mm	20 mm	Jet black RAL 9005	0590 240 403	50/200
40 mm	3 mm	20 mm	Traffic grey A RAL 7042	0590 840 403	50
45 mm	1.5 - 2 mm	19.5 mm	Jet black RAL 9005	0590 245 45	50
50 mm	1.5 - 2 mm	18.5 mm	Jet black RAL 9005	0590 250 50	50
50 mm	1.5 - 2 mm	18.5 mm	Traffic grey A RAL 7042	0590 850 50	50
60 mm	1 - 3 mm	23 mm	Jet black RAL 9005	0590 260 60	50
60 mm	1 - 3 mm	23 mm	Traffic grey A RAL 7042	0590 860 60	50

Plastic end cap, rectangular

For rectangular pipes

- Square head shape
- Resistant to wear and abrasion
- Splash-proof; prevents moisture from entering pipe structures

Material	LDPE - Low density polyethylene
Colour	Jet black RAL 9005



Continuation **Plastic end cap, rectangular**

RoHS-compliant	Yes
Suitable for	Rectangular tubes

Length (a ₁)	Width (b ₁)	Suitable for pipe thickness (t ₁)	Height (h ₁)	Art. no.	P. Qty.
25 mm	15 mm	1.5 - 2 mm	17 mm	0590 225 15	50
30 mm	20 mm	1.5 - 2 mm	16 mm	0590 230 20	50
30 mm	20 mm	3 mm	16.5 mm	0590 230 203	50
35 mm	25 mm	1.5 - 2 mm	19 mm	0590 235 25	50/300
40 mm	20 mm	1.5 - 2 mm	19.5 mm	0590 240 20	50
40 mm	20 mm	3 mm	18 mm	0590 240 203	50/100
40 mm	30 mm	1.5 - 2 mm	19 mm	0590 240 30	50
40 mm	30 mm	3 mm	18 mm	0590 240 303	50
45 mm	25 mm	1.5 - 2 mm	19 mm	0590 245 25	50
50 mm	30 mm	1.5 - 2 mm	19 mm	0590 250 30	50/100
60 mm	30 mm	1.5 - 2 mm	18.5 mm	0590 260 30	50
60 mm	40 mm	1.5 - 2 mm	18.5 mm	0590 260 40	50
80 mm	40 mm	1.5 - 2 mm	19.5 mm	0590 280 40	50

Plastic end cap, round

For pipes

- Round head shape
- Resistant to wear and abrasion
- Splash-proof; prevents moisture from entering pipe structures



Material	LDPE - Low density polyethylene
RoHS-compliant	Yes
Suitable for	Tubes

Width (b ₁)	Suitable for pipe thickness (t ₁)	Height (h ₁)	Colour	Art. no.	P. Qty.
15 mm	1 - 2 mm	15 mm	Jet black RAL 9005	0590 215	50
15 mm	1 - 2 mm	15 mm	Traffic grey A RAL 7042	0590 815	50
20 mm	1 - 2 mm	15.5 mm	Jet black RAL 9005	0590 220	50/200
20 mm	1 - 2 mm	15.5 mm	Traffic grey A RAL 7042	0590 820	50
25 mm	1 - 2 mm	15 mm	Jet black RAL 9005	0590 225	50/150
25 mm	1 - 2 mm	15 mm	Traffic grey A RAL 7042	0590 825	50
27 mm	1 - 2 mm	16 mm	Jet black RAL 9005	0590 227	50/100
27 mm	1 - 2 mm	16 mm	Traffic grey A RAL 7042	0590 827	50
30 mm	1 - 2 mm	16 mm	Jet black RAL 9005	0590 230	50
30 mm	1 - 2 mm	16 mm	Traffic grey A RAL 7042	0590 830	50
34 mm	1 - 2 mm	16 mm	Jet black RAL 9005	0590 234	50
34 mm	1 - 2 mm	16 mm	Traffic grey A RAL 7042	0590 834	50
40 mm	1 - 2 mm	16 mm	Jet black RAL 9005	0590 240	50
40 mm	1 - 2 mm	16 mm	Traffic grey A RAL 7042	0590 840	50

Width (b ₁)	Suitable for pipe thickness (t ₁)	Height (h ₁)	Colour	Art. no.	P. Qty.
42 mm	1 - 2 mm	16 mm	Jet black RAL 9005	0590 242	50
42 mm	1 - 2 mm	16 mm	Traffic grey A RAL 7042	0590 842	50
48 mm	1.5 - 2.5 mm	19.5 mm	Jet black RAL 9005	0590 248	50
48 mm	1.5 - 2.5 mm	19.5 mm	Traffic grey A RAL 7042	0590 848	50
60 mm	1.5 - 2.5 mm	22.5 mm	Jet black RAL 9005	0590 260	50
60 mm	1.5 - 2.5 mm	22.5 mm	Traffic grey A RAL 7042	0590 860	50

If the caps are used to close off holes or threads, choose end caps with a greater diameter than the hole that is to be closed off (press fit).

Screw cap WP 800, for metric thread

Polyethylene, yellow

For protecting pipes and fittings with male thread



Thread type x nominal diameter (d ₁)	Pitch	Outer diameter (d ₂)	Height (h ₁)	Interior height (h ₂)	Art. no.	P. Qty.
M8	1 mm	12 mm	10.5 mm	9 mm	0597 280 081	1000
M10	1 mm	14 mm	11 mm	10 mm	0597 280 101	1000
M12	1 mm	17 mm	12 mm	10.3 mm	0597 280 121	1000
M12	1.5 mm	17 mm	11.9 mm	10.1 mm	0597 280 125	250
M14	1.5 mm	19.1 mm	11.9 mm	10.5 mm	0597 280 145	250
M16	1.5 mm	20.9 mm	13.5 mm	11.8 mm	0597 280 165	500
M20	1.5 mm	25.3 mm	15.3 mm	13.9 mm	0597 280 205	250
M22	1.5 mm	26.8 mm	14.5 mm	13.7 mm	0597 280 225	250
M24	1.5 mm	29.5 mm	13.5 mm	12 mm	0597 280 245	250
M30	2 mm	36 mm	14.5 mm	12.8 mm	0597 280 302	250
M36	1.5 mm	41.4 mm	17 mm	15.5 mm	0597 280 365	100
M42	2 mm	49.1 mm	16.3 mm	14.8 mm	0597 280 422	100
M52	2 mm	59.3 mm	18.7 mm	16.9 mm	0597 280 522	100

Screw caps GPN 800, for pipe thread (inch)

GPN 800, polyethylene (PE-HD), yellow

Other standard	GPN 800
Material	HDPE - High density polyethylene
Colour	Yellow
Min./max. temperature resistance	-40 to 80 °C
Max. short-term temperature resistance	100 °C



Continuation **Screw caps GPN 800, for pipe thread (inch)**

Thread type x nominal diameter (d ₁)	Outer diameter (d ₂)	Height (h ₁)	Interior height (h ₂)	Art. no.	P. Qty.
G1/4	18 mm	13.5 mm	12 mm	0598 804 14	250
G3/8	21 mm	13.5 mm	12 mm	0598 804 38	500
G5/8	28 mm	15.5 mm	14 mm	0598 804 58	100
G3/4	32 mm	16 mm	14 mm	0598 804 34	50
G1-1/4	47.7 mm	19.7 mm	17.7 mm	0598 804 114	100
G1-1/2	56 mm	19 mm	17 mm	0598 804 112	25
G2	68 mm	20 mm	18 mm	0598 804 2	50

Screw caps GPN 800, for metric thread

GPN 800, polyethylene (PE-HD), yellow

Other standard	GPN 800
Material	HDPE - High density polyethylene
Colour	Yellow
Min./max. temperature resistance	-40 to 80 °C
Max. short-term temperature resistance	100 °C



Thread type x nominal diameter (d ₁)	Pitch	Outer diameter (d ₂)	Height (h ₁)	Interior height (h ₂)	Art. no.	P. Qty.
M10	1 mm	14 mm	9 mm	8 mm	0598 800 101	500
M10	1.5 mm	14 mm	9 mm	8 mm	0598 800 10	200
M12	1 mm	16 mm	13.5 mm	12 mm	0598 800 121	200
M12	1.5 mm	16 mm	13.5 mm	12 mm	0598 800 125	200
M14	1.5 mm	18 mm	13.5 mm	12 mm	0598 800 145	200
M16	1.5 mm	21 mm	13.5 mm	12 mm	0598 800 165	500
M18	1.5 mm	22 mm	13.5 mm	12 mm	0598 800 185	200
M20	1.5 mm	25 mm	15.5 mm	14 mm	0598 800 205	100
M22	1.5 mm	28 mm	15.5 mm	14 mm	0598 800 225	100
M24	1.5 mm	30 mm	15.5 mm	14 mm	0598 800 245	125
M26	1.5 mm	34 mm	13 mm	11 mm	0598 800 265	100
M30	1.5 mm	36 mm	15.5 mm	14 mm	0598 800 305	100
M30	2 mm	38 mm	16 mm	14 mm	0598 800 302	50
M30	3.5 mm	38 mm	16 mm	14 mm	0598 800 30	100
M36	2 mm	44 mm	19 mm	17 mm	0598 800 362	80
M42	2 mm	50 mm	17 mm	15 mm	0598 800 422	50
M45	2 mm	53 mm	17 mm	15 mm	0598 800 452	30
M52	2 mm	60 mm	17 mm	15 mm	0598 800 522	25

Grease nipple caps GPN 980 B

GPN 980 type B, polyethylene (PE-LLD), with lug

Outer diameter (d ₁)	8.2 mm
Height (h ₁)	9 mm
Strap length (N)	12 mm
Other standard	GPN 980



Form	B
Material	LLDPE - Linear, low density polyethylene
Colour	Red
Min./max. temperature resistance	-40 to 70 °C
Max. short-term temperature resistance	90 °C

Art. no. 0598 983 201

P. Qty.: 1250

Universal protector WP 600

Polyethylene, red

Can be used as

- Cap (outside)
- Plug (inside)

Colour	Red
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Outer diameter (d ₁)	Min./max. taper external diameter (d ₂ /d ₃)	Insertion depth (h ₂)	Min./max. taper internal diameter (d ₄ /d ₅)	Material	Art. no.	P. Qty.
4.9 mm	2.5-3.3 mm	5 mm	1.1-2.1 mm	LDPE - Low density polyethylene	0597 600 025	5000
5 mm	2.8-3.5 mm	4 mm	1.3-2.1 mm	LDPE - Low density polyethylene	0597 600 028	5000
5.9 mm	1.3-4 mm	8 mm	1.1-2.1 mm	LDPE - Low density polyethylene	0597 600 013	5000
7.4 mm	4.1-4.6 mm	5.5 mm	1-2.1 mm	LDPE - Low density polyethylene	0597 600 041	5000
7.4 mm	5-5.9 mm	8 mm	3.6-4.6 mm	LDPE - Low density polyethylene	0597 600 050	5000
7.6 mm	3.9-4.4 mm	3.1 mm	2-2 mm	LDPE - Low density polyethylene	0597 600 039	5000
8.9 mm	5.5-6.2 mm	5.9 mm	4-4.8 mm	LDPE - Low density polyethylene	0597 600 055	5000
11.5 mm	6.8-7.4 mm	6.8 mm	5-5.6 mm	LDPE - Low density polyethylene	0597 600 068	1000
12.8 mm	8.3-9.9 mm	9 mm	6.8-8 mm	LDPE - Low density polyethylene	0597 600 083	1000
14.1 mm	9.2-10.6 mm	10 mm	7.6-9 mm	LDPE - Low density polyethylene	0597 600 092	1000
16.9 mm	11.4-12.8 mm	9.8 mm	10.1-11.3 mm	LDPE - Low density polyethylene	0597 600 116	1000
17.9 mm	12-13.8 mm	11.1 mm	10.6-12.1 mm	LDPE - Low density polyethylene	0597 600 120	600

Continuation **Universal protector WP 600**

Outer diameter (d ₁)	Min./max. taper external diameter (d ₂ /d ₃)	Insertion depth (h ₂)	Min./max. taper internal diameter (d ₄ /d ₅)	Material	Art. no.	P. Qty.
18.9 mm	14.2-15.7 mm	12.8 mm	13-14.7 mm	LDPE - Low density polyethylene	0597 600 142	1000
19 mm	13.1-14.5 mm	11.1 mm	11.5-12.9 mm	LDPE - Low density polyethylene	0597 600 131	1000
19 mm	13.5-14.7 mm	11.7 mm	12-13.2 mm	LDPE - Low density polyethylene	0597 600 135	1000
19.1 mm	13.9-15.4 mm	12 mm	12.4-14 mm	LDPE - Low density polyethylene	0597 600 139	1000
20.3 mm	14.9-16.8 mm	12.8 mm	14-15.5 mm	LDPE - Low density polyethylene	0597 600 149	800
23 mm	17.2-18.9 mm	14 mm	15.8-17.6 mm	LDPE - Low density polyethylene	0597 600 172	500
24 mm	16.7-16.8 mm	8 mm	15.4-15.5 mm	LDPE - Low density polyethylene	0597 600 168	1000
24 mm	18.7-20 mm	9 mm	17.4-18.7 mm	LDPE - Low density polyethylene	0597 600 187	500
24.2 mm	18.2-20.2 mm	13.9 mm	16.4-18.8 mm	LDPE - Low density polyethylene	0597 600 182	500
25.3 mm	19.3-21.1 mm	13.7 mm	17.6-19.5 mm	LDPE - Low density polyethylene	0597 600 193	500
25.7 mm	20.3-22.9 mm	16.6 mm	18.4-21.5 mm	LDPE - Low density polyethylene	0597 600 203	500
25.9 mm	20.4-22.5 mm	15 mm	18.9-20.9 mm	LDPE - Low density polyethylene	0597 600 204	500
26.9 mm	19.8-21 mm	8.9 mm	17.1-18.4 mm	LDPE - Low density polyethylene	0597 600 198	500
27.7 mm	21.4-23.4 mm	15 mm	19.7-21.5 mm	LDPE - Low density polyethylene	0597 600 214	500
28.8 mm	22.2-25.5 mm	15.5 mm	20.2-23.3 mm	LDPE - Low density polyethylene	0597 600 222	500
29.5 mm	24.2-26 mm	13.7 mm	22.4-23.5 mm	LDPE - Low density polyethylene	0597 600 242	500
30.7 mm	25.2-26.8 mm	13.9 mm	23.7-25.4 mm	LDPE - Low density polyethylene	0597 600 252	500
32.4 mm	26.8-29.8 mm	16.4 mm	25.3-28.2 mm	LDPE - Low density polyethylene	0597 600 268	250
34.8 mm	27.9-30.6 mm	13.9 mm	26-28.8 mm	LDPE - Low density polyethylene	0597 600 279	250
35 mm	27.5-28.6 mm	13.7 mm	25.3-26.7 mm	LDPE - Low density polyethylene	0597 600 275	250
35.5 mm	30.9-32.7 mm	17.8 mm	29.5-31.9 mm	LDPE - Low density polyethylene	0597 600 309	250

Outer diameter (d ₁)	Min./max. taper external diameter (d ₂ /d ₅)	Insertion depth (h ₂)	Min./max. taper internal diameter (d ₄ /d ₃)	Material	Art. no.	P. Qty.
36.2 mm	29.7-32 mm	17 mm	27.9-30.3 mm	LDPE - Low density polyethylene	0597 600 297	250
36.2 mm	30.7-32.8 mm	16.2 mm	29.1-31.1 mm	LDPE - Low density polyethylene	0597 600 307	250
36.3 mm	24.6-28 mm	16.6 mm	22.8-26 mm	LDPE - Low density polyethylene	0597 600 249	250
37.3 mm	31.3-33.7 mm	16.4 mm	29.8-32.2 mm	LDPE - Low density polyethylene	0597 600 316	250
39.5 mm	33.1-35.2 mm	16.7 mm	31.7-33.4 mm	LDPE - Low density polyethylene	0597 600 331	250
41 mm	35.6-38.2 mm	16.5 mm	33.7-36.5 mm	LDPE - Low density polyethylene	0597 600 357	250
44.6 mm	38-40 mm	17.1 mm	36.6-38.4 mm	LDPE - Low density polyethylene	0597 600 377	250
45.7 mm	36.8-39.5 mm	16.8 mm	35.3-38 mm	LDPE - Low density polyethylene	0597 600 368	250
46.5 mm	37.8-40.5 mm	18.3 mm	36.8-39.2 mm	LDPE - Low density polyethylene	0597 600 378	250
47.3 mm	41.1-44.5 mm	16.8 mm	40.1-42.6 mm	LDPE - Low density polyethylene	0597 600 411	250
48 mm	41.4-43.7 mm	17.9 mm	40-42 mm	LDPE - Low density polyethylene	0597 600 414	100
51.3 mm	44.4-47.3 mm	18.7 mm	42.3-44.9 mm	LDPE - Low density polyethylene	0597 600 444	150
52.4 mm	45.6-48 mm	18.9 mm	43.5-45.9 mm	LDPE - Low density polyethylene	0597 600 456	100
52.7 mm	46.2-48.7 mm	18.5 mm	44.6-48.8 mm	LDPE - Low density polyethylene	0597 600 462	100
53.8 mm	46.9-49.3 mm	18.9 mm	45.7-48.1 mm	LDPE - Low density polyethylene	0597 600 469	100
56.5 mm	49.6-51.8 mm	18.8 mm	47.8-50.1 mm	LDPE - Low density polyethylene	0597 600 491	100
57.5 mm	49.4-49.7 mm	8.9 mm	46.4-47.5 mm	LDPE - Low density polyethylene	0597 600 494	250
58.2 mm	51.7-55.5 mm	19.6 mm	50.1-53.4 mm	LDPE - Low density polyethylene	0597 600 519	100
59.4 mm	47.9-52.3 mm	14.5 mm	46-48.7 mm	LDPE - Low density polyethylene	0597 600 479	100
59.6 mm	50.8-54.3 mm	19.8 mm	49.4-52.6 mm	LDPE - Low density polyethylene	0597 600 508	100
62.3 mm	55.7-58.3 mm	19.6 mm	54.1-56.4 mm	LDPE - Low density polyethylene	0597 600 555	100
62.4 mm	46.5-49 mm	18.4 mm	45.7-47 mm	LDPE - Low density polyethylene	0597 600 465	100

Continuation **Universal protector WP 600**

Outer diameter (d ₁)	Min./max. taper external diameter (d ₂ /d ₂)	Insertion depth (h ₂)	Min./max. taper internal diameter (d ₄ /d ₃)	Material	Art. no.	P. Qty.
65.1 mm	58.3-60.7 mm	19.3 mm	56.9-59 mm	LDPE - Low density polyethylene	0597 600 583	100
65.2 mm	57.5-59.6 mm	19.6 mm	55.9-57.6 mm	LDPE - Low density polyethylene	0597 600 575	100
67.7 mm	57.8-61.7 mm	13 mm	56-59.9 mm	LDPE - Low density polyethylene	0597 600 578	100
69 mm	62.7-66.5 mm	19.7 mm	61.1-64.6 mm	LDPE - Low density polyethylene	0597 600 630	100
70 mm	63.3-66 mm	20.4 mm	61-63.7 mm	LDPE - Low density polyethylene	0597 600 633	100
72.3 mm	64.8-68.5 mm	28.6 mm	63.5-65.6 mm	LDPE - Low density polyethylene	0597 600 652	100
72.7 mm	66.1-68.4 mm	19.8 mm	64.2-66.7 mm	LDPE - Low density polyethylene	0597 600 661	100
75 mm	67.8-72.4 mm	22.1 mm	66.3-70.2 mm	LDPE - Low density polyethylene	0597 600 684	100
78.1 mm	70.1-74.3 mm	20.7 mm	69.2-71.8 mm	LDPE - Low density polyethylene	0597 600 701	50
80.9 mm	73.8-76 mm	20.9 mm	71.8-74.4 mm	LDPE - Low density polyethylene	0597 600 738	50
82.6 mm	74.8-77.7 mm	21.5 mm	72.1-75.6 mm	LDPE - Low density polyethylene	0597 600 748	50
84.8 mm	77.9-80.3 mm	20.4 mm	76.1-78.1 mm	LDPE - Low density polyethylene	0597 600 781	50
86 mm	78.8-82 mm	21.9 mm	77.5-80.2 mm	LDPE - Low density polyethylene	0597 600 788	50
87.8 mm	77.9-83.8 mm	30.4 mm	76.5-81.8 mm	LDPE - Low density polyethylene	0597 600 779	50
88.1 mm	80.9-83.2 mm	21.8 mm	78.4-81.2 mm	LDPE - Low density polyethylene	0597 600 809	50
91 mm	83.4-86.3 mm	21.4 mm	81-83.7 mm	LDPE - Low density polyethylene	0597 600 834	50
92 mm	84.1-87.3 mm	21.6 mm	83.3-85.6 mm	LDPE - Low density polyethylene	0597 600 850	50
95 mm	87.7-90.5 mm	21.8 mm	85.8-88.6 mm	LDPE - Low density polyethylene	0597 600 877	50
95 mm	88-90.9 mm	21.8 mm	86.6-89 mm	LDPE - Low density polyethylene	0597 600 880	50
100 mm	90.1-92.3 mm	23.4 mm	86.6-87.8 mm	LDPE - Low density polyethylene	0597 600 901	50
100.5 mm	94.2-97.3 mm	23.8 mm	92-96 mm	LDPE - Low density polyethylene	0597 600 942	50

Outer diameter (d ₁)	Min./max. taper external diameter (d ₂ /d ₃)	Insertion depth (h ₂)	Min./max. taper internal diameter (d ₄ /d ₃)	Material	Art. no.	P. Qty.
102 mm	91.2-95.7 mm	23.4 mm	89.4-94.2 mm	LDPE - Low density polyethylene	0597 600 912	50
104.2 mm	96.3-99.2 mm	22.5 mm	93.2-97.6 mm	LDPE - Low density polyethylene	0597 600 963	10
104.6 mm	98.9-101.2 mm	21.9 mm	97.2-98.7 mm	LDPE - Low density polyethylene	0597 600 989	50
111.1 mm	103.5-107.1 mm	22.8 mm	101.6-105.2 mm	LDPE - Low density polyethylene	0597 601 035	400
113.7 mm	103.9-110.7 mm	31.5 mm	102.0-113.7 mm	LDPE - Low density polyethylene	0597 601 039	300
117.2 mm	109.4-112.3 mm	24 mm	107.2-110.6 mm	LLDPE - Linear, low density polyethylene	0597 601 094	350
118.2 mm	111.9-114.5 mm	24.3 mm	110.5-113.5 mm	LDPE - Low density polyethylene	0597 601 119	300
119.5 mm	110.5-112.2 mm	27.5 mm	108-111 mm	LDPE - Low density polyethylene	0597 601 105	300
137 mm	123.5-126.1 mm	24.9 mm	121.5-124.5 mm	LDPE - Low density polyethylene	0597 601 235	250
138 mm	129.9-135 mm	32.5 mm	126.9-132.9 mm	LDPE - Low density polyethylene	0597 601 295	20
139.5 mm	128.6-131.6 mm	25.6 mm	126.5-129.5 mm	LDPE - Low density polyethylene	0597 601 262	10
143.5 mm	126.2-133.6 mm	36.5 mm	123.4-130.6 mm	LDPE - Low density polyethylene	0597 601 336	160
152.5 mm	142.8-148.7 mm	28.5 mm	141.4-146.9 mm	LDPE - Low density polyethylene	0597 601 428	200
166.3 mm	148.7-152.2 mm	27.3 mm	144.9-149.8 mm	LDPE - Low density polyethylene	0597 601 487	150
168.2 mm	157.4-160.5 mm	27.9 mm	156.1-149.4 mm	LDPE - Low density polyethylene	0597 601 574	150
176.9 mm	165.5-168.2 mm	28.3 mm	160.3-163.7 mm	LDPE - Low density polyethylene	0597 601 655	125
180 mm	167.5-171.1 mm	28 mm	165.1-169.5 mm	LDPE - Low density polyethylene	0597 601 675	125
189 mm	178.3-181.3 mm	27.8 mm	176.1-179.4 mm	LDPE - Low density polyethylene	0597 601 783	125
215.9 mm	196.7-200.8 mm	31.6 mm	194.2-198.1 mm	LDPE - Low density polyethylene	0597 601 967	100
218 mm	199.5-203.9 mm	33.2 mm	196.9-200.9 mm	LDPE - Low density polyethylene	0597 601 995	75
332.7 mm	303.4-314 mm	55 mm	300.1-310.8 mm	LLDPE - Linear, low density polyethylene	0597 603 034	10

Universal protection GPN 600

GPN 600, polyethylene, natural

Other standard	GPN 600
Colour	Natural



Outer diameter (d ₁)	Min./max. taper external diameter (d ₂ /d ₃)	Insertion depth (h ₂)	Min./max. taper internal diameter (d ₄ /d ₅)	Interior height (G)	Art. no.	P. Qty.
11 mm	8.1-9.2 mm	7.2 mm	6.6-7.8 mm	7 mm	0598 608 1	500
12 mm	9.8-11 mm	7.2 mm	8.4-9.6 mm	7 mm	0598 609 8	1200
15 mm	11.4-12.4 mm	7 mm	10.0-11.2 mm	6.8 mm	0598 601 14	500
16 mm	13.3-14.4 mm	7 mm	11.6-12.8 mm	6.8 mm	0598 601 33	500
17 mm	14.0-15.1 mm	7.2 mm	12.4-13.6 mm	6.9 mm	0598 601 40	600
18 mm	14.6-15.6 mm	7.2 mm	13.3-14.5 mm	6.9 mm	0598 601 46	500
18 mm	15.3-16.4 mm	7 mm	13.6-14.8 mm	7 mm	0598 601 53	500
20 mm	16.0-17.3 mm	9 mm	14.6-16.2 mm	8.8 mm	0598 601 60	250
21 mm	17.4-18.8 mm	9.2 mm	16.4-18 mm	8.8 mm	0598 601 74	300
22 mm	18.2-19.6 mm	9 mm	17.2-18.8 mm	8.8 mm	0598 601 82	300
24 mm	18.7-20 mm	9.2 mm	17.7-19 mm	8.7 mm	0598 601 87	300
24 mm	19.8-21.2 mm	8.8 mm	18.3-19.7 mm	8.8 mm	0598 601 98	180
25 mm	20.3-22.6 mm	14 mm	18.4-20.8 mm	13.8 mm	0598 602 03	500
28 mm	23.0-25 mm	14 mm	21.6-24 mm	13.8 mm	0598 602 30	200
30 mm	24.3-26.4 mm	14 mm	22.6-25 mm	13.6 mm	0598 602 43	500
32 mm	27.2-29.3 mm	14 mm	24.6-27 mm	13.8 mm	0598 602 72	120
35 mm	30.0-32 mm	14 mm	28.4-30.6 mm	13.8 mm	0598 603 00	100
38 mm	32.0-34 mm	14 mm	29.6-32 mm	14 mm	0598 603 20	150
40 mm	33.6-36 mm	14 mm	31.6-34 mm	14 mm	0598 603 36	75
41 mm	34.5-37 mm	14 mm	32.6-35 mm	14 mm	0598 603 45	100
42 mm	35.5-38.1 mm	14 mm	33.1-35.5 mm	14 mm	0598 603 55	100
44 mm	37.9-40 mm	13.8 mm	35.6-38 mm	13.8 mm	0598 603 79	100
51.5 mm	43.9-46 mm	13.5 mm	40.2-42 mm	13.6 mm	0598 604 39	100
54 mm	47.9-50 mm	13.5 mm	44.1-46.5 mm	13.6 mm	0598 604 79	100
55 mm	50.5-53.3 mm	14 mm	48.8-51.3 mm	14.2 mm	0598 605 05	40
56 mm	49.8-51.6 mm	13.3 mm	46.1-48.5 mm	13.5 mm	0598 604 98	100
58 mm	52.5-54.9 mm	13.5 mm	50.6-52.5 mm	13.5 mm	0598 605 25	40
61 mm	55.5-58 mm	13.6 mm	52.6-55 mm	13.5 mm	0598 605 55	40
64 mm	58.5-60.8 mm	13.5 mm	55.6-58 mm	13.5 mm	0598 605 85	25
69 mm	63.5-65.7 mm	13 mm	60.1-63 mm	13.5 mm	0598 606 35	30
75 mm	69.8-71.7 mm	13 mm	66.0-68 mm	13.5 mm	0598 606 98	50
77 mm	71.5-73.4 mm	13 mm	67.6-70 mm	13 mm	0598 607 15	15
85 mm	74.0-76.6 mm	17 mm	69.9-73 mm	17 mm	0598 607 40	50
87 mm	76.5-79 mm	16.8 mm	73.4-76.5 mm	17 mm	0598 607 65	10
88 mm	77.5-80 mm	17 mm	72.9-76 mm	17.2 mm	0598 607 75	15
89 mm	82.0-86 mm	23 mm	79.7-83.9 mm	23.5 mm	0598 608 20	10
92 mm	81.5-83.6 mm	16.5 mm	76.9-80 mm	17 mm	0598 608 15	20
97 mm	86.5-89 mm	17.5 mm	82.9-86 mm	18 mm	0598 608 65	25
100 mm	89-91.5 mm	17 mm	86.5-89 mm	17.5 mm	0598 608 90	10
107 mm	96.5-99 mm	17 mm	92.9-96 mm	17.5 mm	0598 609 65	10
120 mm	109-111 mm	17 mm	105-108 mm	17.5 mm	0598 601 090	10
123 mm	112-114.5 mm	17 mm	109.4-112.5 mm	17 mm	0598 601 120	10

Outer diameter (d ₁)	Min./max. taper external diameter (d ₂ /d ₃)	Insertion depth (h ₂)	Min./max. taper internal diameter (d ₄ /d ₃)	Interior height (G)	Art. no.	P. Qty.
130 mm	119-123 mm	23 mm	116.1-120.2 mm	23 mm	0598 601 190	5
134 mm	124-128 mm	23 mm	119.1-123 mm	23 mm	0598 601 240	10
140 mm	129-133 mm	23 mm	126.1-130.2 mm	23.5 mm	0598 601 290	5
143 mm	133-137 mm	23 mm	129-133 mm	22.5 mm	0598 601 330	5
149 mm	139-143 mm	23 mm	135-139 mm	23 mm	0598 601 390	5
159 mm	149-153 mm	23 mm	144.1-148 mm	23.3 mm	0598 601 490	5
159.5 mm	146.8-152.6 mm	33 mm	144-149.9 mm	33.5 mm	0598 601 468	10
163.6 mm	153.5-157.5 mm	23 mm	149.6-153.6 mm	23 mm	0598 601 535	5
170 mm	160-164 mm	23 mm	156-160 mm	23 mm	0598 601 600	5
179 mm	169-172 mm	23 mm	164-168 mm	23 mm	0598 601 690	5
189 mm	179-182 mm	23 mm	174-178 mm	23 mm	0598 601 790	5
209 mm	199-202 mm	22.5 mm	194-198 mm	22.5 mm	0598 601 990	5
212 mm	202-205 mm	23 mm	198.1-202.1 mm	23 mm	0598 602 020	5
213 mm	203-205 mm	23 mm	199-202 mm	23 mm	0598 602 030	5
235 mm	218-222 mm	22.5 mm	213.5-217.4 mm	22.5 mm	0598 602 180	1
242 mm	225-229 mm	23.5 mm	221.3-225.4 mm	23 mm	0598 602 250	1
265 mm	253-258 mm	18 mm	249.2-253 mm	18 mm	0598 602 530	1
314 mm	293.4-300.2 mm	32.5 mm	289.8-296.7 mm	33 mm	0598 602 934	1
315 mm	299-304 mm	22.5 mm	294.1-298 mm	22.5 mm	0598 602 990	1

Screw plug GPN 700, for metric thread

GPN 700, polyethylene (PE-HD), yellow

Other standard	GPN 700
Material	HDPE - High density polyethylene
Colour	Yellow
Min./max. temperature resistance	-40 to 80 °C
Max. short-term temperature resistance	100 °C



Thread type x nominal diameter (d ₁)	Pitch	Outer diameter (d ₂)	Height (h ₁)	Insertion depth (h ₂)	Art. no.	P. Qty.
M6	1.25 mm	12 mm	12 mm	7 mm	0598 702 8	500
M8	1 mm	12 mm	12 mm	7 mm	0598 702 81	250
M10	1 mm	14 mm	14 mm	9 mm	0598 702 101	500
M10	1.5 mm	14 mm	14 mm	9 mm	0598 702 10	500
M12	1.5 mm	16 mm	14 mm	9 mm	0598 702 125	500
M12	1.75 mm	16 mm	14 mm	9 mm	0598 702 12	500
M14	1.5 mm	19 mm	14 mm	9 mm	0598 702 145	200
M14	2 mm	19 mm	14 mm	9 mm	0598 702 14	250
M16	1.5 mm	21 mm	16 mm	10 mm	0598 702 165	300
M16	2 mm	21 mm	16 mm	10 mm	0598 702 16	200
M18	1.5 mm	24 mm	16 mm	10 mm	0598 702 185	200
M20	1.5 mm	26 mm	18 mm	12 mm	0598 702 205	100

Continuation **Screw plug GPN 700, for metric thread**

Thread type x nominal diameter (d ₁)	Pitch	Outer diameter (d ₂)	Height (h ₁)	Insertion depth (h ₂)	Art. no.	P. Qty.
M20	2.5 mm	26 mm	18 mm	12 mm	0598 702 20	150
M22	1.5 mm	28 mm	18 mm	12 mm	0598 702 225	150
M24	1.5 mm	31.5 mm	18 mm	10 mm	0598 702 245	100
M24	3 mm	31.5 mm	18 mm	10 mm	0598 702 24	100
M26	1.5 mm	31.5 mm	20 mm	12 mm	0598 702 265	200
M27	2 mm	32 mm	20 mm	12 mm	0598 702 272	100
M30	1.5 mm	36 mm	20 mm	12 mm	0598 702 305	100
M30	2 mm	36 mm	20 mm	12 mm	0598 702 302	75
M30	3.5 mm	35.4 mm	26 mm	17.7 mm	0598 702 30	250
M33	2 mm	39 mm	23 mm	13 mm	0598 702 332	100
M36	1.5 mm	44 mm	23 mm	13 mm	0598 702 365	50
M36	2 mm	44 mm	23 mm	13 mm	0598 702 362	100
M42	1.5 mm	51 mm	25 mm	15 mm	0598 702 425	50
M42	2 mm	52 mm	25 mm	15 mm	0598 702 422	100
M45	2 mm	55 mm	25 mm	15 mm	0598 702 452	100
M52	2 mm	60 mm	25 mm	15 mm	0598 702 522	25

Sealing plug GPN 735, for metric thread

GPN 735, polyamide (PA 6), yellow

Other standard	GPN 735
Material	PA - Polyamide
Colour	Yellow
Min./max. temperature resistance	-20 to 90 °C
Max. short-term temperature resistance	150 °C



Thread type x nominal diameter (d ₁)	Pitch	Outer diameter (d ₂)	Height (h ₁)	Insertion depth (h ₂)	Art. no.	P. Qty.
M10	1 mm	14.2 mm	15 mm	8 mm	0598 735 101	500
M12	1.5 mm	17.2 mm	18 mm	11 mm	0598 735 125	500
M14	1.5 mm	19.2 mm	19 mm	11 mm	0598 735 145	250
M16	1.5 mm	22 mm	21 mm	11 mm	0598 735 165	250
M18	1.5 mm	24 mm	21 mm	11 mm	0598 735 185	200
M26	1.5 mm	32 mm	23.5 mm	13.5 mm	0598 735 265	100
M48	2 mm	55.4 mm	24.5 mm	13.5 mm	0598 735 482	25

Screw plug GPN 710, for pipe thread

GPN 710, polypropylene (PP), black

Thread type x nominal diameter (d ₁)	G2
Outer diameter (d ₂)	72 mm
Height (h ₁)	25 mm
Insertion depth (h ₂)	12 mm
Width across flats (s ₁)	27 mm



Other standard	GPN 710
Material	PP - Polypropylene
Colour	Black
Min./max. temperature resistance	-20 to 100 °C
Max. short-term temperature resistance	130 °C

Art. no. 0598 710 2

P. Qty.: 50

Pipe protective cap WP 250

Polyethylene, yellow

Particularly suitable for straight pipes



Internal diameter (d ₂)	Height (h ₁)	Material	Colour	RoHS-compliant	Art. no.	P. Qty.
5.6 mm	15.7 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 056	3000
6.2 mm	15 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 062	3000
6.3 mm	15.7 mm	LLDPE - Linear, low density polyethylene	Yellow	Yes	0597 250 063	3000
9.6 mm	17.7 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 096	1000
10.3 mm	19.1 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 100	1000
11.1 mm	15 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 110	500
12.2 mm	19 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 120	250
12.8 mm	18.9 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 127	1000
14.2 mm	13 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 140	1000
14.8 mm	20 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 150	500
16.4 mm	20.8 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 164	500
17.8 mm	20.7 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 178	200
18.4 mm	21 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 184	500
20.2 mm	21.6 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 208	300

Continuation **Pipe protective cap WP 250**

Internal diameter (d ₂)	Height (h ₁)	Material	Colour	RoHS-compliant	Art. no.	P. Qty.
21.1 mm	21.8 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 209	500
21.9 mm	25 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 220	250
22 mm	20.6 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 213	100
23.1 mm	23.5 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 230	250
24.2 mm	19.4 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 240	250
25.3 mm	25.7 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 250	250
26.9 mm	26 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 270	250
28 mm	25.5 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 280	50
30.3 mm	29.5 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 300	100
31 mm	28.6 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 305	250
32.6 mm	28.6 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 320	100
33 mm	28.4 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 330	250
34 mm	29.5 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 337	250
36.5 mm	29.7 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 360	40
36.7 mm	9.8 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 370	250
38.6 mm	29 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 380	100
40.3 mm	29.8 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 400	50
42.1 mm	28.7 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 408	100
42.7 mm	29.5 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 424	100
45.3 mm	36.5 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 443	40
48.5 mm	37.4 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 485	100
50.5 mm	29.6 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 500	100

Internal diameter (d ₂)	Height (h ₁)	Material	Colour	RoHS-compliant	Art. no.	P. Qty.
57.6 mm	36.5 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 570	50
58.3 mm	51 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 580	50
60.1 mm	37.6 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 600	50
60.3 mm	37.3 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 603	50
63.6 mm	37.5 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 635	50
76.2 mm	37.5 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 760	20
90.6 mm	36.5 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 250 889	50
102 mm	34.2 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 251 030	50
106 mm	40.6 mm	LDPE - Low density polyethylene	Natural		0597 251 060	50
107.7 mm	35 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 251 080	50
114.3 mm	35 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 251 143	25
131.3 mm	37 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 251 330	25
138.6 mm	36.1 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 251 397	25
159 mm	36.6 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 251 590	25
170.4 mm	36.5 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 251 683	25
180 mm	40 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 251 800	25
193.7 mm	37 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 251 937	25
223 mm	36.4 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 252 191	25
275.2 mm	36.3 mm	LDPE - Low density polyethylene	Yellow	Yes	0597 252 730	25
324 mm	37.4 mm	LLDPE - Linear, low density polyethylene	Yellow	Yes	0597 253 239	30
363.2 mm	47.1 mm	LLDPE - Linear, low density polyethylene	Yellow	Yes	0597 253 556	25
405 mm	56.5 mm	LLDPE - Linear, low density polyethylene	Yellow	Yes	0597 254 050	15
419 mm	37 mm	LLDPE - Linear, low density polyethylene	Yellow	Yes	0597 254 190	15

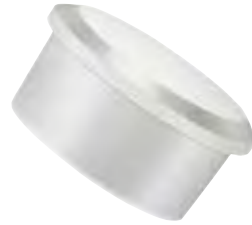
Continuation **Pipe protective cap WP 250**

Internal diameter (d ₂)	Height (h ₁)	Material	Colour	RoHS-compliant	Art. no.	P. Qty.
460.8 mm	56.6 mm	LLDPE - Linear, low density polyethylene	Yellow	Yes	0597 254 572	15
508 mm	57 mm	LLDPE - Linear, low density polyethylene	Yellow	Yes	0597 255 080	15
609.6 mm	65 mm	LLDPE - Linear, low density polyethylene	Yellow	Yes	0597 256 096	10
710 mm	100 mm	HDPE - High density polyethylene	Yellow	Yes	0597 257 112	10
810 mm	100 mm	HDPE - High density polyethylene	Yellow	Yes	0597 258 128	10
914.4 mm	100 mm	HDPE - High density polyethylene	Yellow	Yes	0597 259 144	10

Universal protection **GPN 350**

GPN 350, polyethylene (PE-LD), natural

Other standard	GPN 350
Material	LDPE - Low density polyethylene
Colour	Natural
Min./max. temperature resistance	-40 to 60 °C
Max. short-term temperature resistance	80 °C



Outer diameter (A)	Nominal diameter (B)	Insertion depth (H)	Internal diameter (D)	Interior height (G)	Art. no.	P. Qty.
16 mm	11.9 mm	8 mm	9.7 mm	9.2 mm	0598 350 013	100
19 mm	13.9 mm	8 mm	11.7 mm	9.8 mm	0598 350 015	1000
19 mm	15 mm	8 mm	13 mm	9.3 mm	0598 350 018	1000
24 mm	15.8 mm	18 mm	13.7 mm	19.7 mm	0598 350 019	200
24 mm	17.7 mm	9 mm	15.7 mm	10.7 mm	0598 350 023	1000
26 mm	21.5 mm	26 mm	18.7 mm	28.2 mm	0598 350 027	100
26 mm	22 mm	10 mm	19.7 mm	12.2 mm	0598 350 028	200
29 mm	23.7 mm	10 mm	21.7 mm	12.2 mm	0598 350 031	100
29 mm	25 mm	10 mm	23.7 mm	12.2 mm	0598 350 033	50
33 mm	26.3 mm	11 mm	24.9 mm	13.2 mm	0598 350 035	100
33 mm	28.3 mm	11 mm	25.7 mm	13.2 mm	0598 350 037	100
36 mm	30.1 mm	11 mm	27.9 mm	12.6 mm	0598 350 039	100
36 mm	32 mm	11 mm	29.7 mm	12.5 mm	0598 350 041	100
36 mm	32.8 mm	11 mm	30.5 mm	13.2 mm	0598 350 042	100
42 mm	33.9 mm	12 mm	31.5 mm	14.2 mm	0598 350 043	100
42 mm	34.5 mm	12 mm	32.5 mm	14.2 mm	0598 350 044	80
45 mm	38 mm	12 mm	35.7 mm	14.2 mm	0598 350 047	100
50 mm	41.8 mm	12 mm	39.5 mm	13.7 mm	0598 350 051	100
50 mm	43.7 mm	12 mm	41.5 mm	14.2 mm	0598 350 052	50
56 mm	46.8 mm	12 mm	44.5 mm	13.7 mm	0598 350 054	100
56 mm	48.7 mm	12 mm	46.7 mm	14.2 mm	0598 350 055	50

Protective plug GPN 300 V

GPN 300 V, polyethylene (PE-LD), natural

Other standard	GPN 300 V
Material	LDPE - Low density polyethylene
Colour	Natural
Min./max. temperature resistance	-40 to 60 °C
Max. short-term temperature resistance	80 °C

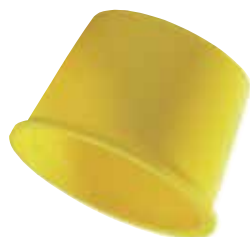


Nominal diameter (d ₃)	Insertion depth (h ₁)	Art. no.	P. Qty.
7.2 mm	8 mm	0598 397 2	1000
8.6 mm	6.5 mm	0598 397 031	200
10.7 mm	7.5 mm	0598 397 5	500
12.3 mm	9 mm	0598 397 9	500
13.7 mm	10 mm	0598 397 10	1000
14.6 mm	7.5 mm	0598 397 11	200
15.6 mm	10 mm	0598 397 12	500
16.7 mm	7.5 mm	0598 397 14	500
17.1 mm	10.5 mm	0598 397 15	250
18.4 mm	10.5 mm	0598 397 17	300
21.5 mm	10 mm	0598 397 184	1000
23.6 mm	12 mm	0598 397 211	250
24.6 mm	12 mm	0598 397 23	500
25.5 mm	9.5 mm	0598 397 232	300
26.5 mm	12 mm	0598 397 233	100
29 mm	15 mm	0598 397 24	100
30.5 mm	15 mm	0598 397 241	100
36.5 mm	18 mm	0598 397 28	100
38.4 mm	12.5 mm	0598 397 30	80
42.3 mm	18 mm	0598 397 312	60
46 mm	21 mm	0598 397 32	100
48.5 mm	15 mm	0598 397 33	100
51.5 mm	21 mm	0598 397 35	100
71 mm	6.5 mm	0598 397 41	15

Universal protection GPN 610

GPN 610, polyethylene (PE-LD), yellow

Other standard	GPN 610
Material	LDPE - Low density polyethylene
Colour	Yellow



Outer diameter (d ₁)	Min./max. taper external diameter (d ₂ /d ₅)	Insertion depth (h ₂)	Min./max. taper internal diameter (d ₄ /d ₃)	Interior height (G)	Art. no.	P. Qty.
10 mm	4.4-6.2 mm	10 mm	2.8-4.6 mm	10.8 mm	0598 610 01	2000
11 mm	6.0-7.8 mm	10 mm	4.4-6.2 mm	10.8 mm	0598 610 02	1500
13 mm	7.6-9.4 mm	10 mm	6.0-7.8 mm	10 mm	0598 610 03	500

Continuation **Universal protection GPN 610**

Outer diameter (d ₁)	Min./max. taper external diameter (d ₂ /d ₃)	Insertion depth (h ₂)	Min./max. taper internal diameter (d ₄ /d ₅)	Interior height (G)	Art. no.	P. Qty.
14 mm	8.4-10.2 mm	10 mm	6.8-8.6 mm	10 mm	0598 610 04	800
14 mm	9.2-11 mm	10 mm	7.5-9.3 mm	10 mm	0598 610 05	1000
15 mm	9.9-11.7 mm	10 mm	8.3-10.1 mm	10 mm	0598 610 06	500
16 mm	10.6-12.4 mm	10 mm	9.0-10.8 mm	10 mm	0598 610 07	500
17 mm	11.3-13.1 mm	10 mm	9.5-11.2 mm	10 mm	0598 610 08	350
18 mm	12.0-14.1 mm	12 mm	10.4-12.5 mm	12 mm	0598 610 09	500
18 mm	12.5-14.6 mm	12 mm	11.2-13.3 mm	12 mm	0598 610 010	300
19 mm	13.5-15.6 mm	12 mm	11.9-14 mm	12 mm	0598 610 011	250
19 mm	14.0-16.1 mm	12 mm	12.4-14.5 mm	12 mm	0598 610 012	250
21 mm	15.0-17 mm	13 mm	13.2-15.5 mm	13 mm	0598 610 013	200
22 mm	16.3-18.6 mm	13 mm	14.7-17 mm	13 mm	0598 610 014	250
22 mm	17.3-19.4 mm	13 mm	15.5-17.6 mm	13 mm	0598 610 015	200
24 mm	17.5-20.1 mm	15 mm	15.9-18.5 mm	15 mm	0598 610 016	200
27 mm	20.4-23.2 mm	16 mm	18.8-21.6 mm	16 mm	0598 610 019	150
28 mm	20.7-23.5 mm	16 mm	19.1-21.9 mm	16 mm	0598 610 020	80
29 mm	22.0-24.8 mm	16 mm	20.4-23 mm	16 mm	0598 610 021	500
30 mm	23.2-26.3 mm	18 mm	21.2-24.4 mm	18 mm	0598 610 022	100
32 mm	24.5-27.8 mm	19 mm	22.9-26.2 mm	19 mm	0598 610 023	100
33 mm	25.5-29.2 mm	19 mm	23.7-27.7 mm	19 mm	0598 610 024	100
35 mm	27.8-31.1 mm	19 mm	26.2-29.5 mm	19 mm	0598 610 025	80
37 mm	29.8-32.6 mm	16 mm	28.3-31.1 mm	16 mm	0598 610 026	100
38 mm	31.4-35.1 mm	21 mm	29.7-33.4 mm	21 mm	0598 610 027	100
41 mm	33.3-37.1 mm	22 mm	31.7-35.5 mm	22 mm	0598 610 028	100
45 mm	36.7-40.5 mm	22 mm	35.2-39 mm	22 mm	0598 610 029	50
48 mm	38.2-43 mm	23 mm	36.6-41.4 mm	23 mm	0598 610 030	100
48 mm	39.6-42.9 mm	19 mm	38.0-41.3 mm	19 mm	0598 610 031	75
49 mm	41.4-44.7 mm	19 mm	39.7-43 mm	19 mm	0598 610 032	50
51 mm	44.4-47.7 mm	19 mm	42.8-46.1 mm	19 mm	0598 610 033	25
54 mm	45.2-49.6 mm	25 mm	43.6-48 mm	25 mm	0598 610 034	50
55 mm	46.6-51 mm	25 mm	45.2-48.7 mm	25 mm	0598 610 035	100
62 mm	52.5-56.9 mm	25 mm	50.8-55.2 mm	25 mm	0598 610 036	50
65 mm	54.0-59.3 mm	25 mm	52.5-57.8 mm	25 mm	0598 610 037	100
65 mm	54.2-58.6 mm	25 mm	52.6-57 mm	25 mm	0598 610 038	30
75 mm	67.1-70.4 mm	19 mm	65.4-68.7 mm	19 mm	0598 610 041	100
83 mm	72.4-75.7 mm	19 mm	70.8-74.1 mm	19 mm	0598 610 042	20
92 mm	84.5-87.8 mm	19 mm	82.4-85.7 mm	19 mm	0598 610 043	15

Sealing plug **GPN 300 F**

GPN 300 F, polyethylene (PE-LD), natural

Other standard	GPN 300 F
Material	LDPE - Low density polyethylene
Colour	Natural
Min./max. temperature resistance	-40 to 60 °C
Max. short-term temperature resistance	80 °C



Nominal diameter (d ₃)	Outer diameter (d ₂)	Max. shank diameter (C)	Insertion depth (h ₁)	Height (M)	Art. no.	P. Qty.
6.6 mm	9 mm	6.6 mm	4 mm	5.2 mm	0598 387 012	500
7.2 mm	14 mm	7.2 mm	6 mm	8 mm	0598 387 2	1500
8.4 mm	14 mm	8.4 mm	6 mm	8 mm	0598 387 3	500
8.6 mm	14 mm	8.6 mm	4.5 mm	6.5 mm	0598 387 031	1000
9.2 mm	14 mm	9.2 mm	4.5 mm	6.5 mm	0598 387 4	1000
9.4 mm	14 mm	9.4 mm	4.5 mm	6.5 mm	0598 387 041	1000
10.3 mm	13 mm	10.3 mm	5.5 mm	7.5 mm	0598 387 042	500
10.7 mm	14 mm	10.7 mm	5.5 mm	7.5 mm	0598 387 5	1000
11.7 mm	16 mm	11.7 mm	7 mm	9 mm	0598 387 7	800
12.3 mm	16 mm	12.3 mm	7 mm	9 mm	0598 387 9	500
13 mm	16 mm	13 mm	7 mm	9 mm	0598 387 091	500
13.7 mm	20 mm	13.7 mm	8 mm	10 mm	0598 387 10	500
14.6 mm	20 mm	14.6 mm	5.5 mm	7.5 mm	0598 387 11	500
15 mm	20 mm	15 mm	5.5 mm	7.5 mm	0598 387 112	500
15 mm	20 mm	15 mm	8 mm	10 mm	0598 387 111	200
15.6 mm	20 mm	15.6 mm	8 mm	10 mm	0598 387 12	400
16.5 mm	22 mm	16.5 mm	5.5 mm	7.5 mm	0598 387 141	500
16.7 mm	22 mm	16.7 mm	5.5 mm	7.5 mm	0598 387 14	500
17.1 mm	22 mm	17.1 mm	8 mm	10.5 mm	0598 387 15	350
18.4 mm	25 mm	18.4 mm	8 mm	10.5 mm	0598 387 17	200
19.3 mm	25 mm	19.3 mm	8 mm	10.8 mm	0598 387 18	200
19.6 mm	25 mm	19.6 mm	8 mm	10.5 mm	0598 387 183	200
20.7 mm	25 mm	20.7 mm	8 mm	10.5 mm	0598 387 19	300
21.2 mm	25 mm	21.2 mm	8 mm	10 mm	0598 387 184	300
21.4 mm	25 mm	21.4 mm	7.5 mm	9.5 mm	0598 387 181	300
22.4 mm	28 mm	22.4 mm	9 mm	12 mm	0598 387 21	200
23.6 mm	28 mm	23.6 mm	9 mm	12 mm	0598 387 211	200
24.6 mm	28 mm	24.6 mm	9 mm	12 mm	0598 387 23	100
25.5 mm	28 mm	25.5 mm	7.5 mm	9.5 mm	0598 387 232	250
26.5 mm	28 mm	26.5 mm	9 mm	12 mm	0598 387 233	200
29 mm	36 mm	29 mm	12 mm	15 mm	0598 387 24	100
30.5 mm	36 mm	30.5 mm	12 mm	15 mm	0598 387 241	100
32 mm	36 mm	32 mm	10 mm	12.5 mm	0598 387 25	100
33.5 mm	36 mm	33.5 mm	12 mm	14 mm	0598 387 26	100
34.8 mm	42 mm	34.8 mm	15 mm	18 mm	0598 387 27	100
35.5 mm	42 mm	35.5 mm	15 mm	18 mm	0598 387 271	50
36.5 mm	42 mm	36.5 mm	15 mm	18 mm	0598 387 28	50
38.4 mm	42 mm	38.4 mm	10 mm	12.5 mm	0598 387 30	100
40 mm	42 mm	40 mm	15 mm	18 mm	0598 387 31	50
40.7 mm	45 mm	40.7 mm	15 mm	18 mm	0598 387 311	60
46 mm	55 mm	46 mm	18 mm	21 mm	0598 387 32	50
48.5 mm	55 mm	48.5 mm	12 mm	15 mm	0598 387 33	50
51.5 mm	55 mm	51.5 mm	18 mm	21 mm	0598 387 35	25
55 mm	63 mm	55 mm	18 mm	21 mm	0598 387 37	25
55.8 mm	63 mm	55.8 mm	18 mm	21 mm	0598 387 38	25
58 mm	63 mm	58 mm	18 mm	21 mm	0598 387 40	20
59 mm	63 mm	59 mm	18 mm	21.3 mm	0598 387 402	20
66 mm	71 mm	66 mm	18 mm	21.5 mm	0598 387 401	10
71 mm	78 mm	71 mm	18 mm	22 mm	0598 387 41	15
75.8 mm	86 mm	75.8 mm	19 mm	22 mm	0598 387 411	50
86 mm	95 mm	86 mm	18 mm	19.3 mm	0598 387 42	10
102.5 mm	124 mm	102.5 mm	18 mm	21.5 mm	0598 387 44	10
123.5 mm	152 mm	123.5 mm	18 mm	21.5 mm	0598 387 47	10

Covers GPN 910

GPN 910, polyethylene (PE-LLD), black

Other standard	GPN 910
Material	LLDPE - Linear, low density polyethylene
Colour	Black
Min./max. temperature resistance	-40 to 70 °C
Max. short-term temperature resistance	90 °C



Nominal diameter (d ₃)	Outer diameter (d ₂)	Insertion depth (h ₁)	Height (M)	Art. no.	P. Qty.
12.3 mm	16 mm	3 mm	5 mm	0598 913 280	500
17.6 mm	20 mm	4 mm	6 mm	0598 913 759	250
27 mm	38 mm	4.3 mm	6.3 mm	0598 917 63	100
40 mm	50 mm	4 mm	4 mm	0598 913 205	50
53.8 mm	62 mm	4 mm	6 mm	0598 917 15	50
61.5 mm	66 mm	7.8 mm	9.8 mm	0598 913 044	50
62 mm	68 mm	4 mm	5.8 mm	0598 917 14	60
71.5 mm	76 mm	5 mm	7.5 mm	0598 912 713	60
82 mm	90 mm	8 mm	10 mm	0598 913 222	50
93 mm	103 mm	7.7 mm	9.7 mm	0598 913 277	20

Rectangular plugs GPN 270 R

GPN 270 R, polyethylene (PE-LLD), black

Other standard	GPN 270
Material	LLDPE - Linear, low density polyethylene
Colour	Black
Min./max. temperature resistance	-40 to 70 °C
Max. short-term temperature resistance	90 °C



Profile length (A)	Profile width (F)	Suitable for pipe thickness (T)	Height (M)	Insertion depth (H)	Art. no.	P. Qty.
25 mm	15 mm	1.5 - 2 mm	15 mm	11 mm	0598 272 515	100
50 mm	30 mm	1.5 - 2 mm	19 mm	14 mm	0598 275 030	50
50 mm	30 mm	3 mm	19 mm	14 mm	0598 275 031	20
60 mm	20 mm	1.5 - 2 mm	19 mm	14 mm	0598 276 020	25
60 mm	30 mm	1.5 - 2 mm	19 mm	14 mm	0598 276 030	100
60 mm	40 mm	4 mm	19 mm	14 mm	0598 276 041	25
60 mm	40 mm	5 mm	19 mm	14 mm	0598 276 042	10
70 mm	40 mm	4 mm	22 mm	17 mm	0598 277 041	25
80 mm	40 mm	4 mm	22 mm	17 mm	0598 278 041	50
80 mm	60 mm	5 mm	22 mm	17 mm	0598 278 062	10
100 mm	50 mm	4 mm	22 mm	17 mm	0598 271 051	20
100 mm	50 mm	5 mm	22 mm	17 mm	0598 271 052	20
120 mm	60 mm	4 mm	22 mm	17 mm	0598 271 261	10
120 mm	60 mm	5 mm	22 mm	17 mm	0598 271 262	10
140 mm	80 mm	4 mm	22 mm	17 mm	0598 271 480	10



Hose clamp

With asymmetrical lock

Asymmetrical housing

- Even distribution of force
- Clamp head does not tilt away during tightening

Smooth, embossed inside of band with rounded edges

Prevents injuries and hose damage

Material of the clamp band	Ferritic steel F1
Surface of the clamp band	Plain
Material of the screw	Steel
Surface of the screw	Zinc plated
Material of the housing	Ferritic steel F1

Width of band	Min./max. grip range	Art. no.	P. Qty.
7.5 mm	8-12 mm	0539 8 12	50/100
7.5 mm	10-16 mm	0539 10 16	50/100
9 mm	8-16 mm	0539 18 16	50/100
9 mm	12-22 mm	0539 112 22	10/50/100
9 mm	16-27 mm	0539 116 27	50/100
9 mm	20-32 mm	0539 120 32	10/50/100
9 mm	25-40 mm	0539 125 40	10/50/100
9 mm	30-45 mm	0539 130 45	50/100
9 mm	32-50 mm	0539 132 50	50/100

Continuation **Hose clamp**

Width of band	Min./max. grip range	Art. no.	P. Qty.
9 mm	40-60 mm	0539 140 60	25/50
9 mm	50-70 mm	0539 150 70	25/50
9 mm	60-80 mm	0539 160 80	25/50
9 mm	70-90 mm	0539 170 90	25
9 mm	80-100 mm	0539 180 100	25
9 mm	90-110 mm	0539 190 110	25
9 mm	100-120 mm	0539 110 120	25
12 mm	16-27 mm	0549 216 27	50/100
12 mm	20-32 mm	0549 220 32	50/100
12 mm	25-40 mm	0549 225 40	50/100
12 mm	35-50 mm	0549 235 50	50
12 mm	40-60 mm	0549 240 60	25
12 mm	50-70 mm	0549 250 70	25
12 mm	60-80 mm	0549 260 80	25
12 mm	70-90 mm	0549 270 90	25
12 mm	80-100 mm	0549 280 100	25
12 mm	90-110 mm	0549 290 110	20
12 mm	100-120 mm	0549 200 120	10
12 mm	110-130 mm	0549 210 130	10
12 mm	120-140 mm	0549 220 140	10
12 mm	130-150 mm	0549 230 150	5
12 mm	140-160 mm	0549 240 160	5

Hose clamp set, strap width: 9 mm

121 pieces

- Set consisting of 120 parts (10 dimensions) and a Zebra screwdriver with flexible shaft

Number of pieces in assortment/set	121 PCS
Included in delivery (Lieferumfang)	1 x wall mounting set



Art. no. 0539 120 7

P. Qty.: 1

Contents for art. no. 0539 120 7		
Designation	Art. no.	Quantity
Hose clamp 12-22 mm	0539 112 22	10
Hose clamp 16-27 mm	0539 116 27	20
Hose clamp 20-32 mm	0539 120 32	10
Hose clamp 25-40 mm	0539 125 40	10
Hose clamp 32-50 mm	0539 132 50	10
Hose clamp 40-60 mm	0539 140 60	10
Hose clamp 50-70 mm	0539 150 70	10
Hose clamp 60-80 mm	0539 160 80	10
Hose clamp 70-90 mm	0539 170 90	10
Hose clamp 8-16 mm	0539 18 16	20
Screwdriver with flexible shaft 7 mm; Blade length 150 mm	0613 286 07	1

Hose clamp set, strap width: 12 mm

111 pieces

- Set consisting of 110 clamps (11 dimensions) and a Zebra screwdriver with flexible shaft



Number of pieces in assortment/set	111 PCS
Included in delivery (Lieferumfang)	1 x wall mounting set

Art. no. 0549 210

P. Qty.: 1

Contents for art. no. 0549 210		
Designation	Art. no.	Quantity
Hose clamp 100-120 mm	0549 200 120	10
Hose clamp 16-27 mm	0549 216 27	10
Hose clamp 20-32 mm	0549 220 32	10
Hose clamp 25-40 mm	0549 225 40	10
Hose clamp 35-50 mm	0549 235 50	10
Hose clamp 40-60 mm	0549 240 60	10
Hose clamp 50-70 mm	0549 250 70	10
Hose clamp 60-80 mm	0549 260 80	10
Hose clamp 70-90 mm	0549 270 90	10
Hose clamp 80-100 mm	0549 280 100	10
Hose clamp 90-110 mm	0549 290 110	10
Screwdriver with flexible shaft 7 mm; Blade length 150 mm	0613 286 07	1

Hose clamp A4

With asymmetrical lock made entirely of stainless steel

Asymmetrical housing

- Even distribution of force
- Clamp head does not tilt away during tightening

Embossed inside of band with rounded edges

Prevents injuries and hose damage



Material of the clamp band	Stainless steel A4
Surface of the clamp band	Plain
Material of the screw	Stainless steel A4
Material of the housing	Stainless steel A4



Width of band	Min./max. grip range	Art. no.	P. Qty.
9 mm	8-16 mm	0538 008 16	25
9 mm	12-22 mm	0538 012 22	25
9 mm	16-27 mm	0538 016 27	25
9 mm	20-32 mm	0538 020 32	25
9 mm	25-40 mm	0538 025 40	25
9 mm	32-50 mm	0538 032 50	25

Continuation **Hose clamp A4**

Width of band	Min./max. grip range	Art. no.	P. Qty.
9 mm	40-60 mm	0538 040 60	25
12 mm	16-27 mm	0538 16 27	25
12 mm	20-32 mm	0538 20 32	25
12 mm	25-40 mm	0538 25 40	25
12 mm	35-50 mm	0538 35 50	25
12 mm	40-60 mm	0538 40 60	25
12 mm	50-70 mm	0538 50 70	25
12 mm	60-80 mm	0538 60 80	25
12 mm	70-90 mm	0538 70 90	25
12 mm	80-100 mm	0538 80 100	25
12 mm	90-110 mm	0538 90 110	10
12 mm	100-120 mm	0538 100 120	10
12 mm	110-130 mm	0538 110 130	10
12 mm	120-140 mm	0538 120 140	10
12 mm	130-150 mm	0538 130 150	10

Hose clamp with corrugated spring

For applications with high pressure and temperature fluctuations

Corrugated spring on strap interior

- Self-tightening action
- Increased water tightness, even with high pressure and temperature fluctuations

Asymmetrical housing

- Even distribution of force
- Clamp head does not tilt away during tightening

Smooth, embossed inside of band with rounded edges

Prevents injuries and hose damage.



Material of the clamp band	Ferritic steel F1
Material of the housing	Ferritic steel F1
Material of the screw	Ferritic steel F1
Material of the corrugated spring	Stainless steel A2

Width of band	Min./max. grip range	Art. no.	P. Qty.
9 mm	12-22 mm	0549 412 022	15
9 mm	16-27 mm	0549 416 027	15
9 mm	20-32 mm	0549 420 032	15
9 mm	25-40 mm	0549 425 040	15
9 mm	30-45 mm	0549 430 045	15
9 mm	32-50 mm	0549 432 050	15
9 mm	40-60 mm	0549 440 060	15
9 mm	50-70 mm	0549 450 070	15
9 mm	60-80 mm	0549 460 080	15
9 mm	70-90 mm	0549 470 090	15
9 mm	80-100 mm	0549 480 100	10
9 mm	90-110 mm	0549 490 110	10
12 mm	30-45 mm	0549 530 045	10

Width of band	Min./max. grip range	Art. no.	P. Qty.
12 mm	35-50 mm	0549 535 050	10
12 mm	40-60 mm	0549 540 060	10
12 mm	50-70 mm	0549 550 070	10
12 mm	60-80 mm	0549 560 080	10
12 mm	70-90 mm	0549 570 090	10
12 mm	80-100 mm	0549 580 100	8
12 mm	90-110 mm	0549 590 110	8

Turnbuckle

For creating hose clamps with custom sizes and shapes in conjunction with universal tensioning strap

Material of the buckle	Stainless steel A2, 1.4310
Material of the screw	Steel
Surface of the screw	Zinc plated
Internal drive	Z2
Width across flats	1/4 inch



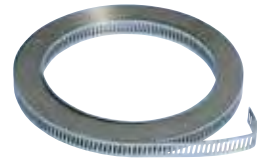
Art. no. 0547 000 11

P. Qty.: 25

Universal tensioning strap

For creating hose clamps with custom sizes and shapes in conjunction with turnbuckle

Material of the tensioning strap	stainless steel A2
Surface	Plain
Width	8 mm
Length	5 m



Art. no. 0547 000 10

P. Qty.: 1

Spring band clamp Standard

Spring steel, zinc flake

Width of band	12 mm
DIN	3021
Material	Spring steel
Surface	Flake zinc
Colour	Black
RoHS-compliant	Yes
Corrosion protection period	720 h
Form	A



Continuation **Spring band clamp Standard**

Nominal diameter	Material thickness	Min./max. working range	Min. spring force	Art. no.	P. Qty.
29 mm	1.7 mm	28-31.5 mm	300 N	0549 903 29	530
35 mm	1.7 mm	34-38 mm	300 N	0549 903 35	430
40 mm	1.7 mm	39-42.5 mm	300 N	0549 903 40	320
42 mm	2.1 mm	40.5-44.5 mm	340 N	0549 903 42	300
90 mm	2.6 mm	88.5-94 mm	300 N	0549 903 90	25

Gas welding rod

For welded joints and sealing welds, particularly welds in awkward positions on copper-plated unalloyed steels

Length	100 cm
Weight of content	25 kg

Wire diameter	Type description	Art. no.	P. Qty.
2 mm	G1	0982 002	25
2 mm	G3	0982 002 3	25
3 mm	G1	0982 003	25
3 mm	G3	0982 003 3	25
4 mm	G1	0982 004	25

Hose clamp Rapid

With quick release fastener

Quick-release fastener (from clamping range 25–40 mm)

Quick and easy pre-assembly thanks to „ratchet effect“

Strap perforation cover/turned-up edges

Prevents injury and hose damage

Long hexagonal

Secure guide during assembly, even when out of view



Material of the clamp band	Stainless steel A2
Material of the housing	Stainless steel A2
Material of the screw	Steel
Surface of the screw	Zinc/nickel plating
Width of band	14.3 mm

Min./max. grip range	Art. no.	P. Qty.
12-22 mm	0547 312 022	25
16-27 mm	0547 316 027	25
20-32 mm	0547 320 032	25
25-40 mm	0547 325 040	25
35-50 mm	0547 335 050	25
40-60 mm	0547 340 060	10
50-70 mm	0547 350 070	10
60-80 mm	0547 360 080	10

Min./max. grip range	Art. no.	P. Qty.
70-90 mm	0547 370 090	10
80-100 mm	0547 380 100	10
90-110 mm	0547 390 110	10
100-120 mm	0547 300 120	10
110-130 mm	0547 310 130	10
130-150 mm	0547 330 150	10
150-170 mm	0547 350 170	10
160-180 mm	0547 360 180	5
190-210 mm	0547 390 210	5

Fuel hose clamp Power

High tightening torque

Higher tightening torque than conventional hose clamps, recommended 3.5 Nm

Cannot be over-tightened by hand

Asymmetrical housing

- Even distribution of force
- Clamp head does not tilt away during tightening

Smooth, embossed inside of band with rounded edges

Prevents injuries and hose damage



Material of the clamp band	Stainless steel A2
Surface of the clamp band	Plain
Material of the screw	Ferritic steel F1
Surface of the screw	Tin plated
Material of the housing	Ferritic steel F1
Surface of the housing	Tin plated
Width of band	9 mm

Min./max. grip range	Art. no.	P. Qty.
8-12 mm	0539 28 12	100
10-16 mm	0539 210 16	100

Hose clamp Mini

For minimally-stressed hoses in tight installation conditions

Material of the clamp band	Stainless steel A2
Surface of the clamp band	Plain
Material of the screw	Steel
Surface of the screw	Zinc plated
Material of the housing	Steel
Surface of the housing	Zinc plated
Width of band	5 mm



Continuation **Hose clamp Mini**

Min./max. grip range	Art. no.	P. Qty.
7-11 mm	0541 7 11	50/100
11-19 mm	0541 9 16	50/100

Screwless hose clamp

Low installation height

Low installation height, small clamping range

Precise assembly even in the narrowest spaces

Smooth inside of band, rounded edges

Prevents injuries and hose damage

Material	Stainless steel A2, 1.4301
Surface	Plain



Width of band	Suitable for min./max. external diameter (D _e)	Nominal width (d1)	Colour	Art. no.	P. Qty.
7 mm	8-9 mm	7.5 mm	White	0541 001 075	100
7 mm	8.5-9.5 mm	8 mm	Yellow	0541 001 080	100
7 mm	9-10 mm	8.5 mm	Green	0541 001 085	100
7 mm	9.5-10.5 mm	9 mm	Violet	0541 001 090	100
7 mm	11-12 mm	10.5 mm	Yellow	0541 001 105	100
7 mm	11.5-12.5 mm	11 mm	Green	0541 001 110	100
8 mm	12.5-14 mm	12 mm	Black	0541 001 120	100
8 mm	13.5-15 mm	13 mm	Yellow	0541 001 130	100
8 mm	14.5-16 mm	14 mm	Violet	0541 001 140	100
8 mm	15.5-17 mm	15 mm	White	0541 001 150	100
8 mm	16.5-18 mm	16 mm	Green	0541 001 160	50
8 mm	18.5-20 mm	18 mm	Yellow	0541 001 180	50
8 mm	19.5-21 mm	19 mm	Violet	0541 001 190	50
8 mm	20.5-22 mm	20 mm	White	0541 001 200	50
8 mm	21.5-23 mm	21 mm	Green	0541 001 210	50
8 mm	24.5-26 mm	24 mm	Violet	0541 001 240	50

Joint bolt clamp Type C1, W2

Joint bolt clamp in accordance with DIN 3017 shape C1, W2

Material of the clamp band	Ferritic steel F1
Surface of the clamp band (11)	Plain
Material of the screw	Steel
Surface of the screw	Zinc plated



Width of band (A)	Min./max. grip range	Art. no.	P. Qty.
18 mm	19-21 mm	0537 19 21	50
25 mm	104-112 mm	0537 104 112	25

Hose clamp with clamping jaw

For connections with high and even contact pressure

Powerful clamping jaw design

- High clamping force
- High density

Material	Steel
Surface	Zinc plated



Width of band	Nominal diameter	Min./max. grip range	Drive type	Width across flats	Art. no.	P. Qty.
7 mm	8 mm	8.5-7.5 mm	Slot		0540 8 7	25
9 mm	9 mm	9.5-8.5 mm	Slot		0540 9 9	25
9 mm	10 mm	10.5-9.5 mm	Slot		0540 10 9	25
9 mm	11 mm	11.5-10.5 mm	Slot		0540 11 9	25
9 mm	12 mm	12.5-11.5 mm	Slot		0540 12 9	25
9 mm	13 mm	13.5-12.5 mm	Slot		0540 13 9	25
9 mm	14 mm	14.5-13.5 mm	Slot		0540 14 9	25
9 mm	15 mm	15.5-14.5 mm	Slot		0540 15 9	25
9 mm	16 mm	16.5-15.5 mm	Slot		0540 16 9	25
9 mm	17 mm	17.5-16.5 mm	Slot		0540 17 9	25
9 mm	18 mm	18.5-17.5 mm	Slot		0540 18 9	25
9 mm	19 mm	19.5-18.5 mm	Slot		0540 19 9	50
9 mm	20 mm	20.5-19.5 mm	Slot		0540 20 9	50
9 mm	21 mm	20.5-21.5 mm	Slot		0540 21 9	100
9 mm	22 mm	22.5-21.5 mm	Slot		0540 22 9	25
9 mm	24 mm	23.5-24.5 mm	Slot		0540 24 9	100
12 mm	17 mm	17.5-16.5 mm	Slot/hexagon	8 mm	0540 17 12	25
12 mm	18 mm	18.5-17.5 mm	Slot/hexagon	8 mm	0540 18 12	25
12 mm	19 mm	19.5-18.5 mm	Slot/hexagon	8 mm	0540 19 12	25
15 mm	25 mm	25.5-24.5 mm	Slot/hexagon	10 mm	0540 25 15	25
20 mm	50 mm	49.5-50.5 mm	Slot/hexagon		0540 50 20	20

Hose bracket ABA

Slotted hexagon bolt, 7 mm

Art. no. 0539 15 24

P. Qty.: 50



One-ear clamp with insert ring

Low overall height for connections in the tightest of spaces

Low installation height, small clamping range

Precise assembly even in the narrowest spaces



Material	Stainless steel A2, 1.4307
Material of the insert ring	Stainless steel A2, 1.4307
Surface	Plain

Width of band	Min./max. grip range	Diameter (Ø)	Art. no.	P. Qty.
5.5 mm	5.2-6.2 mm	6.6 mm	0541 066	100
6.4 mm	5.6-6.5 mm	7 mm	0541 070	100
6.4 mm	6.3-7.5 mm	8 mm	0541 080	100
7.4 mm	7.0-8.5 mm	9 mm	0541 090	100
7.4 mm	8.0-9.5 mm	10 mm	0541 100	100
7.4 mm	9.1-10.8 mm	11.3 mm	0541 113	100
7.4 mm	9.8-11.8 mm	12.3 mm	0541 123	100
8.2 mm	11.1-13.1 mm	13.8 mm	0541 138	100
8.2 mm	11.8-13.8 mm	14.5 mm	0541 145	100
8.2 mm	12.8-14.8 mm	15.5 mm	0541 155	100
8.2 mm	13.2-15.8 mm	16.5 mm	0541 165	100
8.2 mm	14.6-16.8 mm	17.5 mm	0541 175	100
8.2 mm	16.5-18.8 mm	19.5 mm	0541 195	100
9.2 mm	18.0-20.3 mm	21 mm	0541 210	100

Continuously adjustable one-ear clamp

Low overall height for connections in the tightest of spaces

Low installation height, small clamping range

Precise assembly even in the narrowest spaces



Material	Stainless steel A2, 1.4307
Surface	Plain
Width of band	7 mm

Min./max. grip range	Art. no.	P. Qty.
9.8-12.3 mm	0541 007 123	10
13.2-15.7 mm	0541 007 157	10
17.8-21 mm	0541 007 210	10

Joint bolt clamp W1

For hoses with a high level of hardness or inserts made of metal or plastic

Extremely high tightening force

Secure connection, even for hard hoses

Rounded edges/hose bridge

Prevents injury and hose damage



Material of the clamp band	Steel
Surface of the clamp band (11)	Zinc plated
Material of the screw	Steel
Surface of the screw	Zinc plated

Width of band (A)	Min./max. grip range	Art. no.	P. Qty.
18 mm	19-21 mm	0537 118 020	20
18 mm	23-25 mm	0537 118 024	20
18 mm	25-27 mm	0537 118 026	20
18 mm	29-31 mm	0537 118 030	20
18 mm	31-34 mm	0537 118 033	20
18 mm	34-37 mm	0537 118 036	20
18 mm	40-43 mm	0537 118 042	18
20 mm	43-47 mm	0537 120 045	15
20 mm	47-51 mm	0537 120 049	15
20 mm	51-55 mm	0537 120 053	15
20 mm	55-59 mm	0537 120 057	15
20 mm	59-63 mm	0537 120 061	15
20 mm	63-68 mm	0537 120 066	15
25 mm	68-73 mm	0537 125 071	10
25 mm	73-79 mm	0537 125 076	10
25 mm	79-85 mm	0537 125 082	10
25 mm	85-91 mm	0537 125 088	8
25 mm	91-97 mm	0537 125 094	6
25 mm	97-104 mm	0537 125 101	6
25 mm	104-112 mm	0537 125 108	6
25 mm	112-121 mm	0537 125 117	6
25 mm	121-130 mm	0537 125 126	6
30 mm	140-150 mm	0537 130 145	10

Pipe and fastening clamp Multifix

The fastening clamp with rubber profile

Reinforced tabs

The support washers prevent the tabs from tearing under extreme mechanical stress

Rubber profile

- Vibration protection
- Protection against seepage
- Sound absorbing
- Good resistance to friction, alcohol, acids, and bases



Standards	DIN 3016
Material	Steel

Continuation **Pipe and fastening clamp Multifix**

Surface	Zinc plated
Material of the rubber profile	EPDM

Width (B)	Nominal diameter (D)	Flange hole (d1)	Distance centre of pipe to centre of hole (S)	Art. no.	P. Qty.
12 mm	6 mm	M5	11 mm	0542 6 12	50/100
12 mm	8 mm	M5	12 mm	0542 8 12	50/100
12 mm	10 mm	M5	13 mm	0542 10 12	50/100
12 mm	12 mm	M5	14 mm	0542 12 12	50/100
12 mm	15 mm	M5	15.5 mm	0542 15 12	50
15 mm	6 mm	M6	14.2 mm	0542 6 15	50/100
15 mm	8 mm	M6	15.2 mm	0542 8 15	50/100
15 mm	10 mm	M6	16.2 mm	0542 10 15	50/100
15 mm	12 mm	M6	17.2 mm	0542 12 15	50/100
15 mm	15 mm	M6	18.7 mm	0542 15 15	50
15 mm	18 mm	M6	20.2 mm	0542 18 15	50
15 mm	20 mm	M6	21.2 mm	0542 20 15	50
15 mm	22 mm	M6	22.2 mm	0542 22 15	50
15 mm	25 mm	M6	23.7 mm	0542 25 15	50
15 mm	30 mm	M6	26.2 mm	0542 30 15	50
15 mm	35 mm	M6	28.7 mm	0542 35 15	25
20 mm	10 mm	M8	19.5 mm	0542 10 20	50
20 mm	15 mm	M8	22 mm	0542 15 20	50
20 mm	20 mm	M8	24.5 mm	0542 20 20	50
20 mm	22 mm	M8	25.5 mm	0542 22 20	50
20 mm	25 mm	M8	27 mm	0542 25 20	25
20 mm	30 mm	M8	29.5 mm	0542 30 20	25
20 mm	35 mm	M8	32 mm	0542 35 20	25
20 mm	40 mm	M8	34.5 mm	0542 40 20	25
25 mm	20 mm	M10	27.5 mm	0542 20 25	10
25 mm	25 mm	M10	30 mm	0542 25 25	10
25 mm	38 mm	M10	36.5 mm	0542 38 25	10
25 mm	40 mm	M10	37.5 mm	0542 40 25	10
25 mm	48 mm	M10	41.5 mm	0542 48 25	10
25 mm	55 mm	M10	45 mm	0542 55 25	10

Endless clamping strap

Fully rounded edges

Material	Stainless steel A2, 1.4301
Length	30 m



Width	Material thickness	Art. no.	P. Qty.
9.5 mm	0.64 mm	0529 1 09	1
12.7 mm	0.75 mm	0529 1 12	1
16 mm	0.75 mm	0529 1 16	1
19 mm	0.75 mm	0529 1 19	1

Sign holder, depressed centre

Material	Stainless steel A2, 1.4301
Material thickness	2 mm
Design	Cranked
Max. tape width	19 mm



Included in delivery (Lieferumfang)	Art. no.	P. Qty.
1 screw M8x16 with U-washer	0529 3 01	10
2 M8x16 screw with U-washer	0529 3 02	10

Closing loop

Material	Stainless steel A2, 1.4301
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Width of band	Art. no.	P. Qty.
9.5 mm	0529 2 09	100
12.7 mm	0529 2 12	100
16 mm	0529 2 16	100
19 mm	0529 2 19	100

Tensioning and cutting tool

Drop-forged tool that can exert a tensile force of up to 10 kN on the tensioning strap.

Art. no. 0529 5

P. Qty.: 1





Blind rivet, flat head

Sleeve: Al-Mg aluminium 2.5. Mandrel: Galvanised steel, blue passivated (A2K)

- High-quality rivet connection
- Clean, secure closing
- Reliable, patented riveting mandrel locking mechanism
- Consistently high tensile strength and shearing resistance
- High-strength rivet connections; impact-resistant and impermeable to spray water
- No kinking of rivet body with small nominal clamping range

Material of the sleeve	Aluminium, AlMg 2.5
Material of the mandrel	Steel
Surface of the sleeve	Plain
Surface of the mandrel	Zinc plated

Nominal diameter x length (d1 x l1)	Min./max. grip range	Head diameter (d _k)	Head height (k ₁)	Shear-fracture load	Art. no.	P. Qty.
2.4 x 4 mm	0.5-2 mm	4.8 mm	0.9 mm	390 N	0936 24 4	1000
2.4 x 6 mm	2.0-4 mm	4.8 mm	0.9 mm	390 N	0936 24 6	1000/3000
2.4 x 8 mm	4.0-6 mm	4.8 mm	0.9 mm	390 N	0936 24 8	1000/2000
3 x 4 mm	0.5-1.5 mm	6.4 mm	1.1 mm	600 N	0936 3 4	500
3 x 6 mm	1.5-3.5 mm	6.4 mm	1.1 mm	600 N	0936 3 6	500/2000
3 x 8 mm	3.5-5.5 mm	6.4 mm	1.1 mm	600 N	0936 3 8	500/2000
3 x 10 mm	5.5-7 mm	6.4 mm	1.1 mm	600 N	0936 3 10	500
3 x 12 mm	7.0-9 mm	6.4 mm	1.1 mm	600 N	0936 3 12	500

Nominal diameter x length (d1 x l1)	Min./max. grip range	Head diameter (d _k)	Head height (k ₁)	Shear-fracture load	Art. no.	P. Qty.
3 x 16 mm	9.0-13 mm	6.4 mm	1.1 mm	600 N	0936 3 16	500
3 x 20 mm	13.0-17 mm	6.4 mm	1.1 mm	600 N	0936 3 20	500
3 x 25 mm	17.0-22 mm	6.4 mm	1.1 mm	600 N	0936 3 25	250
3.2 x 6 mm	0.5-3.5 mm	6.4 mm	1.1 mm	800 N	0936 32 6	500/2000
3.2 x 8 mm	3.5-5.5 mm	6.4 mm	1.1 mm	800 N	0936 32 8	500
3.2 x 10 mm	5.5-7.5 mm	6.4 mm	1.1 mm	800 N	0936 32 10	500/1000
4 x 6 mm	0.5-3 mm	8 mm	1.4 mm	1300 N	0936 4 6	500
4 x 8 mm	3.0-5 mm	8 mm	1.4 mm	1300 N	0936 4 8	500/1000
4 x 10 mm	5.0-6.5 mm	8 mm	1.4 mm	1300 N	0936 4 10	500/1500
4 x 12 mm	6.5-8.5 mm	8 mm	1.4 mm	1300 N	0936 4 12	500/1500
4 x 16 mm	8.5-12.5 mm	8 mm	1.4 mm	1300 N	0936 4 16	500/1000
4 x 20 mm	12.5-16.5 mm	8 mm	1.4 mm	1300 N	0936 4 20	500
4 x 25 mm	16.5-21.5 mm	8 mm	1.4 mm	1300 N	0936 4 25	500
4.8 x 8 mm	3.0-4.5 mm	9.6 mm	1.6 mm	1800 N	0936 48 8	500/1000
4.8 x 10 mm	4.5-6 mm	9.6 mm	1.6 mm	1800 N	0936 48 10	500
4.8 x 16 mm	6.0-12 mm	9.6 mm	1.6 mm	1800 N	0936 48 16	500
4.8 x 26 mm	17-22 mm	9.6 mm	1.6 mm	1800 N	0936 48 26	250/500
4.8 x 30 mm	21-25 mm	9.6 mm	1.6 mm	1800 N	0936 48 30	250
4.8 x 40 mm	30-35 mm	9.6 mm	1.6 mm	1800 N	0936 48 40	250
4.8 x 45 mm	35.0-40 mm	9.6 mm	1.6 mm	1800 N	0936 48 45	250
5 x 6 mm	1.0-3 mm	9.6 mm	1.6 mm	2100 N	0936 5 6	500
5 x 8 mm	3.0-4.5 mm	9.6 mm	1.6 mm	2100 N	0936 5 8	500
5 x 10 mm	4.5-6 mm	9.6 mm	1.6 mm	2100 N	0936 5 10	500/1000
5 x 12 mm	6.0-8 mm	9.6 mm	1.6 mm	2100 N	0936 5 12	500/1000
5 x 14 mm	8.0-10 mm	9.6 mm	1.6 mm	2100 N	0936 5 14	500
5 x 16 mm	8.0-12 mm	9.6 mm	1.6 mm	2100 N	0936 5 16	500
5 x 18 mm	12.0-14 mm	9.6 mm	1.6 mm	2100 N	0936 5 18	250/500
5 x 20 mm	12.0-16 mm	9.6 mm	1.6 mm	2100 N	0936 5 20	250/500
5 x 25 mm	16.0-21 mm	9.6 mm	1.6 mm	2100 N	0936 5 25	250
5 x 30 mm	21.0-25 mm	9.6 mm	1.6 mm	2100 N	0936 5 30	100
5 x 35 mm	25.0-30 mm	9.6 mm	1.6 mm	2100 N	0936 5 35	100
5 x 40 mm	30.0-35 mm	9.6 mm	1.6 mm	2100 N	0936 5 40	100
5 x 45 mm	35.0-40 mm	9.6 mm	1.6 mm	2100 N	0936 5 45	100
5 x 50 mm	40.0-45 mm	9.6 mm	1.6 mm	2100 N	0936 5 50	100
6 x 8 mm	1.5-4 mm	12 mm	1.9 mm	2800 N	0936 6 8	250/500
6 x 10 mm	4.0-6 mm	12 mm	1.9 mm	2800 N	0936 6 10	250
6 x 12 mm	6.0-8 mm	12 mm	1.9 mm	2800 N	0936 6 12	250
6 x 16 mm	8.0-11 mm	12 mm	1.9 mm	2800 N	0936 6 16	250/500
6 x 18 mm	11.0-13 mm	12 mm	1.9 mm	2800 N	0936 6 18	250
6 x 20 mm	11.0-15 mm	12 mm	1.9 mm	2800 N	0936 6 20	250/500
6 x 25 mm	15.0-20 mm	12 mm	1.9 mm	2800 N	0936 6 25	250

Plastic blind rivet

For reaffixing internal trims in vehicles without any problems when plastic threaded screws have been torn out.

Easy mounting

With plastic blind rivet pliers.

Corrosion-free

Does not conduct electricity

Painted surfaces are not damaged.

Material

Rivet sleeve made from PA, rivet bolt made from POM, black.



Colour	Black
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Drill hole diameter	Min./max. drill hole diameter	Min./max. attachment thickness	Sleeve diameter	Sleeve length	Art. no.	P. Qty.
	6.3-6.5 mm	4-10 mm	6.3 mm	25.2 mm	0500 500 13	25
	6.7-7 mm	2.5-5 mm	6.6 mm	17.3 mm	0500 500 14	25
4 mm		1.5-4.5 mm	3.9 mm	15.6 mm	0500 500 10	25
5 mm		1.5-4.5 mm	4.9 mm	15.8 mm	0500 500 11	25
5 mm		3-5 mm	4.9 mm	17.2 mm	0500 500 12	25
5 mm		6-10 mm	4.9 mm	22 mm	0500 500 15	25
6 mm		4-8.5 mm	5.9 mm	25 mm	0500 500 16	25

Plastic blind rivet Type 1

Rivet pin, rounded

- Easy assembly with a blind rivet tool
- Corrosion-free, protects against contact corrosion
- Non-conductive connection option
- Allows attachments to cavities



Drill hole diameter	6 mm
Min./max. attachment thickness	2.8-5 mm
Sleeve diameter	5.8 mm
Sleeve length	19 mm
Head diameter	20 mm
Head height	2.7 mm
Colour	Black
Corresponds to original spare part number	51717002953
Corresponds to original spare part number 2	51777171004

Art. no. 0501 105 124

P. Qty.: 25

Percussion rivet Type 2

Straightforward fitting and removal

Manual fitting also possible

High retention force and a secure fit in the component

Material	Combi-material
Colour	Black



Min./max. drill hole diameter	Min./max. attachment thickness	Head diameter	Head height	Length	Art. no.	P. Qty.
7-7 mm	2-2 mm	6.8 mm	20 mm	2.5 mm	0501 130 055	25
8-8.2 mm	1.5-3 mm	7.9 mm	20 mm	2.6 mm	0501 132 003	25
8-8 mm	3.7-5.2 mm	7.8 mm	18 mm	2.6 mm	0501 132 004	25
9.9-10.1 mm	3.5-6 mm	9.8 mm	21 mm	3.1 mm	0501 134 006	25
10-10.2 mm	4-5 mm	9.8 mm	20 mm	3.6 mm	0501 129 001	25
10-10 mm	4-5.5 mm	9.9 mm	18 mm	3.1 mm	0501 132 005	25

Percussion rivet Type S



Min./max. drill hole diameter	Min./max. attachment thickness	Head diameter	Head height	Length	Art. no.	P. Qty.
					0501 129 003	25
					0501 129 013	10
					0501 129 014	10
					0501 130 008	25
					0501 130 009	25
					0501 130 010	25
					0501 130 024	50
					0501 130 056	10
					0501 131 004	25
					0501 136 001	25
					0501 136 002	100
					0501 136 003	25
					0501 136 004	25
					0501 167 028	25
8.1-8.3 mm	3.5-13.7 mm	17 mm	2 mm	16 mm	0501 136 017	25

Expanding nut Type 1

Suitable for round holes

- One-sided assembly, hence nut locking function
- Cannot be twisted
- Corrosion resistant
- High retention force and secure seat in the component
- Flange can serve as a spacer
- No direct contact between sheet metal and screw
- Can be used again after removal



Colour	Neutral
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Suitable for screw	Suitable for screw diameter min./max.	Min./max. drill hole diameter	Min./max. attachment thickness	Min./max. length	Art. no.	P. Qty.
	3.5-3.5 mm		3.5-3.5 mm	6.9-6.9 mm	0500 910 1	25
	3.5-3.5 mm	6.9-6.9 mm	0.8-2.4 mm	6.6-6.8 mm	0501 101 631	100
	4.2-4.2 mm	7.2-7.2 mm	0.5-3 mm	6.4-6.8 mm	0501 121 123	100
	4.8-4.8 mm	8.2-16.2 mm	0.9-0.9 mm	10-10 mm	0501 102 008	100
	4.8-4.8 mm	9-9 mm	0.8-1.5 mm	8.6-8.8 mm	0500 775 8	25
	5-5 mm	7-7 mm	0.7-2.5 mm	6.8-6.9 mm	0500 134 54	50
M4		7-7 mm	0.8-2.3 mm	6.7-6.7 mm	0500 785 044	25

Screw rivet Type S

Open

- Forms rivet systems capable of adjustment that can be loosened again simply.
- The screw is knocked or turned into the rivet body for installation.
- A screwdriver is used to remove.



Min./max. drill hole diameter	Min./max. attachment thickness	Head diameter	Width	Height	Art. no.	P. Qty.
					0501 129 002	25
					0501 130 006	25
1.9-2.2 mm	0.9-1.8 mm		0 mm		0501 130 132	50
5.6-5.8 mm	1.9-5.8 mm	5.7 mm	14.9 mm	2.15 mm	0501 130 053	10
5.7-5.9 mm	2-6.1 mm	5.9 mm	15.1 mm	2.1 mm	0500 785 085	25
5.8-6 mm	2.2-5.9 mm	5.9 mm	17.7 mm	2.7 mm	0500 785 074	25
6-6.2 mm	2.2-5.7 mm	5.9 mm	13.9 mm	2.4 mm	0500 785 078	25
6.9-7.1 mm	2-6 mm	7 mm	19.9 mm	2.5 mm	0501 134 009	25
7.6-7.8 mm	3-6.6 mm	7.7 mm	19.7 mm	2.8 mm	0501 131 002	25
7.9-8.1 mm	2-5.1 mm	4.8 mm	20 mm	3 mm	0500 785 087	25
8.2-8.4 mm	2.8-8 mm	8 mm	19.7 mm	3.1 mm	0501 132 002	25
8.5-8.7 mm	5-8.5 mm	8.3 mm	25 mm	2.6 mm	0501 101 437	25
9.8-10 mm	2.7-13.4 mm	9.9 mm	19.8 mm	2.5 mm	0501 129 012	10

Pine tree clip Type 1

Coarsely graduated pine tree shape

Cost and time savings

Quick and simple fitting by pressing in

Secure seat in the component



Min./max. drill hole diameter	Min./max. attachment thickness	Head diameter	Head height	Length below head	Art. no.	P. Qty.
6-6.2 mm	3.5-11 mm	17 mm	3 mm	15 mm	0500 132 170	50
6.7-6.7 mm	0.7-9 mm	20 mm	2.2 mm	15.8 mm	0501 167 003	50
7-7.2 mm	7.5-22.5 mm	30 mm	4 mm	30 mm	0500 132 300	50
7.2-7.6 mm	2.5-5 mm	28 mm	2 mm	16 mm	0500 402 9	100
7.9-8.1 mm	3-7 mm	20 mm	2.75 mm	12.5 mm	0501 104 105	50
8-8.5 mm	3-14 mm	20 mm	2.75 mm	20 mm	0501 105 601	25
10.2-10.7 mm	0.6-5 mm	35 mm	4 mm	21.3 mm	0501 167 002	25

Cover plug Type 4

Pine tree shape, interrupted

Cost and time savings

Quick and simple fitting by pressing in

Secure seat in the component

Type of vehicle	Universal
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Drill hole diameter	Min./max. drill hole diameter	Min./max. attachment thickness	Head diameter	Head height	Art. no.	P. Qty.
	6.7-6.7 mm		20 mm	2.25 mm	0500 680 3	50
	6.7-6.7 mm	0.8-5 mm	20 mm	2.2 mm	0501 167 007	50
	10.4-11.4 mm	3-10.2 mm	16 mm	2 mm	0500 680 7	25
6 mm		2-7.5 mm	20 mm	2.25 mm	0501 121 109	50
8.2 mm		0.7-11 mm	16 mm	1.5 mm	0501 167 006	25

Clamping ring Type 2

Concave (curves inwards) with a marked frame channel

- Quick and easy manual assembly
- Elegant finish

Min./max. drill hole diameter	5-5 mm
Material thickness	0.4 mm
Material	Spring steel CK 67



Continuation **Clamping ring Type 2**

Diameter	Height	Surface	Corresponds to original spare part number	Corresponds to original spare part number 2	Art. no.	P. Qty.
26.5 mm	5.3 mm	Flake zinc silver	N90796501		0501 101 624	100
30 mm	3 mm	Flake zinc silver	N90335004 6715468	N90335006	0501 101 649	100
30.2 mm	6 mm	Flake zinc silver	N90796502		0501 101 411	50

Interior lining clip Type S

Type of vehicle	Passenger car
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Material	Colour	Min./max. drill hole diameter	Corresponds to original spare part number	Corresponds to original spare part number 2	Art. no.	P. Qty.
	Neutral		6822LL, MU000504 0940910312000 9046710161	0940910312	0501 130 004	25
	Neutral		0155309131		0501 132 001	25
	Neutral		992740825 6777112010		0500 770 6	25
	Neutral		38993634810		0500 785 040	25
	Orange		91560S6A003		0501 129 005	50
	Orange		7539748030		0501 130 030	50
Polyoxymethylene	Black		3B0868243		0501 101 219	25
Polyoxymethylene	Black	10-10.2 mm	8E0868243		0501 101 663	100
Polyoxymethylene	Neutral		8E9867299 6991S6 7701056846 30648141		0501 121 130	50
Polyoxymethylene/ Polyamide	Black		6Q0868243		0501 101 662	100

Trim clip



Corresponds to original spare part number	Corresponds to original spare part number 2	Art. no.	P. Qty.
76882JG10A		0501 167 067	25
174854	90481595	0501 103 085	25
856548		0501 121 146	25
113853585C		0500 123 301	50
191853733A	6U0853733	0501 101 003	50
500326896 93160023 7703077422	4409693	0501 103 091	100
51131960054		0501 105 006	50

Turn-lock fastener



Corresponds to original spare part number	Corresponds to original spare part number 2	Art. no.	P. Qty.
4A0805121A		0501 101 301	25
4A0805121C		0501 101 300	25
4F0805121		0501 101 665	25
8D0805121		0501 101 340	25
8D0805121B		0501 101 339	25
8E0805121A		0501 101 321	25
8K0805121		0501 101 441	25
703016	9632676980	0501 121 142	50

Door seal clip Type S

Foot shape similar to pine tree clip, split twice, not connected with the head at the side

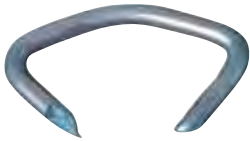
- The clip flange is attached to the seal beforehand.
- The clip is simply pressed in to attach.



Min./max. drill hole diameter	Min./max. attachment thickness	Length of head	Width of head	Length of underhead thread	Art. no.	P. Qty.
4.4-4.6 mm	0.8-0.8 mm	12.7 mm	5 mm	7.5 mm	0501 101 446	50
5.05-5.25 mm	2.8-3.2 mm	17 mm	8.4 mm	9 mm	0501 121 016	100
5.3-5.5 mm	2.1-3.8 mm	12.9 mm	5 mm	11.4 mm	0501 133 009	10

Upholstery clip

Drill hole diameter	2 mm
Length	20.2 mm
Width	11.6 mm
Height	3 mm
Corresponds to original spare part number	100490
Corresponds to original spare part number 2	6616858



Art. no. 0500 500 08

P. Qty.: 500

Sealing ring



Internal diameter (d1)	Outer diameter (d2)	Thickness (b)	Material	Surface	Art. no.	P. Qty.
10.5 mm	20.5 mm	2 mm	Copper		0464 102 001	50
11 mm	17 mm	3 mm	Copper		0464 11 17	50
11 mm	21 mm	2.5 mm	Plastic		0464 103 002	50
12 mm	17 mm	1.5 mm	Aluminium		0464 12 17	50
12 mm	21 mm	1.7 mm	Aluminium		0464 012 244	50
12 mm	24 mm	2 mm	Soft material		0464 012 242	50
12.8 mm	22.5 mm	3 mm	Rubber		0464 128 225	50/100
13 mm	24 mm	1.6 mm	Brass	Zinc plated yellow	0464 13 24	50
14 mm	19 mm	2.2 mm	Zinc		0464 133 001	50
14 mm	21 mm	2 mm	Copper		0464 121 001	50
14 mm	22 mm	2 mm	Aluminium		0464 114 22	50
14 mm	22 mm	2 mm	Plastic		0464 14 22	50/100
15 mm			Copper		0464 15 22	50
15 mm	24 mm	2 mm	Copper		0464 125 001	50
16 mm	21 mm	3 mm	Copper		0464 132 001	50
16.6 mm	24 mm	2.6 mm	Metal/rubber		0464 126 001	50
18 mm					0464 018 282	50
18 mm	22 mm	2 mm	Rubber		0464 022 18	100
18.5 mm	26 mm	2.5 mm	Metal/rubber		0464 103 003	50
19 mm	26 mm	2 mm	Copper		0464 141 001	50
20 mm	26 mm	2 mm	Steel		0464 134 001	50

Oil drain plug



Suitable for vehicle manufacturer	Corresponds to original spare part number	Length	Material	Art. no.	P. Qty.
BMW	BMW: 11131273093	18 mm	Steel	0243 120 150	10
BMW	BMW Mini: 11137513050	20 mm	Steel	0243 105 001	10
Chrysler, Mercedes-Benz	Chrysler: 05073945AA, Mercedes: 6019970230	24 mm	Steel	0243 104 001	10
Citroen, Ford, Mazda, Peugeot, Renault	Citroen: 031129 Ford: 1146063 Mazda: Y40110404 Peugeot: 311.29 Renault: 7703075033	13 mm	Steel	0243 102 001	10
Ford, Jaguar	Ford: 1013938 Jaguar: JHZ100062	23 mm	Steel	0243 140 15	10
Ford, Land Rover, Saab	Ford: 1013938 Ford: 1454117 Ford: 6732529 Land Rover: LSF1000402 Saab: 109132929	16 mm	Steel	0243 14 15	10
Hyundai, Kia, Mitsubishi, Suzuki	Chrysler: MD050316 Hyundai: 21512-21000 KIA: 251221010 Mitsubishi: MD050316 Suzuki: 09247-14027-000	13 mm	Steel	0243 133 001	10
Mitsubishi, Renault	Mitsubishi: M467106 Renault: 7703075210 Renault: 7903075033	13 mm	Steel	0243 126 001	10
Opel/Vauxhall	Opel: 652475	12 mm	Steel	0243 103 001	10
Opel/Vauxhall	Opel: 652477	10.5 mm	Steel	0243 141 15	10
Opel/Vauxhall	Opel: 652950/93183669	21 mm	Steel	0243 103 003	10
Porsche	Porsche: 90021900930	12 mm	Aluminium	0243 107 002	10
Volkswagen	N90288901	1.5 mm	Steel	0240 14 151	10/25
Volkswagen	VW: N90813201	22 mm	Steel	0243 140 150	10

Oil drain plug Plastic

Vehicle-specific oil drain plug made of sturdy plastic

Material	Plastic
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Continuation Oil drain plug Plastic

Suitable for vehicle manufacturer	Corresponds to original spare part number	Head diameter	Length	Art. no.	P. Qty.
BMW	BMW: 11137605018	36 mm	16 mm	0243 101 002	10
Ford	Ford: 1871598	38 mm	24 mm	0243 101 005	10
Ford	Ford: 2072363 neu / 1830727 alt	38 mm	47 mm	0243 101 003	10
Mercedes-Benz	MERCEDES: A0029902017	28 mm	38 mm	0243 101 008	10
Volkswagen	VW: 06L,103,801	23 mm	20 mm	0243 101 001	10

Hexagonal galvanised steel spacer sleeve

Material	Steel
Surface	Zinc plated
Property class	4



Thread type x nominal diameter	Length (l)	Width across flats (s)	Nominal diameter	Art. no.	P. Qty.
M6	20 mm	10 mm	6 mm	0974 6 20	100
M6	25 mm	10 mm	6 mm	0974 6 25	50
M6	30 mm	10 mm	6 mm	0974 6 30	50
M6	50 mm	10 mm	6 mm	0974 6 50	500
M8	20 mm	11 mm	8 mm	0974 8 20	100
M8	25 mm	11 mm	8 mm	0974 8 25	100
M8	30 mm	11 mm	8 mm	0974 8 30	50
M10	20 mm	13 mm	10 mm	0974 10 20	50
M10	25 mm	13 mm	10 mm	0974 10 25	50
M10	30 mm	13 mm	10 mm	0974 10 30	50
M10	40 mm	13 mm	10 mm	0974 10 40	50
M12	40 mm	17 mm	12 mm	0974 12 40	50
M12	50 mm	17 mm	12 mm	0974 12 50	50
M16	40 mm	24 mm	16 mm	0974 16 40	10
M20	50 mm	30 mm	20 mm	0974 20 50	10



Hex A2 stainless steel spacer sleeve

Material	Stainless steel A2
Surface	Plain



Thread type x nominal diameter	Length (l)	Width across flats (s)	Nominal diameter	Art. no.	P. Qty.
M6	20 mm	10 mm	6 mm	0865 520 620	100
M6	30 mm	10 mm	6 mm	0865 520 630	100
M8	20 mm	13 mm	8 mm	0865 520 820	100
M8	30 mm	13 mm	8 mm	0865 520 830	100
M8	40 mm	13 mm	8 mm	0865 520 840	50
M10	30 mm	17 mm	10 mm	0865 521 030	100
M10	40 mm	17 mm	10 mm	0865 521 040	50
M12	40 mm	19 mm	12 mm	0865 521 240	50
M16	50 mm	24 mm	16 mm	0865 521 650	25

Round galvanised steel spacer sleeve

Material	Steel
Surface	Zinc plated
Property class	4



Thread type x nominal diameter	Outer diameter (d)	Length (l)	Nominal diameter	Art. no.	P. Qty.
M8	11 mm	20 mm	8 mm	0974 08 20	50
M8	11 mm	25 mm	8 mm	0974 08 25	50
M8	11 mm	30 mm	8 mm	0974 08 30	50
M10	13 mm	20 mm	10 mm	0974 010 20	50
M10	13 mm	30 mm	10 mm	0974 010 30	50
M10	13 mm	40 mm	10 mm	0974 010 40	50
M12	15 mm	40 mm	12 mm	0974 012 40	50



Round A2 stainless steel spacer sleeve

Material	Stainless steel A2
Surface	Plain
Property class	50
Thread format	Standard metric thread



Thread type x nominal diameter	Outer diameter (d)	Length (l)	Nominal diameter	Art. no.	P. Qty.
M6	10 mm	20 mm	6 mm	0865 500 620	100
M6	10 mm	30 mm	6 mm	0865 500 630	100
M8	13 mm	20 mm	8 mm	0865 500 820	100
M8	13 mm	30 mm	8 mm	0865 500 830	100
M8	13 mm	40 mm	8 mm	0865 500 840	50
M10	17 mm	30 mm	10 mm	0865 501 030	100
M10	17 mm	40 mm	10 mm	0865 501 040	50
M12	19 mm	40 mm	12 mm	0865 501 240	50
M16	24 mm	50 mm	16 mm	0865 501 650	25

Exhaust slotted nut, normal wrench size

DIN 14440 heavily copper-plated steel

Material	Steel
Property class	6
Surface	Copper plated
Design	Normal wrench size



Thread type x nominal diameter (D)	Collar diameter (d ₁)	Height (h ₁)	Width across flats (s ₁)	Art. no.	P. Qty.
M8	12.5 mm	8.5 mm	13 mm	0365 2	100
M10	16.5 mm	10.5 mm	17 mm	0365 3	100
M12	18.5 mm	12.5 mm	19 mm	0365 4	100

Exhaust slotted nut, reduced wrench size

DIN 14441 heavily copper-plated steel

Material	Steel
Property class	6
Surface	Copper plated
Design	Reduced wrench size



Thread type x nominal diameter (D)	Collar diameter (d ₁)	Height (h ₁)	Width across flats (s ₁)	Corresponds to original spare part number	Art. no.	P. Qty.
M6	8.5 mm	7 mm	9 mm	11621304755	0366 1	100
M8	11.5 mm	8.5 mm	12 mm		0366 8	100
M8	11.5 mm	8.5 mm	12 mm	A0009903250	0366 2	100
M10	13.5 mm	10.5 mm	14 mm		0366 7	100
M10	13.5 mm	10.5 mm	14 mm	A0009903150	0366 3	100
M12	16.5 mm	12.5 mm	17 mm		0366 4	100

Exhaust nut with flange

Steel 6, copper-plated

Material	Steel
Property class	6
Surface	Copper plated



Thread type x nominal diameter (D)	Collar diameter (d ₁)	Height (h ₁)	Width across flats (s ₁)	Design	Art. no.	P. Qty.
M8	17 mm	8 mm	13 mm	With flange, Self-locking	0365 61	100
M8	17 mm	8.6 mm	12 mm	With flange, Self-locking	0365 8	50
M8	17 mm	10 mm	13 mm	With flange	0365 6	100
M10	21 mm	10 mm	15 mm	With flange, Self-locking	0365 65	100

Wire cable – C2C

Wire cable on lightweight plastic reels. Always the correct length in any installation situation.

- Cross-section 7 x 7
- Fast, tool-free installation using the wire cable holder



Material	Steel
Surface	Zinc plated

Permissible load	Length (L ₀)	Product weight (per item)	Wire cable diameter	Art. no.	P. Qty.
350 N	50 m	9.54 g	1.5 mm	5255 000 510	50
350 N	150 m	9.66 g	1.5 mm	5255 000 512	150
700 N	50 m	25.76 g	2.5 mm	5255 000 520	50
700 N	150 m	25.7 g	2.5 mm	5255 000 522	150
1150 N	100 m	37 g	3 mm	5255 000 525	100



Wire cable with 90° eyelet ending

For simplified installation and calibration. No preparation necessary.

- Cross-section 7 x 7, wire cable diameter 2 mm
- Increased vibration protection in comparison to threaded rod
- Can be installed at an angle without mounting rails



Length of wire cable ends (L)	38 mm
Width (B)	12 mm
Height (H)	25 mm
Material thickness (t)	3 mm
Eyelet diameter (ØD ₁)	7.5 mm
Permissible load	550 N
Material	Steel
Wire cable diameter	2 mm
Surface	Zinc plated

Continuation **Wire cable with 90° eyelet ending**

Wire cable length	Product weight (per item)	Art. no.	P. Qty.
1 m	33 g	5255 000 631	10
3 m	66.2 g	5255 000 633	10
5 m	95 g	5255 000 635	10



Wire cable with ending and trapezoidal plate hook

For simplified installation and calibration. No preparation necessary.

- Cross-section 7 x 7, wire cable diameter 2 mm
- Increased vibration protection in comparison to threaded rod
- Can be installed at an angle without mounting rails



Length of wire cable ends (L)	60 mm
Hook diameter 2 (ØD)	5 mm
Height (H)	24 mm
Permissible load	550 N
Material	Steel
Wire cable diameter	2 mm
Surface	Zinc plated

Wire cable length	Product weight (per item)	Art. no.	P. Qty.
1 m	31.9 g	5255 000 601	10
3 m	64.2 g	5255 000 603	10
5 m	98.9 g	5255 000 605	10



Wire cable ending with male thread M8

For simplified installation and calibration. No preparation necessary.

- Cross-section 7 x 7, wire cable diameter 2 mm
- Increased vibration protection in comparison to threaded rod
- Can be installed at an angle without mounting rails



Length of wire cable ends (L)	70 mm
Permissible load	550 N
Material	Steel
Length (L _G)	45 mm
Connection thread (AG)	M8

Wire cable diameter	2 mm
Surface	Zinc plated

Wire cable length	Product weight (per item)	Art. no.	P. Qty.
1 m	39.8 g	5255 000 611	10
3 m	71.5 g	5255 000 613	10
5 m	105.2 g	5255 000 615	10



Wire cable with ending and hook

For simplified installation and calibration. No preparation necessary.

- Cross-section 7 x 7, wire cable diameter 2 mm
- Increased vibration protection in comparison to threaded rod
- Can be installed at an angle without mounting rails



Length of wire cable ends (L)	75 mm
Hook diameter 2 (ØD)	6.3 mm
Hook diameter (ØD _h)	8 mm
Permissible load	550 N
Material	Steel
Wire cable diameter	2 mm
Surface	Zinc plated

Wire cable length	Product weight (per item)	Art. no.	P. Qty.
1 m	46.8 g	5255 000 621	10
3 m	77.5 g	5255 000 623	10
5 m	112.3 g	5255 000 625	10



Bracket, double-tabbed

For empty pipes

Elongated hole length (LL)	4.7 mm
Elongated hole width (LB)	6 mm
Material	Steel
Surface	Sendzimir galvanized



Continuation **Bracket, double-tabbed**

Suitable for pipe external diameter (ØD)	Hole distance (LA)	Width of band (B)	Thickness of tape (t)	Length (L)	Art. no.	P. Qty.
16 mm	30 mm	12 mm	1 mm	44 mm	0592 902 001	100
20 mm	35 mm	12 mm	1 mm	50 mm	0592 902 002	100
25 mm	40 mm	12 mm	1 mm	55 mm	0592 902 003	100
32 mm	50 mm	14 mm	1.5 mm	64 mm	0592 902 004	100
40 mm	59 mm	14 mm	1.5 mm	73 mm	0592 902 005	50

Roofing nail

Galvanised steel, blue passivated (A2K)

Nominal diameter (d _n)	2.5 mm
Length (l _n)	25 mm
Head diameter (d _h)	9 mm
Material	Steel
Surface	Zinc plated
Weight of content	2.5 kg



Art. no. 0478 925 425

P. Qty.: 1

Double-headed nail

Steel, plain

Material	Steel
Surface	Plain
Weight of content	5 kg



Nominal diameter (d _n)	Length (l _n)	Art. no.	P. Qty.
3.1 mm	65 mm	0478 831 65	1
3.4 mm	80 mm	0478 834 80	1

Wire nail

DIN 1151, bare steel

Material	Steel
Surface	Plain



Nominal diameter (d _n)	Length (l _n)	Weight of content	Art. no.	P. Qty.
1.2 mm	20 mm	1 kg	0478 512 20	1
1.4 mm	25 mm	1 kg	0478 514 25	1
1.6 mm	30 mm	1 kg	0478 516 30	1
1.8 mm	35 mm	2.5 kg	0478 518 35	1
2 mm	40 mm	2.5 kg	0478 520 40	1
2.2 mm	50 mm	2.5 kg	0478 522 50	1

Nominal diameter (d ₁)	Length (l ₁)	Weight of content	Art. no.	P. Qty.
2.5 mm	55 mm	2.5 kg	0478 525 55	1
2.5 mm	60 mm	2.5 kg	0478 525 60	1
2.8 mm	65 mm	2.5 kg	0478 528 65	1
3.1 mm	65 mm	2.5 kg	0478 531 65	1
3.1 mm	70 mm	2.5 kg	0478 531 70	1
3.1 mm	80 mm	5 kg	0478 531 80	1
3.4 mm	80 mm	5 kg	0478 534 80	1
3.4 mm	90 mm	5 kg	0478 534 90	1
3.8 mm	100 mm	5 kg	0478 538 100	1
4.2 mm	100 mm	5 kg	0478 542 100	1
4.2 mm	120 mm	5 kg	0478 542 120	1
4.6 mm	130 mm	5 kg	0478 546 130	1
5.5 mm	145 mm	5 kg	0478 555 145	1
5.5 mm	160 mm	5 kg	0478 555 160	1
6 mm	180 mm	5 kg	0478 560 180	1
7 mm	210 mm	5 kg	0478 570 210	1
7.6 mm	230 mm	5 kg	0478 570 230	1
8.8 mm	310 mm	5 kg	0478 580 305	1

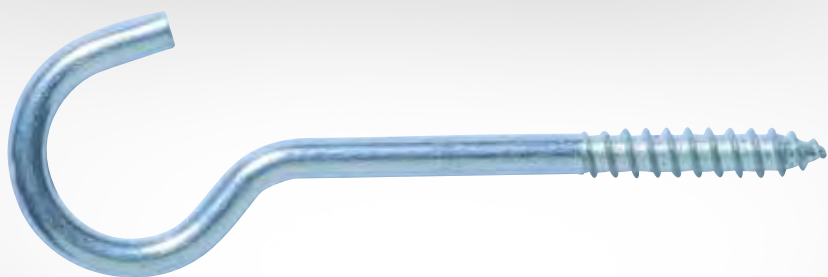
Wire nail

DIN 1151 steel zinc-plated (ZN)

Material	Steel
Surface	Zinc plated



Nominal diameter (d ₁)	Length (l ₁)	Weight of content	Art. no.	P. Qty.
2.5 mm	55 mm	2.5 kg	0478 625 55	1
2.8 mm	65 mm	2.5 kg	0478 628 65	1
3.1 mm	65 mm	2.5 kg	0478 631 65	1
3.1 mm	80 mm	5 kg	0478 631 80	1
3.8 mm	100 mm	5 kg	0478 638 100	1
4.2 mm	120 mm	5 kg	0478 642 120	1



Screw hook, bent

With wood screw thread, zinc plated steel, blue passivated (A2K)

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes

Nominal diameter (d ₁)	Length (l ₁)	Internal diameter of hook (d ₂)	Thread length (thread for woodwork) (l ₂)	Shaft diameter	Art. no.	P. Qty.
2.3 mm	15 mm	4 mm	5 mm	1.8 mm	0234 740 15	200
2.8 mm	25 mm	8 mm	8 mm	2.3 mm	0234 740 25	200
5 mm	50 mm	16 mm	20 mm	4 mm	0234 740 50	100
5 mm	60 mm	16 mm	20 mm	4 mm	0234 740 60	100
5 mm	70 mm	16 mm	25 mm	4 mm	0234 740 70	100
5 mm	80 mm	16 mm	25 mm	4 mm	0234 740 80	100
5 mm	100 mm	16 mm	25 mm	4 mm	0234 744 100	100
5.5 mm	120 mm	16 mm	25 mm	4.4 mm	0234 744 120	100
6 mm	100 mm	25 mm	30 mm	4.7 mm	0234 740 100	100

Screw hook with slot

With slot. Steel, blue zinc-plated

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Drive type	Slot



Nominal diameter (d ₁)	Length (l ₁)	Thread length (thread for woodwork) (l _g)	Anchor diameter	Art. no.	P. Qty.
4.4 mm	30 mm	12 mm	6 mm	0276 144 30	50
4.4 mm	40 mm	20 mm	6 mm	0276 144 40	50
4.4 mm	50 mm	22 mm	6 mm	0276 144 50	100
5.2 mm	50 mm	26 mm	8 mm	0276 152 50	50
5.2 mm	60 mm	25 mm	8 mm	0276 152 60	100
6 mm	65 mm	30 mm	8 mm	0276 16 65	50
6 mm	80 mm	40 mm	8 mm	0276 16 80	50
6 mm	100 mm	40 mm	8 mm	0276 16 100	50
6.8 mm	100 mm	38 mm	10 mm	0276 168 100	100
6.8 mm	150 mm	48 mm	10 mm	0276 168 150	50
7 mm	125 mm	50 mm	10 mm	0276 17 125	50

Screw hook with collar

With collar. Steel, blue zinc-plated

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Design	With collar



Nominal diameter (d ₁)	Length (l ₁)	Internal diameter of hook (d ₂)	Thread length (thread for woodwork) (l _g)	Height	Art. no.	P. Qty.
3.5 mm	68 mm	13 mm	42 mm	13 mm	5067 002 200	100
6 mm	95 mm	14 mm	66 mm	14 mm	5067 002 201	100

Screw hook without collar

Without collar. Steel, blue zinc-plated

Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes



Nominal diameter (d ₁)	Length (l ₁)	Internal diameter of hook (d ₂)	Thread length (metric thread) (l ₂)	Shaft diameter	Art. no.	P. Qty.
4 mm	40 mm	12 mm	20 mm	3.5 mm	0234 74 40	100
4 mm	50 mm	16 mm	25 mm	3.5 mm	0234 74 50	100
5 mm	50 mm	16 mm	23 mm	4.4 mm	0234 75 50	100

Continuation **Screw hook without collar**

Nominal diameter (d ₁)	Length (l ₁)	Internal diameter of hook (d ₂)	Thread length (metric thread) (l ₂)	Shaft diameter	Art. no.	P. Qty.
5 mm	60 mm	16 mm	30 mm	4.4 mm	0234 75 60	100
6 mm	50 mm	18 mm	20 mm	5.2 mm	0234 76 50	100
6 mm	60 mm	18 mm	30 mm	5.2 mm	0234 76 60	100
8 mm	70 mm	22 mm	32 mm	7 mm	0234 78 70	100

Eyelet screw

Eye thickness (s ₁)	4.5 mm
Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes



Nominal diameter (d ₁)	Internal diameter of eye (d ₂)	Outer diameter of eye (d ₃)	Length (l ₁)	Thread length	Art. no.	P. Qty.
8 mm	11 mm	21 mm	80 mm	52 mm	0234 088 0	100
10 mm	14 mm	27 mm	97 mm	60 mm	0234 010 97	50
12 mm	17 mm	33 mm	106 mm	67 mm	0234 012 106	50

Transportation anchor

With chain link and stop on the cross bar. An expert opinion is available for the transport anchor system with the ASSY 4 Combi T transport anchor bolt or ASSY 3.0 combination screw.

The ASSY transport anchor enables all types of wooden components to be lifted safely and easily

Max. load capacity	1.3 t
Surface	Zinc plated
Length of stirrup piece (c)	165 mm
Internal width (f)	40 mm



Art. no. 0184 000 13

P. Qty.: 2

Please consider the legal instruction at the beginning of this chapter.

Please consider the legal instruction at the beginning of this chapter.

Complies with the machinery directive (89/392/EEC) in version 93/44/EEC.

Maintenance:

- The transportation anchor must be inspected by an expert/safety representative of the company using the product at least once a year. In addition to damage of any kind, the degree of wear must also be determined in particular.
- Modifications and repairs, in particular those involving welding elements to the transportation anchor, are not permitted!
- For safety reasons, the screws must only be used once.

Stud with small head

DIN 1434, galvanised steel, blue passivated (A2K)

Standards	DIN 1434
Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Form	Form B mit Splintloch

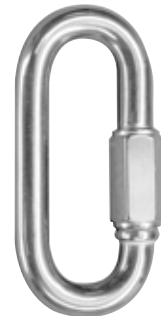


Nominal diameter (d ₁)	Length (l ₁)	Head diameter (d _k)	Head height (k ₁)	Distance from bolt end to centre of hole (l _e)	Art. no.	P. Qty.
5 mm	18 mm	8 mm	1.5 mm	2 mm	0260 005	10
6 mm	18 mm	9 mm	1.5 mm	2.5 mm	0260 006	10/1000
6 mm	28 mm	9 mm	1.5 mm	2.5 mm	0260 006 1	100
6 mm	35 mm	9 mm	1.5 mm	2.5 mm	0260 006 2	300
8 mm	22 mm	12 mm	2 mm	3 mm	0260 008	10/300
10 mm	28 mm	14 mm	2 mm	4 mm	0260 001 0	10/100
10 mm	35 mm	14 mm	2 mm	4 mm	0260 001 01	10
10 mm	40 mm	14 mm	2 mm	4 mm	0260 001 02	10
10 mm	45 mm	14 mm	2 mm	4 mm	0260 001 03	10
10 mm	50 mm	14 mm	2 mm	4 mm	0260 001 04	10
10 mm	70 mm	14 mm	2 mm	4 mm	0260 001 09	50
10 mm	120 mm	14 mm	2 mm	4 mm	0260 001 15	200
10 mm	150 mm	14 mm	2 mm	4 mm	0260 001 17	150
12 mm	35 mm	17 mm	3 mm	5 mm	0260 001 2	10/150
12 mm	40 mm	17 mm	3 mm	5 mm	0260 001 21	10
12 mm	45 mm	17 mm	3 mm	5 mm	0260 001 22	10
12 mm	50 mm	17 mm	3 mm	5 mm	0260 001 23	10
14 mm	40 mm	19 mm	3 mm	5 mm	0260 001 4	10/50
14 mm	45 mm	19 mm	3 mm	5 mm	0260 001 42	10
14 mm	50 mm	19 mm	3 mm	5 mm	0260 001 43	10
16 mm	45 mm	21 mm	3 mm	5 mm	0260 001 6	10

Quick-action closure

A4 stainless steel according to WN 5176 017

Material	Stainless steel A4
Surface	Plain
RoHS-compliant	Yes



Continuation **Quick-action closure**

Length of link (internal) (l ₁)	Width of link (internal) (b ₁)	Thickness (d ₁)	Width of mouth (b ₃)	Permissible load	Art. no.	P. Qty.
45 mm	14 mm	6 mm	7.5 mm	2 kN	5176 017 006	20
58 mm	17 mm	8 mm	10 mm	3 kN	5176 017 008	10
69 mm	21 mm	10 mm	12 mm	5 kN	5176 017 010	10
81 mm	24 mm	12 mm	14.5 mm	6 kN	5176 017 012	5

These chains have not been developed or manufactured for lifting purposes as part of lifting gear or load-bearing equipment.

Therefore, they are not permitted for use as lifting gear, slings or load-bearing equipment, particularly within the scope of application defined by Machinery Directive 2006/42/EC.

Shackle, straight, with hexagon socket

With hexagon socket, A4 stainless steel

Material	Stainless steel A4
Surface	Plain
RoHS-compliant	Yes



Shackle diameter (d ₁)	Shackle-bolt diameter (d ₂)	Shackle internal width (b ₁)	Shackle external width (b ₂)	Internal shackle height (h ₁)	Art. no.	P. Qty.
6 mm	6 mm	12 mm	24 mm	21 mm	0526 000 306	10
8 mm	8 mm	16 mm	32 mm	28 mm	0526 000 308	10
10 mm	10 mm	20 mm	40 mm	35 mm	0526 000 310	5
12 mm	12 mm	24 mm	48 mm	42 mm	0526 000 312	5

These shackles have not been designed and manufactured for lifting applications as part of lifting equipment or load-bearing equipment. Therefore, they are not permitted for use as lifting gear, slings or load-bearing equipment, particularly within the scope of application defined by Machinery Directive 2006/42/EC.

Turnbuckle with flat leaf bolts and lock nut

DIN 1480 (open body), steel S235JR, hot-dip galvanized

Standards	DIN 1480
Form	Open
Material	Steel
Surface	Hot dip galvanized
RoHS-compliant	Yes



Thread type x nominal diameter	Eye diameter	Turnbuck- le-sleeve length	Turnbuck- le-sleeve width (internal)	Turnbuck- le-sleeve diameter	Art. no.	P. Qty.
M12	12.5 mm	125 mm	16 mm	21 mm	0521 000 912	1
M16	16.5 mm	170 mm	20 mm	27 mm	0521 000 917	1
M20	20.5 mm	200 mm	24 mm	34 mm	0521 000 921	1
M24	22 mm	255 mm	28 mm	39 mm	0521 000 924	1



Sealing lid

DIN 443, plain steel, shape B

Standards	DIN 443
Form	B
Material	Steel
Surface	Plain
RoHS-compliant	Yes



Outer diameter (d ₁)	Height (h ₁)	Thickness (s ₁)	Art. no.	P. Qty.
8 mm	3 mm	0.75 mm	0476 78	100
10 mm	3 mm	0.75 mm	0476 710	500
12 mm	4 mm	1 mm	0476 712	100
14 mm	5 mm	1 mm	0476 714	100
16 mm	5 mm	1 mm	0476 716	100
18 mm	6 mm	1 mm	0476 718	100
20 mm	6 mm	1 mm	0476 720	200
22 mm	7 mm	1.6 mm	0476 722	200
25 mm	8 mm	1.6 mm	0476 725	100
30 mm	9 mm	1.6 mm	0476 730	200
34 mm	10 mm	1.6 mm	0476 734	50
38 mm	12 mm	1.6 mm	0476 738	50
40 mm	12 mm	1.6 mm	0476 740	50
42 mm	13 mm	1.6 mm	0476 742	50
48 mm	15 mm	1.6 mm	0476 748	25
56 mm	17 mm	2 mm	0476 756	10
63 mm	19 mm	2 mm	0476 763	10

Hollow section fastener BoxBolt®

A4 stainless steel, with CE marking

The mechanical material properties of the screws correspond to strength class 70 in accordance with DIN EN ISO 3506-1

Material	Stainless steel A4
Surface	Plain
RoHS-compliant	Yes



Continuation **Hollow section fastener BoxBolt®**

Thread type x nominal diameter	Screw length (l)	Width across flats (S)	Width across flats, sleeve (S _{HÜ})	Sleeve dia- meter (d _{HÜ})	Art. no.	P. Qty.
M6	45 mm	10 mm	18 mm	10.5 mm	0487 906 11	1/100
M8	50 mm	13 mm	22 mm	13.5 mm	0487 908 11	1/50
M10	50 mm	16 mm	24 mm	17.5 mm	0487 910 11	1/20
M12	55 mm	18 mm	26 mm	19.5 mm	0487 912 11	1/20
M16	75 mm	24 mm	36 mm	25.5 mm	0487 916 11	1/10
M20	100 mm	30 mm	46 mm	32.5 mm	0487 920 11	1/5

Please consider the legal instruction at the beginning of this chapter.

ETA 15/0768



Never exceed the permissible working loads. Before using hollow section fasteners, always check that the steel structure can withstand the required loads.

Hollow profile fastener BoxBolt® HDG

Steel, hot-dip galvanised, with CE marking

The mechanical material properties of the screws correspond to strength class 8.8 in accordance with DIN EN ISO 898-1



Material	Steel
Surface	Hot dip galvanized
RoHS-compliant	Yes

Thread type x nominal diameter	Screw length (l)	Width across flats (S)	Width across flats, sleeve (S _{HÜ})	Sleeve dia- meter (d _{HÜ})	Art. no.	P. Qty.
M8	50 mm	13 mm	22 mm	13.5 mm	0485 908 11	1/50
M8	70 mm	13 mm	22 mm	13.5 mm	0485 908 21	1/50
M8	90 mm	13 mm	22 mm	13.5 mm	0485 908 31	1/40
M10	50 mm	16 mm	24 mm	17.5 mm	0485 910 11	1/25
M10	70 mm	16 mm	24 mm	17.5 mm	0485 910 21	1/25
M10	90 mm	16 mm	24 mm	17.5 mm	0485 910 31	1/25
M12	55 mm	18 mm	26 mm	19.5 mm	0485 912 11	1/25
M12	80 mm	18 mm	26 mm	19.5 mm	0485 912 21	1/20
M12	100 mm	18 mm	26 mm	19.5 mm	0485 912 31	1/20
M16	75 mm	24 mm	36 mm	25.5 mm	0485 916 11	1/10
M16	100 mm	24 mm	36 mm	25.5 mm	0485 916 21	1/10
M16	120 mm	24 mm	36 mm	25.5 mm	0485 916 31	1/10
M20	100 mm	30 mm	46 mm	32.5 mm	0485 920 11	1/5
M20	130 mm	30 mm	46 mm	32.5 mm	0485 920 21	1/5
M20	150 mm	30 mm	46 mm	32.5 mm	0485 920 31	1/5

Please consider the legal instruction at the beginning of this chapter.

ETA 15/0768



Never exceed the permissible working loads. Before using hollow section fasteners, always check that the steel structure can withstand the required loads.

Hollow profile fastener BoxBolt®

Steel, zinc plated, with CE marking

The mechanical material properties of the screws correspond to strength class 8.8 in accordance with DIN EN ISO 898-1



Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes

Thread type x nominal diameter	Screw length (l)	Width across flats (S)	Width across flats, sleeve (S _{HÜ})	Sleeve diameter (d _{HÜ})	Art. no.	P. Qty.
M6	45 mm	10 mm	18 mm	10.5 mm	0485 806 11	1/100
M8	50 mm	13 mm	22 mm	13.5 mm	0485 808 11	1/50
M8	70 mm	13 mm	22 mm	13.5 mm	0485 808 21	1/50
M8	90 mm	13 mm	22 mm	13.5 mm	0485 808 31	1/40
M10	50 mm	16 mm	24 mm	17.5 mm	0485 810 11	1/25
M10	70 mm	16 mm	24 mm	17.5 mm	0485 810 21	1/25
M10	90 mm	16 mm	24 mm	17.5 mm	0485 810 31	1/25
M12	55 mm	18 mm	26 mm	19.5 mm	0485 812 11	1/25
M12	80 mm	18 mm	26 mm	19.5 mm	0485 812 21	1/20
M12	100 mm	18 mm	26 mm	19.5 mm	0485 812 31	1/20
M16	75 mm	24 mm	36 mm	25.5 mm	0485 816 11	1/10
M16	100 mm	24 mm	36 mm	25.5 mm	0485 816 21	1/10
M16	120 mm	24 mm	36 mm	25.5 mm	0485 816 31	1/10
M20	100 mm	30 mm	46 mm	32.5 mm	0485 820 11	1/5
M20	130 mm	30 mm	46 mm	32.5 mm	0485 820 21	1/5
M20	150 mm	30 mm	46 mm	32.5 mm	0485 820 31	1/5

Please consider the legal instruction at the beginning of this chapter.

ETA 15/0768



Never exceed the permissible working loads. Before using hollow section fasteners, always check that the steel structure can withstand the required loads.

A2 stainless steel hooked screw

Material	Stainless steel A2
Surface	Plain
Nominal diameter (d ₁)	8 mm
Thread length (lg) (lg)	25 mm
Shaft diameter	7.1 mm
Width of mouth (w)	10 mm



Length (l ₁)	Art. no.	P. Qty.
80 mm	5067 009 020	100
90 mm	5067 009 021	100
110 mm	5067 009 022	100

A2 stainless steel hooked screw

Material	Stainless steel A2
Surface	Plain



Nominal diameter (d ₁)	Length (l ₁)	Thread length (lg) (lg)	Shaft diameter	Width of mouth (w)	Art. no.	P. Qty.
4.8 mm	80 mm	22 mm	3.8 mm	16 mm	5067 004 000	100
5.5 mm	120 mm	34 mm	4.2 mm	20 mm	5067 004 001	100

Steel zinc plated metric thread lightly bent

Material	Steel
Surface	Zinc plated



Nominal diameter (d ₁)	Length (l ₁)	Thread length (lg) (lg)	Shaft diameter	Width of mouth (w)	Art. no.	P. Qty.
5 mm	50 mm	27 mm	4.4 mm	12 mm	5067 004 060	100
6 mm	70 mm	45 mm	5.2 mm	12 mm	5067 004 061	100
8 mm	80 mm	40 mm	7 mm	18 mm	5067 004 062	50

Stainless steel A2, lightly bent, metric thread

Material	Stainless steel A2
Surface	Plain



Nominal diameter (d ₁)	Length (l ₁)	Thread length (l _g) (l _g)	Shaft diameter	Width of mouth (w)	Art. no.	P. Qty.
6 mm	50 mm	25 mm	5.2 mm	12 mm	5067 004 080	100
8 mm	80 mm	40 mm	7 mm	18 mm	5067 004 081	50

Stainless steel A2, curved, with metric thread

Material	Stainless steel A2
Surface	Plain
RoHS-compliant	Yes



Nominal diameter (d ₁)	Length (l ₁)	Internal diameter of hook (d ₂)	Thread length (thread for woodwork) (l _g)	Shaft diameter	Art. no.	P. Qty.
5 mm	50 mm	16 mm	23 mm	4.4 mm	5067 002 180	100
6 mm	60 mm	18 mm	30 mm	5.2 mm	5067 002 181	100
8 mm	80 mm	22 mm	42 mm	7 mm	5067 002 182	100

Window sill screw pias®

Stainless steel A2

AW drive

- Improved power transmission
- Longer service life
- Optimal centring
- Zero come-out

Polyamide disk

- UV-stabilized; discolouration and embrittlement of the disk is minimized.
- Disk will not crack while screw is being screwed in.



Nominal diameter (d ₁)	4.2 mm
Washer diameter (d ₂)	12 mm
Length (l ₁)	20 mm
Head diameter (d _k)	7.95 mm
Washer thickness (h ₁)	2 mm
Drill tip length (l _p)	3 mm
Head height (k ₁)	2.8 mm
Drill tip diameter	2.8 mm

Continuation **Window sill screw pias®**

Internal drive	AW20
Material	Stainless steel A2
Surface	Plain

Art. no. 0211 724 220

P. Qty.: 500

Maximum thickness of aluminium: 2.5 mm

Use only screwdrivers with depth stop

Window sill screw

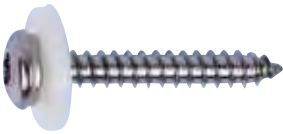
Tapping screw thread, stainless steel A2

AW drive

- Improved power transmission
- Longer service life
- Optimal centring
- Zero come-out

Polyamide disk

- UV-stabilized; discolouration and embrittlement of the disk is minimized.
- Disk will not crack while screw is being screwed in.



Material	Stainless steel A2
Material of the washer	PA - Polyamide
Surface	Plain
RoHS-compliant	Yes
Nominal diameter (d ₁)	3.9 mm
Washer thickness (h ₁)	2 mm
Washer diameter (d ₂)	12 mm
Head diameter (d _h)	7.9 mm
Head height (k ₁)	2.8 mm
Internal drive	AW20

Length (l ₁)	Art. no.	P. Qty.
16 mm	0126 283 916	500
25 mm	0126 283 925	500



Window sill screw A2

Coarse thread, stainless steel A2

AW drive

- Improved power transmission
- Longer service life
- Optimal centring
- Zero come-out

Polyamide disk

- UV-stabilized; discolouration and embrittlement of the disk is minimized.
- Disk will not crack while screw is being screwed in.

Material	Stainless steel A2
Material of the washer	PA - Polyamide
Surface	Plain
RoHS-compliant	Yes
Nominal diameter (d_1)	3.9 mm
Washer thickness (h_1)	2 mm
Washer diameter (d_2)	12 mm
Head diameter (d_k)	7.9 mm
Head height (k_1)	2.8 mm
Internal drive	AW20

Continuation **Window sill screw A2**

Length (l _i)	Art. no.	P. Qty.
20 mm	0126 253 920	500
25 mm	0126 253 925	500
30 mm	0126 253 930	500/1000

Window sill screw A2, burnished

Coarse thread, stainless steel A2, burnished

AW drive

- Improved power transmission
- Longer service life
- Optimal centring
- Zero come-out

Polyamide disk

- UV-stabilized; discolouration and embrittlement of the disk is minimized.
- Disk will not crack while screw is being screwed in.



Material	Stainless steel A2
Material of the washer	PA - Polyamide
Surface	Burnished
RoHS-compliant	Yes
Nominal diameter (d ₁)	3.9 mm
Washer thickness (h ₁)	2 mm
Washer diameter (d ₂)	12 mm
Head diameter (d _h)	7.9 mm
Head height (k ₁)	2.8 mm
Internal drive	AW20

Length (l _i)	Art. no.	P. Qty.
20 mm	0126 263 920	500
25 mm	0126 263 925	500
30 mm	0126 263 930	500

Window sill screw

Tapping screw thread, stainless steel A2, burnished

Polyamide disk

- UV-stabilised, discolouration and embrittlement of the disk is minimised
- Disk will not crack while screw is being screwed in



Material	Stainless steel A2
Material of the washer	PA - Polyamide
Surface	Burnished
RoHS-compliant	Yes
Nominal diameter (d ₁)	3.9 mm
Washer thickness (h ₁)	2 mm

Washer diameter (d ₂)	12 mm
Head diameter (d _k)	7.9 mm
Head height (k ₁)	2.8 mm
Internal drive	AW20

Length (l ₁)	Art. no.	P. Qty.
16 mm	0126 293 916	500
25 mm	0126 293 925	500

Coupling screw

Steel, yellow galvanised PH2

Material	Steel
Surface	Zinc plated yellow
Nominal diameter (d ₁)	4.8 mm
Thread length (thread for wood-work) (l _g)	25 mm
Head diameter (d _k)	10 mm
Internal drive	H2



Length (l ₁)	Art. no.	P. Qty.
65 mm	0185 148 65	200
80 mm	0185 148 80	200
130 mm	0185 148 130	100

Drilled with 4 mm diameter

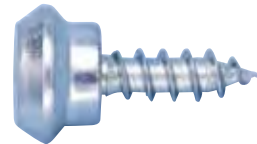
Nipple screw

For clamping profiles, roller blind rails and weather-boarding

With thread tip

For application in plastic profiles

- Direct attachment without pre-drilling
- Precise screwing with tension-absorbing sub-head spherical indentation
- Precise centring



Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d ₁)	4 mm
Internal drive	H2

Length (l ₁)	Grip diameter (d ₂)	Head diameter (d _k)	Head height (k ₁)	Suitable for profile	Art. no.	P. Qty.
10 mm	5.6 mm	7.8 mm	4.6 mm	Aluplast	0185 556 100	1000
10 mm	6.8 mm	9.1 mm	5.7 mm	Veka, Roplasto, EXTE, Brüggmann, Salamander	0185 568 100	1000
10 mm	7 mm	9.1 mm	4.4 mm	Höku	0185 570 100	1000

Continuation Nipple screw

Length (l ₁)	Grip diameter (d ₂)	Head diameter (d _k)	Head height (k ₁)	Suitable for profile	Art. no.	P. Qty.
10 mm	7.4 mm	10.4 mm	5.8 mm	Rehau, Thyssen, Gromathic, O & S, Plus Plan, Helmitin	0185 574 100	1000
10 mm	8.4 mm	12 mm	5.8 mm	Trocal, Stöckel	0185 584 100	1000
10 mm	8.6 mm	11 mm	7.55 mm	Kömmerling	0185 586 100	1000
10 mm	9 mm	11 mm	4.5 mm	Schüco, SKS	0185 590 100	1000
12 mm	8.1 mm	10.8 mm	6.5 mm	Gealan	0185 581 100	1000

Nipple screw

For clamping profiles, roller blind rails and weatherboarding

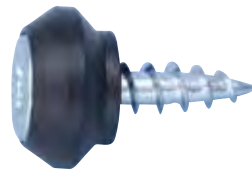
With plastic head and thread tip

For application in plastic profiles

Direct attachment without pre-drilling

Precise screwing with tension-absorbing sub-head spherical indentation

Precise centring



Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes
Nominal diameter (d ₁)	4.1 mm
Length (l ₁)	10 mm
Internal drive	H2

Grip diameter (d ₂)	Head diameter (d _k)	Head height (k ₁)	Suitable for profile	Art. no.	P. Qty.
6.8 mm	9.1 mm	5.7 mm	Veka, Roplasto, EXTE, Brüggmann, Salamander	0185 568 010	1000
7.4 mm	10.4 mm	5.8 mm	Rehau, Thyssen, Gromathic, O & S, Plus Plan, Helmitin	0185 574 010	1000
8.6 mm	11 mm	7.5 mm	Kömmerling	0185 586 010	1000

Nipple screw

For clamping profiles, roller blind rails and weatherboarding

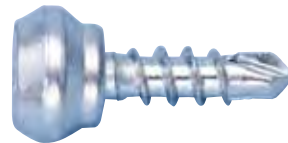
With drill tip

For application in plastic profiles with metal stiffening

Direct attachment without pre-drilling

Precise screwing with tension-absorbing sub-head spherical indentation

Precise centring



Material	Steel
Surface	Zinc plated

Nominal diameter (d ₁)	4 mm
Internal drive	H2

Length (l ₁)	Grip diameter (d ₂)	Head diameter (d _k)	Head height (k ₁)	Suitable for profile	Art. no.	P. Qty.
12 mm	8.4 mm	12 mm	5.8 mm	Trocal, Stöckel	0185 584 12	1000
13 mm	6.8 mm	9.1 mm	5.7 mm	Veka, Roplasto, EXTE, Brüggmann, Salamander	0185 568 13	1000
13 mm	7.4 mm	10.4 mm	5.8 mm	Rehau, Thyssen, Gro-mathic, O & S, Plus Plan, Helmitin	0185 574 13	1000
13 mm	8.6 mm	11 mm	7.6 mm	Kömmerling	0185 586 13	1000

Serrated dowel

- Design: Common beech
- Chamfered on both sides
- 8–10% wood moisture content



Diameter (d ₁)	Length (l ₁)	Diameter x length	Number per kg	Art. no.	P. Qty.
6 mm	30 mm	6 x 30 mm	1800 PCS	0907 006 30	5
6 mm	40 mm	6 x 40 mm	1340 PCS	0907 006 40	5
8 mm	25 mm	8 x 25 mm	1280 PCS	0907 008 25	5
8 mm	30 mm	8 x 30 mm	1055 PCS	0907 008 30	5
8 mm	35 mm	8 x 35 mm	895 PCS	0907 008 35	5
8 mm	40 mm	8 x 40 mm	780 PCS	0907 008 40	5
8 mm	50 mm	8 x 50 mm	620 PCS	0907 008 50	5
8 mm	60 mm	8 x 60 mm	523 PCS	0907 008 60	5
10 mm	30 mm	10 x 30 mm	660 PCS	0907 010 30	5
10 mm	40 mm	10 x 40 mm	490 PCS	0907 010 40	5
10 mm	50 mm	10 x 50 mm	390 PCS	0907 010 50	5
10 mm	60 mm	10 x 60 mm	325 PCS	0907 010 60	5
10 mm	80 mm	10 x 80 mm	245 PCS	0907 010 80	5
12 mm	40 mm	12 x 40 mm	320 PCS	0907 012 40	5
12 mm	50 mm	12 x 50 mm	255 PCS	0907 012 50	5
12 mm	60 mm	12 x 60 mm	210 PCS	0907 012 60	5
12 mm	80 mm	12 x 80 mm	160 PCS	0907 012 80	5
12 mm	100 mm	12 x 100 mm	128 PCS	0907 012 100	5
12 mm	120 mm	12 x 120 mm	100 PCS	0907 012 120	5
14 mm	60 mm	14 x 60 mm	165 PCS	0907 014 60	5
14 mm	80 mm	14 x 80 mm	120 PCS	0907 014 80	5
14 mm	100 mm	14 x 100 mm	101 PCS	0907 014 100	5
14 mm	120 mm	14 x 120 mm	90 PCS	0907 014 120	5
14 mm	140 mm	14 x 140 mm	57 PCS	0907 014 140	5
16 mm	80 mm	16 x 80 mm	90 PCS	0907 016 80	5
16 mm	100 mm	16 x 100 mm	77 PCS	0907 016 100	5
16 mm	120 mm	16 x 120 mm	65 PCS	0907 016 120	5
16 mm	135 mm	16 x 135 mm	55 PCS	0907 216 135	5
16 mm	155 mm	16 x 155 mm	48 PCS	0907 016 155	5

Please consider the legal instruction at the beginning of this chapter.

Serrated rod

Length (l ₁)	1000 mm
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Diameter (d ₁)	Diameter x length	Material	Art. no.	P. Qty.
6 mm	6 x 1000 mm	Red beech	0907 106 100	10
8 mm	8 x 1000 mm	Red beech	0907 108 100	10
10 mm	10 x 1000 mm	Mahogany	0907 410 100	10
10 mm	10 x 1000 mm	Red beech	0907 110 100	10
12 mm	12 x 1000 mm	Mahogany	0907 412 100	10
12 mm	12 x 1000 mm	Red beech	0907 112 100	10
14 mm	14 x 1000 mm	Mahogany	0907 414 100	10
14 mm	14 x 1000 mm	Red beech	0907 114 100	10
16 mm	16 x 1000 mm	Mahogany	0907 416 100	10
16 mm	16 x 1000 mm	Red beech	0907 116 100	10
18 mm	18 x 1000 mm	Red beech	0907 118 100	10
20 mm	20 x 1000 mm	Red beech	0907 120 100	10

Please consider the legal instruction at the beginning of this chapter.

Wood connector plate

- Design: Serrated common beech
- High strength as connection plate expands slightly when glued

Thickness (h ₁)	4 mm
Material	Red beech
Design	Serrated



Length (l ₁)	Width (b ₁)	Size	Length x width x thickness	Art. no.	P. Qty.
45 mm	15 mm	0	45 x 15 x 4 mm	0907 250 0	1000
55 mm	19 mm	10	55 x 19 x 4 mm	0907 250 10	1000
63 mm	23 mm	20	63 x 23 x 4 mm	0907 250 20	1000

Safety screw

Galvanised steel, blue passivated, dowel thread

For the secure attachment of protective screens, cellar grills and similar items.

Material:

Galvanised steel, blue coated

Head shape:

Decorative head with AW 40 drive and sealing plug

With plug screw thread

Suitable for Würth frame anchor TYPE WE and WD



Nominal diameter (d ₁)	7 mm
Head diameter (d _h)	17 mm
Head height (k ₁)	4.5 mm
Material	Steel

Surface	Zinc plated
Internal drive	AW40

Length (l ₁)	Art. no.	P. Qty.
85 mm	0265 27 85	25
105 mm	0265 27 105	25
120 mm	0265 27 120	25

Bit 1/4 AW 40 and sealing plugs are included in every package.

Safety screw

Stainless steel A2, plain, dowel thread

For the secure attachment of protective screens, cellar grills and similar items.

Material:

A2 stainless steel

Head shape:

Decorative head with AW 40 drive and sealing plug

With plug screw thread

Suitable for Würth frame anchor TYPE WE and WD



Nominal diameter (d ₁)	7 mm
Head diameter (d _k)	17 mm
Head height (k ₁)	4.5 mm
Material	Stainless steel
Surface	Plain
Internal drive	AW40

Length (l ₁)	Art. no.	P. Qty.
85 mm	0265 57 85	25
105 mm	0265 57 105	25

Bit 1/4 AW 40 and sealing plugs are included in every package.

Safety screw

Galvanised steel, blue coated, wood screw thread

For the secure attachment of protective screens, cellar grills and similar items.

Material:

Galvanised steel, blue coated

Head shape:

Decorative head with AW 40 drive and sealing plug

With wood screw thread similar to DIN 571



Head height (k ₁)	4.5 mm
Internal drive	AW40
Material	Steel
Surface	Zinc plated
RoHS-compliant	Yes

Continuation **Safety screw**

Nominal diameter (d ₁)	Length (l ₁)	Head diameter (d _k)	Art. no.	P. Qty.
7 mm	40 mm	17 mm	0265 37 40	25
7 mm	50 mm	17 mm	0265 37 50	25
10 mm	85 mm	19 mm	0265 310 85	25
10 mm	105 mm	19 mm	0265 310 105	25

Bit 1/4 AW 40 and sealing plugs are included in every package.

Safety screw

Stainless steel A2, bare, wood screw thread

For the secure attachment of protective screens, cellar grills and similar items.

Material:

A2 stainless steel

Head shape:

Decorative head with AW 40 drive and sealing plug

With wood screw thread similar to DIN 571



Head height (k ₁)	4.5 mm
Internal drive	AW40
Material	Stainless steel
Surface	Plain
RoHS-compliant	Yes

Nominal diameter (d ₁)	Length (l ₁)	Head diameter (d _k)	Art. no.	P. Qty.
7 mm	50 mm	17 mm	0265 67 50	25
10 mm	85 mm	19 mm	0265 610 85	25

Bit 1/4 AW 40 and sealing plugs are included in every package.

Washer with round hole, mainly for wood construction

DIN 440 galvanised steel, blue coated (A2K)

Material	Steel
Vickers hardness, HV	100 HV
Surface	Zinc plated
RoHS-compliant	Yes
Form	R



Suitable for screw thread	Internal diameter (d ₁)	Outer diameter (d ₂)	Thickness (h ₁)	Art. no.	P. Qty.
M5	5.5 mm	18 mm	2 mm	0459 55	100/1000
M6	6.6 mm	22 mm	2 mm	0459 66	100/500
M8	9 mm	28 mm	3 mm	0459 95	100/200
M10	11 mm	34 mm	3 mm	0459 115	100/200
M12	13.5 mm	44 mm	4 mm	0459 14	100/200
M14	15.5 mm	50 mm	4 mm	0459 15	100
M16	17.5 mm	56 mm	5 mm	0459 18	50/100

Suitable for screw thread	Internal diameter (d ₁)	Outer diameter (d ₂)	Thickness (h ₁)	Art. no.	P. Qty.
M20	22 mm	72 mm	6 mm	0459 23	50
M22	24 mm	80 mm	6 mm	0459 25	50
M24	26 mm	85 mm	6 mm	0459 27	25
M27	30 mm	98 mm	6 mm	0459 30	25
M36	39 mm	125 mm	8 mm	0459 39	10

Circlip, shaft

DIN 471, plain steel AS, heavy-duty design

Standards	DIN 471
Form	AS
Material	Spring steel
Surface	Plain
Design	Heavy-duty design
RoHS-compliant	Yes



Suitable for shafts	Suitable for groove diameter	Internal diameter (d ₁)	Eye width (a ₁)	Width (b ₁)	Art. no.	P. Qty.
			3.9 mm	2.5 mm	0438 19 15	1000
11 mm			3.3 mm	1.8 mm	0438 12 15	1000
15 mm	14.3 mm	13.8 mm	4.8 mm	2.4 mm	0438 15 15	1000
16 mm	15.2 mm	14.7 mm	5 mm	2.5 mm	0438 16 15	1000
17 mm	16.2 mm	15.7 mm	5 mm	2.6 mm	0438 17 15	1000
18 mm	17 mm	16.5 mm	5.1 mm	2.7 mm	0438 18 15	1000
20 mm	19 mm	18.5 mm	5.5 mm	3 mm	0438 20 175	1000
22 mm	21 mm	20.5 mm	6 mm	3.1 mm	0438 22 175	500
23.2 mm			6.4 mm	3.4 mm	0438 25 2	500
28 mm	26.6 mm	20.5 mm	6.5 mm	3.5 mm	0438 28 2	500
30 mm	28.6 mm	27.9 mm	6.5 mm	4.1 mm	0438 30 2	250
35 mm	33 mm	32.2 mm	6.7 mm	4.2 mm	0438 35 25	200
38 mm	36 mm	35.2 mm	6.8 mm	4.3 mm	0438 38 25	70
40 mm	37.5 mm	36.5 mm	7 mm	4.4 mm	0438 40 25	100
45 mm	42.5 mm	41.5 mm	7.5 mm	4.7 mm	0438 45 25	70
50 mm	47 mm	45.8 mm	8 mm	5.1 mm	0438 50 3	100
52 mm	49 mm	47.8 mm	8.2 mm	5.2 mm	0438 52 3	65
55 mm	52 mm	50.8 mm	8.5 mm	5.4 mm	0438 55 3	65
60 mm	57 mm	55.8 mm	9 mm	5.8 mm	0438 60 3	65
65 mm	62 mm	60.8 mm	9.3 mm	6.3 mm	0438 65 4	50
70 mm	67 mm	65.5 mm	9.5 mm	6.6 mm	0438 70 4	50
75 mm	72 mm	70.5 mm	9.7 mm	7 mm	0438 75 4	50
80 mm	76.5 mm	74.5 mm	9.8 mm	7.4 mm	0438 80 4	50
85 mm	81.5 mm	79.5 mm	10 mm	7.8 mm	0438 85 4	25
90 mm	86.5 mm	84.5 mm	10.2 mm	8.2 mm	0438 90 4	25
100 mm	96.5 mm	94.5 mm	10.5 mm	9 mm	0438 100 4	50

Circlip, shaft

Circlip shaft ZA, plain steel

Form	ZA
Material	Steel
Surface	Plain
RoHS-compliant	Yes



Suitable for shafts	Suitable for groove diameter	Internal diameter (d _i)	Thickness (s _i)	Standards	Art. no.	P. Qty.
2 mm	1.9 mm	1.85 mm	0.25 mm	WN 438	0438 4 2	5000
3 mm	2.9 mm	2.8 mm	0.25 mm	WN 438	0438 4 3	1000
5 mm	4.9 mm	4.8 mm	0.25 mm	WN 438	0438 4 5	2500
6 mm	5.9 mm	5.8 mm	0.25 mm	WN 438	0438 4 6	2500
7 mm	6.9 mm	6.8 mm	0.25 mm	WN 438	0438 4 7	2000
8 mm	7.85 mm	7.75 mm	0.25 mm		0438 4 8	2000
10 mm	9.85 mm	9.75 mm	0.3 mm	WN 438	0438 4 10	1000
12 mm	11.85 mm	11.7 mm	0.3 mm	WN 438	0438 4 12	1000
14 mm	13.8 mm	13.7 mm	0.3 mm	WN 438	0438 4 14	1000
15 mm	14.8 mm	14.6 mm	0.5 mm	WN 438	0438 4 15	1000
16 mm	15.8 mm	15.6 mm	0.4 mm	WN 438	0438 4 16	1000
18 mm	17.8 mm	17.6 mm	0.4 mm	WN 438	0438 4 18	500
20 mm	19.75 mm	19.5 mm	0.5 mm	WN 438	0438 4 20	500
22 mm	21.75 mm	21.5 mm	0.5 mm	WN 438	0438 4 22	1000
25 mm	24.75 mm	24.5 mm	0.5 mm	WN 438	0438 4 25	500
35 mm	34.75 mm	34.5 mm	0.5 mm	WN 438	0438 4 35	250

Locking disc spring washer Type M

Plain A4 stainless steel

- Type M: for high-strength connections with normal head contact
- A4 stainless steel, material number 1.4401
- Spring force for friction-fit connection
- Specially embossed surface for form-fit connection
- Reusable
- Protects the counter surface from damage (washer does not turn during installation)
- Minimal tightening torque distribution
- Universal application, e.g. also suitable for slot fastening and sheet-metal screw joints



Material	Stainless steel A4
Surface	Plain
RoHS-compliant	Yes
Form	M
Suitable for	High-strength bonds with normal head contact

Suitable for screw thread	Internal diameter (d ₁)	Outer diameter (d ₂)	Height (h ₁)	Thickness (s ₁)	Art. no.	P. Qty.
M4	4.1 mm	10.2 mm	1.3 mm	1 mm	0404 4	100/1000
M5	5.1 mm	12.2 mm	1.65 mm	1.2 mm	0404 5	100/1000
M6	6.1 mm	14.2 mm	2 mm	1.4 mm	0404 6	100/1000
M8	8.2 mm	18.2 mm	2.4 mm	1.4 mm	0404 8	100/1000
M10	10.2 mm	22.25 mm	2.55 mm	1.6 mm	0404 10	100/200
M12	12.4 mm	27.25 mm	2.85 mm	1.8 mm	0404 12	100
M14	14.4 mm	30.25 mm	3.3 mm	2.4 mm	0404 14	100
M16	16.4 mm	32.5 mm	3.75 mm	2.5 mm	0404 16	100

The extremely reliable positive locking effect against unscrewing has been verified through the application of a dynamic load (vibration) across the screw axis in many practical tests.

Locking disc spring washer Type Z

Plain A4 stainless steel

- Type Z: for cheese head screws and hexagon socket screws
- A4 stainless steel, material number 1.4401
- Spring force for friction-fit connection
- Specially embossed surface for form-fit connection
- Reusable
- Protects the counter surface from damage (washer does not turn during installation)
- Minimal tightening torque distribution
- Universal application, e.g. also suitable for slot fastening and sheet-metal screw joints



Material	Stainless steel A4
Surface	Plain
RoHS-compliant	Yes
Form	Z
Suitable for	Cylinder head and hexagon head bolts with normal head contact

Suitable for screw thread	Internal diameter (d ₁)	Outer diameter (d ₂)	Height (h ₁)	Thickness (s ₁)	Art. no.	P. Qty.
M6	6.1 mm	9.9 mm	1.6 mm	1.4 mm	0404 06	100/500
M8	8.2 mm	12.7 mm	1.7 mm	1.4 mm	0404 08	100/500
M10	10.2 mm	16.1 mm	2 mm	1.6 mm	0404 010	100
M12	12.4 mm	18.3 mm	2.4 mm	1.8 mm	0404 012	100
M16	16.4 mm	24.6 mm	3.1 mm	2.5 mm	0404 016	100

The extremely reliable positive locking effect against unscrewing has been verified through the application of a dynamic load (vibration) across the screw axis in many practical tests.



03

ANCHOR TECHNOLOGY

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Plastic multi-purpose dowel SHARK® Pro

The most versatile plastic anchor. Knots into cavities, expands in solid materials

- Ensures knotting in all cavities and spreading in all solid materials
- Quick and easy installation
- Resistant to rotting, weathering and ageing

Anchor diameter	Anchor length (l)	Min. required screw diameter	Embedding depth (h s)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
5 mm	28 mm	3 mm	27 mm	5 mm	5906 205 28	200/4800
6 mm	35 mm	4 mm	34 mm	6 mm	5906 206 35	200/3200
8 mm	46 mm	4.5 mm	45 mm	8 mm	5906 208 46	200/1600
10 mm	56 mm	6 mm	55 mm	10 mm	5906 210 56	100/800
12 mm	66 mm	8 mm	65 mm	12 mm	5906 212 66	50/400
14 mm	76 mm	10 mm	75 mm	14 mm	5906 214 76	20

Plastic multi-purpose Zebra Shark® anchor without collar

Universal anchor for fixtures in almost all building materials (low load range)

- Fully resistant to rotting, weathering and ageing
- Pre-formed thread means low insertion torque for WÜPOFAST screw
- Longitudinal locking edges prevent rotation
- A single screw diameter can be used, regardless of the application
- Expanding segments knot together or fold out for positive locking in perforated brick/cavity walls
- Pre-formed thread in head
- Three-way division for anchorage via positive locking or friction locking
- Wings act as anti-rotation device in solid or hollow block brick
- For mounting, we recommend the ASSY-D plug screw



Anchor diameter	Anchor length (l)	Min. required screw diameter	Embedding depth (h s)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
5 mm	31 mm	3 mm	30 mm	5 mm	0906 005 31	200
6 mm	36 mm	4.5 mm	36 mm	6 mm	0906 006 36	200
7 mm	36 mm	5 mm	35 mm	7 mm	0906 007 36	100
7 mm	51 mm	5 mm	50 mm	7 mm	0906 007 51	100
8 mm	51 mm	6 mm	51 mm	8 mm	0906 008 51	200
10 mm	61 mm	7 mm	60 mm	10 mm	0906 010 61	100
12 mm	71 mm	8 mm	70 mm	12 mm	0906 012 71	25
14 mm	75 mm	10 mm	75 mm	14 mm	0906 014 75	20

Plastic multi-purpose ZEBRA Shark® anchor with collar

Universal anchor for fixtures in almost all building materials (low load range)

- Fully resistant to rotting, weathering and ageing
- Pre-formed thread means low insertion torque for WÜPOFAST screw
- Longitudinal locking edges prevent rotation
- A single screw diameter can be used, regardless of the application
- Expanding segments knot together or fold out for positive locking in perforated brick/cavity walls
- Pre-formed thread in head
- Three-way division for anchorage via positive locking or friction locking
- Wings act as anti-rotation device in solid or hollow block brick
- For mounting, we recommend the ASSY-D plug screw



Anchor diameter	Anchor length (l)	Min. required screw diameter	Embedding depth (h s)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
5 mm	32 mm	3.5 mm	30 mm	5 mm	0906 005 32	200
6 mm	37 mm	4.5 mm	36 mm	6 mm	0906 006 37	200
7 mm	37 mm	5 mm	35 mm	7 mm	0906 007 37	100
7 mm	52 mm	5 mm	50 mm	7 mm	0906 007 52	100

Anchor diameter	Anchor length (l)	Min. required screw diameter	Embedding depth (h s)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
8 mm	52 mm	6 mm	51 mm	8 mm	0906 008 52	200
10 mm	62 mm	7 mm	60 mm	10 mm	0906 010 62	100
12 mm	72 mm	8 mm	70 mm	12 mm	0906 012 72	25
14 mm	76 mm	10 mm	75 mm	14 mm	0906 014 76	20

Nylon anchor

Plastic anchors for light loads (secondary attachments)

- High-quality polyamide (nylon)
- Halogen and silicon free
- Temperature resistant from -40°C to +80°C
- The hammer-in stop prevents premature expansion during push-through installation
- The twist lock prevents turning in the drill hole
- Wall plug shaft with no expansion pressure prevents damage to plaster and tiles
- Push-through and cotter-pin installation
- For mounting, we recommend the ASSY-D plug screw



Anchor diameter	Anchor length (l)	Embedding depth (h nom)	Nominal drill-bit diameter (d 0)	Required wood screw diameter (d scr.wood)	Art. no.	P. Qty.
5 mm	25 mm	25 mm	5 mm	2.5 - 4 mm	0903 5 25	100/1000
8 mm	40 mm	40 mm	8 mm	4.5 - 6 mm	0903 8 40	300
10 mm	50 mm	50 mm	10 mm	6 - 8 mm	0903 10 50	50/200
20 mm	90 mm	90 mm	20 mm	16 mm	0903 20 90	5

- Drill perforated brick using the rotary drill (without striking tool)
- The drill cuttings must be removed from the drill hole
- Screw length = attachment thickness (+plaster/insulation thickness) + anchor length + screw diameter

Nail anchor SHARK® Hammer type FK A2

With fast assembly and proven performance, this product offers an all-round solution for fastening light loads using push-through installation. Wall plug body with flat collar nail made from A2 stainless steel



- Quick, cost-effective installation
- Can be removed via drive in screw head
- Pre-assembled with matching screw

Anchor diameter	6 mm
Anchor length (l)	40 mm
Max. attachment height (t fix)	10 mm
Embedding depth (h nom)	30 mm
Nominal drill-bit diameter (d 0)	6 mm
Surface	Plain

Art. no. 5906 346 40

P. Qty.: 100



Nail anchor SHARK® Hammer type PK A2

With fast assembly and proven performance, this product offers an all-round solution for fastening light loads using in-place installation. Wall plug body with mushroom collar, nail made from A2 stainless steel



- Quick, cost-effective installation
- Can be removed via drive in screw head
- Pre-assembled with matching screw
- Ideal for slots thanks to large contact surface

Anchor diameter	6 mm
Anchor length (l)	40 mm
Max. attachment height (t fix)	10 mm
Embedding depth (h nom)	30 mm
Nominal drill-bit diameter (d 0)	6 mm
Surface	Plain

Art. no. 5906 366 40

P. Qty.: 100



Nail anchor SHARK® Hammer type DS A2

With fast assembly and proven performance, this product offers an all-round solution for fastening light loads using in-place installation. Wall plug body with countersunk collar, nail made from A2 stainless steel with sealing washer



- Quick, cost-effective installation
- Can be removed via drive in screw head
- Pre-assembled with matching screw

Anchor diameter	6 mm
Embedding depth (h nom)	30 mm
Nominal drill-bit diameter (d 0)	6 mm

Anchor length (l)	Max. attachment height (t fix)	Surface	Art. no.	P. Qty.
40 mm	10 mm	Copper plated	5906 386 401	100
40 mm	10 mm	Plain	5906 376 401	100
40 mm	20 mm	Plain	5906 376 402	100
60 mm	30 mm	Plain	5906 376 601	100
80 mm	50 mm	Plain	5906 376 801	100



Nail anchor SHARK® Hammer type SK A2

With fast assembly and proven performance, this product offers an all-round solution for fastening light loads using in-place installation. Wall plug body with countersunk, nail from A2 stainless steel



- Quick, cost-effective installation
- Can be removed via drive in screw head
- Pre-assembled with matching screw

Surface	Plain
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Anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Embedding depth (h nom)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
6 mm	60 mm	30 mm	30 mm	6 mm	5906 356 60	100
6 mm	80 mm	50 mm	30 mm	6 mm	5906 356 80	100
8 mm	60 mm	20 mm	40 mm	8 mm	5906 358 60	100
8 mm	80 mm	40 mm	40 mm	8 mm	5906 358 80	100
8 mm	100 mm	60 mm	40 mm	8 mm	5906 358 100	100
8 mm	120 mm	80 mm	40 mm	8 mm	5906 358 120	100



Nail anchor SHARK® Hammer type FK

With fast assembly and proven performance, this product offers an all-round solution for fastening light loads using push-through installation. Wall plug body with flat collar nail made of zinc plated steel



- Quick, cost-effective installation
- Can be removed via drive in screw head
- Pre-assembled with matching screw

Surface	Zinc plated
---------	-------------



Anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Embedding depth (h nom)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
5 mm	30 mm	5 mm	25 mm	5 mm	5906 305 30	200
5 mm	40 mm	15 mm	25 mm	5 mm	5906 305 40	200
5 mm	50 mm	25 mm	25 mm	5 mm	5906 305 50	200
6 mm	30 mm	5 mm	30 mm	6 mm	5906 306 30	200
6 mm	40 mm	10 mm	30 mm	6 mm	5906 306 40	200
6 mm	50 mm	20 mm	30 mm	6 mm	5906 306 50	200

Anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Embedding depth (h nom)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
6 mm	60 mm	30 mm	30 mm	6 mm	5906 306 60	200
6 mm	80 mm	50 mm	30 mm	6 mm	5906 306 80	200
8 mm	45 mm	5 mm	40 mm	8 mm	5906 308 45	100

- European Technical Assessment ETA-19/0182: SHARK® Hammer sizes 6 and 8 for multiple use in concrete for non-structural applications
- European Technical Assessment ETA-19/0182: SHARK® Hammer 8 for multiple use in masonry for non-structural applications (exception: dimensions M8 x 45)



Nail anchor SHARK® Hammer type GEW

With fast assembly and proven performance, this product offers an all-round solution for fastening light loads using in-place installation. Wall plug body with flat collar, nail made of zinc plated steel with connecting thread

- Quick, cost-effective installation
- Can be removed via drive in screw head
- Pre-assembled with matching screw



Anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Embedding depth (h nom)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
6 mm	40 mm	10 mm	30 mm	6 mm	5906 336 406	200
8 mm	45 mm	5 mm	40 mm	8 mm	5906 338 458	100

- European Technical Assessment ETA-19/0182: SHARK® Hammer sizes 6 and 8 for multiple use in concrete for non-structural applications
- European Technical Assessment ETA-19/0182: SHARK® Hammer 8 for multiple use in masonry for non-structural applications (exception: dimensions M8 x 45)



Nail anchor SHARK® Hammer type PK

With fast assembly and proven performance, this product offers an all-round solution for fastening light loads using in-place installation. Wall plug body with mushroom collar, nail made of zinc plated steel

- Quick, cost-effective installation
- Can be removed via drive in screw head
- Ideal for slots thanks to large contact surface
- Pre-assembled with matching screw



Anchor diameter	6 mm
Embedding depth (h nom)	30 mm
Nominal drill-bit diameter (d 0)	6 mm
Surface	Zinc plated

Anchor length (l)	Max. attachment height (t fix)	Art. no.	P. Qty.
40 mm	10 mm	5906 326 40	100
60 mm	30 mm	5906 326 60	100

European Technical Assessment ETA-19/0182: SHARK® Hammer sizes 6 and 8 for use in a redundant system in concrete for non-structural applications



- European Technical Assessment ETA-19/0182: Multiple attachment of non-load-bearing systems in concrete SHARK® Hammer 6, 8



Nail anchor SHARK® Hammer type SK

With fast assembly and proven performance, this product offers an all-round solution for fastening light loads using in-place installation. Wall plug body with countersunk, nail made of zinc-plated steel

- Quick, cost-effective installation
- Can be removed via drive in screw head
- Pre-assembled with matching screw
- European Technical Assessment ETA-19/0182: SHARK® Hammer sizes 6 and 8 for multiple use in concrete for non-structural applications
- European Technical Assessment ETA-19/0182: SHARK® Hammer 8 for multiple use in masonry for non-structural applications (exception: dimensions M8 x 45)



Surface	Zinc plated
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Anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Embedding depth (h nom)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
6 mm	40 mm	10 mm	30 mm	6 mm	5906 316 40	200
6 mm	60 mm	30 mm	30 mm	6 mm	5906 316 60	200
6 mm	80 mm	50 mm	30 mm	6 mm	5906 316 80	200
8 mm	60 mm	20 mm	40 mm	8 mm	5906 318 60	100
8 mm	80 mm	40 mm	40 mm	8 mm	5906 318 80	100
8 mm	100 mm	60 mm	40 mm	8 mm	5906 318 100	100
8 mm	120 mm	80 mm	40 mm	8 mm	5906 318 120	100
8 mm	135 mm	95 mm	40 mm	8 mm	5906 318 135	100
8 mm	160 mm	120 mm	40 mm	8 mm	5906 318 160	100

Nail anchor

For dry walling, with zinc-plated steel nail

Quick, cost-effective installation

Pre-assembled — no need to search for the right screw

Also suitable for ducts

Can be removed via drive in screw head

Properties

- UV-resistant
- Plastic anchors made of high-quality polyamide – resistant to mould
- Heat resistant -40 to +150°C
- Halogen- and silicone-free



Anchor diameter	6 mm
Anchor length (l)	30 mm
Max. attachment height (t fix)	5 mm
Embedding depth (h nom)	30 mm
Nominal drill-bit diameter (d 0)	6 mm

Art. no. 0903 760 300

P. Qty.: 1000

Securing sleeve

For quick and economic mounting of light attachment parts in all solid materials, galv. steel

- Quick, easy installation
- Hardened spring steel
- Can be loaded immediately



Anchor diameter	Length (l)	Max. attachment height (d a) (da)	Embedding depth (h s)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
6 mm	30 mm	5 mm	30 mm	6 mm	0905 06 30	100
6 mm	60 mm	30 mm	30 mm	6 mm	0905 06 60	100
6 mm	80 mm	50 mm	30 mm	6 mm	0905 06 80	100
8 mm	70 mm	30 mm	40 mm	8 mm	0905 08 70	100
8 mm	90 mm	50 mm	40 mm	8 mm	0905 08 90	100
8 mm	110 mm	70 mm	40 mm	8 mm	0905 08 110	100
8 mm	130 mm	90 mm	40 mm	8 mm	0905 08 130	50
8 mm	150 mm	110 mm	40 mm	8 mm	0905 08 150	50

Hammer rivet

Stainless steel attachment with rounded mushroom head, rivet: Aluminium, bolt: Steel A2

Hammer can be used for attachment via friction locking

Stainless steel attachment with rounded mushroom head

Clearly defined bolt knock-in securing mechanism for bridging cavities



Nominal diameter	4.8 mm
Embedding depth in solid brick (h s)	20 mm
Nominal drill-bit diameter (d 0)	5 mm

Sleeve length (l)	Art. no.	P. Qty.
15.3 mm	0945 48 15	200
22.9 mm	0945 48 24	200
25.4 mm	0945 48 26	200
27.9 mm	0945 48 29	200
35 mm	0945 48 35	200
50 mm	0945 48 50	200

Size 6.4 x 40 cannot be stored in ORSY

Brass anchor

Female thread with metric thread as an inexpensive alternative for outdoor use, for concrete and solid brick



- Brass female thread anchor
- Knurled surface for good holding power
- Screwing in a screw/threaded rod with a metric thread expands the anchor and fixes it in the anchoring base
- Corrosion resistant
- Minimal anchorage depth
- Minimal edge and axial clearance
- Suitable for push-through and cotter-pin installation
- Used without a setting tool
- Cost-effective attachment for outdoor use

Internal diameter	Anchor length (l)	Embedding depth (h s)	Drill hole depth (t)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
4 mm	16 mm	16 mm	20 mm	5 mm	0904 34	100
5 mm	20 mm	20 mm	25 mm	6 mm	0904 35	100
6 mm	23 mm	25 mm	30 mm	8 mm	0904 36	100
8 mm	30 mm	30 mm	35 mm	10 mm	0904 38	100
10 mm	34 mm	35 mm	40 mm	12 mm	0904 310	100
12 mm	40 mm	40 mm	45 mm	15 mm	0904 312	50

Sound protection anchor W-SSD, type MB

For fixtures with noise protection requirements, with collar

- Structure-borne sound insulation for reduced noise levels
- Reduces the amount of structure-borne sound transmitted and conducted into the structure
- Excellent screw guidance, no breaking out at the side
- Very good holding power
- High static friction
- Immediate load-bearing capacity after insertion – no waiting
- Weather resistant
- UV resistant
- Salt water resistant
- Thermally stable from -40°C to +100°C
- Halogen free
- Chemical resistant
- Free of substances containing silicone



Type description	W-SSD
Design	With collar

Anchor diameter	Anchor length (l)	Collar diameter x collar thickness	Art. no.	P. Qty.
10 mm	34 mm	22 x 4 mm	0903 300 110	25
12 mm	45 mm	30 x 4 mm	0903 300 112	25
14 mm	55 mm	34 x 5 mm	0903 300 114	25
16 mm	66 mm	42 x 6 mm	0903 300 116	25
18 mm	70 mm	42 x 6 mm	0903 300 118	25

Sound protection anchor W-SSD, type OB

For fixtures with noise protection requirements, without collar

- Structure-borne sound insulation for reduced noise levels
- Reduces the amount of structure-borne sound transmitted and conducted into the structure
- Excellent screw guidance, no breaking out at the side
- Very good holding power
- High static friction
- Immediate load-bearing capacity after insertion – no waiting
- Weather resistant
- UV resistant
- Salt water resistant
- Thermally stable from -40°C to +100°C
- Halogen free
- Chemical resistant
- Free of substances containing silicone



Type description	W-SSD
Design	Without collar

Anchor diameter	Anchor length (l)	Art. no.	P. Qty.
10 mm	30 mm	0903 300 010	25
12 mm	37 mm	0903 300 012	25
14 mm	50 mm	0903 300 014	25
16 mm	62 mm	0903 300 016	25
18 mm	70 mm	0903 300 018	25

Spacer installation system Amo[®]-Max spacer

Used to introduce the loads through the insulation into the substrate during assembly with Amo[®]-Max spacer installation system

- High-quality aluminium (AlMgSiF 28)
- Resistant to rotting, weathering and ageing
- For use in cotter-pin installation
- For universal use, as combinable with various anchor systems depending on substrate
- Flexible adjustment of mounting height with different spacing disks
- The AMO-Max system can be disassembled



Outer diameter (Ø)	40 mm
Material	Aluminium

Compensation thickness	Art. no.	P. Qty.
60 mm	0911 100 060	10
80 mm	0911 100 080	10
100 mm	0911 100 100	10
120 mm	0911 100 120	10
140 mm	0911 100 140	10
160 mm	0911 100 160	10
180 mm	0911 100 180	10
200 mm	0911 100 200	10

Test reports 031-02 and 05-141



Spacer installation system Amo[®]-Max plastic sleeve

For Amo[®]-Max spacer installation system

- For universal use, as combinable with various anchor systems depending on substrate
- Flexible adjustment of mounting height with different spacing disks
- For use in cotter-pin installation
- The AMO-Max system can be disassembled.

Made of glass-fibre reinforced plastic (polyamide PA6)

- Impact-resistant, abrasion resistant and vibration damping
- Good resistance to oils and greases
- Resistant to rotting, weathering and ageing
- Temperature resistant from -30°C to +100°C



Material	PA - Polyamide
----------	----------------

Internal diameter (Ø)	Art. no.	P. Qty.
8.2 mm	0911 111 008	25
10.2 mm	0911 111 010	25
12.2 mm	0911 111 012	25
14.5 mm	0911 111 014	25
16.5 mm	0911 111 016	25

Test reports 031-02 and 05-141



Spacer installation system Amo[®]-Max spacer disc

To compensate for the plaster layer during assembly with Amo[®]-Max spacer installation system

- For universal use, as combinable with various anchor systems depending on substrate
- Flexible adjustment of mounting height with different spacing disks
- For use in cotter-pin installation
- The AMO-Max system can be disassembled.

Made of glass-fibre reinforced plastic (polyamide PA6)

- Impact-resistant, abrasion resistant and vibration damping
- Good resistance to oils and greases
- Resistant to rotting, weathering and ageing
- Temperature resistant from -30°C to +100°C



Outer diameter (Ø)	40 mm
Material	PA - Polyamide

Compensation thickness	Colour	Art. no.	P. Qty.
2 mm	Black	0911 110 002	50
2 mm	White	0911 110 001	50
3 mm	Black	0911 110 003	50
5 mm	Black	0911 110 005	50
10 mm	Black	0911 110 010	25

Test reports 031-02 and 05-141



Amo® Max tool assortment

6 pieces in system case with compartments for system components of the Amo®-Max system

System dimensions	8.4.2
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Art. no. 5964 025 900

P. Qty.: 1



ORSY

Contents for art. no. 5964 025 900		
Designation	Art. no.	Quantity
Carbide hole saw Diameter 41 mm; Drilling depth 40 mm	0632 100 400	1
Hammer drill bit Plus Duo-S Vario 8 mm; 260 mm	0648 558 026	1
Setting mandrel Compatible with drill hole diameter 10 mm 14 mm 16 mm	0911 112 001	1
Setting mandrel Compatible with drill hole diameter 8 mm 12 mm 18 mm	0911 112 002	1
Impact sleeve	0911 112 004	1
Hole saw mount 8 mm	0911 112 008	1
System case 8.4.2	5581 011 000	1
System box 2.4.2	5581 036 012	4
System box separating element		2

Spacer installation AMO®-Light

For securing lighter loads to insulated facades, for concrete and masonry. Innovative construction with nylon dowel integrated in the screw shank.



- Lower cost, since screw and anchor are supplied in a set
- Easier installation owing to quick insertion process
- Immediate load-bearing capacity – no waiting
- AMO-Light screw: Plastic anchor in screw shaft made from high-quality polyamide (Nylon)
- The add-on piece is attached to the screw shank by screwing a 4 mm chipboard screw (no drill tip, counter thread, ring thread) into the plastic anchor (the plastic anchor is in the screw shank, see detail A)

Plastic frame anchor W-UR 10

- Expands in four directions
- Very strong twist lock
- Made from high-quality polyamide (nylon) – resistant to rotting, weathering and ageing

Nominal drill hole diameter	10 mm
Embedding depth	70 mm
Drill hole depth	80 mm
Length	115 mm
Internal drive	AW40
Required particle-board screw diameter	4 mm, screw-in depth: 16-26 mm

Art. no. 0912 810 613

P. Qty.: 50

Drill perforated and hollow blocks with a rotary drill (without impact mechanism)
Drill cuttings must be removed from the drill hole

Spacer installation system AMO®-Therm

High load-bearing spacer installation system with thermal separation on insulated and non-insulated surfaces



- Quick and easy installation
- Thermal bridge-reduced element for connecting and transferring loads from the attached part to the substrate

Secure attachment with approval for high loads in a wide range of building materials

When anchoring in a substrate with the injection mortars WIT-VM 250, WIT-VM 200 and WIT PM 200

Usable lengths from 80 to 300 mm can be covered with an AMO-Therm

Individual and flexible length setting using the adapter with commercially available threaded rods with acceptance test certificate 3.1

Connection thread (1)	M12
Material of the connection thread (2)	Stainless steel A4
Length (5)	80 mm

Diameter threaded rod (3)	Art. no.	P. Qty.
M12	0913 000 012	20
M16	0913 000 016	20

Spacer installation system AMO®-Therm

Adapter ATA with threaded fitting, zinc plated steel.
High load-bearing spacer installation system with thermal separation on insulated and non-insulated surfaces.



- Quick and easy installation
- Thermal bridge-reduced element for connecting and transferring loads from the attached part to the substrate

Secure attachment with approval for high loads in a wide range of building materials

When anchoring in a substrate with the injection mortars WIT-VM 250, WIT-VM 200 and WIT PM 200

Usable lengths from 80 to 300 mm can be covered with an AMO-Therm

Individual and flexible length setting using the adapter with commercially available threaded rods with acceptance test certificate 3.1

Connection thread (1)	M12
Material of the connection thread (2)	Stainless steel A4
Material of threaded rod (4)	Steel

Diameter threaded rod (3)	Length (5)	Art. no.	P. Qty.
M12	310 mm	0913 001 012	4
M16	385 mm	0913 001 016	4

Spacer installation system AMO®-Therm

High load-bearing spacer installation system with thermal separation on insulated and non-insulated surfaces. With pre-assembled threaded rod made of A4 stainless steel



- Quick and easy to install.
- Thermal bridge-reduced element for connecting and transferring loads from the attached part to the substrate

Secure attachment with approval for high loads in a wide range of building materials

When anchoring in a substrate with the injection mortars WIT-VM 250, WIT-VM 200 and WIT PM 200

Usable lengths from 80 to 300 mm can be covered with an AMO-Therm

Individual and flexible length setting using the adapter with commercially available threaded rods with acceptance test certificate 3.1

Connection thread (1)	M12
Material of the connection thread (2)	Stainless steel A4
Material of threaded rod (4)	Stainless steel A4

Diameter threaded rod (3)	Length (5)	Art. no.	P. Qty.
M12	310 mm	0913 002 012	4
M16	385 mm	0913 002 016	4

Carbide hole saw

For Amo®-Max

Diameter (Ø)	41 mm
Drilling depth	40 mm

Art. no. 0632 100 400

P. Qty.: 1



Test reports 031-02 and 05-141



Concrete fastener EUROFAST® ISPC

Prefitted concrete fastener for attaching insulation and roof sheeting on concrete surfaces

ETA-06/0007 approval, tested according to DIN 50018 = 15 Kesternich cycles

Material of the nail	Steel
Material of the disc	PA 6 - Polyamide 6
Plate thickness	3 mm
Anchor diameter	7.8 mm
Disc diameter	50 mm
Embedding depth (h nom)	35 mm
Drill hole depth (t)	45 mm
Drill cutting diameter (d cut)	8 mm
Colour	Blue
Approval	ETA-06/0007

Anchor length (l)	Insulating-material thickness	Funnel length	Art. no.	P. Qty.
45 mm	10 mm	45 mm	0838 050 045	250
75 mm	40 mm	75 mm	0838 050 075	250
95 mm	60 mm	95 mm	0838 050 095	250
115 mm	80 mm	115 mm	0838 050 115	250
135 mm	100 mm	135 mm	0838 050 135	250
155 mm	120 mm	155 mm	0838 050 155	250

Anchor length (l)	Insulating-material thickness	Funnel length	Art. no.	P. Qty.
175 mm	140 mm	175 mm	0838 050 175	250
195 mm	160 mm	195 mm	0838 050 195	250
215 mm	180 mm	215 mm	0838 050 215	250
245 mm	210 mm	245 mm	0838 050 245	125
280 mm	245 mm	280 mm	0838 050 280	125
300 mm	265 mm	300 mm	0838 050 300	125
330 mm	295 mm	330 mm	0838 050 330	125
350 mm	315 mm	350 mm	0838 050 350	125
380 mm	345 mm	380 mm	0838 050 380	125
410 mm	375 mm	410 mm	0838 050 410	125

Insulation anchor with expansion nail W-DSD

For fastening hard, self-supporting insulating materials such as polystyrene or expanded plastic slabs in concrete and masonry. Design with plate dia.Ø 50 mm



- High-quality material Anchor (PP), nail (ABS)
- Temperature-resistant from -40 °C to +80 °C
- For use in in-place installation

Material of the nail	Acrylonitrile butadiene styrene
Anchor diameter	10 mm
Disc diameter	50 mm
Embedding depth (h nom)	30 mm
Drill hole depth (t)	40 mm

Anchor length (l)	Insulating-material thickness	Art. no.	P. Qty.
70 mm	40 mm	0903 745 070	250
90 mm	60 mm	0903 745 090	250
110 mm	80 mm	0903 745 110	250
130 mm	100 mm	0903 745 130	200
150 mm	120 mm	0903 745 150	150
180 mm	150 mm	0903 745 180	150
210 mm	180 mm	0903 745 210	100

Metal insulation anchor W-MDD

For mounting insulation panels in concrete made from stainless steel. Tested fire resistance



Anchor diameter	9 mm
Disc diameter	35 mm
Nominal drill-bit diameter (d 0)	8 mm
Embedding depth (h nom)	40 mm

Anchor length (l) (l)	Type description	Material	Art. no.	P. Qty.
80 mm		Stainless steel A2	5921 018 080	250
80 mm	W-MDD	Steel	5921 008 080	250
110 mm		Stainless steel A2	5921 018 110	250
110 mm	W-MDD	Steel	5921 008 110	250

Anchor length (l) (l)	Type description	Material	Art. no.	P. Qty.
140 mm		Stainless steel A2	5921 018 140	250
140 mm	W-MDD	Steel	5921 008 140	250
170 mm		Stainless steel A2	5921 018 170	250
170 mm	W-MDD	Steel	5921 008 170	250
200 mm		Stainless steel A2	5921 018 200	250
200 mm	W-MDD	Steel	5921 008 200	250
250 mm		Stainless steel A2	5921 018 250	200
250 mm	W-MDD	Steel	5921 008 250	200
300 mm		Stainless steel A2	5921 018 300	200
300 mm	W-MDD	Steel	5921 008 300	200

The insulation panels must be fastened with at least 4 anchors per square metre.

Insulation screw W-IS

For attaching wood-wool panels and multilayer panels in concrete

- With white screw head (RAL 9003) and wood-wool structure, galvanised steel
- Drive: TX 30
- Push-through installation
- Immediate load-bearing capacity
- Low drill hole depth ($h_0 = 25$ mm)
- Low drill hole diameter ($d_0 = 6$ mm)
- Minimal anchorage depth
- Quick, easy installation by screwing in the insulation screw
- Virtually no expansion effect
- Easy to fully remove
- Quick, easy installation with a cordless screwdriver or tangential impact screwdriver
- Integral trim cap made of flame-retardant plastic



Head diameter	37 mm
Nominal drill-bit diameter (d 0)	6 mm
Through-hole in the component to be connected (d f)	8 mm

Length	Max. attachment height (t fix)	Art. no.	P. Qty.
50 mm	25 mm	0905 026 050	100
75 mm	50 mm	0905 026 075	100
85 mm	60 mm	0905 026 085	100
100 mm	75 mm	0905 026 100	100
125 mm	100 mm	0905 026 125	100
135 mm	110 mm	0905 026 135	100
150 mm	125 mm	0905 026 150	100
175 mm	150 mm	0905 026 175	100
200 mm	175 mm	0905 026 200	100
225 mm	200 mm	0905 026 225	100
250 mm	225 mm	0905 026 250	100

Fire resistance (anchoring base: concrete C20/25): F90 = 0.015 kN, exposure to fire according to DIN 4102-02:1977-09 (uniform temperature curve)



The anchor can be used to fasten insulation materials to internal ceilings where the total weight of the thermal insulation and covering does not exceed 15 kg/m².

Insulation fixing W-DH

For mounting insulation tarpaulins or films on a wooden substructure in conjunction with a suitable wood screw (e.g. ASSY 4)

- High-quality polypropylene (PP)
- Thermally stable from -40°C to +100°C
- Quick and easy installation
- Insulation disc can be used in conjunction with a nail anchor
- Insulation disc can be attached directly to wood with a particle board screw



Type description	W-DH
Inside diameter of hole (d hole)	9 mm
Disc height (h disc)	7 mm
Countersink diameter (d count)	14 mm

Disc diameter	Art. no.	P. Qty.
50 mm	0903 780 50	100
90 mm	0903 780 90	100



Ceiling nail W-DN

Easy mounting: Plug it in, drive it flush, and done! For the mounting of ceiling suspensions or C-profiles in dry walling. For concrete, zinc-plated steel

- Small drill hole depth, small drill hole diameter
- Immediate load-bearing capacity – no waiting
- No special drills or setting tools required

Multiple attachment of non-load-bearing systems in concrete: European Technical Approval ETA-12/0029

- Dimensioned in accordance with the European Technical Approval Guidelines (ETAG) for „Metal Anchors for Use in Concrete“, Appendix C, measurement process C
- Anchorage with European Technical Approval in cracked concrete (tension zone) and non-cracked concrete (compression zone)
- The anchor has European Technical Approval for use in reinforced or unreinforced standard concrete with a strength class of min. C20/25 and max. C50/60 in accordance with EN 206-1:2000-12

Fire resistance: R30, R60, R90, R120 (anchoring base: concrete C20/25 to C50/60): Technical Report TR 020 „Evaluation of anchorages in concrete concerning resistance to fire“ (included in ETA-12/0029)

Type description	W-DN
Material	Steel
Surface	Zinc plated
Anchor diameter	6 mm
Effective anchoring depth (h ef)	32 mm
Nominal drill-bit diameter (d 0)	6 mm

Drill hole depth (h 0)	40 mm
Through-hole in the component to be connected (d f)	7 mm

Length	Max. attachment height (t fix)	Art. no.	P. Qty.
40 mm	5 mm	0905 364 5	200
70 mm	35 mm	0905 36 35	200

Quick-action ceiling anchor W-DS/S with hook

Easy to install by hand. For suspensions in concrete, zinc plated steel, version with hook



- Quick and easy to install
- Less drilling effort
- No special drill or setting tool required
- Simple insertion process: Insert by hand, pull down sharply – done
- Anchorage via friction locking – controlled expansion anchor

Art. no. 0905 363 001

P. Qty.: 100

Multiple attachment of non-load-bearing systems in concrete: European Technical Approval ETA-13/0490

- Dimensioning in accordance with the "Guideline for European Technical Approval (ETAG) for metal anchors in concrete" Appendix C, Dimensioning method C
- The anchor has European Technical Approval for use in reinforced or non-reinforced standard concrete with a strength class of min. C20/25 and max. C50/60 in accordance with EN 206-1:2000-12.
- Multiple attachment of non-load-bearing systems; Anchorage with European Technical Approval in cracked concrete (tension zone) and non-cracked concrete (compression zone)



Concrete screw W-BS Compact type ST

Easy installation with cordless drill. Avoids hitting reinforcement due to very low insertion depth. For concrete, with connecting thread, ideal for mounting pipe clamps or spacer sleeves, zinc plated steel



- Quick and easy assembly without tangential impact screwdriver
- Time and cost-saving assembly
- Can be assembled by hand

Anchor size	6 mm
Anchor length (l)	28 mm
Head type	With connection thread
Max. attachment height (t fix)	3 mm
Material	Steel
Surface	Zinc plated

Internal drive	Art. no.	P. Qty.
	5929 586 628	100
TX25	5929 586 828	100

- ETA-15/0091 for multiple attachment of non-load-bearing systems in concrete
- Fire resistance: R30, R60, R90, R120; Technical Report TR020



The W-BS Compact can be mounted by hand.

If a cordless drill is used for assembly, it is recommended that at least 5 preliminary tests are performed on location to ensure the correct screwdriver setting and to prevent overtightening of the W-BS Compact. It is recommended that you start with the screwdriver's lowest torque setting and increase it if necessary.

A tangential impact screwdriver should not be used for assembly.

Concrete screw W-BS Compact type I

Easy installation with cordless drill. Avoids hitting reinforcement due to very low insertion depth. For concrete, with female thread (M8/M10), for threaded rod suspensions, zinc plated steel



- Quick and easy assembly without tangential impact screwdriver
- Time and cost-saving assembly
- Can be assembled by hand

Anchor size	6 mm
Anchor length (l)	40 mm
Head type	Hexagon head
Max. attachment height (t fix)	15
Material	Steel
Surface	Zinc plated

Art. no. 5929 570 601

P. Qty.: 50

- ETA-15/0091 for multiple attachment of non-load-bearing systems in concrete
- Fire resistance: R30, R60, R90, R120; Technical Report TR020



The W-BS Compact can be mounted by hand.

If a cordless drill is used for assembly, it is recommended that at least 5 preliminary tests are performed on location to ensure the correct screwdriver setting and to prevent over-tightening of the W-BS Compact. It is recommended that you start with the screwdriver's lowest torque setting and increase it if necessary.

A tangential impact screwdriver should not be used for assembly.

Concrete screw W-BS Compact type LP

Easy installation with cordless drill. Avoids hitting reinforcement due to very low insertion depth. With large pan head, ideal for attaching small mounting rails to concrete, zinc plated steel



- Quick and easy installation without the need for a tangential impact screwdriver
- Time and cost-saving assembly
- Can be assembled by hand

Anchor size	6 mm
Head type	Pan head
Material	Steel
Surface	Zinc plated
Internal drive	TX30
Head diameter	17.6 mm

Anchor length (l)	Max. attachment height (t fix)	Art. no.	P. Qty.
28 mm	3 mm	5929 556 028	100
40 mm	15 mm	5929 556 040	100

- ETA-15/0091 for multiple attachment of non-load-bearing systems in concrete
- Fire resistance: R30, R60, R90, R120; Technical Report TR020

The W-BS Compact can be mounted by hand.

If a cordless drill is used for assembly, it is recommended that at least 5 preliminary tests are performed on location to ensure the correct screwdriver setting and to prevent overtightening of the W-BS Compact. It is recommended that you start with the screwdriver's lowest torque setting and increase it if necessary.

A tangential impact screwdriver must not be used for assembly.

Impact anchor W-SD

Push-through installation anchor for wood, metal and panel materials. For concrete

Stop bits must be used



Anchors and stop bits form a perfectly coordinated system. This system unit prevents installation errors and ensures attachment as stipulated in the approval.

- Installation type: Push-through installation
- Small drill hole depth (W-SD 6: 32 mm; W-SD 6L: 42 mm; W-SD 8: 43 mm)
- Low minimum component thickness ($h_{min} = 80$ mm)
- Small drill hole diameter
- Immediate load-bearing capacity – no waiting after insertion
- Easy insertion – no installation torque
- Anchorage via friction locking – distance-controlled expanding anchor

Anchor diameter	6 mm
Max. attachment height (t fix)	4 mm
Nominal drill-bit diameter (d 0)	6 mm

Anchor length (l) (l)	Type description	Art. no.	P. Qty.
38 mm	W-SD M6	0905 700 400	100
48 mm	W-SD M6L	0905 700 404	100/600

Multiple attachment of non-load-bearing systems in concrete

European Technical Approval ETA-07/0138

Dimensioned in accordance with the European Technical Approval Guidelines (ETAG) for „Metal Anchors for Use in Concrete“, Appendix C, measurement process C

Fire resistance (anchoring base: concrete C20/25 to C50/60): R30, R60, R90, R120 (W-SD M6L, W-SD M8): Technical Report TR 020 „Evaluation of anchorages in concrete concerning resistance to fire“ (included in ETA-07/0138)



**Fire protection
certified**

The partial safety factors of the resistances regulated in the approval and a partial safety factor of the effects of $\gamma_F = 1.4$ have been taken into account. Please refer to the European Technical Approval Guidelines (ETAG), Appendix C, for information on combining tensile and transverse loads, edge influence and groups of anchors.

The partial safety factors for load-bearing capacity on exposure to fire of $\gamma_{M,fi} = 1.0$ as recommended in the approval and the partial safety factor of the effects of $\gamma_F = 1.0$ have been taken into account.

Carbide masonry drills must comply with the specifications set out in the code of practice of the German institute of building technology (DIBt) and the Association of German Tool Manufacturers (FWI) on the characteristics, requirements and tests of masonry drills with carbide cutting inserts used to drill holes for fixing anchors. Würth hammer drills meet the specifications set out in the code of practice.

Stop bit SDS

For impact anchor W-SD



Type description	Drilling length up to collar (l drl)	Art. no.	P. Qty.
SDS 1	32 mm	0905 700 001	1
SDS 2	42 mm	0905 700 002	1
W-SDS 8x43	43 mm	0905 700 009	1

Setting tool

For impact anchor W-SD

For mason's mallet



Type description	Art. no.	P. Qty.
SW 6	0905 700 501	1
SWM H	0905 700 505	1

Impact anchor W-SD

With a female thread for threaded rods, threaded pieces etc., for concrete

Stop bits must be used

Anchors and stop bits form a perfectly coordinated system. This system unit prevents installation errors and ensures attachment as stipulated in the approval.



- Small drill hole depth
- Small drill hole diameter
- Low minimum component thickness ($h_{\min} = 80 \text{ mm}$)
- Immediate load-bearing capacity – no waiting after insertion
- Easy insertion – no installation torque
- Anchorage via friction locking – distance-controlled expanding anchor

Female thread	8 mm
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Anchor length (l) (l)	Nominal drill-bit diameter (d 0)	Type description	Art. no.	P. Qty.
52.5 mm	6 mm	W-SD 6L-IG	0905 700 200	100
61 mm	8 mm	W-SD 8-IG	0905 700 210	50

- Multiple attachment of non-load-bearing systems in concrete: European Technical Approval ETA-07/0138
- Dimensioned in accordance with the European Technical Approval Guidelines (ETAG) for „Metal Anchors for Use in Concrete“, Appendix C, measurement process C
- Fire resistance (anchoring base: concrete C20/25 to C50/60): R30, R60, R90, R120 (W-SD M6L, W-SD M8): Technical Report TR 020 „Evaluation of anchorages in concrete concerning resistance to fire“ (included in ETA-07/0138)



**Fire protection
certified**

- The partial safety factors of the resistances regulated in the approval and a partial safety factor of the effects of $\gamma_F = 1.4$ have been taken into account. Please refer to the European Technical Approval Guidelines (ETAG), Appendix C, for information on combining tensile and transverse loads, edge influence and groups of anchors.
- The partial safety factors for load-bearing capacity on exposure to fire of $\gamma_{M,fi} = 1.0$ as recommended in the approval and the partial safety factor of the effects of $\gamma_F = 1.0$ have been taken into account.
- Carbide masonry drills must comply with the specifications set out in the code of practice of the German institute of building technology (DIBt) and the Association of German Tool Manufacturers (FWI) on the characteristics, requirements and tests of masonry drills with carbide cutting inserts used to drill holes for fixing anchors. Würth hammer drills meet the specifications set out in the code of practice.

Nail anchor W-NA with M6 thread

Extremely easy to install: Position, hammer, done!
Ideal for mounting parts that need to be dismantled again. For concrete, with connecting thread M6, washer and nut, zinc plated steel



Quick and easy installation

- Less drilling required thanks to reduced anchorage depth of 25 mm
- Easy insertion: Simply knock in – no torque required
- No special drills or setting tools required

Very low edge and axial clearances possible

Anchor diameter	6 mm
Nominal drill-bit diameter (d 0)	6 mm
Effective anchoring depth (h ef)	30 mm
Effective anchoring depth reduced (h ef, red)	25 mm
Drill hole depth (h 0)	40 mm
Drill hole depth reduced (h 0, red)	35 mm
Minimum component thickness (h min)	80 mm
Through-hole in the component to be connected (d f)	7 mm
Material	Steel
Surface	Zinc plated

Anchor length (l)	Min./max. height of the fixture (t fix)	Art. no.	P. Qty.
44 mm	0-5 mm	0905 362 005	200
49 mm	5-10 mm	0905 362 010	200
54 mm	10-15 mm	0905 362 015	200

- Multiple attachment of non-load-bearing systems in concrete: European Technical Approval ETA-11/0339
- Fire resistance: R30, R60, R90, R120 (anchoring base: concrete C20/25 to C50/60): Technical Report TR 020 „Evaluation of anchorages in concrete concerning resistance to fire“ (included in ETA-11/0339)



The nail anchor offers the benefits of a bolt anchor while also being easy to install; the nail anchor is simply knocked into the drill hole through the attached part.

Nail anchor W-NA-K with nail head

Quick and easy installation: Position, hammer, done!
Ideal for secure mounting of ceiling suspensions, C-profiles and panels. For concrete, with nail head, zinc plated



- Quick and easy installation
- Very low edge and axial clearances possible
- Torque-controlled expanding anchor – expands when subjected to load

Anchor diameter	6 mm
Nominal drill-bit diameter (d 0)	6 mm
Effective anchoring depth (h ef)	30 mm
Effective anchoring depth reduced (h ef, red)	25 mm
Drill hole depth (h 0)	40 mm
Drill hole depth reduced (h 0, red)	35 mm
Minimum component thickness (h min)	80 mm
Through-hole in the component to be connected (d f)	7 mm
Material	Steel
Surface	Zinc plated

Anchor length (l)	Min./max. height of the fixture (t fix)	Art. no.	P. Qty.
39 mm	0-5 mm	0905 361 005	200
44 mm	5-10 mm	0905 361 010	200
69 mm	30-35 mm	0905 361 035	200
89 mm	50-55 mm	0905 361 055	100

- Multiple attachment of non-load-bearing systems in concrete: European Technical Approval ETA-11/0339
- Fire resistance: R30, R60, R90, R120 (anchoring base: concrete C20/25 to C50/60): Technical Report TR 020 „Evaluation of anchorages in concrete concerning resistance to fire“ (included in ETA-11/0339)



The nail anchor offers the benefits of a bolt anchor while also being easy to install; the nail anchor is simply knocked into the drill hole through the attached part

Nail anchor W-NA-K/A4 with nail head

Quick and easy installation: Position, hammer, done!
Ideal for secure mounting of ceiling suspensions, C-profiles and panels. For concrete, with nail head, A4 stainless steel



Fast and simple installation

- Less drilling required thanks to reduced anchorage depth of 25 mm
- Easy insertion: Simply knock in – no torque required
- No special drills or setting tools required

Push-through installation

Very low edge and axial clearances possible

Elegant, attractive design

Torque-controlled expanding anchor — expands when subjected to load

Anchor diameter	6 mm
Nominal drill-bit diameter (d 0)	6 mm
Effective anchoring depth (h ef)	30 mm
Effective anchoring depth reduced (h ef, red)	25 mm
Drill hole depth (h 0)	40 mm
Drill hole depth reduced (h 0, red)	35 mm

Minimum component thickness (h min)	80 mm
Through-hole in the component to be connected (d f)	7 mm
Material	Stainless steel A4, 1.4401
Surface	Plain

Anchor length (l)	Min./max. height of the fixture (t fix)	Art. no.	P. Qty.
44 mm	5-10 mm	0905 371 005	200
69 mm	30-35 mm	0905 371 030	200

- Multiple attachment of non-load-bearing systems in concrete: European Technical Approval ETA-11/0339
- Fire resistance: R30, R60, R90, R120 (anchoring base: concrete C20/25 to C50/60): Technical Report TR 020 „Evaluation of anchorages in concrete concerning resistance to fire“ (included in ETA-11/0339)
- Fire-tested in line with the ZTV tunnel fire curve in the cracked tension zone



The nail anchor offers the benefits of a bolt anchor while also being easy to install; the nail anchor is simply knocked into the drill hole through the attached part

Nail anchor W-NA-K/HCR with nail head

Quick and easy installation: Position, hammer, done!
Ideal for secure mounting of ceiling suspensions, C-profiles and panels. For concrete, with nail head, highly corrosion-resistant steel HCR



Fast and simple installation

- Less drilling required thanks to reduced anchorage depth of 25 mm
- Easy insertion: Simply knock in – no torque required
- No special drills or setting tools required

Push-through installation

Very low edge and axial clearances possible

Elegant, attractive design

Torque-controlled expanding anchor – expands when subjected to load

Anchor diameter	6 mm
Nominal drill-bit diameter (d 0)	6 mm
Effective anchoring depth (h ef)	30 mm
Effective anchoring depth reduced (h ef, red)	25 mm
Drill hole depth (h 0)	40 mm
Drill hole depth reduced (h 0, red)	35 mm
Minimum component thickness (h min)	80 mm
Through-hole in the component to be connected (d f)	7 mm
Material	High corrosion-resistant steel, 1.4529 X1NiCrMoCuN25-20-7
Surface	Plain

Anchor length (l)	Min./max. height of the fixture (t fix)	Art. no.	P. Qty.
44 mm	0-5 mm	0905 381 005	200
69 mm	30-35 mm	0905 381 030	200

- Multiple attachment of non-load-bearing systems in concrete: European Technical Approval ETA-11/0339
- Fire resistance: R30, R60, R90, R120 (anchoring base: concrete C20/25 to C50/60): Technical Report TR 020 „Evaluation of anchorages in concrete concerning resistance to fire“ (included in ETA-11/0339)
- Fire-tested in line with the ZTV tunnel fire curve in the cracked tension zone



Not possible to order S-24!

The nail anchor offers the benefits of a bolt anchor while also being easy to install; the nail anchor is simply knocked into the drill hole through the attached part

Nail anchor W-NA-M with threaded rods M8/M10

Ideal for suspensions with M8 or M10 threaded rods (step thread). For concrete, zinc-plated steel

Fast and simple installation

- Less drilling required thanks to reduced anchorage depth of 25 mm
- Easy insertion: Simply knock in – no torque required
- No special drills or setting tools required

Push-through installation

Compatible with both M8 and M10 threaded rods thanks to step thread

Very low edge and axial clearances possible

Torque-controlled expanding anchor – expands when subjected to load



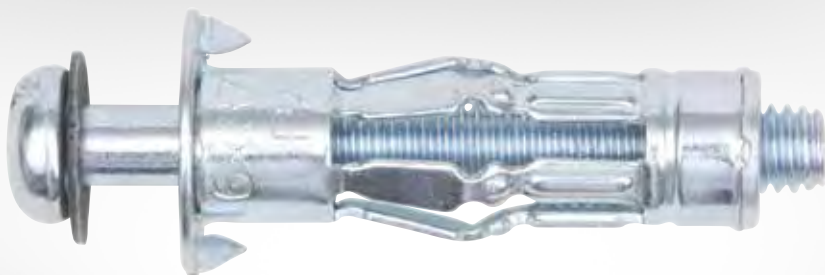
Anchor diameter	6 mm
Min./max. height of the fixture (t fix)	0-0 mm
Nominal drill-bit diameter (d 0)	6 mm
Minimum component thickness (h min)	80 mm
Through-hole in the component to be connected (d f)	9 mm
Material	Steel
Surface	Zinc plated

Anchor length (l)	Effective anchoring depth (h ef)	Effective anchoring depth reduced (h ef, red)	Drill hole depth (h 0)	Drill hole depth reduced (h 0 red) (Drill hole depth reduced (h 0, red))	Art. no.	P. Qty.
58 mm	25 mm		35 mm		0905 361 008	100
63 mm	30 mm	25 mm	40 mm	35 mm	0905 361 009	100

- Multiple attachment of non-load-bearing systems in concrete: European Technical Assessment ETA-11/0339
- Fire resistance: R30, R60, R90, R120 (anchoring base: concrete C20/25 to C50/60): Technical Report TR 020 „Evaluation of anchorages in concrete concerning resistance to fire“ (included in ETA-11/0339)



The nail anchor offers the benefits of a bolt anchor while also being easy to install; the nail anchor is simply knocked into the drill hole through the attached part.



Metal cavity anchor W-MH/L pan head screw

The proven solution for easy and secure fastening in all types of cavity walls. For setting with manual assembly pliers

- Excellent holding power due to spreading supporting elements with large contact radius
- Simple setting with associated mounting pliers
- Pre-assembled with metric pan head screw

Type description	W-MH/L
Design	With pan head screw
Material	Steel
Surface	Zinc plated

Thread type x anchor diameter	Min./max. board thickness/mirror thickness (d a)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
M4	8-20 mm	8 mm	0903 524 46	100
M4	8-15 mm	8 mm	0903 524 40	100
M4	18-28 mm	8 mm	0903 524 54	100
M4	32-38 mm	8 mm	0903 524 59	100
M5	5-16 mm	10 mm	0903 525 53	100
M5	5-13 mm	10 mm	0903 525 37	100
M5	16-32 mm	10 mm	0903 525 65	100
M5	32-45 mm	10 mm	0903 525 80	100
M6	5-16 mm	12 mm	0903 526 55	100

Thread type x anchor diameter	Min./max. board thickness/mirror thickness (d a)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
M6	5-13 mm	12 mm	0903 526 37	100
M6	16-32 mm	12 mm	0903 526 66	100
M6	32-45 mm	12 mm	0903 526 81	100

Manual mounting pliers

For the optimal spreading of cavity anchor W-MH



Type description	Length	Art. no.	P. Qty.
	240 mm	0903 20	1
With ratchet-function	200	0903 201	1

Spring-loaded anchor Type W-FK

For attachments to cavity walls or false ceilings, suitable for various panel thicknesses and large usable lengths. With washer and MS knurled nut

- The spring toggle expands automatically in any position
- The design of a spring toggle means it does not need to be inserted as deeply in a cavity as a toggle dowel
- Zinc-plated steel
- Fully pre-assembled
- Anti-rotation lock (claws) prevents movement during installation
- Load distributed over large surface area to ensure good holding power



Type description	W-FK
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Anchor diameter	Hole diameter in component (d Bau)	Minimum cavity depth (h)	Nominal drill-bit diameter (d 0)	Max. attachment height (d a)	Art. no.	P. Qty.
3 mm	4 mm	30 mm	11 mm	65 mm	0904 731	25
4 mm	5 mm	40 mm	14 mm	69 mm	0904 741	25

Spring-loaded anchor Type W-FKH

With washer, nut and hook, zinc-plated steel. For secondary attachments in hollow walls, hollow ceilings or panel building materials of all kinds

- The spring toggle expands automatically in any position
- The design of a spring toggle means it does not need to be inserted as deeply in a cavity as a toggle anchor
- Fully pre-assembled
- Anti-rotation lock (claws) prevents movement during installation



Type description	W-FKH
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Anchor diameter	Hole diameter in component (d Bau)	Minimum cavity depth (h)	Nominal drill-bit diameter (d 0)	Max. attachment height (d a)	Art. no.	P. Qty.
3 mm	4 mm	30 mm	11 mm	65 mm	0904 732	25
4 mm	5 mm	40 mm	14 mm	69 mm	0904 742	25

Spring-loaded anchor Type W-FKW

With centring plug, polyamide flush sleeve and M10 hexagon nut. Specially designed for sanitary fixtures in hollow walls, suitable for different panel thicknesses

- The spring toggle expands automatically in any position
- The design of a spring toggle means it does not need to be inserted as deeply in a cavity as a toggle anchor
- Fully pre-assembled
- Anti-rotation lock (claws) prevents movement during installation



Type description	W-FKW
Anchor diameter	10 mm
Hole diameter in component (d Bau)	14 mm
Minimum cavity depth (h)	90 mm
Nominal drill-bit diameter (d 0)	30 mm
Max. attachment height (d a)	140 mm

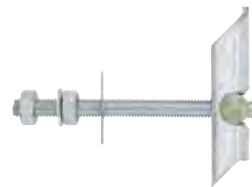
Art. no. 0904 710 002

P. Qty.: 25

Tilting anchor W-KD

With washer and hexagon nut, zinc-plated steel. For secondary attachments in hollow walls, hollow ceilings and various sandwich elements

- Fully pre-assembled
- The toggle anchor locks itself into the substrate
- The rotatable threaded rod allows each attachment point to be adjusted individually, e.g. when creating a slope



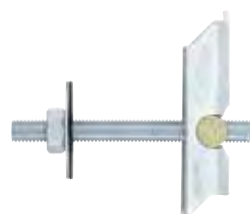
Type description	W-KD
Anchor length (l)	100 mm
Design	With washer and nut

Anchor diameter	Hole diameter in component (d Bau)	Art. no.	P. Qty.
5 mm	6 mm	0904 751	25
6 mm	7 mm	0904 761	25
8 mm	9 mm	0904 781	25

Tilting anchor W-KD-TB

Includes washer, sealing washer made of hypalon and hexagon nut. Specially designed for VdS-compliant securing of pipes in hollow walls, hollow ceilings and various sandwich elements

- Fully pre-assembled
- The toggle anchor locks itself into the substrate
- The rotatable threaded rod allows each attachment point to be adjusted individually, e.g. when creating a slope



Type description	W-KD-TB
Design	With washer, sealing washer and hexagon nut

Anchor diameter	Anchor length (l)	Hole diameter in component (d Bau)	Art. no.	P. Qty.
8 mm	100 mm	9 mm	0862 540 0	50
8 mm	200 mm	9 mm	0862 541 0	25
10 mm	100 mm	11 mm	0862 544 0	25
10 mm	200 mm	11 mm	0862 545 0	25

Stationary water extinguishing systems from M8



Tilting anchor W-KDH

With washer, nut and hook. For secondary attachments in hollow walls, hollow ceilings and various sandwich elements

- Fully pre-assembled
- The toggle anchor locks itself into the substrate
- The rotatable threaded rod allows each attachment point to be adjusted individually, e.g. when creating a slope

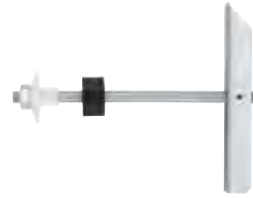


Design	With washer, nut and hook
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Type description	Anchor diameter	Anchor length (l)	Hole diameter in component (d Bau)	Art. no.	P. Qty.
W-KD	5 mm	100 mm	6 mm	0904 752	25
W-KDH	6 mm	130 mm	7 mm	0904 762	20
W-KDH	8 mm	130 mm	9 mm	0904 782	25

Tilting anchor W-KDW

Specially designed for mounting washbasins, wall-hung toilets etc. to cavity walls or supply shafts. With extra-large bearing surface. With centring plug, polyamide collar sleeve and hexagon nut.



- Galvanised steel
- Fully pre-assembled
- The tilting anchor bolts itself into the surface
- Large contact surface for soft materials
- The rotating threaded rod allows each attachment point to be adjusted individually, e.g. for an inclined attachment
- Large contact surface for soft materials, even with a minimal cavity depth of only 90 mm

Type description	W-KDW
Anchor diameter	10 mm
Hole diameter in component (d Bau)	14 mm
Design	Rubber spacer, collar and hexagon nut

Anchor length (l)	Art. no.	P. Qty.
130 mm	0904 710 003	25
180 mm	0904 710 001	25

Cavity anchor W-HR

Universal cavity anchor for metric screws, suitable for all plate thicknesses (10 to 51 mm). Can be applied without a setting tool



- Large load supporting surface ensures good holding power
- Universal clamping range
- Quick, easy installation without setting tools
- Immediate load-bearing capacity – no waiting
- All types of metric screw heads can be used
- Removable screw

Min./max. board thickness/ mirror thickness (d a)	10-51 mm
Material	Steel/plastic
Surface	Zinc plated

Type description	Thread type x anchor diameter	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
W-HR 5	M5	12 mm	0904 720 5	50
W-HR 6	M6	12 mm	0904 720 6	50
W-HR 8	M8	18 mm	0904 720 8	25

Useful information:

Loads must be introduced into lightweight partition walls in accordance with DIN 18183-1:2009-05 relating to partitions and facings with gypsum boards on metal framing.



Plasterboard plug W-GS Type ZD

made of die-cast zinc. For quick and easy installation in gypsum plasterboard/gypsum fibreboard, without pre-drilling and without additional setting tool

- High-quality die-cast zinc
- Attachment via positive locking
- Patented rotation lock: when the screw is unscrewed, the plasterboard plug does not turn in the reverse direction, but remains in the anchoring base

Material	Die-cast zinc
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Type description	Anchor length (l)	Art. no.	P. Qty.
W-GS/ZD	33 mm	0903 252 1	200
W-GS/ZD-L	39 mm	0903 253 1	200

Plasterboard plug W-GS Type K

Made of sustainable regranulate with a reinforced centring tip. For cheap and fast installation in gypsum plasterboard, without the need for pre-drilling or an additional setting tool, with patented hexagon drive



- Attachment via positive locking
- Quick installation using a cordless screwdriver and matching bit thanks to the patented drive
- Patented rotation lock: when the screw is unscrewed, the plasterboard plug does not turn in the reverse direction, but remains in the anchoring base

Type description	W-GS/K
Anchor length (l) (l)	33 mm
Material	Plastic

Art. no. 0903 251 1

P. Qty.: 200

- To attach the component, use the ASSY®-D 4.5 mm-diameter plug screw or a wood/particle board screw without drill bit tip, counter thread or ring thread
- Use in damp areas in combination with a stainless steel screw
- Type K made from fibreglass-reinforced plastic is suitable for standard gypsum panels

Multi-purpose metal anchor W-MG

Drop-in anchor for secondary attachments on porous surfaces, e.g. pumice, lightweight or aerated concrete. Zinc-plated steel



- Can be used in various surfaces: Aerated concrete class AC2/AC4, perforated brick, pumice, lightweight concrete
- The anchor is knocked into class AC2 aerated concrete until flush without pre-drilling
- Easy installation
- For use in cotter-pin installation
- The W-MG 8 metal anchor used in conjunction with the M8 stud screw meets the requirements of the German technical guidelines for gas installations (TRGI). Item 3.3.7.2 of these guidelines stipulates the requirements for laying the inner pipes: „Pipe attachments must be fire resistant. The supporting parts of pipe attachments must be made of non-flammable materials.“
- Wood and particle board screws can be used
- Galvanised steel

Anchor diameter	Anchor length (l) (l)	Nominal drill-bit diameter in PB 4 (d 0)	Nominal drill-bit diameter in perforated brick (d 0)	Nominal drill-bit diameter in pumice (d 0)	Art. no.	P. Qty.
5 mm	30.5 mm	3 mm	6 mm	5 mm	0905 305	200
6 mm	32 mm	3.5 mm	8 mm	6 mm	0905 306	200
8 mm	38 mm	6 mm	10 mm	8 mm	0905 308	200
8 mm	60 mm	6 mm	10 mm	8 mm	0905 308 60	100
10 mm	60 mm	8 mm	14 mm	12 mm	0905 310	100

- Fire resistance: F30, F60, F90 and F120 (anchoring base: Vertically perforated brick, VPB ≥ 12, hollow sand-lime brick, HSLB ≥ 12, aerated concrete, strength class ≥ 4), exposure to fire according to DIN 4102-2:1977-09 (uniform temperature time curve)



Screw anchor WG-FIX, pan head

Universal screw anchor for easy ancillary attachments in solid brick and gypsum plasterboard

- Quick, easy installation
- AW drive for longer bit service life, improved power transmission and no ejection forces
- Panhead variant for large surface area



Max. attachment height (d a)	2.5 mm
Anchor length (l)	30 mm
Material	Steel
Surface	Zinc plated
Nominal drill-bit diameter (d 0)	4 mm

Art. no. 0189 363 30

P. Qty.: 250

Screw in with high extra load, low rotation speed and torque limiter. Stop screwing in once the screw is firmly seated. Insert screw into gypsum plasterboard without pre-drilling.

Screw anchor WG-FIX, raised countersunk head

Universal screw anchor for easy ancillary attachments in solid brick and gypsum plasterboard

- Quick, easy installation
- AW drive for longer bit service life, improved power transmission and no ejection forces.
- Raised countersunk head version for neat, easy countersinking
- HiLo thread for elevated over-torque
- High thread pitch allows fast screw insertion.



Max. attachment height (d a)	16 mm
Anchor length (l)	45 mm
Material	Steel
Surface	Zinc plated
Nominal drill-bit diameter (d 0)	4 mm

Art. no. 0189 306 345

P. Qty.: 250

Screw in with high extra load, low rotation speed and torque limiter. Stop screwing in once the screw is firmly seated. Insert screw into gypsum plasterboard without pre-drilling.

Lightweight construction anchor W-KL

**Anchor made of ABS plastic for secondary mountings.
Use in conjunction with a suitable plug screw**



- High-quality ABS
- Fully resistant to rotting
- Thermally stable from -40°C to + 80°C
- Attachment via positive locking
- Anchorage without expansion pressure
- Small edge and axial clearance possible
- For mounting, we recommend the ASSY-D plug screw

Material	ABS
Anchor diameter	18 mm
Type description	W-KL

Art. no. 0903 50

P. Qty.: 100

Insulation anchor W-ID SLIM

A clever, simple problem solver for fixing lightweight loads on external thermal insulation composite systems (ETICS)



- The special thread geometry makes it extremely easy to screw into the insulation
- For optimal processing, the mounting part must have a through hole of min. 8 mm and max. 12 mm
- Thanks to the drill tip, the anchor penetrates effortlessly through the plaster and sealing layer

Material	Die-cast zinc
Material of the screw	Stainless steel A2

Anchor length (l)	Head diameter (ds)	Colour	Art. no.	P. Qty.
62.7 mm	15 mm		5925 108 015	100
62.7 mm	15 mm	Anthracite grey RAL 7016	5925 118 015	100
62.7 mm	15 mm	Black	5925 138 015	100
62.7 mm	15 mm	Mouse grey RAL 7005	5925 148 015	100
62.7 mm	15 mm	White	5925 128 015	100
63.2 mm	20 mm		5925 108 020	100

Insulation anchor W-ID Easy

The quick, easy and efficient way to attach light loads to external thermal insulation composite systems (ETICS)

- No complicated spaced installation for light loads
- For attaching closure panels in insulating boards (e.g. external walls with thermal insulation composite systems)
- Suitable for use outdoors and in wet rooms – stainless steel A2 screw and washer
- Thermal bridges do not occur because the anchor does not penetrate the masonry
- The anchor is used in push-through installation

Permits time and cost-saving installation on the construction site

- Metal sheets can be prepared in the workshop
- Can be installed by one person without the need to change tools
- No need to pre-drill in masonry or thermal insulation composite systems

Anchor length (l)	45 mm
Head diameter (ds)	15 mm
Material	Stainless steel A2
Material of the screw	Stainless steel A2
Colour	Stainless steel, polished/matt

Art. no. 0903 500 910

P. Qty.: 100

Optional accessory: Manual hole punch for making round through-holes in the sheet metal part to be anchored (the holes can also be drilled in the sheet metal part).



Aerated concrete anchor W-GB

Plastic anchor designed specifically for aerated concrete

- Three-segment plastic anchor specifically for use in aerated concrete
- Three-way division for almost positive locking anchoring in soft, aerated concrete
- Matched to specific screw diameters
- Attachment with cotter-pin installation
- When the anchor is tapped into the pre-drilled hole, the segments that protrude over the core diameter burrow into the aerated concrete. As a result, positive locking occurs when the screw is then inserted.
- For mounting, we recommend the ASSY-D plug screw



Anchor diameter	Anchor length (l)	Anchoring depth (h v)	Nominal drill-bit diameter (d 0)	Drill hole depth (t)	Art. no.	P. Qty.
10 mm	55 mm	55 mm	10 mm	65 mm	0903 50 10	25
12 mm	60 mm	60 mm	12 mm	70 mm	0903 50 12	25
14 mm	75 mm	75 mm	14 mm	85 mm	0903 50 14	25



Amo® III spacing assembly screw 7.5 type 2 cheese head 8.0 mm

For mounting windows in concrete and solid stone masonry. With small cylinder head. Zinc-plated steel, blue coated, AW30 drive.

- Short installation times, no setting tool or anchor required
- AW drive for longer bit service life and improved power transmission
- Load-bearing capacity is retained even under thermal stress

Fire protection test report no. 3174/0649-2 dated 12 January 2000 in concrete

Test of suitability for attaching a flood-proof window in accordance with ift directive FE-07/1 conducted by the ift Rosenheim Institute.

Test report no. 202 31790 dated 17 May 2006

Component test with frame screws to attach a glazed plastic door (window casement weight 72.5 kg) to a structure without lateral supports or sand-lime brick masonry.

Tests carried out without lateral support and spacer blocks, ift Rosenheim: Test report 105 34261 dated 21 November 2007

Component test with frame screws to attach a glazed plastic door (window casement weight 70 kg) to a structure without lateral supports or sand-lime brick masonry.

Testing carried out without any lateral supports or spacer blocks.

ift Rosenheim: Test report 105 35697 dated 31 March 2008

Component test with frame screws to attach a glazed plastic door (window casement weight 70 kg, screw connection in profile without steel reinforcement) to a structure without lateral supports or sand-lime brick masonry.

Testing carried out without any lateral supports or spacer blocks.

ift Rosenheim: Test report 105 43036 dated 21 October 2010

Thread diameter (d)	7.5 mm
Material	Steel

Surface	Zinc plated
Head type	Socket head
Head diameter (dk)	8 mm
Internal drive	AW30

Length (l)	Art. no.	P. Qty.
72 mm	0234 830 72	200
82 mm	0234 830 82	200
92 mm	0234 830 92	200
102 mm	0234 830 102	200
112 mm	0234 830 112	200
122 mm	0234 830 122	200
132 mm	0234 830 132	200
152 mm	0234 830 152	200
182 mm	0234 830 182	200
212 mm	0234 830 212	100
252 mm	0234 830 252	100
302 mm	0234 830 302	100

Amo® III spacing assembly screw 7.5 type cheese head 7.5 mm

For mounting windows in concrete and solid stone masonry. Particularly small cylinder head for screw insertion with narrow window rebates. Zinc-plated steel, blue coated, AW25 drive.



- Positive-locking, removable anchorage with no expansion pressure
- Load-bearing function is retained, even under thermal load
- Tested fire resistance duration of 120 minutes
- Time saving – no anchor necessary
- Short installation times, as no tools are required for insertion
- AW drive for longer bit service life, improved power transmission and no ejection forces
- Through-hole mounting
- Immediate load-bearing capacity – no waiting after insertion
- Positive locking for high load-bearing capacity
- Removable
- Virtually no expansion forces on insertion

Thread diameter (d)	7.5 mm
Material	Steel
Surface	Zinc plated
Head type	Socket head
Head diameter (dk)	7.5 mm
Internal drive	AW25

Length (l)	Art. no.	P. Qty.
102 mm	0234 825 102	200
112 mm	0234 825 112	200
122 mm	0234 825 122	200
132 mm	0234 825 132	200

Length (l)	Art. no.	P. Qty.
152 mm	0234 825 152	200
182 mm	0234 825 182	200
212 mm	0234 825 212	100

Fire protection test report no. 3174/0649-2 dated 12 January 2000

Test of suitability for attaching a flood-proof window in accordance with ift directive FE-07/1 conducted by the ift Rosenheim Institute. Test report no. 202 31790 dated 17 May 2006

Testing a fastening element: Evaluation of test results for practical use in window installation by the ift Rosenheim Institute. Test report no. 23511241/2 dated 13 February 1990

Test of suitability for fastening a window to a brick masonry structure by ift Rosenheim. Test report no. 50922462 dated 11 October 2000



Information for use

Guidelines for planning and executing the installation of windows and exterior doors, 2010 edition

Art. no. 5995 000 000:

The fixture must safely transfer all standard forces affecting the window to the structure and the foundation. The total load must therefore be calculated from e.g. the window load, wind load and working load (see DIN 1055). The currently applicable building regulations stipulate that buildings and their components must be planned in such a way that they do not endanger human life and health or pose a risk to public safety. Attachment of the windows must also comply with this criterion.

Window walls according to former DIN 18056 standard or elements with a surface greater than 9 m² and accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4

The DIN 18056 standard applied to window walls with a minimum surface area of 9 m² and a minimum side length of 2 m on the shortest side. Anchors with a general construction permit or European Technical Approval or with individual approval should be used for this application. Similarly, only anchors with a general construction permit or European Technical Approval or with individual approval must be used to attach accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4.

Other information

It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties, hole pattern in the brick). Accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4 may only be attached with the AMO Combi screw if appropriate individual approval has been obtained before installation starts.

Drill perforated and hollow blocks with a rotary drill (without impact mechanism)

Drill perforated and hollow blocks with a rotary drill (without impact mechanism)

Align window frames using alignment clamps or Amo® Bag

Screw length = frame width + gap + screw-in depth (see also 55.2 Amo® III 11.5 mm)

Amo® III spacing assembly screw 7.5 TYPE 3 half round head

For mounting windows in concrete and solid stone masonry. With large flat head, lies cleanly on the frame and can be optimally covered with cover caps.



Zinc-plated steel, blue passivated, AW30 drive.

- Positive-locking, removable anchorage with no expansion pressure
- Load-bearing capacity is retained even under thermal stress
- AW drive for longer bit service life, improved power transmission and no ejection forces

Thread diameter (d)	7.5 mm
Material	Steel
Surface	Zinc plated
Head type	Button head
Head diameter (dk)	12.5 mm
Internal drive	AW30

Length (l)	Art. no.	P. Qty.
32 mm	0234 930 32	200
42 mm	0234 930 42	200
52 mm	0234 930 52	200
62 mm	0234 930 62	200
72 mm	0234 930 72	200
82 mm	0234 930 82	200
92 mm	0234 930 92	200
102 mm	0234 930 102	200
112 mm	0234 930 112	200
122 mm	0234 930 122	200
132 mm	0234 930 132	200
152 mm	0234 930 152	200
182 mm	0234 930 182	200
212 mm	0234 930 212	100

Fire protection test report no. 3174/0649-2 dated 12 January 2000

Test of suitability for attaching a flood-proof window in accordance with ift directive FE-07/1 conducted by the ift Rosenheim Institute. Test report no. 202 31790 dated 17 May 2006

Testing a fastening element: Evaluation of test results for practical use in window installation by the ift Rosenheim Institute. Test report no. 23511241/2 dated 13 February 1990

Test of suitability for fastening a window to a brick masonry structure by ift Rosenheim. Test report no. 50922462 dated 11 October 2000



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The fixture must safely transfer all standard forces affecting the window to the structure and the foundation. The total load must therefore be calculated from e.g. the window load, wind load and working load (see DIN 1055). The currently applicable building regulations stipulate that buildings and their components must be planned in such a way that they do not endanger human life and health or pose a risk to public safety. Attachment of the windows must also comply with this criterion.

Window walls according to former DIN 18056 standard or elements with a surface greater than 9 m² and accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4

The DIN 18056 standard applied to window walls with a minimum surface area of 9 m² and a minimum side length of 2 m on the shortest side. Anchors with a general construction permit or European Technical Approval or with individual approval should be used for this application. Similarly, only anchors with a general construction permit or European Technical Approval or with individual approval must be used to attach accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4.

Other information

It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties, hole pattern in the brick). Accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4 may only be attached with the AMO Combi screw if appropriate individual approval has been obtained before installation starts.

Drill perforated and hollow blocks with a rotary drill (without impact mechanism)

Drill perforated and hollow blocks with a rotary drill (without impact mechanism)

Align window frames using alignment clamps or Amo® Bag

Screw length = frame width + gap + screw-in depth (see also 55.2 Amo® III 11.5 mm)

Amo® III spacing assembly screw Type 1

For mounting windows in concrete and solid stone masonry. With countersunk milling head for easy sinking in wood and plastic profiles. Zinc-plated steel, blue coated, AW30 drive.



- Short installation times, no setting tool or anchor required
- AW drive for longer bit service life and improved power transmission
- Load-bearing capacity is retained even under thermal stress

Thread diameter (d)	7.5 mm
Material	Steel
Surface	Zinc plated
Head type	Countersunk milling head
Head diameter (dk)	12 mm
Internal drive	AW30

Length (l)	Art. no.	P. Qty.
72 mm	0234 730 72	200
82 mm	0234 730 82	200
92 mm	0234 730 92	200
102 mm	0234 730 102	200
112 mm	0234 730 112	200
122 mm	0234 730 122	200
132 mm	0234 730 132	200
152 mm	0234 730 152	200
182 mm	0234 730 182	200
212 mm	0234 730 212	100

Fire protection test report no. 3174/0649-2 in concrete

Test report no. 202 31790. Attachment of a flood-proof window in accordance with ift directive FE-07/1

Test report no. 105 34261. Attachment of a plastic window in sand-lime brick masonry. Weight of casement: 72.5 kg. Test performed without lateral spacer blocks.

Test report no. 105 43036. Attachment of a plastic window in sand-lime brick masonry. Weight of casement: 70 kg. Screw connection in profile without steel reinforcement.

Test performed without lateral spacer blocks.

Plan, calculate and confirm your own, specific window installation using the ift tool at www.montagetool.de



It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties, hole pattern in the brick). Note the guidelines for planning and executing the installation of windows and house doors (art. no. 5995 000 000).

To ensure the fall-proof mounting of windows in line with applicable guidelines and regulations, approved securing systems (e.g. window installation bracket W-ABZ) must be used, or approval is required for each individual case.

Align window frames using alignment clamps or Amo Bag

Screw length = frame width + distance + screw-in depth (see also 55.2 Amo III 11.5 mm)

AMO® renovation case

231 pieces in system case 8.4.1. AMO-Y or AMO-COM-BI, the appropriate spacing assembly screw for any surface.

- The universal solution for mounting windows in concrete, perforated and solid brickwork and wood

Length	270 mm
Width	370 mm
Number of pieces in assortment/set	231 PCS
Product weight (per item)	15000 g



Art. no. 5964 023 403

P. Qty.: 1

AMO® III spacing assembly screw 7.5 type 1 countersunk milling head

For mounting windows in concrete and solid stone masonry. With countersunk milling head for easy sinking in wood and plastic profiles. Steel, yellow zinc-plated, AW30 drive



- Positive-locking, removable anchorage with no expansion pressure
- Load-bearing function is retained, even under thermal load
- Tested fire resistance duration of 120 minutes
- Time saving – no anchor necessary
- Short installation times, as no tools are required for insertion
- AW drive for longer bit service life, improved power transmission and no ejection forces
- Immediate load-bearing capacity – no waiting after insertion

Length (l)	92 mm
Thread diameter (d)	7.5 mm
Material	Steel
Surface	Zinc plated yellow
Head type	Countersunk milling head

Head diameter (dk)	12 mm
Internal drive	AW30

Art. no. 0234 130 92

P. Qty.: 200

Fire protection test report no. 3174/0649-2 from 12 January 2000

Test of suitability for attaching a flood-proof window in accordance with ift directive FE-07/1 conducted by the ift Rosenheim Institute. Test report no. 202 31790 dated 17 May 2006



It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties). Accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4 may only be attached with the AMO III screw if appropriate individual approval has been obtained before installation starts.

Align window frames using alignment clamps or AMO Bag

Screw length = frame width + distance + screw-in depth (see also 55.2 AMO III 11.5 mm)

AMO® III spacing assembly screw 7.5 type 2 cylinder head 8.0 mm

For economic window mounting in concrete and solid stone masonry. With cheese head, steel, yellow zinc-plated, drive AW30



- Positive-locking, removable anchorage with no expansion pressure
- Load-bearing function is retained, even under thermal load
- Tested fire resistance duration of 120 minutes
- Time saving – no anchor necessary
- Short installation times, as no tools are required for insertion
- AW drive for longer bit service life, improved power transmission and no ejection forces
- Push-through installation
- Immediate load-bearing capacity – no waiting after insertion
- Removable
- Virtually no expansion forces on insertion

Length (l)	92 mm
Thread diameter (d)	7.5 mm
Material	Steel
Surface	Zinc plated yellow
Head type	Socket head
Head diameter (dk)	8 mm
Internal drive	AW30

Art. no. 0234 230 92

P. Qty.: 200

Fire protection test report no. 3174/0649-2 dated 12 January 2000

Test of suitability for attaching a flood-proof window in accordance with ift directive FE-07/1 conducted by the ift Rosenheim Institute. Test report no. 202 31790 dated 17 May 2006



Information for use

Guidelines for planning and executing the installation of windows and exterior doors, 2010 edition

Art. no. 5995000000:

The fixture must safely transfer all standard forces affecting the window to the structure and the foundation. The total load must therefore be calculated from e.g. the window load, wind load and working load (see DIN 1055). The currently applicable building regulations stipulate that buildings and their components must be planned in such a way that they do not endanger human life and health or pose a risk to public safety. Attachment of the windows must also comply with this criterion.

Window walls according to former DIN 18056 standard or elements with a surface greater than 9 m² and accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4

The DIN 18056 standard applied to window walls with a minimum surface area of 9 m² and a minimum side length of 2 m on the shortest side. Anchors with a general construction permit or European Technical Approval or with individual approval should be used for this application. Similarly, only anchors with a general construction permit or European Technical Approval or with individual approval must be used to attach accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4.

Other information

It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties). Accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4 may only be attached with the AMO III screw if appropriate individual approval has been obtained before installation starts.

Useful information:

- Align window frames using alignment clamps or Amo Bag
- Screw length = frame width + distance + screw-in depth (see also 55.2 Amo III 11.5 mm)

Amo® III spacing assembly screw 7.5 type 3 half round head

For mounting windows in concrete and solid stone masonry. With large half round head, lies cleanly on the frame and can be optimally covered with cover caps. Steel, yellow zinc-plated, AW30 drive



- Positive-locking, removable anchorage with no expansion pressure
- Load-bearing function is retained, even under thermal load
- Tested fire resistance duration of 120 minutes
- Time saving – no anchor necessary
- Short installation times, as no tools are required for insertion
- AW drive for longer bit service life, improved power transmission and no ejection forces
- Push-through installation
- Immediate load-bearing capacity – no waiting after insertion
- Removable
- Virtually no expansion forces on insertion

Length (l)	62 mm
Thread diameter (d)	7.5 mm
Material	Steel
Surface	Zinc plated yellow

Head type	Button head
Head diameter (dk)	12.5 mm
Internal drive	AW30

Art. no. 0234 330 62

P. Qty.: 200

Fire protection test report no. 3174/0649-2 dated 12 January 2000

Test of suitability for attaching a flood-proof window in accordance with ift directive FE-07/1 conducted by the ift Rosenheim Institute. Test report no. 202 31790 dated 17 May 2006



Information for use

Guidelines for planning and executing the installation of windows and exterior doors, 2010 edition

Art. no. 5995000000:

The fixture must safely transfer all standard forces affecting the window to the structure and the foundation. The total load must therefore be calculated from e.g. the window load, wind load and working load (see DIN 1055). The currently applicable building regulations stipulate that buildings and their components must be planned in such a way that they do not endanger human life and health or pose a risk to public safety. Attachment of the windows must also comply with this criterion.

Window walls according to former DIN 18056 standard or elements with a surface greater than 9 m² and accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4

The DIN 18056 standard applied to window walls with a minimum surface area of 9 m² and a minimum side length of 2 m on the shortest side. Anchors with a general construction permit or European Technical Approval or with individual approval should be used for this application. Similarly, only anchors with a general construction permit or European Technical Approval or with individual approval must be used to attach accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4.

Other information

It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties). Accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4 may only be attached with the AMO III screw if appropriate individual approval has been obtained before installation starts.

Align window frames using alignment clamps or Amo Bag

Screw length = frame width + distance + screw-in depth (see also 55.2 Amo III 11.5 mm)

AMO® III spacing assembly screw 7.5 A2 type 2 cylinder head 8.0 mm

For mounting windows in concrete and solid stone masonry. Made of stainless steel A2. Ideal for frames made of thermally-treated wood. With a small cheese head, drive AW30



- Positive-locking, removable anchorage with no expansion pressure
- Saves time – no anchors required
- Short installation times, as no tools are required for insertion
- AW drive for longer bit service life, improved power transmission and no ejection forces
- Push-through installation
- Immediate load-bearing capacity – no waiting after insertion
- Positive locking for high load-bearing capacity
- Removable
- Virtually no expansion forces on insertion

Thread diameter (d)	7.5 mm
Material	Stainless steel A2
Head diameter (dk)	8 mm
Internal drive	AW30

Length (l)	Art. no.	P. Qty.
112 mm	0239 230 112	100
132 mm	0239 230 132	100
152 mm	0239 230 152	100
182 mm	0239 230 182	100

It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties, hole pattern in the brick).

Spacing assembly screw AMO® III 11.5

Window mounting in concrete and solid stone masonry with increased load requirements. Ø11.5mm, with cheese head, zinc-plated steel, blue passivated, drive AW40



- Positive-locking, removable anchoring with no expansion pressure
- Load-bearing function is retained, even under thermal load
- Immediate load-bearing capacity – no waiting after insertion
- Tested fire resistance duration of 120 minutes
- Tested burglary-resistant properties for plastic windows in resistance class WK 2 according to DIN V ENV 1627
- Time saving, no anchor required
- Short installation times, as no tools are required for insertion
- AW drive for longer bit service life, improved power transmission and no ejection forces
- Through-hole mounting
- Positive locking for high load-bearing capacity
- Removable
- AW40 bit in every pack
- Virtually no expansion forces on insertion

Thread diameter (d)	11.5 mm
Material	Steel
Surface	Zinc plated
Head type	Socket head
Head diameter (dk)	11.5 mm
Internal drive	AW40

Length (l)	Art. no.	P. Qty.
112 mm	0234 840 112	50
132 mm	0234 840 132	50
152 mm	0234 840 152	50
182 mm	0234 840 182	50

- Fire protection test report no. 3174/0649-2 dated 12 January 2000
- Break-in protection resistance class 2 according to DIN V ENV 1627. Expert opinion of ift Rosenheim no. 255/29923 dated 21 November 2005
- Test of suitability for fastening a window to a brick masonry structure by ift Rosenheim. Test report no. 105 30599 dated 10 July 2006



It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties, hole pattern in the brick).

Pre-drilling of window frame (10 mm). Drill perforated and hollow blocks with a rotary drill (without impact mechanism). No pre-drilling is necessary in aerated concrete; Amo III screw can be screwed in directly. Align window frames using alignment clamps or Amo Bag.

Screw length = frame width + gap + screw-in depth.

Spacing assembly screw AMO®-Y Ø 7.5 mm

Spacing assembly screw ideal for window and door mounting in aerated concrete, concrete as well as solid and perforated bricks. Optimised thread geometry and special coating



- Tension-free spaced mounting with all frame materials for anchoring in aerated concrete, concrete as well as solid and perforated bricks
- Tested burglary-resistant properties in resistance class RC3
- Burglary-resistant assembly in resistance classes RC2 and RC3

Thread diameter (d)	7.5 mm
Material	Steel
Surface	Flake zinc silver
Head type	Socket head
Head diameter (dk)	8 mm
Internal drive	AW30

Length (l)	Art. no.	P. Qty.
152 mm	0234 630 152	200
182 mm	0234 630 182	200
202 mm	0234 630 202	100
222 mm	0234 630 222	100

Approval:

national technical approval for anchoring window frames in concrete and masonry Z-21.1-2097

Test reports:

Test report 211 43728. Proof of burglary-resistant properties resistance class RC3. Plastic windows in aerated concrete masonry PP2-0.35.

Test report no. 105 42538/1. Attachment of a plastic window in aerated concrete masonry PP2-0.35. Test performed without lateral spacer blocks.

Individual window installation situation:

Individual window installation situation: Plan, calculate and confirm using the ift assembly tool at www.montagetool.de



It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties, hole pattern in the brick). Note the guidelines for planning and executing the installation of windows and house doors (art. no. 5995 000 000). To ensure the fall-proof mounting of windows in line with applicable guidelines and regulations, approved securing systems (e.g. window installation rail W-ABZ) must be used, or approval is required for each individual case.

Spacing assembly screw AMO®-Y 11.5 mm

For window and door installation, the specialist in aerated concrete



- Positive-locking, removable anchorage with no expansion pressure
- Short installation times, as no setting tools are required
- AW drive for longer bit service life, improved power transmission and no ejection forces

Length (l)	252 mm
Thread diameter (d)	11.5 mm
Material	Steel

Surface	Flake zinc silver
Head type	Socket head
Head diameter (dk)	11.3 mm
Internal drive	AW30

Art. no. 0234 640 252

P. Qty.: 50

General Building approval anchoring of windows in concrete and masonry
Component test using AMO-Y 11.5 mm frame screw to attach a glazed plastic door to a structure without lateral supports or spacers in PP 1.6–0.30 aerated concrete masonry. Test report no. 11-002642-PR01 dated 25 May 2012
Individual window installation situation: Plan, calculate and confirm using the ift assembly tool at www.montagetool.de



It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties, hole pattern in the brick). Note the guidelines for planning and executing the installation of windows and house doors (art. no. 5995 000 000). To ensure the fall-proof mounting of windows in line with applicable guidelines and regulations, approved securing systems (e.g. window installation rail W-ABZ) must be used, or approval is required for each individual case.

Plastic frame anchor W-UR 10 XS

For use in perforated brick with small chambers and thin webs in conjunction with the AMO Combi screw

- Reliable, simple assembly
- Immediate load-bearing capacity – no waiting after insertion
- Broad and flexible range of applications
- Perforated brick: AMO Combi in conjunction with W-UR 10 XS
- The anchorage does not require dimensioning apart from the verified window size for the tested surfaces and the appropriate installation.
- Removable anchorage



Anchor diameter	10 mm
Anchor length (l)	78 mm

Art. no. 0912 810 900

P. Qty.: 100



- It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties, hole pattern in the brick). Accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4 may only be attached with the AMO Combi screw if appropriate individual approval has been obtained before installation starts.
- Drill perforated and hollow blocks with a rotary drill (without impact mechanism)

Plastic frame anchor W-UR 10 XXL

For use in perforated brick with large chambers and solid webs in conjunction with the AMO Combi screw

- Reliable, simple assembly
- Immediate load-bearing capacity – no waiting after insertion
- Broad and flexible range of applications
- Perforated brick with large chambers: AMO Combi in conjunction with W-UR 10 XXL: Always anchored in at least 2 webs
- The anchorage does not require dimensioning apart from the verified window size for the tested surfaces and the appropriate installation.
- Removable anchorage



Anchor diameter	10 mm
Anchor length (l)	208 mm

Art. no. 0912 810 901

P. Qty.: 100

Component test with frame anchor W-RD 10 using AMO III screw to attach a glazed plastic door without lateral supports or spacer blocks in POROTON T12 clay block. Test report no. 105 44179/2 dated 23 December 2010

Component test with frame anchor W-UR 10 XXL using AMO Combi screw to attach a glazed plastic door without lateral supports or spacer blocks in POROTON-T8-36.5 MW masonry. Test report no. 11-001214-PR01 dated 17 October 2011

Expert opinion from ift Rosenheim dated 5 March 2012 no.: 12-000288-PR01 confirms that test report no. 105 44179/2 dated 23 December 2010 is also applicable to the AMO Combi screw and the W-UR 10 XXL.



- It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties, hole pattern in the brick). Accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4 may only be attached with the AMO® Combi screw if appropriate individual approval has been obtained before installation starts.
- Drill perforated and hollow blocks with a rotary drill (without impact mechanism)
- When the W-UR 10 XXL is used, the screw is no longer than the anchor and therefore reaches the second chamber in modern filled perforated bricks, ensuring that the anchor is guided correctly into the drill hole and the frame. Consequently, the load-bearing capacity is not reduced.

Spacing assembly screw AMO®-Combi 7.5/11.5

The universal solution for attaching windows in concrete, perforated and solid brickwork and wood

- For tension-free installation of windows in the reveal
- AMO Combi can be screwed directly into solid stone, concrete and wood due to the hardened thread
- Immediate load-bearing capacity: no waiting after insertion



Thread diameter (d)	7.5 mm
Head thread diameter	11.5 mm
Head thread length	50 mm
Material	Steel
Surface	Zinc plated
Internal drive	AW30
Approval	DIBt Z-21.2-2017

Length (l)	Art. no.	P. Qty.
135 mm	0234 030 135	100
150 mm	0234 030 150	100
180 mm	0234 030 180	100
242 mm	0234 030 242	100

General technical approval anchoring of windows in masonry reveals Z.21.2-2017

Test report no. 11-001214-PR01 Component test for attaching glazed plastic door in brick masonry Poroton-T8-36.5 MW. Weight of casement: 95.5 kg.

Test report no. 11-002744-PR01 Component test for attaching a two-leaf glazed plastic door in brick masonry Poroton T10. Weight of casement: 74.5 kg.

Test report no. 13-002288-PR03 Component test for attaching plastic house door in brick masonry made of ThermoPlan S9 from Mein Ziegelhaus. Weight of casement: 145 kg.

Continuous usage load 100,000 cycles.

Test report no. 11-002592-PR01 Verification of burglary-resistant properties of resistance class RC2/RC 2N in brick masonry made of Poroton-S10-P



It is important to check that the components are correctly installed for the specific construction conditions (e.g. weight of window casement, surface properties, hole pattern in the brick). Accident-proof glazing as specified in the German technical rules for safety glazing (TRAV) or DIN 18008-4 may only be attached with the AMO-Combi screw if the appropriate individual approval has been obtained before installation starts.

Drill perforated and hollow blocks with a rotary drill (without impact mechanism)

When the W-UR 10 XXL is used, the screw is no longer than the anchor and therefore reaches the second chamber in modern filled perforated bricks, ensuring that the anchor is guided correctly into the drill hole and the frame. Consequently the load-bearing capacity is not reduced.

Metal frame anchor W-MRE

For window mounting in perforated brick masonry and lightweight construction materials. Single expansion, access hole, PZ3 drive, zinc plated steel



- Universal metal frame anchor for light loads
- Excellent fitness for purpose with virtually all common construction materials
- Fast, economical push-through installation
- Large expansion zone moulds to the anchoring base for effective attachment in perforated brick masonry or lightweight construction materials
- Tension-free spaced installation
- Option of concealed mounting via cover cap
- Bugle head screw M6 with pre-drilled head < diameter / > 3 for cover cap to allow for tolerances (PZ3 drive)
- Rounded, reduced wall plug body for easier installation with hollow profiles
- Locking cam for hollow profiles and as an anti-rotation device
- Sleeve: Galvanised sheet steel
- Screw: Galvanised steel, blue passivated

Drive type	Z
Hole diameter in component (d f)	10.5 mm
Nominal drill-bit diameter (d 0)	10 mm
Embedding depth (h nom)	60 mm
Surface	Zinc plated
Drill hole depth (h 1)	65 mm

DIN	18056
Head type	Countersunk head
Internal drive	Z3
Design	Single expansion

Anchor length (l) (l)	Max. attachment height (t fix)	Art. no.	P. Qty.
112 mm	50 mm	0903 912 112	100
132 mm	70 mm	0903 912 132	100
152 mm	90 mm	0903 912 152	100
182 mm	120 mm	0903 912 182	100

Test of a fastener: Evaluation of test results for practical use in window installation by the ift Rosenheim Institute, test report no. 328477/2 dated 22 January 1986

Fire resistance, direct exposure to flames



Installation guidelines/RAL Quality Assurance Association:

The fixture must safely transfer all standard forces affecting the window to the structure. This means the total load must be calculated from e.g. the window load, wind load and working load (see DIN 1055). The currently applicable building regulations stipulate that buildings and their components must be planned in such a way that they do not endanger human life and health or pose a risk to public safety. Attachment of the windows must also comply with this criterion. We recommend anchors 51, 52, 53 and 55 for this application.

Window walls according to DIN 18056:

This standard applies to window walls with an area of at least 9 m² and a minimum side length of 200 cm, comprising a support structure (frame, jambs, crossbars) with infill (e.g. glazing). This standard does not apply to walls made from glass blocks. We recommend anchors with technical approval for this application.

Metal frame anchor W-MRD

For window mounting in perforated brick masonry and lightweight construction materials. Double expansion, head access to hole, PZ3 drive



- Universal metal frame anchor for light loads
- Excellent fitness for purpose with virtually all common construction materials
- Fast, economical push-through installation
- Large expansion zone moulds to the anchoring base for effective attachment in perforated brick masonry or lightweight construction materials
- Tension-free spaced installation
- Option of concealed mounting via cover cap
- Bugle head screw M6 with pre-drilled head < diameter / > 3 for cover cap to allow for tolerances (PZ3 drive)
- Rounded, reduced wall plug body for easier installation with hollow profiles
- Locking cam for hollow profiles and as an anti-rotation device
- Sleeve: Galvanised sheet steel
- Screw: Galvanised steel, blue passivated

Drive type	Z
Hole diameter in component (d f)	10.5 mm
Nominal drill-bit diameter (d 0)	10 mm
Embedding depth (h nom)	90 mm
Surface	Zinc plated
Drill hole depth (h 1)	95 mm
DIN	18056
Head type	Countersunk head
Internal drive	Z3
Design	Double expansion

Anchor length (l) (l)	Max. attachment height (t fix)	Art. no.	P. Qty.
152 mm	60 mm	0903 914 152	100
182 mm	90 mm	0903 914 182	100

Test of a fastener: Evaluation of test results for practical use in window installation by the ift Rosenheim Institute, test report no. 328477/2 dated 22 January 1986

Fire resistance, direct exposure to flames



Installation guidelines/RAL Quality Assurance Association:

The fixture must safely transfer all standard forces affecting the window to the structure. This means the total load must be calculated from e.g. the window load, wind load and working load (see DIN 1055). The currently applicable building regulations stipulate that buildings and their components must be planned in such a way that they do not endanger human life and health or pose a risk to public safety. Attachment of the windows must also comply with this criterion. We recommend anchors 51, 52, 53 and 55 for this application.

Window walls according to DIN 18056:

This standard applies to window walls with an area of at least 9 m² and a minimum side length of 200 cm, comprising a support structure (frame, jambs, crossbars) with infill (e.g. glazing). This standard does not apply to walls made from glass blocks. We recommend anchors with technical approval for this application.

Metal frame anchor WUS 10

For window mounting in all solid materials. Countersunk head screw, PZ3 drive, zinc plated steel



- Universal frame anchor for light loads
- Excellent fitness for purpose with concrete, solid stone masonry, natural stone surfaces
- Fast, economical push-through installation
- Tension-free spaced installation
- Locking cam for hollow profiles and as an anti-rotation device
- Concealed mounting via cover cap
- Suitable for machine insertion using PZ3 drive
- Captive cone
- Sleeve: Sheet steel, Al/Zn coating
- Screw: Galvanised steel, blue passivated
- Cone: Galvanised steel, blue passivated

Anchor diameter	10 mm
Drive type	Z
Hole diameter in component (d f)	10.5 mm
Nominal drill-bit diameter (d 0)	10 mm
Embedding depth (h nom)	30 mm
Surface	Zinc plated
Material	Steel
Drill hole depth (h 1)	35 mm
DIN	18056
Head type	Countersunk head
Internal drive	Z3

Anchor length (l) (l)	Max. attachment height (t fix)	Art. no.	P. Qty.
92 mm	60 mm	0910 436 92	100
132 mm	100 mm	0910 436 132	100
152 mm	120 mm	0910 436 152	100
202 mm	170 mm	0910 436 202	50

Tested fire resistance time at increasing temperatures in accordance with DIN 4102 and on direct exposure to flames



Installation guidelines/RAL Quality Assurance Association:

The fixture must safely transfer all standard forces affecting the window to the structure. This means the total load must be calculated from e.g. the window load, wind load and working load (see DIN 1055). The currently applicable building regulations stipulate that buildings and their components must be planned in such a way that they do not endanger human life and health or pose a risk to public safety. Attachment of the windows must also comply with this criterion. We recommend anchors 51, 52 and 53 for this application.

Window walls according to DIN 18056:

This standard applies to window walls with an area of at least 9 m² and a minimum side length of 200 cm, comprising a support structure (frame, jambs, crossbars) with infill (e.g. glazing). This standard does not apply to walls made from glass blocks. We recommend anchors with technical approval for this application

Metal frame anchor WUL8

For window mounting in all solid materials, small head diameter for profiles with narrow bottom rebate. Pan head screw, TX20 drive



- The small head diameter is ideal for profiles with a narrow bottom rebate
- Fast, economical push-through installation
- Tension-free spaced installation
- Suitable for machine insertion using TX20 drive
- Captive die cast zinc cone
- Locking cam for hollow profiles and as an anti-rotation device
- Small drilling diameter, quick drilling in concrete
- Metal frame anchor for light loads
- Good fitness for purpose with concrete, solid brick masonry, natural stone surfaces
- Sleeve: Sheet steel, Al/Zn coating
- Screw: Steel, white zinc-plated
- Cone: Die cast zinc

Anchor diameter	8 mm
Drive type	Internal TX
Hole diameter in component (d f)	8.5 mm
Nominal drill-bit diameter (d 0)	8 mm
Embedding depth (h nom)	30 mm
Material	Steel
Drill hole depth (h 1)	35 mm
DIN	18056
Head type	Pan head
Internal drive	TX20

Anchor length (l) (l)	Surface	Max. attachment height (t fix)	Art. no.	P. Qty.
92 mm	Sendzimir galvanized	60 mm	0910 428 92	100
112 mm	Zinc plated	80 mm	0910 428 112	100
132 mm	Zinc plated	100 mm	0910 428 132	100
172 mm	Zinc plated	140 mm	0910 428 172	100

Installation guidelines/RAL Quality Assurance Association:

The fixture must safely transfer all standard forces affecting the window to the structure. This means the total load must be calculated from e.g. the window load, wind load and working load (see DIN 1055). The currently applicable building regulations stipulate that buildings and their components must be planned in such a way that they do not endanger human life and health or pose a risk to public safety. Attachment of the windows must also comply with this criterion. We recommend anchors 51, 52, 53 and 55 for this application.

Window walls according to DIN 18056:

This standard applies to window walls with an area of at least 9 m² and a minimum side length of 200 cm, comprising a support structure (frame, jambs, crossbars) with infill (e.g. glazing). This standard does not apply to walls made from glass blocks. We recommend anchors with technical approval for this application.



Plastic frame anchor W-UR 8

Frame anchor tested and approved in more than 90 stone types and in aerated concrete. Also for window installation (approved for mounting in reveal). With countersunk head screw made of zinc plated steel

- Immediate load-bearing capacity, no waiting
- Virtually no movement of the wall plug body thanks to low insertion torque and slight expansion
- High load-bearing capacities; expansion in four directions
- 2 insertion depths
- Improved load transfer in solid and hollow construction materials
- The hammer-in stop prevents premature expansion of the anchor during installation
- Low assembly workload thanks to pre-assembled plug screw
- Anchorage via friction locking between wall plug body and anchoring base
- Push-through installation

General construction permit Z-21.2-1838
European Technical Approval ETA-08/0190

Fire resistance:

Concrete: Tensile and transverse loads, R30, R60, R90, R120 (in accordance with Technical Report TR 020)

Masonry tensile load: F30 (solid sand-lime brick, solid brick, hollow sand-lime brick) Transverse load: F30, F60, F90, F120 (vertically perforated brick, hollow sand-lime brick, solid brick, aerated concrete)



Anchor diameter	8 mm
Through-hole in the component to be connected (d f)	8.5 mm

Anchor length (l)	Attachment height (t fix 1)	Art. no.	P. Qty.
60 mm	10 mm	0912 808 402	50
80 mm	30 mm	0912 808 403	50
100 mm	50 mm	0912 808 404	50
120 mm	70 mm	0912 808 405	50
140 mm	90 mm	0912 808 406	50
160 mm	110 mm	0912 808 407	50

Plastic frame anchor W-UR 8, stainless steel A4

The first frame anchor with ETA approval. Tested and approved in more than 60 stone types and in aerated concrete. With countersunk head screw made of A4 stainless steel



- Universal frame anchor (concrete, perforated and solid brick masonry, aerated concrete)
- Push-through installation
- Immediate load-bearing capacity – no waiting
- Virtually no movement of the wall plug body thanks to low insertion torque and slight expansion
- 2 insertion depths ($h_{nom} = 50 + 70$ mm)
- High load-bearing capacities; expansion in four directions
- Improved load transfer in solid and hollow construction materials
- The hammer-in stop prevents premature expansion of the anchor during installation
- Low assembly workload thanks to pre-assembled plug screw
- Saves an additional U washer and prevents contact corrosion
- Anchorage via friction locking between wall plug body and anchoring base

Anchor diameter	8 mm
Through-hole in the component to be connected (d f)	8.5 mm

Anchor length (l)	Attachment height (t fix 1)	Art. no.	P. Qty.
60 mm	10 mm	0912 808 502	50
80 mm	30 mm	0912 808 503	50

W-UR 8, W-UR F 8 (galvanised steel, stainless steel): General construction permit Z-21.2-1838

W-UR 8 and W-UR F 8 (galvanised steel, stainless steel): European Technical Approval ETA-08/0190

Wall plug body made from high-quality polyamide

Fire resistance W-UR 8: Concrete: Tensile and transverse loads, R30, R60, R90, R120 (in accordance with Technical Report TR 020) Masonry tensile load: F30 (solid sand-lime brick, solid brick, hollow sand-lime brick) Transverse load: F30, F60, F90, F120 (vertically perforated brick, hollow sand-lime brick, solid brick, aerated concrete)



Useful information:

Drill perforated and hollow blocks with a rotary drill (without impact mechanism)

For anchoring in solid brick and solid sand-lime brick, we recommend that you perform pull-out tests due to the differences in brick manufacturing.

Drill cuttings must be removed from the drill hole

Lengths > 80 mm by special procurement

Plastic frame anchor W-UR F 8, galvanised steel

The most versatile frame anchor with ETA approval.
Tested and approved in more than 90 stone types and
in aerated concrete. With hexagon bolt made of zinc
plated steel



- With hexagonal bolt, galvanised steel and pressed-on washer
- Push-through installation
- Immediate load-bearing capacity – no waiting
- Low insertion torque of the plug screw - „slight“ expansion of the anchor, virtually no movement of the wall plug body
- 2 insertion depths (h_{nom} = 50 + 70 mm): Concrete >= C12/15; Solid brick >= Mz 10 (>= NF); vertically perforated brick >= HLz 8 (>= 2DF); solid sand-lime brick >= KS 10 (>= NF); hollow sand-lime brick >= KS L 6 (>= 2DF); hollow sand-lime brick >= KS L 6 (>= 12DF); solid blocks made from normal concrete >= Vbn 10 (>= NF); solid blocks made from lightweight concrete >= V 2 (>= NF)
- Spread in four directions – high load-bearing capacity
- Improved power transmission: Even, continuous load distribution across the entire expansion area
- Universal frame anchor (concrete, perforated and solid brick masonry, aerated concrete)
- The hammer-in stop prevents premature expansion of the anchor during installation
- Pre-assembled anchor sleeve and special screw – easier installation
- Anchor type W-UR F does not require an additional U washer and prevents contact corrosion
- Improved load transfer in solid and hollow construction materials; anchorage via friction locking between anchor sleeve and anchoring base

Anchor diameter	8 mm
Through-hole in the component to be connected (d f)	8.5 mm

Anchor length (l)	Attachment height (t fix 1)	Art. no.	P. Qty.
60 mm	10 mm	0912 808 602	50
80 mm	30 mm	0912 808 603	50
100 mm	50 mm	0912 808 604	50
120 mm	70 mm	0912 808 605	50

W-UR 8, W-UR F 8 (galvanised steel, stainless steel): General construction permit Z-21.2-1838
W-UR 8 and W-UR F 8 (galvanised steel, stainless steel): European Technical Approval ETA-08/0190
Wall plug body made from high-quality polyamide
Fire resistance W-UR 8: Concrete: Tensile and transverse loads, R30, R60, R90, R120 (in accordance with Technical Report TR 020) Masonry tensile load: F30 (solid sand-lime brick, solid brick, hollow sand-lime brick) Transverse load: F30, F60, F90, F120 (vertically perforated brick, hollow sand-lime brick, solid brick, aerated concrete)



Useful information:
Drill perforated and hollow blocks in rotating gear (without impact mechanism)
For anchoring in solid brick and solid sand-lime brick, we recommend that you perform pull-out tests due to the differences in brick manufacturing.
Drill cuttings must be removed from the drill hole

Plastic frame anchor W-UR F 8, stainless steel A4

The most versatile frame anchor with ETA approval.
Tested and approved in more than 90 stone types and
in aerated concrete. With hexagon bolt made of A4
stainless steel



- With hexagonal bolt, stainless steel A4 and pressed-on washer
- Push-through installation
- Immediate load-bearing capacity – no waiting
- Low insertion torque of the plug screw – “slight” expansion of the anchor, virtually no movement of the wall plug body
- 2 insertion depths ($h_{nom} = 50 + 70 \text{ mm}$): Concrete $\geq C12/15$; solid brick $\geq Mz 10$ ($\geq NF$); vertically perforated brick $\geq HLz 8$ ($\geq 2DF$); solid sand-lime brick $\geq KS 10$ ($\geq NF$); hollow sand-lime brick $\geq KS L 6$ ($\geq 2DF$); hollow sand-lime brick $\geq KS L 6$ ($\geq 12DF$); solid brick from standard concrete $\geq Vbn 10$ ($\geq NF$); solid brick from lightweight concrete $\geq V 2$ ($\geq NF$)
- Expansion in four directions – high load-bearing capacities
- Improved force transfer: Even, continuous load distribution across the entire expansion area
- Universal frame anchor (concrete, perforated and solid brick masonry, aerated concrete)
- The hammer-in stop prevents premature expansion of the anchor during installation
- Pre-assembled wall plug body and special screw – easier installation
- Anchor type W-UR F does not require an additional U washer and prevents contact corrosion
- Improved load transfer in solid and hollow construction materials; anchorage via friction locking between wall plug body and anchoring base

Anchor diameter	8 mm
Through-hole in the component to be connected (d f)	8.5 mm

Anchor length (l)	Attachment height († fix 1)	Art. no.	P. Qty.
60 mm	10 mm	0912 808 702	50
80 mm	30 mm	0912 808 703	50

W-UR 8, W-UR F 8 (galvanised steel, stainless steel): General construction permit Z-21.2-1838

W-UR 8 and W-UR F 8 (galvanised steel, stainless steel): European Technical Approval ETA-08/0190

Wall plug body made from high-quality polyamide

Fire resistance W-UR 8: Concrete: Tensile and transverse loads, R30, R60, R90, R120 (in accordance with Technical Report TR 020) Masonry tensile load: F30 (solid sand-lime brick, solid brick, hollow sand-lime brick) Transverse load: F30, F60, F90, F120 (vertically perforated brick, hollow sand-lime brick, solid brick, aerated concrete)



Useful information:

Drill perforated and hollow blocks in rotating gear (without impact mechanism)

For anchoring in solid brick and solid sand-lime brick, we recommend that you perform pull-out tests due to the differences in brick manufacturing.

Drill cuttings must be removed from the drill hole

Lengths > 80 mm by special procurement

Plastic frame anchor W-UR F 8, galvanised steel

Frame anchor tested and approved in more than 90 stone types and in aerated concrete. Also for window installation (approved for mounting in reveal). With pan head screw made of zinc plated steel



- With pan head screw, galvanised steel
- Push-through installation
- Immediate load-bearing capacity – no waiting
- Low insertion torque of the anchor screw – slight expansion of the anchor, virtually no movement of the anchor sleeve
- 2 insertion depths ($h_{nom} = 50 + 70 \text{ mm}$): Concrete $\geq C12/15$; solid brick $\geq Mz 10$ ($\geq NF$); vertically perforated brick $\geq HLz 8$ ($\geq 2DF$); solid sand-lime brick $\geq KS 10$ ($\geq NF$); hollow sand-lime brick $\geq KS L 6$ ($\geq 2DF$); hollow sand-lime brick $\geq KS L 6$ ($\geq 12DF$); solid brick from standard concrete $\geq Vbn 10$ ($\geq NF$); solid brick from lightweight concrete $\geq V 2$ ($\geq NF$)
- Expansion in four directions – high load-bearing capacities
- Improved force transfer: Even, continuous load distribution across the entire expansion area
- Universal frame anchor (concrete, perforated and solid brick masonry, aerated concrete)
- The hammer-in stop prevents premature expansion of the anchor during installation
- Pre-assembled anchor sleeve and special screw – easier installation
- Anchor type W-UR F does not require an additional U washer and prevents contact corrosion
- Improved load transfer in solid and hollow construction materials; anchorage via friction locking between anchor sleeve and anchoring base

Anchor diameter	8 mm
Through-hole in the component to be connected (d f)	8.5 mm

Anchor length (l)	Attachment height (t fix 1)	Art. no.	P. Qty.
60 mm	10 mm	0912 808 802	50
80 mm	30 mm	0912 808 803	50

W-UR 8 and W-UR F 8 (galvanised steel, stainless steel): European Technical Approval ETA-08/0190

Anchor sleeve made from high-quality polyamide

Fire resistance W-UR 8: Concrete: Tensile and transverse loads, R30, R60, R90, R120 (in accordance with Technical Report TR 020) Masonry tensile load: F30 (solid sand-lime brick, solid brick, hollow sand-lime brick) Transverse load: F30, F60, F90, F120 (vertically perforated brick, hollow sand-lime brick, solid brick, aerated concrete)



Useful information:

Drill perforated and hollow blocks in rotating gear (without impact mechanism)

For anchoring in solid brick and solid sand-lime brick, we recommend that you perform pull-out tests due to the differences in brick manufacturing.

Drill cuttings must be removed from the drill hole

Plastic frame anchor W-UR F 8

The most versatile frame anchor with ETA approval.
Tested and approved in more than 90 stone types and
in aerated concrete. With pan head screw made of A4
stainless steel



- With pan head screw, A4 stainless steel
- Push-through installation
- Immediate load-bearing capacity – no waiting
- Low insertion torque of plug screw – slight expansion of the plug, virtually no movement of the wall plug body
- 2 insertion depths ($h_{nom} = 50 + 70 \text{ mm}$): Concrete $\geq C12/15$; solid brick $\geq Mz 10$ ($\geq NF$); vertically perforated brick $\geq HLz 8$ ($\geq 2DF$); solid sand-lime brick $\geq KS 10$ ($\geq NF$); hollow sand-lime brick $\geq KS L 6$ ($\geq 2DF$); hollow sand-lime brick $\geq KS L 6$ ($\geq 12DF$); solid blocks made from normal concrete $\geq Vbn 10$ ($\geq NF$); solid blocks made from lightweight concrete $\geq V 2$ ($\geq NF$)
- Spread in four directions – high load-bearing capacity
- Improved power transmission: Even, continuous load distribution across the entire expansion area
- Universal frame anchor (concrete, perforated and solid brick masonry, aerated concrete)
- The hammer-in stop prevents premature expansion of the anchor during installation
- Pre-assembled wall plug body and special screw – easier installation
- Anchor type W-UR F does not require an additional U washer and prevents contact corrosion
- Improved power transmission in solid and hollow construction materials; anchorage via friction locking between wall plug body and anchoring base

Anchor diameter	8 mm
Through-hole in the component to be connected (d f)	8.5 mm

Anchor length (l)	Attachment height (t fix 1)	Art. no.	P. Qty.
60 mm	10 mm	0912 808 902	50
80 mm	30 mm	0912 808 903	50

W-UR 8, W-UR F 8 (galvanised steel, stainless steel): General technical approval Z-21.2-1838

W-UR 8 and W-UR F 8 (galvanised steel, stainless steel): European Technical Approval ETA-08/0190

Wall plug body made from high-quality polyamide

Fire resistance W-UR 8: Concrete: Tensile and transverse loads, R30, R60, R90, R120 (in accordance with Technical Report TR 020) Masonry tensile load: F30 (solid sand-lime brick, solid brick, hollow sand-lime brick) Transverse load: F30, F60, F90, F120 (vertically perforated brick, hollow sand-lime brick, solid brick, aerated concrete)



Useful information:

Drill perforated and hollow blocks in rotating gear (without impact mechanism)

For anchoring in solid brick and solid sand-lime brick, we recommend that you perform pull-out tests due to the differences in brick manufacturing.

Drill cuttings must be removed from the drill hole

Plastic frame anchor W-UR F 10, stainless steel A4

Plastic frame anchor approved for high loads with special screw made of A4 stainless steel with hexagon head and Symcon thread



- Anchorage via friction locking between wall plug body and anchoring base
- Wall plug body made of high-quality polyamide
- Push-through installation
- Immediate load-bearing capacity – no waiting
- Virtually no movement of the wall plug body thanks to low insertion torque and slight expansion
- Very strong twist lock
- High load-bearing capacities; expansion in four directions
- Improved load transfer in solid and hollow construction materials
- The hammer-in stop prevents premature expansion of the anchor during installation
- Low assembly workload thanks to pre-assembled plug screw
- Saves an additional U washer and prevents contact corrosion

Installation temperatures

- Temperature of anchoring base: $\geq -20^{\circ}\text{C}$
- Temperature of anchor sleeve: $\geq 0^{\circ}\text{C}$

Anchor diameter	10 mm
Anchor length (l)	115 mm
Max. attachment height (t fix)	45 mm
Through-hole in the component to be connected (d f)	10.5 mm

Art. no. 0912 810 703

P. Qty.: 40

European Technical Approval

Multiple attachment of non-load-bearing systems in concrete and masonry

European Technical Approval ETA-08/0190

Fire resistance

Concrete and masonry

Concrete

Tensile and transverse loads, R30, R60, R90, R120 (in accordance with Technical Report TR 020)

Masonry

- Tensile load: F30 (solid sand-lime brick, solid brick, hollow sand-lime brick)
- Transverse load: F30, F60, F90, F120 (vertically perforated brick, hollow sand-lime brick, solid brick, aerated concrete)



- Drill perforated and hollow blocks in rotating gear (without impact mechanism)
- For anchoring in solid brick and solid sand-lime brick, we recommend that you perform pull-out tests due to the differences in brick manufacturing.
- Drill cuttings must be removed from the drill hole

Plastic frame anchor W-UR 10, stainless steel A4

Plastic frame anchor approved for high loads with special screw made of A4 stainless steel with countersunk head and Symcon thread

- Anchorage via friction locking between anchor sleeve and anchoring base
- Anchor sleeve made of high-quality polyamide
- Push-through installation
- Immediate load-bearing capacity – no waiting
- Low insertion torque of anchor screw → slight expansion of the anchor, virtually no movement of the anchor sleeve
- Very strong twist lock
- High load-bearing capacities; expansion in four directions
- Improved load transfer: Even, continuous load distribution across the entire expansion area
- Universal frame anchor (concrete, perforated and solid brick masonry, aerated concrete)
- The hammer-in stop prevents premature expansion of the anchor during installation
- Pre-assembled anchor sleeve and special screw → easier installation
- Improved load transfer in solid and hollow construction materials



Anchor diameter	10 mm
Through-hole in the component to be connected (d f)	10.5 mm

Anchor length (l)	Max. attachment height (t fix)	Art. no.	P. Qty.
100 mm	30 mm	0912 810 502	50
160 mm	90 mm	0912 810 505	50
185 mm	115 mm	0912 810 506	50

W-UR 10 (galvanised steel, stainless steel): European Technical Approval ETA-08/0190
Anchor sleeve made of high-quality polyamide
Transverse load: F30, F60, F90, F120 (vertically perforated brick, hollow sand-lime brick, solid brick, aerated concrete)
Fire resistance W-UR 10: Concrete: Tensile and transverse loads, R30, R60, R90, R120 (in accordance with Technical Report TR 020)
Masonry tensile load: F30 (solid sand-lime brick, solid brick, hollow sand-lime brick)



- Drill perforated and hollow blocks in rotating gear (without impact mechanism)
- For anchoring in solid brick and solid sand-lime brick, we recommend that you perform pull-out tests due to the differences in brick manufacturing.
- Drill cuttings must be removed from the drill hole

Plastic frame anchor W-UR F 10 SymCon®

With hexagon bolt, zinc plated steel. Approved for high loads in concrete (single attachment), aerated concrete and masonry



- Virtually no movement of the anchor sleeve thanks to low insertion torque and slight expansion
- Secure post-installation expansion thanks to SymCon plug screw
- Saves an additional U-washer and prevents contact corrosion

Anchor diameter	10 mm
Through-hole in the component to be connected (d f)	10.5 mm

Anchor length (l)	Attachment height (t fix 1)	Art. no.	P. Qty.
50 mm	10 mm	5911 010 201	40
80 mm	40 mm	5911 010 202	40
100 mm	60 mm	5911 010 203	40
115 mm	75 mm	5911 010 204	40

European Technical Approval ETA-11/0309



When anchoring in solid brick and solid sand-lime brick, we recommend performing pull-out tests due to differences in brick manufacturing

Plastic frame anchor W-UR 10 SymCon®

With countersunk head screw, zinc-plated steel. Approved for high loads in concrete (single attachment), aerated concrete and masonry



- Virtually no movement of the anchor sleeve thanks to low insertion torque and slight expansion
- Secure post-installation expansion thanks to SymCon plug screw
- Saves an additional U-washer and prevents contact corrosion

Anchor diameter	10 mm
Through-hole in the component to be connected (d f)	10.5 mm

Anchor length (l)	Attachment height (t fix 1)	Art. no.	P. Qty.
50 mm	10 mm	5911 010 001	50
80 mm	40 mm	5911 010 002	50
100 mm	60 mm	5911 010 003	50
115 mm	75 mm	5911 010 004	50
135 mm	95 mm	5911 010 005	50
160 mm	120 mm	5911 010 006	50
185 mm	145 mm	5911 010 007	50
200 mm	160 mm	5911 010 008	50
230 mm	190 mm	5911 010 009	50

European Technical Approval ETA-11/0309



When anchoring in solid brick and solid sand-lime brick, we recommend performing pull-out tests due to differences in brick manufacturing

Plastic frame anchor W-UR 10 SymCon®

With countersunk head screw, A4 stainless steel.

Approved for high loads in concrete (single attachment), aerated concrete and masonry



- Virtually no movement of the wall plug body thanks to low insertion torque and slight expansion
- Reliable post-spreading characteristics thanks to SymCon plug screw
- Increased load introduction
- Low assembly workload thanks to pre-assembled plug screw
- Saves an additional U washer and prevents contact corrosion

Multiple insertion depths

- Concrete: 3 insertion depths (40, 50 and 70 mm)
- Masonry: 2 insertion depths (50 and 70 mm)

Anchor diameter	10 mm
Anchor length (l)	100 mm
Through-hole in the component to be connected (d f)	10.5 mm
Attachment height (t fix 1)	60 mm

Art. no. 5911 010 103

P. Qty.: 50

European Technical Approval ETA-11/0309



When anchoring in solid brick and solid sand-lime brick, we recommend performing pull-out tests due to differences in brick manufacturing

Plastic frame anchor W-UR F 10 SymCon®

With hexagon bolt, stainless steel A4. Approved for high loads in concrete (single attachment), aerated concrete and masonry



- Virtually no movement of the wall plug body thanks to low insertion torque and slight expansion
- Reliable post-spreading characteristics thanks to SymCon plug screw
- Increased load introduction
- Low assembly workload thanks to pre-assembled plug screw
- Saves an additional U washer and prevents contact corrosion

Multiple insertion depths

- Concrete: 3 insertion depths (40, 50 and 70 mm)
- Masonry: 2 insertion depths (50 and 70 mm)

Anchor diameter	10 mm
Through-hole in the component to be connected (d f)	10.5 mm

Anchor length (l)	Attachment height (t fix 1)	Art. no.	P. Qty.
80 mm	40 mm	5911 010 302	40
100 mm	60 mm	5911 010 303	40

European Technical Approval ETA-11/0309



When anchoring in solid brick and solid sand-lime brick, we recommend performing pull-out tests due to differences in brick manufacturing

Plastic frame anchor W-UR 14 SymCon®

Plastic frame anchor approved for high loads with special screw made of zinc plated steel with countersunk head and Symcon thread



- Virtually no movement of the wall plug body thanks to low insertion torque and slight expansion
- Reliable post-spreading characteristics thanks to SymCon plug screw
- Increased load introduction
- Low assembly workload thanks to pre-assembled plug screw



Anchor diameter	14 mm
Through-hole in the component to be connected (d f)	14.5 mm

Anchor length (l)	Attachment height (t fix 1)	Art. no.	P. Qty.
110 mm	40 mm	0912 814 402	25
140 mm	70 mm	0912 814 403	25
160 mm	90 mm	0912 814 404	25
180 mm	110 mm	0912 814 405	25
210 mm	140 mm	0912 814 406	25

Anchor length (l)	Attachment height (t fix 1)	Art. no.	P. Qty.
240 mm	170 mm	0912 814 407	25
270 mm	200 mm	0912 814 408	25
300 mm	230 mm	0912 814 409	25
330 mm	260 mm	0912 814 410	20
360 mm	290 mm	0912 814 411	20
390 mm	320 mm	0912 814 412	20

European Technical Approval ETA-11/0309, multiple attachment of non-load-bearing systems in concrete and masonry



- For anchoring in solid brick and solid sand-lime brick, we recommend that you perform pull-out tests due to the differences in brick manufacturing
- Lengths 330 mm, 360 mm and 390 mm are not pre-assembled
- Drill perforated and hollow blocks in rotating gear (without impact mechanism)

Plastic frame anchor W-UR 14 F SymCon

Plastic frame anchor approved for high loads with special screw made of zinc plated steel with hexagon head and Symcon thread



- Universal frame anchor (concrete, perforated and solid brick masonry)
- Virtually no movement of the wall plug body thanks to low insertion torque and slight expansion
- Reliable post-spreading characteristics thanks to SymCon plug screw
- Increased load introduction
- Low assembly workload thanks to pre-assembled plug screw
- Saves an additional U washer and prevents contact corrosion
- Wall plug body made of high-quality polyamide



Anchor diameter	14 mm
Through-hole in the component to be connected (d f)	14.5 mm

Anchor length (l)	Attachment height (t fix 1)	Art. no.	P. Qty.
80 mm	10 mm	0912 814 601	20
110 mm	40 mm	0912 814 602	20
140 mm	70 mm	0912 814 603	20
160 mm	90 mm	0912 814 604	20
180 mm	110 mm	0912 814 605	20
210 mm	140 mm	0912 814 606	20
240 mm	170 mm	0912 814 607	20
270 mm	200 mm	0912 814 608	20
300 mm	230 mm	0912 814 609	20
330 mm	260 mm	0912 814 610	15
360 mm	290 mm	0912 814 611	15
390 mm	320 mm	0912 814 612	15

European Technical Approval ETA-11/0309, multiple attachment of non-load-bearing systems in concrete and masonry



- For anchoring in solid brick and solid sand-lime brick, we recommend that you perform pull-out tests due to the differences in brick manufacturing
- Lengths 330 mm, 360 mm and 390 mm are not pre-assembled
- Drill perforated and hollow blocks with a rotary drill (without impact mechanism)

Plastic frame anchor W-UR 6 SymCon®

The first 6-series plastic anchor with ETA for multiple attachment in concrete. With pre-assembled counter-sunk head screw made of zinc plated steel

- Reliable post-spreading characteristics thanks to SymCon plug screw
- Increased load introduction
- Improved load transfer
- Low assembly workload thanks to pre-assembled plug screw
- The hammer-in stop prevents premature expansion of the anchor during installation
- Anchorage via friction locking between wall plug body and anchoring base
- The wall plug body is made of high-quality polyamide



Anchor diameter	6 mm
Through-hole in the component to be connected (d f)	6.5 mm

Anchor length (l)	Art. no.	P. Qty.
60 mm	0912 806 402	100
80 mm	0912 806 403	100

W-UR 6 SymCon and W-UR F 6 SymCon (galvanised steel): European Technical Approval ETA-11/0309.

The anchor has European Technical Approval for use in multiple attachment of non-load-bearing systems (e.g. suspended ceilings etc.).

- Anchoring base with approval: Standard concrete \geq C12/15
- Anchoring bases without approval: Solid brick, solid sand-lime brick, vertically perforated brick, hollow sand-lime brick, hollow lightweight concrete blocks, solid bricks and blocks made of lightweight concrete
- Installation temperatures: Temperature of anchoring base: $\geq -20^{\circ}\text{C}$ Temperature of wall plug body: $\geq 0^{\circ}\text{C}$



Drill cuttings must be removed from the drill hole.

Plastic frame anchor W-UR F 6 SymCon®

The first 6-series plastic anchor with ETA approval for multiple attachment in concrete. With pre-assembled pan head screw made of zinc plated steel

- SymCon screw: Screwing in the SymCon screw ensures optimum compression of the wall plug body plastic (virtually no undercutting)
- The hammer-in stop prevents premature expansion of the anchor during installation
- Pre-assembled wall plug body and special screw – easier installation



Anchor diameter	6 mm
Anchor length (l)	60 mm
Through-hole in the component to be connected (d f)	6.5 mm

Art. no. 0912 806 802

P. Qty.: 100

W-UR 6 SymCon and W-UR F 6 SymCon (galvanised steel): European Technical Approval ETA-11/0309



Drill cuttings must be removed from the drill hole.

Plastic frame anchor W-RD

Plastic frame anchor without collar in natural colour. Unapproved

- Through-hole mounting
- Low insertion torque of screw – slight expansion of the anchor, virtually no movement of the wall plug body
- Strong twist lock
- Expansion in 4 directions, high load-bearing capacities
- Improved load transfer: Even, continuous load distribution across the entire expansion area
- The hammer-in stop prevents premature expansion of the anchor during installation
- Wall plug body made of high-quality polyamide
- Halogen-free and silicon-free
- Thermally stable from -40 °C to + 80 °C



Anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Through-hole in the component to be connected (d f)	Art. no.	P. Qty.
6 mm	60 mm	10 mm	6.5 mm	0912 806 001	100
8 mm	60 mm	10 mm	8.5 mm	0912 808 002	100
8 mm	80 mm	10 mm	8.5 mm	0912 808 003	200
8 mm	100 mm	30 mm	8.5 mm	0912 808 004	150
8 mm	120 mm	50 mm	8.5 mm	0912 808 005	100
10 mm	100 mm	30 mm	10.5 mm	0912 810 802	100

Performance data determined in Würth test laboratory

- Drill perforated and hollow blocks with a rotary drill (without impact mechanism)
- Drill cuttings must be removed from the drill hole
- Screw length = anchor length + 1x screw Ø
- Use wood or particle board screws WITHOUT an optimised thread bit (e.g. without drill tip, counter thread, ring thread etc.)

Plastic frame anchor W-RD

Plastic frame anchors with collar in natural colour.

Unapproved

- Push-through installation
- Immediate load-bearing capacity – no waiting
- Low insertion torque of screw – slight expansion of the anchor, virtually no movement of the anchor sleeve
- Strong twist lock
- Expansion in four directions – high load-bearing capacities
- Improved load transfer: Even, continuous load distribution across the entire expansion area
- The hammer-in stop prevents premature expansion of the anchor during installation
- Anchorage via friction locking and positive locking (perforated brick) between anchor sleeve and anchoring base
- Anchor sleeve made of high-quality polyamide
- Halogen and silicon-free
- Thermally stable from -40°C to +80°C



Anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Through-hole in the component to be connected (d f)	Art. no.	P. Qty.
6 mm	60 mm	10 mm	6.5 mm	0912 806 101	100
8 mm	60 mm	10 mm	8.5 mm	0912 808 102	100
8 mm	80 mm	10 mm	8.5 mm	0912 808 103	200
8 mm	100 mm	30 mm	8.5 mm	0912 808 104	150
8 mm	120 mm	50 mm	8.5 mm	0912 808 105	100

Performance data determined in Würth test laboratory

Useful information:

Drill perforated and hollow blocks with a rotary drill (without impact mechanism).

Drilling dust must be removed from the drill hole.

Screw length = anchor length + 1 x screw diameter.

Use wood or particle board screws WITHOUT an optimised thread tip (drill bit, counter thread, ring thread etc.).

Scaffolding anchor system

GR 14 mm scaffold anchors for fastening free-standing scaffolding (must be used with eyelet screw GS 12)

- Anchor sleeve and eyelet screw are perfectly coordinated to guarantee maximum safety
- Anchor made of high-quality polyamide (nylon)
- Polyamide anchors may be used only once to ensure maximum load capacity



Anchor diameter	14 mm
Embedding depth (h nom)	70 mm

Nominal drill-bit diameter (d 0)	14 mm
Drill hole depth (h 1)	80 mm

Anchor length (l) (l)	Art. no.	P. Qty.
70 mm	0912 014 070	50
100 mm	0912 014 100	50
135 mm	0912 014 135	50

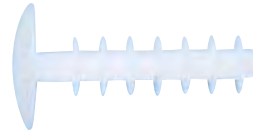
- The eyelet screw must be screwed into the anchor until the screw tip protrudes from the front of the anchor by at least 1x the screw diameter. This is the only way to achieve the maximum load capacity
- The polyamide (nylon) anchor must not be reused
- Drill hollow block brick without impact mechanism
- Using carbide multi-purpose drill bits allows for a much better drill hole to be produced in perforated brick and much higher extraction values
- Hollow block brick should generally be drilled without an impact mechanism

Cover cap AK

For scaffolding anchor GR 14

Colour: White

Nominal diameter	14 mm
Colour	White



Art. no. 0912 014 027

P. Qty.: 50

Eyelet screw GS

For scaffolding anchor GR, 14 mm. Steel 4.8, blue zinc-plated.



- Anchor sleeve and eyelet screw are perfectly coordinated to guarantee maximum safety
- Eyelet screw, steel 4.8

Screw diameter (ds)	Screw length	Embedding depth (h s)	Nominal drill hole diameter	Drill hole depth (t)	Art. no.	P. Qty.
8 mm	80 mm	50 mm	10 mm	60 mm	0160 808 80	20
8 mm	100 mm	50 mm	10 mm	60 mm	0160 808 100	20
8 mm	120 mm	50 mm	10 mm	60 mm	0160 808 120	20
12 mm	90 mm	70 mm	14 mm	80 mm	0160 812 90	25
12 mm	120 mm	70 mm	14 mm	80 mm	0160 812 120	25
12 mm	160 mm	70 mm	14 mm	80 mm	0160 812 160	25
12 mm	190 mm	70 mm	14 mm	80 mm	0160 812 190	25
12 mm	230 mm	70 mm	14 mm	80 mm	0160 812 230	25
12 mm	300 mm	70 mm	14 mm	80 mm	0160 812 300	25
12 mm	350 mm	170 mm	14 mm	80 mm	0160 812 350	25
12 mm	400 mm	170 mm	14 mm	80 mm	0160 812 400	25
12 mm	450 mm	170 mm	14 mm	80 mm	0160 812 450	25

- The eyelet screw must be screwed into the anchor until the screw tip protrudes from the front of the anchor by at least 1x the screw diameter. This is the only way to achieve the maximum load capacity

- Drill hollow block brick without impact mechanism
- Using carbide multi-purpose drill bits allows for a much better drill hole to be produced in perforated brick and much higher extraction values
- Hollow block brick should generally be drilled without an impact mechanism

Plastic frame anchor W-UR 14

Universal frame anchor for concrete and masonry, suitable for scaffolding eyelet screw W-GS SymCon

Anchor sleeve made of high-quality polyamide



Anchor diameter	14 mm
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Anchor length (l)	Max. attachment height (t fix)	Art. no.	P. Qty.
110 mm	10 mm	0912 814 002	25
140 mm	40 mm	0912 814 003	25

Useful information:

The user must conduct test loading at each place of use, in accordance with German safety regulation BGI/GUV-I 663, item 4.6.3

For anchoring in solid brick and solid sand-lime brick, we recommend that you perform pull-out tests due to the differences in brick manufacturing



All-rounder chemical injection mortar WIT-VM 250

The all-rounder for concrete, masonry and reinforcement attachment with subsequent mortaring (REBAR)

- Individual attachment, cracked and non-cracked concrete, seismic performance category C1
- Masonry individual attachment (system with perforated sleeve WIT-SH)
- Masonry individual attachment (system with perforated sleeve SH)
- European Technical Assessment ETA-12/0164: Individual attachment + cracked and non-cracked concrete (anchor rod W-VD-A, standard threaded rod with acceptance test certificate 3.1), seismic performance category C1
- European Technical Assessment ETA-13/1040: Individual attachment + masonry consisting of solid and perforated brick, aerated concrete (perforated sleeve WIT-SH, anchor rod WIT-AS, female thread sleeve WIT-IG, aerated concrete only with perforated sleeve WIT-SH 18x95)
- European Technical Assessment ETA-16/0757: Individual attachment + masonry consisting of solid and perforated brick, aerated concrete (perforated sleeve SH, anchor rod W-VI-A, female thread sleeve, threaded rod with acceptance test certificate 3.1, aerated concrete only without perforated sleeve)
- European Technical Assessment ETA-12/0166: Reinforcement attachment with subsequent mortaring (REBAR) - 330-ml, 420-ml, 825-ml cartridges only

Type description	WIT-VM 250
Min./max. processing temperature/conditions	-10 to 40 °C/temperature in the anchorage ground during processing and hardening
Min./max. ambient temperature /Conditions	-40 to 120 °C/after completely curing process
Temperature resistance, long-term temperatures max.	72 °C

Temperature resistance, short-term temperatures max.	120 °C
Chemical basis	Vinylester, styrene free
Colour	Grey

Contents	Included in delivery (Lieferumfang)	Suitable application gun	Shelf life from production/conditions	Approval	Art. no.	P. Qty.
300 ml	Mortar cartridge 300 ml (tubular film) + 1 x mixer nozzle	Battery-powered application gun 330ml, Application gun WIT 330ml, Application gun MULTI, Silicone application gun 310ml	12 Month/cool and dry storage area, 5°C to 25°C	ETA-12/0164, ETA-13/1040, ETA-16/0757, ETA-20/0854	0903 450 201	1/12
330 ml	Mortar cartridge 330 ml (coaxial) + 1 x mixer nozzle	Battery-powered application gun 330ml, Application gun WIT 330ml, HandyMax 330 ml, Application gun MULTI, EasyMax 330 ml	18 Month/cool and dry storage area, 5°C to 25°C	ETA-12/0164, ETA-13/1040, ETA-12/0166, ETA-16/0757, ETA-20/0854	0903 450 202	1/12
420 ml	Mortar cartridge 420 ml (coaxial) + 1 x mixer nozzle	Battery-powered application gun 420ml, Application gun MULTI, Application gun WIT 420ml, Pneumatic application gun 420ml, EasyMax 420 ml, HandyMax 420 ml	18 Month/cool and dry storage area, 5°C to 25°C	ETA-12/0164, ETA-13/1040, ETA-12/0166, ETA-16/0757, ETA-20/0854	0903 450 205	1/12
825 ml	Mortar cartridge 825 ml (side-by-side) + 1 x mixer nozzle	Battery-powered application gun 825ml, Pneumatic application gun 825ml	18 Month/cool and dry storage area, 5°C to 25°C	ETA-12/0164, ETA-13/1040, ETA-12/0166, ETA-16/0757, ETA-20/0854	0903 450 206	1/8

Chemical injection mortar WIT-PE 500

For concrete and reinforcement attachment with subsequent mortaring (REBAR). Long processing time, ideal for deep anchor depths

- Two-component reactive resin mortar, pure epoxy, styrene-free
- Reinforcement attachment with subsequent mortaring (REBAR)
- Cartridge can continue to be used until the best before date, by changing the mixer nozzle or resealing it with the end cap

Type description	WIT-PE 500
Container	Double cartridge
Min./max. processing temperature/conditions	5 to 40 °C/temperature in the anchorage ground during processing and hardening
Min./max. ambient temperature /Conditions	-40 to 72 °C/after completely curing process
Temperature resistance, long-term temperatures max.	43 °C



Temperature resistance, short-term temperatures max.	72 °C
Shelf life from production/conditions	24 Month/cool and dry storage area, 5°C to 25°C
Approval	ETA-09/0040, ETA-07/0313
Chemical basis	Pure-Epoxy, styrene free

Contents	Included in delivery (Lieferumfang)	Suitable application gun	Colour	Art. no.	P. Qty.
385 ml	Mortar cartridge 385 ml (side-by-side) + 1 x mixer nozzle	Battery-powered application gun 585ml, Pneumatic application gun 585ml, EasyMax 385 ml, HandyMax 585 ml	Grey	0903 480 004	1/12
385 ml	Mortar cartridge 385 ml (side-by-side) + 1 x mixer nozzle	Battery-powered application gun 585ml, Pneumatic application gun 585ml, EasyMax 385 ml, HandyMax 585 ml	Red	0903 480 001	1/12
585 ml	Mortar cartridge 585 ml (side-by-side) + 1 x mixer nozzle	Battery-powered application gun 585ml, Application gun MULTI, HandyMax 585 ml, Pneumatic application gun 585ml	Grey	0903 480 005	1/12
1400 ml	Mortar cartridge 1400 ml (side-by-side) + 1 x mixer nozzle	Pneumatic application gun 1400ml	Red	0903 480 002	1/5

- European Technical Assessment ETA-09/0040: Individual attachment + cracked and non-cracked concrete (anchor rod W-VD-A., anchor rod W-VI-A, standard threaded rod with acceptance test certificate 3.1), seismic performance category C1 (M12 to M30) and C2 (M12, M16)
- European Technical Assessment ETA-07/0313: Reinforcement attachment with subsequent mortaring (REBAR)



Fire protection 50
certified



**Seismic C1
and C2**

Chemical injection mortar **WIT-PE 1000**

Pure epoxy mortar with a long processing time, ideal for large anchoring depths and drilling holes as well as high temperatures. For compound anchor, concrete and reinforcement attachment with subsequent mortaring (REBAR)

- Two-component reactive resin mortar, pure epoxy, styrene-free
- Reinforcement attachment with subsequent mortaring



Type description	WIT-PE 1000
Container	Cartridge
Min./max. processing temperature/conditions	0 to 40 °C/temperature in the anchorage ground during processing and hardening
Min./max. ambient temperature /Conditions	-40 to 72 °C/after completely curing process
Temperature resistance, long-term temperatures max.	24 °C

Temperature resistance, short-term temperatures max.	72 °C
Shelf life from production/conditions	24 Month/cool and dry storage area, 5°C to 25°C
Approval	ETA-19/0542, ETA-19/0543
Chemical basis	Pure-Epoxy, styrene free
Colour	Grey

Contents	Suitable application gun	Art. no.	P. Qty.
440 ml	Battery-powered application gun 585ml, Application gun MULTI, Pneumatic application gun 585ml, HandyMax 585 ml	5918 605 440	1/12
585 ml	Battery-powered application gun 585ml, Application gun MULTI, Pneumatic application gun 585ml, HandyMax 585 ml	5918 605 585	1/12
1400 ml	Pneumatic application gun 1400ml	5918 605 140	1/5

- European Technical Assessment ETA-19/0542: Individual attachment + cracked and non-cracked concrete (anchor rod W-VI-A, anchor rod W-VD-A, standard threaded rod with acceptance test certificate 3.1, female thread anchor W-VI-IG), seismic performance category C1 (M8 to M30) and C2 (M12 to M24)
- European Technical Assessment ETA-19/0543: Reinforcement attachment with subsequent mortaring (REBAR)

Chemical injection mortar Natural stone specialist WIT-EA 150

Special mortar for natural stone. Also suitable for solid block masonry and non-cracked concrete

- 2-component reaction resin mortar, epoxy acrylate with styrene
- No staining when used in natural stone (a test should be performed beforehand on a stone sample to check whether the mortar compound causes discolouration)
- Cartridges can be used up to expiration of the best before date by replacing the mixer nozzle or by being closed again with sealing cap



Type description	WIT-EA 150
Min./max. processing temperature/conditions	-5 to 35 °C/temperature in the anchorage ground during processing and hardening
Min./max. ambient temperature /Conditions	-40 to 80 °C/after completely curing process
Temperature resistance, long-term temperatures max.	50 °C
Temperature resistance, short-term temperatures max.	80 °C
Shelf life from production/conditions	18 Month/cool and dry storage area, 5°C to 25°C
Chemical basis	Epoxy acrylate, with styrene
Colour	Grey

Contents	Included in delivery (Lieferumfang)	Suitable application gun	Art. no.	P. Qty.
150 ml	Mortar cartridge 150 ml (coaxial) + 1 x mixer nozzle + 1 x application plunger	Battery-powered application gun 330ml, Application gun HandyMax, Application gun MULTI, Application gun WIT 330ml, Silicone application gun 310ml	5918 301 150	1/12
330 ml	Mortar cartridge 330 ml (coaxial) + 1 x mixer nozzle	Battery-powered application gun 330ml, EasyMax 330 ml, Application gun MULTI, Application gun WIT 330ml, HandyMax 330 ml	5918 300 330	1/12



Chemical injection mortar Basic WIT-PM 200

Base mortar for masonry and non-cracked concrete

- Individual attachment of non-cracked concrete:
Anchor rod W-VI-A, anchor rod W-VD-A, standard threaded rod with acceptance test certificate 3.1
- Individual attachment for masonry (system with perforated sleeve SH):
Anchor rod W-VI-A, standard threaded rod with acceptance test certificate 3.1, perforated sleeve SH
- Two-part reactive resin mortar, styrene-free polyester
- European Technical Assessment ETA-12/0569: Individual attachment
+ non-cracked concrete (anchor rod W-VI-A, anchor rod W-VD-A, standard threaded rod with acceptance certificate 3.1)
- European Technical Assessment ETA-13/0037: Individual attachment
+ masonry (anchor rod W-VI-A, standard threaded rod 3.1, perforated sleeve SH, aerated concrete only without perforated sleeve)

Type description	WIT-PM 200
Min./max. processing temperature/conditions	-5 to 35 °C/temperature in the anchorage ground during processing and hardening
Min./max. ambient temperature/Conditions	-40 to 80 °C/after completely curing process
Temperature resistance, long-term temperatures max.	50 °C
Temperature resistance, short-term temperatures max.	80 °C
Approval	ETA-12/0569, ETA-13/0037
Chemical basis	Polyester, styrene free
Colour	Grey

Contents	Included in delivery (Lieferumfang)	Suitable application gun	Shelf life from production/ conditions	Art. no.	P. Qty.
150 ml	Mortar cartridge 150 ml (coaxial) + 1 x mixer nozzle + 1 x application plunger	Battery-powered application gun 330ml, Application gun HandyMax, Application gun MULTI, Application gun WIT 330ml, Silicone application gun 310ml	18 Month/cool and dry storage area, 5°C to 25°C	5918 241 150	1/12
300 ml	Mortar cartridge 300 ml (tubular film) + 1 x mixer nozzle	Battery-powered application gun 330ml, Application gun MULTI, Application gun WIT 330ml, Silicone application gun 310ml	12 Month/cool and dry storage area, 5°C to 25°C	5918 242 300	1/12
330 ml	Mortar cartridge 330 ml (coaxial) + 1 x mixer nozzle	Battery-powered application gun 330ml, Application gun HandyMax, Application gun MULTI, Application gun WIT 330ml, EasyMax 330 ml, HandyMax 330 ml	18 Month/cool and dry storage area, 5°C to 25°C	5918 240 330	1/12

Chemical injection mortar Concrete Multi WIT-UH 300

High-performance mortar for concrete and reinforcement attachment with subsequent mortaring (REBAR)

- Two-component reactive resin mortar, urethane vinyl ester hybrid mortar, styrene-free
- Reinforcement attachment with subsequent mortaring

Type description	WIT-UH 300
Min./max. processing temperature/conditions	-5 to 40 °C/temperature in the anchorage ground during processing and hardening
Min./max. ambient temperature /Conditions	-40 to 160 °C/after completely curing process
Temperature resistance, long-term temperatures max.	100 °C
Temperature resistance, short-term temperatures max.	160 °C
Shelf life from production/ conditions	18 Month/cool and dry storage area, 5°C to 25°C
Approval	ETA-17/0036, ETA-17/0127
Chemical basis	Two-component resin
Colour	Grey



Container	Contents	Suitable application gun	Art. no.	P. Qty.
Coaxial cartridge	280 ml	Battery-powered application gun 330ml, Application gun HandyMax, Application gun MULTI, Application gun WIT 330ml, Silicone application gun 310ml	5918 504 280	1/12
Coaxial cartridge	320 ml	Battery-powered application gun 330ml, HandyMax 330 ml, Application gun MULTI, Application gun WIT 330ml, EasyMax 330 ml	5918 500 320	1/12
Coaxial cartridge	420 ml	Battery-powered application gun 420ml, Application gun MULTI, Application gun WIT 420ml, Pneumatic application gun 420ml, EasyMax 420 ml, HandyMax 420 ml	5918 500 420	1/12
Double cartridge	825 ml	Battery-powered application gun 825ml, Pneumatic application gun 825ml	5918 503 825	1/8

- European Technical Assessment ETA-17/0127: Individual attachment + cracked and non-cracked concrete (anchor rod W-VI-A, anchor rod W-VD-A, standard threaded rod with acceptance test certificate 3.1, female thread anchor W-VI-IG), seismic performance category C1 (M8 to M30) and C2 (M12 to M24)
- European Technical Assessment ETA-18/0509: Individual attachment + cracked and non-cracked concrete (anchor rod W-VI-A, anchor rod W-VD-A, standard threaded rod with acceptance test certificate 3.1), seismic performance category C1 (M8 to M30) and C2 (M12 to M24)
- European Technical Assessment ETA-17/0036: Reinforcement attachment with subsequent mortaring (REBAR)



**Fire protection
certified**

**Seismic C1
and C2**

Chemical injection mortar WIT-NORDIC

The winter mortar (installation down to -20 °C possible), for concrete and masonry

Ideal for construction sites in winter

- Can be used with an ambient and mortar temperature down to -20 °C
- Cartridge and storage temperature above -20 °C
- Fixing point, cracked and non-cracked concrete, seismic performance category C1:
Anchor rod W-VI-A, anchor rod W-VD-A, standard threaded rod with acceptance test certificate 3.1
- Fixing point masonry:
Perforated sleeve SH, anchor rod W-VI-A, standard threaded rod with acceptance certificate



Type description	WIT-NORDIC
Contents	330 ml
Included in delivery (Lieferumfang)	Mortar cartridge 330 ml (coaxial) + 1 x mixer nozzle
Suitable application gun	Battery-powered application gun 330ml, Application gun MULTI, Application gun WIT 330ml, Application gun HandyMax, EasyMax 330 ml, HandyMax 330 ml

Min./max. processing temperature/conditions	-20 to 20 °C/temperature in the anchorage ground during processing and hardening
Min./max. ambient temperature /Conditions	-40 to 120 °C/after completely curing process
Temperature resistance, long-term temperatures max.	72 °C
Temperature resistance, short-term temperatures max.	120 °C
Shelf life from production/conditions	18 Month/cool, dry and dark storage, -20 °C to 20 °C
Approval	ETA-12/0164, ETA-16/0757
Chemical basis	Vinylester, styrene free
Colour	Grey

Art. no. 0903 450 102

P. Qty.: 1/12

- European Technical Assessment ETA-12/0164: Fixing point + cracked and non-cracked concrete (anchor rod W-VI-A, anchor rod W-VD-A, standard threaded rod with acceptance test certificate 3.1), seismic performance category C1
- European Technical Assessment ETA-16/0757: Fixing point + masonry (perforated sleeve SH, anchor rod W-VI-A, standard threaded rod with acceptance certificate 3.1)



**Seismic C1
and C2**

Useful information:

WIT-NORDIC is suitable for extremely low temperatures (cartridge, environment, anchoring base) down to -20°C. Use at temperatures of +20°C or above (cartridge, environment, anchoring base) is not recommended.

Chemical injection mortar WIT-VIZ Express

Fast curing composite mortar for the injection systems W-VIZ (concrete) and W-VIZ dynamic (fatigue-related influences)

- Fast curing
- Cartridge can continue to be used until the best before date, by changing the mixer nozzle or resealing it with the end cap
- Two-part reactive resin mortar, styrene-free vinylester

Type description	WIT-EXPRESS
Container	Coaxial cartridge
Contents	330 ml
Included in delivery (Lieferumfang)	Mortar cartridge 330 ml (coaxial) + 1 x mixer nozzle
Suitable application gun	Battery-powered application gun 330ml, Application gun HandyMax, Application gun MULTI, Application gun WIT 330ml
Min./max. processing temperature/conditions	-5 to 30 °C/temperature in the anchorage ground during processing and hardening
Min./max. ambient temperature /Conditions	-40 to 120 °C/after completely curing process
Temperature resistance, long-term temperatures max.	72 °C
Temperature resistance, short-term temperatures max.	120 °C



Shelf life from production/conditions	18 Month/cool and dry storage area, 5°C to 25°C
Approval	ETA-04/0095, ETA-05/0034, DIBt Z-21.3-1909, ETA-18/0979
Chemical basis	Vinylester, styrene free
Colour	Grey

Art. no. 0903 420 303

P. Qty.: 1/12

- European Technical Assessment ETA-04/0095: Individual attachment + cracked and non-cracked concrete (anchor rod W-VIZ-A, female thread anchor W-VIZ-IG)
- European Technical Approval ETA-05/0034: Individual attachment + non-cracked concrete (Anchor rod W-VD-A, anchor rod W-VI-A)
- General technical approval Z-21.3-1909: Fatigue-inducing (dynamic) + individual attachment + cracked and non-cracked concrete (anchor rod W-VIZ-A dyn)



Seismic C1
and C2

Chemical injection mortar Concrete specialist WIT-VIZ

Composite mortar for extreme loads in concrete (injection systems F-VIZ) and fatigue-related influences (injection system W-VIZ dynamic)

- Cartridge can be reused by replacing mixer nozzle or by reclosing with sealing cap
- Individual attachment, cracked and non-cracked concrete: Anchor rod W-VIZ-A or female thread sleeve W-VIZ-IG
- Individual attachment, dynamic: Anchor rod W-VIZ-A dynamic



Type description	WIT-VM 100
Container	Coaxial cartridge
Min./max. processing temperature/conditions	-5 to 40 °C/temperature in the anchorage ground during processing and hardening
Min./max. ambient temperature /Conditions	-40 to 120 °C/after completely curing process
Temperature resistance, long-term temperatures max.	72 °C
Temperature resistance, short-term temperatures max.	120 °C
Shelf life from production/conditions	18 Month/cool and dry storage area, 5°C to 25°C
Approval	ETA-04/0095, DIBt Z-21.3-1909, ETA-18/0979
Chemical basis	Vinylester, styrene free
Colour	Grey

Contents	Included in delivery (Lieferumfang)	Suitable application gun	Art. no.	P. Qty.
150 ml	Mortar cartridge 150 ml (coaxial) + 1 x mixer nozzle + 1 x application plunger	Battery-powered application gun 330ml, HandyMax 330 ml, Application gun MULTI, Application gun WIT 330ml, Silicone application gun 310ml, EasyMax 330 ml	0905 440 002	1/12
330 ml	Mortar cartridge 330 ml (coaxial) + 1 x mixer nozzle	Battery-powered application gun 330ml, HandyMax 330 ml, Application gun MULTI, Application gun WIT 330ml, EasyMax 330 ml	0905 440 003	1/12
420 ml	Mortar cartridge 420 ml (coaxial) + 1 x mixer nozzle	Battery-powered application gun 420ml, Application gun MULTI, Application gun WIT 420ml, Pneumatic application gun 420ml, EasyMax 420 ml, HandyMax 420 ml	0905 440 004	1/12

- European Technical Assessment ETA-04/0095: Chemical injection mortar WIT-VIZ + anchor rod W-VIZ-A or female thread sleeve W-VIZ-IG
- General technical approval Z.21.3-1909: Injection mortar WIT-VIZ + anchor rod W-VIZ-A dynamic Seismic performance category C1 and C2 (W-VIZ-A M10 to M24)



**Fire protection
certified**



**Seismic C1
and C2**

Concrete screw, stud screw, LONG W-BS/S

Ideal for the economical mounting of pipe clamps, spacer sleeves, rails (M8 x 16 connecting thread), through thick insulation materials, zinc-plated steel



- Extremely flexible to use
- Very quick and easy assembly
- High load-bearing capacities with very low axial and edge clearance

Anchor size	6 mm
Thread diameter	7.5 mm
Connection thread	M8 x 16
Material	Steel
Surface	Zinc plated
External drive	WS10

Anchor length (l)	Attachment height (t fix 1)	Attachment height (t fix 2)	Attachment height (t fix 3)	Art. no.	P. Qty.
135 mm	100 mm	95 mm	80 mm	5929 186 100	100
155 mm	120 mm	115 mm	100 mm	5929 186 120	100
175 mm	140 mm	135 mm	120 mm	5929 186 140	100
195 mm	160 mm	155 mm	140 mm	5929 186 160	100

ETA-16/0043 for single mounting

Option 1, cracked and non-cracked concrete

ETA-16/0128 for multiple mounting

Concrete and hollow-core prestressed concrete ceilings

Fire resistance

R30, R60, R90, R120; Technical Report TR020 (included in approvals)



A suitable tangential impact screwdriver must be used for assembly.
 If several anchors are arranged behind each other in the same load direction, only one anchor is positioned for transverse loads.

Fixing bolt anchor W-FAZ PRO/S

High-performance stud anchors for highest loads in cracked and non-cracked concrete, zinc plated steel

- Highest load values even at low edge distance and spacing
- Quick assembly with fewer reinforcement impacts
- Economical and flexible application thanks to variable anchoring depth



Material	Steel
Surface	Zinc plated

Metric anchor diameter	Anchor length (l)	Effective length (B)	Min./max. height of the fixture (t fix)	Attachment height standard (t fix,std)	Art. no.	P. Qty.
M8	95 mm	75 mm	0-40 mm	30 mm	5930 208 030	100
M10	90 mm	70 mm	0-30 mm	10 mm	5930 210 010	50
M10	110 mm	90 mm	0-50 mm	30 mm	5930 210 030	50
M12	125 mm	100 mm	0-50 mm	30 mm	5930 212 030	25
M12	160 mm	135 mm	10-85 mm	65 mm	5930 212 065	25

European Technical Approval ETA-20/0229 for individual attachment, option 1, cracked and non-cracked concrete:

- Static or quasi-static exposure (M8 - M16)
- Seismic exposure, performance category C1 and C2 (M8 - M16)
- Fire load R30, R60, R90, R120

Load-bearing behaviour and fire load (uniform temperature curve) - expert opinion no. GS 6.1/20-018-1:

- Fire duration 180 minutes (M8 - M16)

Compound anchor mortar cartridge W-VD

For compound anchor cartridge systems W-VD (non-cracked concrete)

- High load-bearing capacities, low axial and edge clearance
- Cured injection mortar provides best possible seal for drill hole
- Attachment with low expansion pressure allows minimal edge and axial clearance
- Anchorage via bond between mortar, anchor rod and anchoring base. Galvanised steel anchor rod in sizes M8, M10, M12, M16, M20 and M24



Min./max. processing temperature	-5 to 35 °C
Shelf life from production/conditions	18 Month/cool and dry storage area, 5°C to 25°C

Type description	Effective anchoring depth (h ef)	Suitable for anchor rod	Nominal drill-bit diameter (d 0)	Drill hole depth (h 0)	Art. no.	P. Qty.
W-VD IG M10	90 mm	M10 IT	16 mm	90 mm	5915 014 095	10
W-VD IG M16	125 mm	M16 IT	25 mm	125 mm	5915 020 115	10
W-VD M8	80 mm	M8	10 mm	80 mm	5915 008 080	10
W-VD M10	90 mm	M10	12 mm	90 mm	5915 010 080	10
W-VD M12/W-VD IG M8 (without approval)	110 mm	M12, M8 IT	14 mm	110 mm	5915 012 095	10
W-VD M16/W-VD-IG M12 (without approval)	125 mm	M16, M12 IT	18 mm	125 mm	5915 016 095	10
W-VD M20	170 mm	M20	25 mm	170 mm	5915 020 175	10
W-VD M24	210 mm	M24	28 mm	210 mm	5915 024 210	5

European Technical Approval ETA-06/0074: Individual fastening + non-cracked concrete (Anchor rod W-VD-A)
Galvanised steel: European Technical Approval ETA-06/0074
Fire resistance: F30, F60, F90, F120: Exposure to fire on one side according to DIN EN 1363-1:1999-10



Clean the drill hole: 1x blow out, 1x brush out, 1x blow out, 1x brush out
Insert anchor rod using hammer drill or impact drill in rotation + impact mode.

Liquid anchor WIT-FIX

For fixing lightweight components, repairing and filling damaged or excessively large drill holes, or as a repair compound for wood material

- Easy and quick to apply
- Cures quickly – minimal wait before installation (3–5 minutes at room temperature)
- WIT-FIX can also be used as a repair compound for all wood materials
- Screws can be screwed directly into the compound once it has cured
- WIT-FIX can be painted over and sanded
- Also suitable for difficult and rotting materials (renovation work and old buildings)
- Attachment without expansion pressure



Type description	WIT-FIX
Contents	25 ml
Included in delivery (Lieferumfang)	2 x positive mixers, 2 x extensions and 2 x perforated sleeves 10 x 45
Optimum processing temperature for cartridge	20 °C
Min. processing temperature	10 °C
Min./max. curing time/conditions	3-5 min/at room temperature
Shelf life from production	12 Month
Chemical basis	Two-component polyurethane

Art. no. 0903 470 001

P. Qty.: 1/12

Anchor rod W-VIZ-A/S

For injection system W-VIZ/S (concrete). Zinc-plated steel



- Galvanised steel
- Push-through installation (M10 to M24) and cotter-pin installation (M8 to M24)
- High load-bearing capacities, low axial and edge clearance
- The injection anchor is suitable for cracked concrete (tension zone) and non-cracked concrete (compression zone)
- Attachment with low expansion pressure allows minimal edge and centre to centre distances
- The dimensions of the anchor rod enable safe expansion performance
- Mechanical drill hole cleaning: Easy to use, excellent drill hole cleaning, high load-bearing capacities
- Force-controlled/torque-controlled expanding galvanised steel anchor in sizes M8, M10, M12, M16, M20 and M24
- The force is transferred via the mechanical teeth of individual cones in the composite mortar and also via a combination of retention and friction forces in the anchoring base (concrete)

Type description	W-VIZ-A/S
Required injection mortar	WIT-VM 100, WIT-Express, WIT-VIZ, WIT-VIZ express
Approval	ETA-04/0095
Material	Steel

Metric anchor diameter	Effective anchoring depth (h _{ef})	Attachment height (t _{fix})	Anchor length (l)	Nominal drill-bit diameter (d ₀)	Art. no.	P. Qty.
M8	40 mm	15 mm	65 mm	10 mm	0905 440 811	10
M8	50 mm	15 mm	80 mm	10 mm	0905 440 801	10
M8	50 mm	30 mm	95 mm	10 mm	0905 440 802	10
M8	50 mm	45 mm	110 mm	10 mm	0905 440 803	10
M10	60 mm	10 mm	85 mm	12 mm	0905 441 001	10
M10	60 mm	20 mm	95 mm	12 mm	0905 441 002	10
M10	60 mm	30 mm	105 mm	12 mm	0905 441 003	10
M10	60 mm	60 mm	135 mm	12 mm	0905 441 004	10
M10	60 mm	100 mm	175 mm	12 mm	0905 441 005	10
M10	75 mm	20 mm	110 mm	12 mm	0905 441 011	10
M12	70 mm	25 mm	115 mm	14 mm	0905 441 211	10
M12	80 mm	10 mm	110 mm	14 mm	0905 441 201	10
M12	80 mm	25 mm	125 mm	14 mm	0905 441 202	10
M12	80 mm	50 mm	150 mm	14 mm	0905 441 203	10
M12	80 mm	100 mm	200 mm	14 mm	0905 441 204	10
M12	80 mm	125 mm	225 mm	14 mm	0905 441 205	10
M12	80 mm	165 mm	265 mm	14 mm	0905 441 206	10
M12	95 mm	25 mm	140 mm	14 mm	0905 441 221	10
M12	100 mm	25 mm	145 mm	14 mm	0905 441 251	10
M12	100 mm	60 mm	180 mm	14 mm	0905 441 252	10
M12	100 mm	100 mm	220 mm	14 mm	0905 441 253	10
M12	110 mm	25 mm	155 mm	14 mm	0905 441 261	10
M12	125 mm	25 mm	170 mm	14 mm	0905 441 271	10
M16	90 mm	30 mm	145 mm	18 mm	0905 441 611	10
M16	105 mm	30 mm	160 mm	18 mm	0905 441 621	10
M16	125 mm	30 mm	180 mm	18 mm	0905 441 601	10
M16	125 mm	60 mm	210 mm	18 mm	0905 441 602	10

Metric anchor diameter	Effective anchoring depth (h ef)	Attachment height (t fix)	Anchor length (l)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
M16	125 mm	100 mm	250 mm	18 mm	0905 441 603	10
M16	125 mm	165 mm	315 mm	18 mm	0905 441 604	10
M16	145 mm	30 mm	200 mm	18 mm	0905 441 631	10
M20	115 mm	30 mm	175 mm	22 mm	0905 442 011	5
M20	170 mm	25 mm	230 mm	24 mm	0905 442 001	5
M20	170 mm	50 mm	255 mm	24 mm	0905 442 002	5
M20	170 mm	100 mm	305 mm	24 mm	0905 442 003	5
M20	190 mm	50 mm	275 mm	24 mm	0905 442 021	5
M24	200 mm	50 mm	290 mm	26 mm	0905 442 401	5
M24	200 mm	100 mm	340 mm	26 mm	0905 442 402	5
M24	225 mm	50 mm	315 mm	26 mm	0905 442 411	5

- European Technical Approval ETA-04/0095 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2
- Fire resistance: F30, F60, F90 and F120



Suitable injection mortar: WIT-VM 100, WIT-Express
 Clean the hole: 2x blow-out, 2x mechanical brush-out, 2x blow-out
 If the drill hole is M20 or larger, blow out with compressed air using the appropriate compressed air nozzles

Anchor rod W-VIZ-A/A4

For injection system W-VIZ/A4 (concrete). Stainless steel A4



- Push-through installation (M10 to M24) and cotter-pin installation (M8 to M24)
- High load-bearing capacities, low axial and edge clearance
- The injection anchor is suitable for cracked concrete (tension zone) and non-cracked concrete (compression zone)
- Cured chemical injection mortar provides best possible seal for drill hole
- Attachment with low expansion pressure allows minimal edge and axial clearance
- The dimensions of the anchor rod enable safe expansion performance
- Mechanical drill hole cleaning: Easy to use, excellent drill hole cleaning, high load-bearing capacities
- Applying the specified torque during the anchoring process ensures secure installation
- Force-controlled/torque-controlled expanding galvanised steel anchor in sizes M8, M10, M12, M16, M20 and M24
- The force is transferred via the mechanical teeth of individual cones in the composite mortar and also via a combination of retention and friction forces in the anchoring base (concrete)

Type description	W-VIZ-A/A4
Required injection mortar	WIT-VM 100, WIT-Express, WIT-VIZ, WIT-VIZ express
Approval	ETA-04/0095
Material	Stainless steel A4

Metric anchor diameter	Effective anchoring depth (h _{ef})	Attachment height (t _{fix})	Anchor length (l)	Nominal drill-bit diameter (d ₀)	Art. no.	P. Qty.
M8	40 mm	15 mm	65 mm	10 mm	0905 450 811	10
M8	50 mm	15 mm	80 mm	10 mm	0905 450 801	10
M8	50 mm	30 mm	95 mm	10 mm	0905 450 802	10
M8	50 mm	45 mm	110 mm	10 mm	0905 450 803	10
M10	60 mm	10 mm	85 mm	12 mm	0905 451 001	10
M10	60 mm	20 mm	95 mm	12 mm	0905 451 002	10
M10	60 mm	30 mm	105 mm	12 mm	0905 451 003	10
M10	60 mm	60 mm	135 mm	12 mm	0905 451 004	10
M10	60 mm	100 mm	175 mm	12 mm	0905 451 005	10
M10	75 mm	20 mm	110 mm	12 mm	0905 451 011	10
M12	70 mm	25 mm	115 mm	14 mm	0905 451 211	10
M12	75 mm	12 mm	120 mm	12 mm	0905 451 231	10
M12	75 mm	40 mm	135 mm	12 mm	0905 451 232	10
M12	75 mm	60 mm	155 mm	12 mm	0905 451 233	10
M12	75 mm	80 mm	175 mm	12 mm	0905 451 234	10
M12	80 mm	10 mm	110 mm	14 mm	0905 451 201	10
M12	80 mm	25 mm	125 mm	14 mm	0905 451 202	10
M12	80 mm	50 mm	150 mm	14 mm	0905 451 203	10
M12	80 mm	100 mm	200 mm	14 mm	0905 451 204	10
M12	80 mm	125 mm	225 mm	14 mm	0905 451 205	10
M12	80 mm	165 mm	265 mm	14 mm	0905 451 206	10
M12	95 mm	25 mm	140 mm	14 mm	0905 451 221	10
M12	100 mm	25 mm	145 mm	14 mm	0905 451 251	10
M12	100 mm	60 mm	180 mm	14 mm	0905 451 252	10
M12	100 mm	100 mm	220 mm	14 mm	0905 451 253	10
M12	110 mm	25 mm	155 mm	14 mm	0905 451 261	10
M12	125 mm	25 mm	170 mm	14 mm	0905 451 271	10
M16	90 mm	30 mm	145 mm	18 mm	0905 451 611	10
M16	105 mm	30 mm	160 mm	18 mm	0905 451 621	10
M16	125 mm	30 mm	180 mm	18 mm	0905 451 601	10
M16	125 mm	60 mm	210 mm	18 mm	0905 451 602	10
M16	125 mm	100 mm	250 mm	18 mm	0905 451 603	10
M16	125 mm	165 mm	315 mm	18 mm	0905 451 604	10
M16	145 mm	30 mm	200 mm	18 mm	0905 451 631	10
M16	160 mm	30 mm	215 mm	18 mm	0905 451 641	10
M16	160 mm	60 mm	245 mm	18 mm	0905 451 642	10
M16	160 mm	100 mm	285 mm	18 mm	0905 451 643	10
M20	115 mm	30 mm	175 mm	24 mm	0905 452 011	5
M20	170 mm	25 mm	230 mm	24 mm	0905 452 001	5
M20	170 mm	50 mm	255 mm	24 mm	0905 452 002	5
M20	170 mm	100 mm	305 mm	24 mm	0905 452 003	5
M20	190 mm	50 mm	275 mm	24 mm	0905 452 021	5
M24	200 mm	50 mm	290 mm	26 mm	0905 452 401	5
M24	200 mm	100 mm	340 mm	26 mm	0905 452 402	5
M24	225 mm	50 mm	315 mm	26 mm	0905 452 411	5

- European Technical Approval ETA-04/0095 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2
- Fire resistance: F30, F60, F90 and F120



Suitable injection mortar: WIT-VM 100, WIT-Express

Clean the hole: 2x blow-out, 2x mechanical brush-out, 2x blow-out

If the drill hole is M20 or larger, blow out with compressed air using the appropriate compressed air nozzles

Anchor rod W-VIZ-A/S DYNAMIC

For injection system W-VIZ/S dynamic (concrete, fatigue-related exposure). Zinc-plated steel



- Push-through installation
- Easy installation: Anchor is supplied pre-assembled (no laborious assembly of anchor components required).
- The W-VIZ dynamic injection system enables considerably more cost-effective dimensioning of the anchorage than previous systems (much greater loads are permissible for axial and diagonal tension, a distinction can be made between static and non-static loads, and greater loads may be transferred with a limited number of load cycles)
- Cured chemical injection mortar provides best possible seal for drill hole
- Attachment with low expansion pressure allows minimal edge and centre to centre distances
- The dimensions of the anchor rod enable safe expansion performance
- Mechanical drill hole cleaning: Easy to use, excellent drill hole cleaning, high load-bearing capacities
- Cartridge can be reused by changing the mixer nozzle or resealing it with the end cap
- Force-controlled/torque-controlled expanding galvanised steel anchor in sizes M12, M16, M20 or high corrosion-resistant steel (HCR, 1.4529) in size M16
- The force is transferred via the mechanical interlocking of individual cones in the composite mortar and by a combination of retention and frictional forces in the anchoring base (concrete)

Type description	W-VIZ-A/S dyn.
Required injection mortar	WIT-VM 100, WIT-Express, WIT-VIZ, WIT-VIZ express
Approval	DIBt Z-21.3-1909, ETA-18/0979
Material	Steel
Surface	Zinc plated

Metric anchor diameter	Effective anchoring depth (h ef)	Attachment height (t fix)	Anchor length (l)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
M12	100 mm	25 mm	160 mm	14 mm	0905 481 201	10
M12	100 mm	50 mm	185 mm	14 mm	0905 481 202	10
M16	125 mm	30 mm	200 mm	18 mm	0905 481 601	10
M16	125 mm	50 mm	220 mm	18 mm	0905 481 602	10
M20	170 mm	50 mm	280 mm	24 mm	0905 482 001	5

General construction permit Z-21.3-1909 for individual attachment, cracked and non-cracked concrete + fatigue-inducing (dynamic)

W-VIZ/HCR dynamic in highly corrosion-resistant steel (material type no. 1.4529) available on special order

Suitable chemical injection mortar: WIT-VM 100, WIT-EXPRESS

Clean the hole: 2x blow-out, 2x mechanical brush-out, 2x blow-out

If the drill hole is M20 or larger, blow out with compressed air using the appropriate compressed air nozzles

Female thread anchor W-VIZ-IG/A4

For injection systems W-VIZ-IG/A4 (concrete). Stainless steel A4



- Standard threaded rods and screws can be used (see ETA-04/0095 for requirements)
- High load-bearing capacities
- Can be set flush with surface: Attached parts can be removed/remounted at any time.
- The injection anchor is suitable for cracked concrete (tension zone) and non-cracked concrete (compression zone)
- Cured chemical injection mortar provides best possible seal for drill hole
- Attachment with low expansion pressure allows minimal edge and axial clearance
- The dimensions of the anchor rod enable safe expansion performance
- Mechanical drill hole cleaning: Easy to use, excellent drill hole cleaning, high load-bearing capacities
- Force-controlled/torque-controlled expanding galvanised steel anchor in sizes M6, M8, M10, M12, M16 and M20
- The force is transferred via the mechanical teeth of individual cones in the composite mortar and also via a combination of retention and friction forces in the anchoring base (concrete)

Type description	W-VIZ-IG/A4
Approval	ETA-04/0095
Required injection mortar	WIT-VM 100, WIT-Express, WIT-VIZ, WIT-VIZ express
Material	Stainless steel A4
Surface	Coated

Anchor internal diameter metric	Effective anchoring depth (h _{ef})	Anchor length (l) (l)	Thread length (L _{th})	Minimum screw-in depth (L _s min)	Art. no.	P. Qty.
IT M6	40 mm	41 mm	12 mm	7 mm	5916 206 041	10
IT M6	50 mm	52 mm	12 mm	7 mm	5916 206 052	10
IT M8	60 mm	63 mm	16 mm	9 mm	5916 208 063	10
IT M8	75 mm	78 mm	16 mm	9 mm	5916 208 078	10
IT M10	70 mm	74 mm	20 mm	12 mm	5916 210 074	10
IT M10	80 mm	84 mm	20 mm	12 mm	5916 210 084	10
IT M12	90 mm	94 mm	24 mm	14 mm	5916 212 094	10
IT M12	105 mm	109 mm	24 mm	14 mm	5916 212 109	10
IT M12	125 mm	130 mm	24 mm	14 mm	5916 212 130	10
IT M16	115 mm	120 mm	32 mm	18 mm	5916 216 120	5
IT M16	170 mm	180 mm	32 mm	18 mm	5916 216 180	5
IT M20	170 mm	182 mm	40 mm	22 mm	5916 220 182	5

European Technical Assessment ETA-04/0095 for individual attachment, option 1, cracked and non-cracked concrete



Suitable chemical injection mortar: WIT-VM 100, WIT-Express

Clean the hole: 2x blow-out, 2x mechanical brush-out, 2x blow-out

As of W-VIZ-IG M16, blow out the drill hole with compressed air (min. 6 bar, oil-free) using the corresponding compressed-air nozzles

Female thread anchor W-VIZ-IG/S

For injection system W-VIZ-IG/S (concrete). Zinc-plated steel



- Standard threaded rods and screws can be used (see ETA-04/0095 for requirements)
- High load-bearing capacities
- Can be set flush with surface: Attached parts can be removed/remounted at any time
- The injection anchor is suitable for cracked concrete (tension zone) and non-cracked concrete (compression zone)
- Cured chemical injection mortar provides best possible seal for drill hole
- Attachment with low expansion pressure allows minimal edge and axial clearance
- The dimensions of the anchor rod enable safe expansion performance
- Mechanical drill hole cleaning: Easy to use, excellent drill hole cleaning, high load-bearing capacities
- Force-controlled/torque-controlled expanding galvanised steel anchor in sizes M6, M8, M10, M12, M16 and M20
- The force is transferred via the mechanical teeth of individual cones in the composite mortar and also via a combination of retention and friction forces in the anchoring base (concrete)

Type description	W-VIZ-IG/S
Approval	ETA-04/0095
Required injection mortar	WIT-VM 100, WIT-Express, WIT-VIZ, WIT-VIZ express
Material	Steel
Surface	Coated

Anchor internal diameter metric	Effective anchoring depth (h _{ef})	Anchor length (l) (l)	Thread length (L _{th})	Minimum screw-in depth (L _s min)	Art. no.	P. Qty.
IT M6	40 mm	41 mm	12 mm	7 mm	5916 106 041	10
IT M6	50 mm	52 mm	12 mm	7 mm	5916 106 052	10
IT M8	60 mm	63 mm	16 mm	9 mm	5916 108 063	10
IT M8	75 mm	78 mm	16 mm	9 mm	5916 108 078	10
IT M10	70 mm	74 mm	20 mm	12 mm	5916 110 074	10
IT M10	80 mm	84 mm	20 mm	12 mm	5916 110 084	10
IT M12	90 mm	94 mm	24 mm	14 mm	5916 112 094	10
IT M12	105 mm	109 mm	24 mm	14 mm	5916 112 109	10
IT M12	125 mm	130 mm	24 mm	14 mm	5916 112 130	10
IT M16	115 mm	120 mm	32 mm	18 mm	5916 116 120	5
IT M16	170 mm	180 mm	32 mm	18 mm	5916 116 180	5
IT M20	170 mm	182 mm	40 mm	22 mm	5916 120 182	5

European Technical Assessment ETA-04/0095 for individual attachment, option 1, cracked and non-cracked concrete



Suitable chemical injection mortar: WIT-VM 100, WIT-Express

Clean the hole: 2x blow-out, 2x mechanical brush-out, 2x blow-out

As of W-VIZ-IG M16, blow out the drill hole with compressed air (min. 6 bar, oil-free) using the corresponding compressed-air nozzles

Anchor rod W-VD-A/S

For compound anchor cartridge system W-VD and WIT injection systems in concrete. Zinc-plated steel

Anchor rod with point angle and hexagon socket (makes rotation-impact insertion possible with cartridge system)



Material	Steel
Surface	Zinc plated

Type description	Metric anchor diameter	Property class	Attachment height (t fix)	Anchor length (l) (l)	Art. no.	P. Qty.
W-VD-A/S 5.8	M8	5.8	20 mm	110 mm	5915 108 110	10
W-VD-A/S 5.8	M8	5.8	60 mm	150 mm	5915 108 150	10
W-VD-A/S 5.8	M10	5.8	15 mm	115 mm	5915 110 115	10
W-VD-A/S 5.8	M10	5.8	30 mm	130 mm	5915 110 130	10
W-VD-A/S 5.8	M10	5.8	65 mm	165 mm	5915 110 165	10
W-VD-A/S 5.8	M10	5.8	90 mm	190 mm	5915 110 190	10
W-VD-A/S 5.8	M12	5.8	10 mm	135 mm	5915 112 135	10
W-VD-A/S 5.8	M12	5.8	35 mm	160 mm	5915 112 160	10
W-VD-A/S 5.8	M12	5.8	85 mm	210 mm	5915 112 210	10
W-VD-A/S 5.8	M12	5.8	125 mm	250 mm	5915 112 250	10
W-VD-A/S 5.8	M12	5.8	175 mm	300 mm	5915 112 300	10
W-VD-A/S 5.8	M16	5.8	20 mm	165 mm	5915 116 165	10
W-VD-A/S 5.8	M16	5.8	45 mm	190 mm	5915 116 190	10
W-VD-A/S 5.8	M16	5.8	85 mm	230 mm	5915 116 230	10
W-VD-A/S 5.8	M16	5.8	105 mm	250 mm	5915 116 250	10
W-VD-A/S 5.8	M16	5.8	155 mm	300 mm	5915 116 300	10
W-VD-A/S 5.8	M20	5.8	20 mm	220 mm	5915 120 220	10
W-VD-A/S 5.8	M20	5.8	60 mm	260 mm	5915 120 260	10
W-VD-A/S 5.8	M20	5.8	100 mm	300 mm	5915 120 300	10
W-VD-A/S 5.8	M24	5.8	15 mm	260 mm	5915 124 260	5
W-VD-A/S 5.8	M24	5.8	55 mm	300 mm	5915 124 300	5
W-VD-A/S 8.8	M8	8.8	20 mm	110 mm	5915 308 110	10
W-VD-A/S 8.8	M8	8.8	60 mm	150 mm	5915 308 150	10
W-VD-A/S 8.8	M10	8.8	15 mm	115 mm	5915 310 115	10
W-VD-A/S 8.8	M10	8.8	30 mm	130 mm	5915 310 130	10
W-VD-A/S 8.8	M10	8.8	65 mm	165 mm	5915 310 165	10
W-VD-A/S 8.8	M10	8.8	90 mm	190 mm	5915 310 190	10
W-VD-A/S 8.8	M12	8.8	10 mm	135 mm	5915 312 135	10
W-VD-A/S 8.8	M12	8.8	35 mm	160 mm	5915 312 160	10
W-VD-A/S 8.8	M12	8.8	85 mm	210 mm	5915 312 210	10
W-VD-A/S 8.8	M12	8.8	125 mm	250 mm	5915 312 250	10
W-VD-A/S 8.8	M12	8.8	175 mm	300 mm	5915 312 300	10
W-VD-A/S 8.8	M16	8.8	20 mm	165 mm	5915 316 165	10
W-VD-A/S 8.8	M16	8.8	45 mm	190 mm	5915 316 190	10
W-VD-A/S 8.8	M16	8.8	85 mm	230 mm	5915 316 230	10
W-VD-A/S 8.8	M16	8.8	105 mm	250 mm	5915 316 250	10
W-VD-A/S 8.8	M16	8.8	155 mm	300 mm	5915 316 300	10
W-VD-A/S 8.8	M20	8.8	20 mm	220 mm	5915 320 220	10
W-VD-A/S 8.8	M20	8.8	60 mm	260 mm	5915 320 260	10
W-VD-A/S 8.8	M20	8.8	100 mm	300 mm	5915 320 300	10
W-VD-A/S 8.8	M24	8.8	15 mm	260 mm	5915 324 260	5
W-VD-A/S 8.8	M24	8.8	55 mm	300 mm	5915 324 300	5

The anchor rod is covered by the following approvals:

- Compound anchor cartridge system W-VD, option 8: ETA-06/0074
- BETON-MULTI WIT-UH 300 injection system, option 1: ETA-17/0127
- ALLROUNDER WIT-VM 250 injection system, option 1: ETA-12/0164
- WIT-Nordic injection system, option 1: ETA-12/0164
- WIT-PE 500 injection system, option 1: ETA-09/0040
- BASIC WIT-PM 200 injection system, option 7: ETA-12/0569



Anchor rod W-VD-A/A4

For compound anchor cartridge system W-VD and WIT injection systems in concrete. Stainless steel A4



- Stainless steel A4
- Anchor rod with point angle and hexagon socket (makes rotation-impact insertion possible with cartridge system)

Type description	W-VD-A/A4
Property class	70
Material	Stainless steel A4

Metric anchor diameter	Attachment height (t fix)	Anchor length (l) (l)	Effective anchoring depth (h ef)	Nominal drill-bit diameter cartridge system (d 0)	Art. no.	P. Qty.
M8	20 mm	110 mm	80 mm	10 mm	5915 208 110	10
M8	60 mm	150 mm	80 mm	10 mm	5915 208 150	10
M10	15 mm	115 mm	90 mm	12 mm	5915 210 115	10
M10	30 mm	130 mm	90 mm	12 mm	5915 210 130	10
M10	65 mm	165 mm	90 mm	12 mm	5915 210 165	10
M10	90 mm	190 mm	90 mm	12 mm	5915 210 190	10
M12	10 mm	135 mm	110 mm	14 mm	5915 212 135	10
M12	35 mm	160 mm	110 mm	14 mm	5915 212 160	10
M12	85 mm	210 mm	110 mm	14 mm	5915 212 210	10
M12	125 mm	250 mm	110 mm	14 mm	5915 212 250	10
M12	175 mm	300 mm	110 mm	14 mm	5915 212 300	10
M16	20 mm	165 mm	125 mm	18 mm	5915 216 165	10
M16	45 mm	190 mm	125 mm	18 mm	5915 216 190	10
M16	85 mm	230 mm	125 mm	18 mm	5915 216 230	10
M16	105 mm	250 mm	125 mm	18 mm	5915 216 250	10
M16	155 mm	300 mm	125 mm	18 mm	5915 216 300	10
M20	20 mm	220 mm	170 mm	25 mm	5915 220 220	10
M20	60 mm	260 mm	170 mm	25 mm	5915 220 260	10
M20	100 mm	300 mm	170 mm	25 mm	5915 220 300	10
M24	15 mm	260 mm	210 mm	28 mm	5915 224 260	5
M24	55 mm	300 mm	210 mm	28 mm	5915 224 300	5

The anchor rod is covered by the following approvals:

- Compound anchor cartridge system W-VD, option 8: ETA-06/0074
- BETON-MULTI WIT-UH 300 injection system, option 1: ETA-17/0127
- ALLROUNDER WIT-VM 250 injection system, option 1: ETA-12/0164
- WIT-Nordic injection system, option 1: ETA-12/0164
- WIT-PE 500 injection system, option 1: ETA-09/0040
- BASIC WIT-PM 200 injection system, option 7: ETA-12/0569



Female thread sleeve W-VD-IG/A4

For compound anchor cartridge system W-VD and WIT injection systems in non-cracked concrete. A4 stainless steel



Anchorage via bond between mortar, female thread sleeve and anchoring base

Stainless steel A4 female thread sleeve in sizes (female thread) M8, M10, M12 and M16

Type description	W-VD-IG/A4
Surface	Plain
Material	Stainless steel A4

Anchor internal diameter metric	Female-thread length	Anchor diameter (d)	Effective anchoring depth (h _{ef})	Anchor length (l) (l)	Art. no.	P. Qty.
IT M8	25 mm	12 mm	90 mm	90 mm	0905 411 080	10
IT M10	30 mm	14 mm	90 mm	90 mm	0905 411 010	10
IT M12	35 mm	16 mm	100 mm	100 mm	0905 411 012	10
IT M16	40 mm	22 mm	120 mm	120 mm	0905 411 016	10

Female thread sleeve W-VD-IG/S

For compound anchor cartridge system W-VD and WIT injection systems in non-cracked concrete. Zinc-plated steel



Anchorage via bond between mortar, female thread sleeve and anchoring base

Galvanised steel and stainless steel A4 female thread sleeve in sizes (female thread) M8, M10, M12 and M16

Type description	W-VD-IG/S
Surface	Zinc plated
Material	Steel

Anchor internal diameter metric	Female-thread length	Anchor diameter (d)	Effective anchoring depth (h _{ef})	Anchor length (l) (l)	Art. no.	P. Qty.
IT M8	25 mm	12 mm	90 mm	90 mm	0905 410 080	10
IT M10	30 mm	14 mm	90 mm	90 mm	0905 410 010	10
IT M12	35 mm	16 mm	100 mm	100 mm	0905 410 012	10
IT M16	40 mm	22 mm	120 mm	120 mm	0905 410 016	10

Drill hole cleaning: 3x blow out

Assembly instructions: Insert female thread sleeve using hammer drill or impact drill in rotation + impact mode.

Anchor rod bulk stock, galvanised steel

For WIT injection system in concrete and masonry.
Zinc-plated steel



Type description	WIT-THRROD
Anchor length (l)	1000 mm
Material	Steel

Property class	Metric anchor diameter	Nominal drill-bit diameter injection system (d 0)	Approval	Suitable for sieve sleeve	Art. no.	P. Qty.
5.8	M8	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127	SH 12 x 80, SH 16 x 85, SH 16 x 130, SH 16 x 130/330	5916 008 999	10
5.8	M10	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127	SH 16 x 85, SH 16 x 130, SH 16 x 130/330	5916 010 999	10
5.8	M12	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127	SH 20 x 85, SH 20 x 130, SH 20 x 200	5916 012 999	10
5.8	M16	18 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127	SH 20 x 85, SH 20 x 130, SH 20 x 200	5916 016 999	10
5.8	M20	24 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127		5916 020 999	5
5.8	M24	28 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127		5916 024 999	5
8.8	M8	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127	SH 12 x 80, SH 16 x 85, SH 16 x 130, SH 16 x 130/330	5916 208 999	10

Property class	Metric anchor diameter	Nominal drill-bit diameter injection system (d 0)	Approval	Suitable for sieve sleeve	Art. no.	P. Qty.
8.8	M10	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127	SH 16 x 85, SH 16 x 130, SH 16 x 130/330	5916 210 999	10
8.8	M12	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127	SH 20 x 130, SH 20 x 200, SH 20 x 85	5916 212 999	10
8.8	M16	18 mm	ETA-05/0034, ETA-09/0040, ETA-12/0164, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127	SH 20 x 130, SH 20 x 200, SH 20 x 85	5916 216 999	10

The anchor rod is covered by the following approvals:

- ALLROUNDER WIT-VM 250 injection system, option 1: ETA-12/0164
- WIT-Nordic injection system, option 1: ETA-12/0164
- BETON-MULTI WIT-UH 300 injection system, option 1: ETA-17/0127
- WIT-PE 500 injection system, option 1: ETA-09/0040
- BASIC WIT-PM 200 injection system, option 7: ETA-12/0569
- BASIC WIT-PM 200 injection system, masonry: ETA-13/0037
- ALLROUNDER WIT-VM 250 injection system, masonry: ETA-16/0757
- WIT-Nordic injection system, masonry: ETA-16/0757

Anchor rod, stainless steel A4 by the metre

For WIT injection system in concrete and masonry.

Stainless steel A4

- Strength A4-70



Type description	WIT-THRROD
Property class	70
Anchor length (l)	1000 mm
Material	Stainless steel A4

Metric anchor diameter	Nominal drill-bit diameter injection system (d 0)	Approval	Suitable for sieve sleeve	Art. no.	P. Qty.
M8	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127	SH 12 x 80, SH 16 x 130, SH 16 x 130/330, SH 16 x 85	5916 108 999	10
M10	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127	SH 16 x 85, SH 16 x 130, SH 16 x 130/330	5916 110 999	10
M12	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127	SH 20 x 85, SH 20 x 130, SH 20 x 200	5916 112 999	10
M16	18 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127	SH 20 x 85, SH 20 x 130, SH 20 x 200	5916 116 999	10
M20	24 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127		5916 120 999	5
M24	28 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127		5916 124 999	5

The anchor rod is covered by the following approvals:

- ALLROUNDER WIT-VM 250 injection system, option 1: ETA-12/0164
- WIT-Nordic injection system, option 1: ETA-16/0164
- BETON-MULTI WIT-UH 300 injection system, option 1: ETA-17/0127
- WIT-PE 500 injection system, option 1: ETA-09/0040
- BASIC WIT-PM 200 injection system, option 7: ETA-12/0569
- BASIC WIT-PM 200 injection system, masonry: ETA-13/0037
- ALLROUNDER WIT-VM 250 injection system, masonry: ETA-16/0757
- WIT-Nordic injection system, masonry ETA-16/0757

Anchor rod WIT-AS

**For WIT-VM 250 injection system for masonry.
Zinc-plated steel**

Type description	WIT-AS
Property class	5.8
Required injection mortar	WIT-VM 250
Approval	ETA-13/1040
Material	Steel
Surface	Zinc plated



Metric anchor diameter	Anchor length (l) (l)	Attachment height (t fix)	Nominal drill-bit diameter (d 0)	Effective anchoring depth (h ef)	Art. no.	P. Qty.
M6	65 mm	10 mm	8 mm	49 mm	0903 451 061	10
M8	65 mm	10 mm	10 mm	49 mm	0903 451 071	10
M8	110 mm	10 mm	10 mm	93 mm	0903 451 081	10
M10	120 mm	16 mm	12 mm	93 mm	0903 451 101	10
M12	125 mm	20 mm	14 mm	93 mm	0903 451 121	10

Injection system ALLROUNDER WIT-VM 250, masonry + perforated sleeve WIT-SH, European Technical Assessment ETA-13/1040



In aerated concrete, only anchoring with the perforated sleeve WIT-SH 18/95 is permitted!

Anchor rod WIT-AS A4

For WIT-VM 250 injection system for masonry. Stainless steel A4



Type description	WIT-AS A4
Property class	70
Required injection mortar	WIT-VM 250
Approval	ETA-13/1040
Material	Stainless steel A4
Surface	Plain

Metric anchor diameter	Anchor length (l) (l)	Attachment height (t fix)	Nominal drill-bit diameter (d 0)	Effective anchoring depth (h ef)	Art. no.	P. Qty.
M6	65 mm	10 mm	8 mm	49 mm	0903 452 061	10
M8	65 mm	10 mm	10 mm	49 mm	0903 452 071	10
M8	110 mm	10 mm	10 mm	93 mm	0903 452 081	10
M10	120 mm	16 mm	12 mm	93 mm	0903 452 101	10
M12	125 mm	20 mm	14 mm	93 mm	0903 452 121	10

Injection system ALLROUNDER WIT-VM 250, masonry + perforated sleeve WIT-SH, European Technical Assessment ETA-13/1040



In aerated concrete, only anchoring with the perforated sleeve WIT-SH 18/95 is permitted!

Female thread sleeve WIT-IG

For WIT-VM 250 injection system for masonry. Zinc plated steel

- Galvanised steel



Type description	WIT-IG
Anchor length (l)	93 mm
Min./max. screw-in depth	8-20 mm
Nominal drill-bit diameter (d 0)	14 mm

Nominal drill-bit diameter sieve sleeve (d 0)	18 mm
Drill hole depth (h 0)	100 mm
Effective anchoring depth (h ef)	95 mm
Suitable for sieve sleeve	WIT-SH 18/95
Required injection mortar	WIT-VM 250
Approval	ETA-13/1040
Material	Steel
Surface	Zinc plated

Female thread	Art. no.	P. Qty.
6 mm	0903 461 061	10
8 mm	0903 461 081	10

Injection system ALLROUNDER WIT-VM 250, masonry + perforated sleeve WIT-SH, European Technical Assessment ETA-13/1040



In aerated concrete, only anchoring with the perforated sleeve WIT-SH 18/95 is permitted!

Female thread sleeve WIT-IG A4

For WIT-VM 250 injection systems for masonry. Individual attachment: Solid and perforated brick masonry. A4 stainless steel.



Type description	WIT-IG A4
Anchor length (l)	93 mm
Min./max. screw-in depth	8-20 mm
Nominal drill-bit diameter (d 0)	14 mm
Nominal drill-bit diameter sieve sleeve (d 0)	18 mm
Drill hole depth (h 0)	100 mm
Effective anchoring depth (h ef)	95 mm
Suitable for sieve sleeve	WIT-SH 18/95
Required injection mortar	WIT-VM 250
Approval	ETA-13/1040
Material	Stainless steel A4
Surface	Plain

Female thread	Art. no.	P. Qty.
6 mm	0903 462 061	10
8 mm	0903 462 081	10

Injection system ALLROUNDER WIT-VM 250, masonry + perforated sleeve WIT-SH, European Technical Assessment ETA-13/1040



In aerated concrete, only anchoring with the perforated sleeve WIT-SH 18/95 is permitted!

Anchor rod W-VI-A/S

For WIT injection system in concrete and masonry.
Zinc-plated steel



Type description	W-VI-A/S
Property class	5.8
Material	Steel

Metric anchor diameter	Anchor length (l)	Nominal drill-bit diameter injection system (d 0)	Approval	Suitable for sieve sleeve	Art. no.	P. Qty.
M8	100 mm	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 12 x 80, SH 16 x 85	0905 460 811	10
M8	110 mm	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 12 x 80, SH 16 x 85	0905 460 812	10
M8	130 mm	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 12 x 80, SH 16 x 85	0905 460 813	10
M8	145 mm	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 12 x 80, SH 16 x 85, SH 16 x 130	0905 460 814	10
M8	160 mm	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 12 x 80, SH 16 x 85, SH 16 x 130	0905 460 815	10
M8	205 mm	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 12 x 80, SH 16 x 85, SH 16 x 130	0905 460 816	10
M10	110 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85	0905 461 011	10

Metric anchor diameter	Anchor length (l)	Nominal drill-bit diameter injection system (d 0)	Approval	Suitable for sieve sleeve	Art. no.	P. Qty.
M10	130 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85	0905 461 012	10
M10	150 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85, SH 16 x 130	0905 461 013	10
M10	165 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85, SH 16 x 130	0905 461 014	10
M10	190 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85, SH 16 x 130	0905 461 015	10
M10	260 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85, SH 16 x 130	0905 461 016	10
M10	1000 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85, SH 16 x 130, SH 16 x 130/330	0905 461 099	10
M12	135 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85	0905 461 211	10
M12	155 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130	0905 461 212	10
M12	175 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130	0905 461 213	10

Metric anchor diameter	Anchor length (l)	Nominal drill-bit diameter injection system (d 0)	Approval	Suitable for sieve sleeve	Art. no.	P. Qty.
M12	210 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130	0905 461 214	10
M12	250 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130, SH 20 x 200	0905 461 215	10
M12	300 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130, SH 20 x 200	0905 461 216	10
M12	1000 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130, SH 20 x 200	0905 461 299	10
M16	160 mm	18 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130	0905 461 611	10
M16	175 mm	18 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130	0905 461 612	10
M16	205 mm	18 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130	0905 461 613	10
M16	235 mm	18 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130, SH 20 x 200	0905 461 614	10
M16	300 mm	18 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130, SH 20 x 200	0905 461 615	10

Metric anchor diameter	Anchor length (l)	Nominal drill-bit diameter injection system (d 0)	Approval	Suitable for sieve sleeve	Art. no.	P. Qty.
M20	240 mm	24 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 462 011	10
M20	260 mm	24 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 462 012	10
M20	285 mm	24 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 462 013	10
M20	300 mm	24 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 462 014	10
M20	350 mm	24 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 462 015	10
M20	400 mm	24 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 462 016	10
M24	290 mm	28 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 462 411	5
M24	350 mm	28 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 462 412	5
M24	400 mm	28 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 462 413	5
M30	370 mm	35 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 463 011	5

The anchor rod is covered by the following approvals:

- ALLROUNDER WIT-VM 250 injection system, option 1: ETA-12/0164
- WIT-Nordic injection system, option 1: ETA-12/0164
- BETON-MULTI WIT-UH 300 injection system, option 1: ETA-17/0127
- WIT-PE 500 injection system, option 1: ETA-09/0040
- BASIC WIT-PM 200 injection system, option 7: ETA-12/0569
- W-VI injection system (WIT-Express chemical injection mortar), option 7: ETA-05/0034
- BASIC WIT-PM 200 injection system, masonry: ETA-13/0037
- ALLROUNDER WIT-VM 250 injection system, masonry: ETA-16/0757



Anchor rod W-VI-A/A4

For WIT injection system in concrete and masonry.
Stainless steel A4



Type description	W-VI-A/A4
Property class	70
Material	Stainless steel A4

Metric anchor diameter	Anchor length (l)	Nominal drill-bit diameter injection system (d 0)	Approval	Suitable for sieve sleeve	Art. no.	P. Qty.
M8	100 mm	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 12 x 80, SH 16 x 85	0905 470 811	10
M8	110 mm	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 12 x 80, SH 16 x 85	0905 470 812	10
M8	130 mm	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 12 x 80, SH 16 x 85	0905 470 813	10
M8	145 mm	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 12 x 80, SH 16 x 85, SH 16 x 130	0905 470 814	10
M8	160 mm	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 12 x 80, SH 16 x 85, SH 16 x 130	0905 470 815	10
M8	205 mm	10 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 12 x 80, SH 16 x 85, SH 16 x 130	0905 470 816	10

Metric anchor diameter	Anchor length (l)	Nominal drill-bit diameter injection system (d 0)	Approval	Suitable for sieve sleeve	Art. no.	P. Qty.
M10	110 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85	0905 471 011	10
M10	130 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85	0905 471 012	10
M10	150 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85, SH 16 x 130	0905 471 013	10
M10	165 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85, SH 16 x 130	0905 471 014	10
M10	190 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85, SH 16 x 130	0905 471 015	10
M10	260 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85, SH 16 x 130	0905 471 016	10
M10	1000 mm	12 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 16 x 85, SH 16 x 130, SH 16 x 130/330	0905 471 099	10
M12	135 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85	0905 471 211	10
M12	155 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130	0905 471 212	10

Metric anchor diameter	Anchor length (l)	Nominal drill-bit diameter injection system (d 0)	Approval	Suitable for sieve sleeve	Art. no.	P. Qty.
M12	175 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130	0905 471 213	10
M12	210 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130	0905 471 214	10
M12	250 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130, SH 20 x 200	0905 471 215	10
M12	300 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130, SH 20 x 200	0905 471 216	10
M12	1000 mm	14 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130, SH 20 x 200	0905 471 299	10
M16	160 mm	18 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130	0905 471 611	10
M16	175 mm	18 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130	0905 471 612	10
M16	205 mm	18 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130	0905 471 613	10
M16	235 mm	18 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130, SH 20 x 200	0905 471 614	10

Metric anchor diameter	Anchor length (l)	Nominal drill-bit diameter injection system (d 0)	Approval	Suitable for sieve sleeve	Art. no.	P. Qty.
M16	300 mm	18 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-13/0037, ETA-16/0757, ETA-17/0127, ETA-19/0542	SH 20 x 85, SH 20 x 130, SH 20 x 200	0905 471 615	10
M20	240 mm	24 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 472 011	10
M20	285 mm	24 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 472 013	10
M20	300 mm	24 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 472 014	10
M24	290 mm	28 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 472 411	5
M24	350 mm	28 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 472 412	5
M24	400 mm	28 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 472 413	5
M30	370 mm	35 mm	ETA-09/0040, ETA-12/0164, ETA-05/0034, ETA-12/0569, ETA-17/0127, ETA-19/0542		0905 473 011	5

The anchor rod is covered by the following approvals:

- ALLROUNDER WIT-VM 250 injection system, option 1: ETA-12/0164
- WIT-Nordic injection system, option 1: ETA-12/0164
- BETON-MULTI WIT-UH 300 injection system, option 1: ETA-17/0127
- WIT-PE 500 injection system, option 1: ETA-09/0040
- BASIC WIT-PM 200 injection system, option 7: ETA-12/0569
- W-VI injection system (WIT-Express chemical injection mortar), option 7: ETA-05/0034
- BASIC WIT-PM 200 injection system, masonry: ETA-13/0037
- ALLROUNDER WIT-VM 250 injection system, masonry: ETA-16/0757



Application gun WIT

For pressing out WIT cartridges (150 ml, 280 ml, 320 ml, 300 ml, 330 ml) and silicone cartridges

- Suitable for applying from 150 ml, 320 ml and 330 ml coaxial cartridges, 300 ml tubular film cartridges, 280 ml peeler cartridges and silicone cartridges
- Scale on dipstick for precise reading of fill level



Type description	WIT application gun, 330 ml
Suitable for injection mortar	WIT-Express, WIT-VM 100, WIT-VM 250, WIT-EA 150, WIT-Nordic, WIT-PM 200, WIT-UH 300
Suitable for cartridges type	Schlauchfolie (1:10) + 300 ml, Koaxial (1:10) + 330 ml, Koaxial (1:10) + 150 ml, Koaxial (1:10) + 320 ml, Peeler (1:10) + 280 ml
Colour	Black
Product weight (per item)	880 g

Art. no. 0891 003

P. Qty.: 1

Female thread sleeve WIT

For bonded anchors in masonry. Galvanised steel, unapproved.



Type description	Female thread sleeve WIT
Material	Steel
Surface	Zinc plated

Female thread	Length	Min./max. required screw-in depth	Nominal drill-bit diameter sieve sleeve (d 0)	Effective anchoring depth, sleeve (h ef)	Art. no.	P. Qty.
6 mm	50 mm	6-18 mm	12 mm	50 mm	0903 46 06	10
10 mm	80 mm	10-22 mm	20 mm	80 mm	0903 46 10	10
12 mm	80 mm	12-25 mm	20 mm	80 mm	0903 46 12	10

Unapproved

Perforated sleeve, metal

For WIT injection systems, masonry, unapproved

Required injection mortar	WIT-VM 250, WIT-PM 200, WIT-NORDIC
Approval	No



Diameter x length	Nominal drill-bit diameter (d 0)	Suitable for threaded rods	Art. no.	P. Qty.
11 x 1000 mm	12 mm	M6	0903 44 128	1
14 x 1000 mm	16 mm	M8, M10	0903 44 168	1
20 x 1000 mm	20 mm	M10, M12	0903 44 208	1

Application gun HandyMax®

For pressing out WIT cartridges (150 ml, 320 ml, 330 ml)

Suitable for pressing out coaxial cartridges 150 ml, 320 ml and 330 ml



Type description	HandyMax application gun
Suitable for injection mortar	WIT-Express, WIT-VM 100, WIT-VM 250, WIT-EA 150, WIT-Nordic, WIT-PM 200, WIT-UH 300
Suitable for cartridges type	Koaxial (1:10) + 330 ml, Koaxial (1:10) + 150 ml, Koaxial (1:10) + 320 ml
Colour	Black, Red
Product weight (per item)	1124 g

Art. no. 0891 007

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Cordless application gun WIT

Powerful Li-ion battery-powered application gun for WIT cartridges

- Powerful 18 V/2 Ah Li-ion battery
- Memory function for consistent quantity of mortar
- Adjustable speed
- Drip protection
- LED light



Nominal voltage	18 V/DC
Number of rechargeable batteries/batteries	1 PCS
Rechargeable battery/battery capacity	2 Ah
Included in delivery (Lieferumfang)	Battery-powered application gun + battery charger + 18 V 2 Ah Li-ion battery + case
Min./max. ambient temperature	5 to 40 °C
Min./max. air humidity	30-80 %

Type description	Suitable for cartridges type	Pressing force	Weight of machine with rechargeable battery	Suitable for mortar cartridge	Art. no.	P. Qty.
Cordless application gun WIT, 330 ml	Koaxial (1:10) + 150 ml, Koaxial (1:10) + 330 ml, Schlauchfolie (1:10) + 300 ml	2650 N	3.6 kg	WIT-EA 150, WIT-EXPRESS, WIT-NORDIC, WIT-PM 200, WIT-VM 100, WIT-VM 250, WIT-UH 300	0891 003 330	1
Cordless application gun WIT, 420 ml	Koaxial (1:10) + 380 ml, Koaxial (1:10) + 420 ml	3950 N	3.3 kg	WIT-VM 100, WIT-VM 250	0891 003 420	1
Cordless application gun WIT, 585 ml	Side-by-side (1:3) + 385 ml, Side-by-side (1:3) + 585 ml	2650 N	3.9 kg	WIT-PE 500	0891 003 585	1
Cordless application gun WIT, 825 ml	Side-by-side (1:10) + 825 ml	5000 N	3.9 kg	WIT-VM 250, WIT-UH 300	0891 003 825	1

Mixer nozzle FILL & CLEAN

For WIT cartridges of WIT-VM 250, WIT-VM 100, WIT-Nordic, WIT-Express, WIT-PM 200, WIT-EA 150 systems. With cleaning element

Suitable for chemical injection mortar:

- WIT-VM 100
- WIT-EXPRESS
- WIT-VM 250
- WIT-EA 150
- WIT-PM 200
- WIT-NORDIC
- WIT-C 100

Suitable for mortar cartridge:

- Coaxial (1:10): 150 ml, 330 ml
- Tubular film (1:10): 300 ml



Length	21.5 cm
Diameter	8 mm
Colour	Red
Suitable for injection mortar	WIT-EA 150, WIT-Express, WIT-Nordic, WIT-PM 200, WIT-VM 100, WIT-VM 250
Suitable for cartridges type	Koaxial (1:10) + 150 ml, Koaxial (1:10) + 330 ml, Koaxial (1:10) + 380 ml, Koaxial (1:10) + 420 ml, Schlauchfolie (1:10) + 300 ml

Art. no. 0903 420 001

P. Qty.: 10

Mixer nozzle extension WIT-MV

Extension for the mixer nozzle

Type description	WIT-MV mixer extension, rigid
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Outer diameter	Length	Art. no.	P. Qty.
8 mm	0.185 m	0903 420 003	10
10 mm	0.2 m	0903 420 004	10
16 mm	2 m	0903 488 122	20

System case WIT-REBAR

For components of the WIT injection systems REBAR

Assembly cleaning kit for injection systems for subsequently mortared reinforcement attachments



Supplier product designation	Number of pieces in assortment/set	Art. no.	P. Qty.
REBAR-Koffer M	63 PCS	5964 903 004	1
REBAR-Koffer XXL	125 PCS	5964 903 003	1

Perforated sleeve SH

For injection systems all-rounder ALLROUNDER WIT-VM 250, WIT-NORDIC and BASIC WIT-PM 200, masonry, individual attachment



Plastic perforated sleeve

Individual attachment in masonry

- ALLROUNDER WIT-VM 250, anchor rod W-VI-A, standard threaded rod with acceptance test certificate, perforated sleeve SH
- WIT-NORDIC, anchor rod W-VI-A, standard threaded rod with acceptance test certificate, perforated sleeve SH
- BASIC WIT-PM 200, anchor rod W-VI-A, standard threaded rod with acceptance test certificate, perforated sleeve SH

Material	Plastic
Required injection mortar	WIT-PM 200, WIT-VM 250, WIT-NORDIC
Approval	ETA-13/0037, ETA-16/0757, ETA-20/0854

Type description	Diameter	Length	Nominal drill-bit diameter (d 0)	Drill hole depth (h 0)	Art. no.	P. Qty.
SH 12 x 80	12 mm	80 mm	12 mm	85 mm	0903 44 123	20
SH 16 x 85	16 mm	85 mm	16 mm	90 mm	0903 44 164	20
SH 16 x 130	16 mm	130 mm	16 mm	135 mm	0903 44 165	20
SH 20 x 85	20 mm	85 mm	20 mm	90 mm	0903 44 203	20
SH 20 x 130	20 mm	130 mm	20 mm	135 mm	0903 44 204	20
SH 20 x 200	20 mm	200 mm	20 mm	205 mm	0903 44 205	20

- European Technical Assessment ETA-16/0757 and ETA-20/0854: Individual attachment + masonry in solid and perforated brick (perforated sleeve SH, ALLROUNDER WIT-VM 250 or WIT-NORDIC, anchor rod W-VI-A, standard threaded rod with acceptance test certificate 3.1)
- European Technical Assessment ETA-13/0037: Individual attachment + masonry in solid and perforated brick (perforated sleeve SH, BASIC WIT-PM 200, anchor rod W-VI-A, standard threaded rod with acceptance test certificate 3.1)



Do not use perforated sleeve SH in aerated concrete!

Perforated sleeve WIT-SH

**For ALLROUNDER WIT-VM 250 injection system,
masonry + WIT-SH perforated sleeve**

Masonry individual attachment (system with perforated sleeve WIT-SH):

- ALLROUNDER chemical injection mortar WIT-VM 250, anchor rod WIT-AS, female thread sleeve WIT-IG
- Required for anchoring in perforated brick masonry and aerated concrete (only WIT-SH 18x95)
- The anchor rods (WIT-AS) or female thread sleeves (WIT-IG) will be held centrally in the perforated sleeve during mounting
- The perforated sleeve barbs keep the perforated sleeve or anchor rod (short dimensions) from falling out during mounting – overhead mounting



Material	Plastic
Required injection mortar	WIT-VM 250
Approval	ETA-13/1040

Type description	Diameter	Length	Nominal drill-bit diameter (d 0)	Drill hole depth (h 0)	Art. no.	P. Qty.
WIT-SH 12/50	12 mm	50 mm	12 mm	55 mm	0903 44 121	20
WIT-SH 18/95	18 mm	95 mm	18 mm	100 mm	0903 44 180	10/200

European Technical Assessment ETA-13/1040: Individual attachment plus solid and perforated brick masonry, aerated concrete (ALLROUNDER WIT-VM 250 chemical injection mortar, anchor rod WIT-AS, female thread sleeve WIT-IG)

Machine chuck Hexagonal, M6

For concrete cleaning brush and masonry cleaning brush

Connection thread	M6
Length	100 mm
Tool holding device	Hexagon



Art. no. 0905 499 101

P. Qty.: 1

Suction bell

Vacuum cleaner adapter for extracting drilling dust when drilling or cleaning holes

Applies suction directly on the base thanks to a 2-chamber system

Subsequent cleaning is reduced

Clean boring without assistance

Bore nominal diameter: 6-32 mm

Just connect to a vacuum cleaner

Connection diameter: 30-38 mm

Art. no. 0903 990 010

P. Qty.: 1/15



Cleaning brush for masonry with M6 connecting thread

For hole cleaning of WIT injection systems in masonry (WIT-VM 250, WIT-Nordic, WIT-PM 200)

- Material: Steel
- With M6 connecting thread



Nominal drill hole diameter	8 mm
Suitable for anchor rod	WIT-AS M6/50
Outer diameter	9 mm
Length	120 mm
Filling length	80 mm
Connection thread	M6
Material	Steel

Art. no. 0905 499 020

P. Qty.: 1

Cleaning brush for concrete and masonry with connecting thread M6 WIT-RMB

For drill hole cleaning in concrete and masonry (WIT-VM 250, WIT-UH 300, W-VIZ, WIT-CONCRETE SCREW, WIT-PM 200, WIT-NORDIC, WIT-PE 500)

Stainless steel wire brush with connecting thread M6



Connection thread	M6
Material	Steel
Material of the wire	Stainless steel

Nominal drill hole diameter	Suitable for anchor rod	Suitable for female thread sleeve	Suitable for sieve sleeve	Suitable for rod diameter	Art. no.	P. Qty.
10 mm	M8	FT M6			0903 489 610	1
12 mm	M10, M12	FT M6, FT M8	SH 12 x 80, WIT-SH 12/50	8 mm	0903 489 612	1
14 mm	M12	FT M8, FT M10		10 mm	0903 489 614	1
16 mm	M12		SH 16 x 85, SH 16 x 130, SH 16 x 130/330	12 mm	0903 489 616	1
18 mm	M16	FT M10, FT M12	WIT-SH 18/95	14 mm	0903 489 618	1
20 mm			SH 20 x 85, SH 20 x 130, SH 20 x 200	16 mm	0903 489 620	1
22 mm	M20	FT M12, FT M16			0903 489 622	1
24 mm	M20	FT M16			0903 489 624	1
26 mm	M24	FT M20		20 mm	0903 489 626	1
28 mm	M24	FT M16		22 mm	0903 489 628	1
32 mm	M27			24 mm, 25 mm	0903 489 632	1
35 mm	M30	FT M20		28 mm	0903 489 635	1

Handle for cleaning brush

Material of the grip handle	Wood
Material	Steel



Connection thread	Length	Art. no.	P. Qty.
M6	120 mm	0905 499 103	1
M8	280 mm	0903 489 103	1

Blow-out pump

For „blow-out“ drill-hole cleaning

- Drill hole cleaning with handheld blower
- Blow-out tube diameter: 9 mm

Length	415 mm
Volume	900 ml
Colour	Grey
Diameter	70 mm



Art. no. 0903 990 001

P. Qty.: 1

For a nominal bore diameter of 10 mm, we recommend the „blow-out pump reducer attachment“ (reduces the diameter of the blow-out tube to 8 mm).



Fixing bolt anchor W-FAZ/S

Bolt anchor for high loads in cracked and non-cracked concrete. Steel, zinc-plated

- High load-bearing capacities, low axial and edge clearance
- Immediate load-bearing capacity – no waiting
- Time-saving through-bolt mounting

Approval ETA-99/0011 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2 (M8 – M20)

- Fire resistance (M8 – M16): F30, F60, F90 and F120; exposure to fire according to DIN 4102-2:1977-09 (uniform temperature curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-99/0011)

Material	Steel
Surface	Zinc plated

Metric anchor diameter	Anchor length (l)	Attachment height (t fix)	Max. attachment height reduced (t fix, red)	Art. no.	P. Qty.
M8	65 mm		11 mm	5928 258 011	100
M8	75 mm	10 mm	21 mm	5928 208 010	100
M8	80 mm	15 mm	26 mm	5928 208 015	100
M8	95 mm	30 mm	41 mm	5928 208 030	100
M8	115 mm	50 mm	61 mm	5928 208 050	100
M8	165 mm	100 mm	111 mm	5928 208 100	50
M10	70 mm		10 mm	5928 251 010	50
M10	80 mm		20 mm	5928 251 020	50

Metric anchor diameter	Anchor length (l)	Attachment height (t fix)	Max. attachment height reduced (t fix, red)	Art. no.	P. Qty.
M10	90 mm	10 mm	30 mm	5928 210 010	50
M10	95 mm	15 mm	35 mm	5928 210 015	50
M10	100 mm	20 mm	40 mm	5928 210 020	50
M10	110 mm	30 mm	50 mm	5928 210 030	50
M10	130 mm	50 mm	70 mm	5928 210 050	50
M10	155 mm	75 mm	95 mm	5928 210 075	50
M12	85 mm		10 mm	5928 252 010	25
M12	95 mm		20 mm	5928 252 020	25
M12	110 mm	15 mm	35 mm	5928 212 015	25
M12	115 mm	20 mm	40 mm	5928 212 020	25
M12	125 mm	30 mm	50 mm	5928 212 030	25
M12	145 mm	50 mm	70 mm	5928 212 050	25
M12	160 mm	65 mm	85 mm	5928 212 065	25
M12	180 mm	85 mm	105 mm	5928 212 085	25
M12	200 mm	105 mm	125 mm	5928 212 105	25
M12	220 mm	125 mm		0904 521 217	25
M12	240 mm	145 mm		0904 521 218	20
M12	255 mm	160 mm		0904 521 219	20
M16	115 mm		15 mm	5928 256 015	20
M16	125 mm	5 mm	25 mm	5928 216 005	20
M16	135 mm	15 mm	35 mm	5928 216 015	20
M16	145 mm	25 mm	45 mm	5928 216 025	20
M16	170 mm	50 mm	70 mm	5928 216 050	20
M16	200 mm	80 mm	100 mm	5928 216 080	10
M16	220 mm	100 mm		0904 521 603	10
M16	260 mm	140 mm		0904 521 604	10
M16	300 mm	180 mm		0904 521 605	10
M20	165 mm	30 mm		5928 220 030	10
M20	195 mm	60 mm		5928 220 060	10
M20	265 mm	130 mm		0904 522 003	5
M20	285 mm	150 mm		0904 522 004	5
M24	190 mm	30 mm		0904 522 401	10
M24	220 mm	60 mm		0904 522 402	5
M24	235 mm	75 mm		0904 522 403	5
M24	260 mm	100 mm		0904 522 404	5
M27	210 mm	30 mm		0904 522 701	5
M27	240 mm	60 mm		0904 522 702	5
M27	280 mm	100 mm		0904 522 703	5

Fixing bolt anchor W-FAZ/A4

Bolt anchor for high loads in cracked and non-cracked concrete. Stainless steel A4

- High load-bearing capacities, low axial and edge clearance
- Immediate load-bearing capacity – no waiting
- Time-saving through-bolt mounting



Material	Stainless steel A4
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Metric anchor diameter	Anchor length (l)	Attachment height (t fix)	Art. no.	P. Qty.
M12	220 mm	125 mm	0904 621 206	25
M12	255 mm	160 mm	0904 621 207	20
M12	275 mm	180 mm	0904 621 208	20
M12	300 mm	205 mm	0904 621 210	20
M12	325 mm	230 mm	0904 621 211	20
M16	220 mm	100 mm	0904 616 100	10
M16	280 mm	160 mm	0904 616 160	10
M16	300 mm	180 mm	0904 616 180	10
M16	325 mm	205 mm	0904 616 205	10
M16	340 mm	220 mm	0904 616 220	10
M20	265 mm	130 mm	0904 620 130	5
M20	285 mm	150 mm	0904 620 150	5

- Approval ETA-99/0011 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2 (M8-M20)
- Fire resistance [M8-M16]: F30, F60, F90 and F120; exposure to fire according to DIN 4102-2:1977-09 (uniform temperature-time curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-99/0011)



Fixing anchor W-FAZ/HCR

Bolt anchor for high loads in cracked and non-cracked concrete. Highly corrosion-resistant steel, HCR

High load-bearing capacities, low axial and edge clearances

Time-saving push-through installation

Immediate load-bearing capacity

No waiting

Fixing anchor cone with patented plastic coating

Safe expansion in cracked concrete

Reduced anchoring depth

- Minimises drilling, time-saving
- Flexible fields of application

Torque-controlled expanding anchor made of highly corrosion-resistant steel A4



Material	High corrosion-resistant steel, 1.4529 X1NiCrMoCuN25-20-7
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Metric anchor diameter	Anchor length (l)	Attachment height (t fix)	Max. attachment height reduced (t fix, red)	Art. no.	P. Qty.
M8	65 mm	11 mm		5928 658 011	100
M8	75 mm	10 mm	21 mm	5928 608 010	25/100
M8	80 mm	15 mm	26 mm	5928 608 015	25/100
M8	95 mm	30 mm	41 mm	5928 608 030	25/100
M10	70 mm	10 mm		5928 651 010	50
M10	90 mm	10 mm	30 mm	5928 610 010	25/50
M10	95 mm	15 mm	35 mm	5928 610 015	25/50
M10	110 mm	30 mm	50 mm	5928 610 030	25/50
M10	130 mm	50 mm	70 mm	5928 610 050	25/50
M12	85 mm	10 mm		5928 652 010	25

Metric anchor diameter	Anchor length (l)	Attachment height (t fix)	Max. attachment height reduced (t fix, red)	Art. no.	P. Qty.
M12	110 mm	15 mm	35 mm	5928 612 015	25
M12	115 mm	20 mm	40 mm	5928 612 020	25
M12	125 mm	30 mm	50 mm	5928 612 030	25
M12	145 mm	50 mm	70 mm	5928 612 050	25
M12	220 mm			5928 021 206	25
M16	145 mm	25 mm	45 mm	5928 616 025	20
M16	170 mm	50 mm	70 mm	5928 616 050	20
M16	220 mm	100 mm		5928 016 100	10
M20	165 mm	30 mm		5928 620 030	10
M20	195 mm	60 mm		5928 620 060	10

- Approval ETA-99/0011 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2 (M8–M20)
- Fire resistance (M8–M16): F30, F60, F90 and F120; exposure to fire according to DIN 4102-2:1977-09 (uniform temperature-time curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-99/0011)
- Fire load to ZTV-ING Part 5 (uniform temperature curve – tunnel fire room curve)



Fixing bolt anchor W-FAZ/S with large washer

Bolt anchor for high loads in cracked and non-cracked concrete. Steel, zinc-plated



- High loads, small axis and edge clearance
- Immediate load-bearing capacity – no waiting times
- Time-saving push-through installation
- Reduced anchor depth
- Minimised drilling, time-saving
- Versatile applications

Material	Steel
Surface	Zinc plated

Metric anchor diameter	Anchor length (l)	Attachment height (t fix)	Max. attachment height reduced (t fix, red)	Art. no.	P. Qty.
M8	115 mm	50 mm		0904 530 803	100
M12	200 mm	105 mm	125 mm	5928 312 105	25
M12	220 mm	125 mm		0904 531 212	25
M12	240 mm	145 mm		0904 531 213	20
M12	255 mm	160 mm		0904 531 214	20
M12	285 mm	190 mm		0904 531 215	20
M12	325 mm	230 mm		0904 531 216	20
M16	220 mm	100 mm		0904 531 602	10
M16	265 mm	140 mm		0904 531 603	10
M20	165 mm	30 mm		0904 532 001	10
M20	195 mm	60 mm		0904 532 002	10
M20	265 mm	130 mm		0904 532 003	5
M20	285 mm	150 mm		0904 532 004	5
M24	190 mm	30 mm		0904 532 401	10
M24	220 mm	60 mm		0904 532 402	5

- Approval ETA-99/0011 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2 (M8-M16)
- Fire resistance (M8-M16): F30, F60, F90 and F120; exposure to fire according to DIN 4102-2:1977-09 (uniform temperature-time curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-99/0011)



Fixing bolt anchor W-FAZ/A4 with large washer

Bolt anchor for high loads in cracked and non-cracked concrete. Stainless steel A4



- High load-bearing capacities, low axial and edge clearances
- Immediate load-bearing capacity – no waiting time
- Time-saving through-hole mounting
- Torque-controlled expanding anchor made of A4 stainless steel
- Reduced anchoring depth
- Minimises drilling, saves time
- Flexible fields of application

Material	Stainless steel A4, 1.4401
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Metric anchor diameter	Anchor length (l)	Attachment height (t fix)	Max. attachment height reduced (t fix, red)	Surface	Art. no.	P. Qty.
M8	75 mm	10 mm	21 mm		5928 508 010	100
M8	80 mm	15 mm	26 mm		5928 508 015	100
M8	95 mm	30 mm	41 mm		5928 508 030	100
M8	115 mm	50 mm	61 mm		5928 508 050	100
M10	90 mm	10 mm	30 mm		5928 510 010	50
M10	95 mm	15 mm	35 mm		5928 510 015	50
M10	110 mm	30 mm	50 mm		5928 510 030	50
M10	130 mm	50 mm	70 mm		5928 510 050	50
M12	110 mm	15 mm	35 mm		5928 512 015	25
M12	125 mm	30 mm	50 mm		5928 512 030	25
M12	145 mm	50 mm	70 mm		5928 512 050	25
M12	255 mm	160 mm		Plain	5928 112 005	20
M16	145 mm	25 mm	45 mm		5928 516 025	20

- Approval ETA-99/0011 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2 (M8-M20)
- Fire resistance (M8-M16): F30, F60, F90 and F120; exposure to fire according to DIN 4102-2:1977-09 (uniform temperature-time curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-99/0011)



Female thread fixing bolt anchor W-FAZ-IG/S – cotter-pin installation

Female thread bolt anchor for high loads in cracked and non-cracked concrete, ideal for a clean finish on the attached part. Zinc-plated steel



- High load-bearing capacity, low centre to centre and edge clearance
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding anchor made from galvanised steel
- Safe expansion in cracked concrete owing to fixing anchor cone with patented plastic coating
- Countersunk screws ensure an elegant appearance for visible anchorages combined with high load-bearing capacity (e.g. railings)
- Also suitable for temporary anchorages (cotter-pin installation, e.g. flexible stadium seating – flush with surface to eliminate risk of injury)

Material	Steel
Surface	Zinc plated

Metric anchor diameter	Anchor length (l)	Min. screw-in depth of threaded rod (Lsd)	Art. no.	P. Qty.
M6	50 mm	9 mm	0904 706 110	100
M8	62 mm	12 mm	0904 708 110	50
M10	70 mm	15 mm	0904 710 110	25
M12	86 mm	18 mm	0904 712 110	20

- ETA-99/0011 for individual attachment, option 1, cracked and non-cracked concrete
- Fire resistance: R30, R60, R90, R120; Technical Report TR020 (included in ETA-99/0011)



- The W-FAZ-IG fixing bolt anchor must be inserted using the appropriate approved setting tools (anchor system)
- Hexagonal bolts, countersunk screws, washers, countersunk washers and nuts have a special coating and are only permissible in the anchor system in accordance with ETA-99/0011. Therefore, please order separately.
- Threaded rods may only be used if the conditions specified in approval ETA-99/0011 (material quality, dimensions, mechanical properties) are met.
- The torque required for anchoring can be applied with Würth torque wrenches and suitable attachments (open-end socket spanners).

Female thread fixing bolt anchor W-FAZ-IG/S – push-through installation

Female thread bolt anchor for high loads in cracked and non-cracked concrete, ideal for a clean finish on the attached part. Zinc-plated steel



- High load-bearing capacity, low centre to centre and edge clearance
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding anchor made from galvanised steel
- Safe expansion in cracked concrete owing to fixing anchor cone with patented plastic coating
- Countersunk screws ensure an elegant appearance for visible anchorages combined with high load-bearing capacity (e.g. railings)

Material	Steel
Surface	Zinc plated

Metric anchor diameter	Anchor length (l)	Min. screw-in depth of threaded rod (Lsd)	Art. no.	P. Qty.
M8	72 mm	12 mm	0904 708 011	50
M10	80 mm	15 mm	0904 710 011	25
M10	90 mm	15 mm	0904 710 012	25
M12	96 mm	18 mm	0904 712 011	20
M12	106 mm	18 mm	0904 712 012	20

- ETA-99/0011 for individual attachment, option 1, cracked and non-cracked concrete
- Fire resistance: R30, R60, R90, R120; Technical Report TR020 (included in ETA-99/0011)



- The W-FAZ-IG fixing bolt anchor must be inserted using the appropriate approved setting tools (anchor system).
- Hexagonal bolts, countersunk screws, washers, countersunk washers and nuts have a special coating and are only permissible in the anchor system in accordance with ETA-99/0011. Therefore, please order separately.
- Threaded rods may only be used if the conditions specified in approval ETA-99/0011 (material quality, dimensions, mechanical properties) are met.
- The torque required for anchoring can be applied with Würth torque wrenches and suitable attachments (open-end socket spanners).

Female thread fixing bolt anchor W-FAZ-IG/A4 – cotter-pin installation

Female thread bolt anchor for high loads in cracked and non-cracked concrete, ideal for a clean finish on the attached part. Stainless steel A4



- High load-bearing capacity, low centre to centre and edge clearance
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding A4 stainless steel anchor
- Safe expansion in cracked concrete owing to fixing anchor cone with patented plastic coating
- Countersunk screws ensure an elegant appearance for visible anchorages combined with high load-bearing capacity (e.g. railings)
- Also suitable for temporary anchorages (cotter-pin installation, e.g. flexible stadium seating – flush with surface to eliminate risk of injury)

Material	Stainless steel
Surface	Plain

Metric anchor diameter	Anchor length (l)	Min. screw-in depth of threaded rod (Lsd)	Art. no.	P. Qty.
M8	62 mm	12 mm	0904 808 110	50
M10	70 mm	15 mm	0904 810 110	25
M12	86 mm	18 mm	0904 812 110	20

- ETA-99/0011 for individual attachment, option 1, cracked and non-cracked concrete
- Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 4201-2:1977-09 (uniform temperature-time curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-99/0011)



- The W-FAZ-IG fixing bolt anchor must be inserted using the appropriate approved setting tools (anchor system).
- Hexagonal bolts, countersunk screws, washers, countersunk washers and nuts have a special coating and are only permissible in the anchor system in accordance with ETA-99/0011. Therefore, please order separately.
- Threaded rods may only be used if the conditions specified in approval ETA-99/0011 (material quality, dimensions, mechanical properties) are met.
- The torque required for anchoring can be applied with Würth torque wrenches and suitable attachments (open-end socket spanners).
- A version made from highly corrosion-resistant (HCR) steel is available on request for use in areas with very high risk of corrosion (e.g. indoor swimming pool atmospheres, road tunnels, poorly ventilated car parks, or parts that are immersed in seawater or in coastal atmospheres).

Female thread fixing bolt anchor W-FAZ-IG/A4 – push-through installation

Female thread bolt anchor for high loads in cracked and non-cracked concrete, ideal for a clean finish on the attached part. Stainless steel A4



- High load-bearing capacity, low centre to centre and edge clearance
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding A4 stainless steel anchor
- Safe expansion in cracked concrete owing to fixing anchor cone with patented plastic coating
- Countersunk screws ensure an elegant appearance for visible anchorages combined with high load-bearing capacity (e.g. railings)

Material	Stainless steel
Surface	Plain

Metric anchor diameter	Anchor length (l)	Min. screw-in depth of threaded rod (Lsd)	Art. no.	P. Qty.
M8	72 mm	12 mm	0904 808 011	50
M8	92 mm	12 mm	0904 808 013	50
M10	80 mm	15 mm	0904 810 011	25
M10	90 mm	15 mm	0904 810 012	25
M12	96 mm	18 mm	0904 812 011	20

- ETA-99/0011 for individual attachment, option 1, cracked and non-cracked concrete
- Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 4201-2:1977-09 (uniform temperature-time curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-99/0011)



- The W-FAZ-IG fixing bolt anchor must be inserted using the appropriate approved setting tools (anchor system).
- Hexagonal bolts, countersunk screws, washers, countersunk washers and nuts have a special coating and are only permissible in the anchor system in accordance with ETA-99/0011. Therefore, please order separately.
- Threaded rods may only be used if the conditions specified in approval ETA-99/0011 (material quality, dimensions, mechanical properties) are met.
- The torque required for anchoring can be applied with Würth torque wrenches and suitable attachments (open-end socket spanners).

Hexagon nut, type B/A4

DIN 934 stainless steel A4, with washer according to DIN EN ISO 7089 (DIN 125), stainless steel A4. For use with fixing bolt anchor W-FAZ-IG/A4 and threaded rod

For use with threaded rods with acceptance test certificate 3.1



Standards	DIN 934
Material	Stainless steel A4
Surface	Plain

Thread diameter	Width across flats	Art. no.	P. Qty.
6 mm	10 mm	0904 806 140	100
8 mm	13 mm	0904 808 140	50
10 mm	17 mm	0904 810 140	25
12 mm	19 mm	0904 812 140	20

Covered by approval ETA-99/0011

Hexagon screws, countersunk screws, washers, countersunk washers and nuts have a special coating and are only permissible in the anchor system in accordance with ETA-99/0011.

Concrete screw with hexagon head W-BS/A4

Highest load capacities and efficient mounting. Ideal for fastening metal structures in concrete, A4 stainless steel



- Quick, easy installation by screwing the concrete screw into the drilled hole
- No installation torque required
- Immediate load-bearing capacity – no waiting

Material	Stainless steel A4, 1.4401
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Anchor size	Thread diameter	Anchor length (l)	Attachment height (t fix 1)	Attachment height (t fix 2)	Art. no.	P. Qty.
6 mm	7.5 mm	50 mm	15 mm	10 mm	5929 226 015	100
6 mm	7.5 mm	60 mm	25 mm	20 mm	5929 226 025	100
8 mm	10 mm	70 mm	25 mm	15 mm	5929 228 025	50
8 mm	10 mm	80 mm	35 mm	25 mm	5929 228 035	50
10 mm	12 mm	90 mm	35 mm	15 mm	5929 221 035	25
10 mm	12 mm	100 mm	45 mm	25 mm	5929 221 045	25
10 mm	12 mm	120 mm	65 mm	45 mm	5929 221 065	25

ETA-16/0043 for individual attachment

Option 1, cracked and non-cracked concrete (size 6–10), earthquake C1 (size 8–14)

ETA-16/0128 for multiple attachment

Concrete (size 6)

Hollow-core pre-stressed concrete ceilings (size 6)

Fire resistance

R30, R60, R90, R120; Technical Report TR020 (included in approvals)

From size 8, we recommend the use of a suitable tangential impact screwdriver for installation. The recommended nominal torque must be observed.

Concrete screw with countersunk head W-BS/S

Highest load capacities and efficient mounting. For surface-flush fixtures such as railings or handrails in concrete, zinc plated steel



- Very quick and easy assembly
- No installation torque required
- Immediate load-bearing capacity – no waiting

Material	Steel
Surface	Zinc plated

Anchor size	Thread diameter	Anchor length (l)	Attachment height (t fix 1)	Attachment height (t fix 2)	Art. no.	P. Qty.
5 mm	6.5 mm	40 mm	5 mm		5929 135 005	100
5 mm	6.5 mm	50 mm	15 mm		5929 135 015	100
5 mm	6.5 mm	60 mm	25 mm		5929 135 025	100
6 mm	7.5 mm	40 mm	5 mm		5929 136 005	100
6 mm	7.5 mm	50 mm	15 mm	10 mm	5929 136 015	100
6 mm	7.5 mm	60 mm	25 mm	20 mm	5929 136 025	100
6 mm	7.5 mm	80 mm	45 mm	40 mm	5929 136 045	100
6 mm	7.5 mm	100 mm	65 mm	60 mm	5929 136 065	100
6 mm	7.5 mm	120 mm	85 mm	80 mm	5929 136 085	50
6 mm	7.5 mm	140 mm	105 mm	100 mm	5929 136 105	50
6 mm	7.5 mm	160 mm	125 mm	120 mm	5929 136 125	50
8 mm	10 mm	80 mm	35 mm	25 mm	5929 138 035	50
8 mm	10 mm	100 mm	55 mm	45 mm	5929 138 055	50
8 mm	10 mm	120 mm	75 mm	65 mm	5929 138 075	50
10 mm	12 mm	90 mm	35 mm	15 mm	5929 131 035	25
10 mm	12 mm	100 mm	45 mm	25 mm	5929 131 045	25
10 mm	12 mm	120 mm	65 mm	45 mm	5929 131 065	25

ETA-16/0043 for individual attachment

Option 1, cracked and non-cracked concrete (Size 6–10), seismic performance category C1 (sizes 8–10), seismic performance category C2 (sizes 8–10, zinc plated steel only)

ETA-16/0128 for multiple attachment

Concrete (size 5 and 6)

Hollow-core prestressed concrete ceilings (size 6)

Fire resistance

R30, R60, R90, R120; Technical Report TR020 (included in approvals)



From size 8, we recommend the use of a suitable tangential impact screwdriver for installation. The recommended nominal torque must be observed. If several anchors are arranged behind each other in the same load direction, only one anchor is positioned for transverse loads.

Concrete screw with countersunk head W-BS/A4

Highest load capacities and efficient mounting. For surface-flush fixtures such as railings or handrails in concrete, A4 stainless steel



- No installation torque required
- Immediate load-bearing capacity – no waiting
- Can be fully removed quickly and easily

Material	Stainless steel A4, 1.4401
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Anchor size	Thread diameter	Anchor length (l)	Attachment height (t fix 1)	Attachment height (t fix 2)	Art. no.	P. Qty.
6 mm	7.5 mm	50 mm	15 mm	10 mm	5929 236 015	100
6 mm	7.5 mm	65 mm	30 mm	25 mm	5929 236 030	100
6 mm	7.5 mm	85 mm	50 mm	45 mm	5929 236 050	100
6 mm	7.5 mm	105 mm	70 mm	65 mm	5929 236 070	100
8 mm	10 mm	80 mm	35 mm	25 mm	5929 238 035	50
8 mm	10 mm	100 mm	55 mm	45 mm	5929 238 055	50
8 mm	10 mm	120 mm	75 mm	65 mm	5929 238 075	50

Anchor size	Thread diameter	Anchor length (l)	Attachment height (t fix 1)	Attachment height (t fix 2)	Art. no.	P. Qty.
10 mm	12 mm	90 mm	35 mm	15 mm	5929 231 035	25
10 mm	12 mm	100 mm	45 mm	25 mm	5929 231 045	25
10 mm	12 mm	120 mm	65 mm	55 mm	5929 231 065	25

ETA-16/0043 for individual attachment

Option 1, cracked and non-cracked concrete (Size 6–10), seismic performance category C1 (size 8–10)

ETA-16/0128 for multiple attachment

Concrete (size 6)

Hollow-core prestressed concrete ceilings (size 6)

Fire resistance

R30, R60, R90, R120; Technical Report TR020 (included in approvals)



From size 8, we recommend the use of a suitable tangential impact screwdriver for installation. The recommended nominal torque must be observed. If several anchors are arranged behind each other in the same load direction, only one anchor is positioned for transverse loads.

Concrete screw with pan head W-BS/S

Ideal for mounting mounting rails, panel materials or fire-protection panels, zinc-plated steel

- High load-bearing capacities
- Low axial and edge clearance due to very low expansion effect
- Extremely flexible to use due to three anchoring depths (6–14 dia.) and a large range of types



Material	Steel
Surface	Zinc plated
Internal drive	TX30

Anchor size	Thread diameter	Anchor length (l)	Attachment height (t fix 1)	Attachment height (t fix 2)	Art. no.	P. Qty.
5 mm	6.5 mm	40 mm	5 mm		5929 145 005	100
5 mm	6.5 mm	50 mm	15 mm		5929 145 015	100
5 mm	6.5 mm	60 mm	25 mm		5929 145 025	100
6 mm	7.5 mm	40 mm	5 mm		5929 146 005	100
6 mm	7.5 mm	50 mm	15 mm	10 mm	5929 146 015	100
6 mm	7.5 mm	60 mm	25 mm	20 mm	5929 146 025	100
6 mm	7.5 mm	80 mm	45 mm	40 mm	5929 146 045	100
6 mm	7.5 mm	100 mm	65 mm	60 mm	5929 146 065	100

ETA-16/0043 for individual attachment

Option 1, cracked and non-cracked concrete (size 6)

ETA-16/0128 for multiple attachment

- Concrete (size 5 and 6)
- Hollow-core pre-stressed concrete ceilings (size 6)

Fire resistance

R30, R60, R90, R120; Technical Report TR020 (included in approvals)



From size 8, we recommend the use of a suitable tangential impact screwdriver for installation.
If several anchors are arranged behind each other in the same load direction, only one anchor is positioned for transverse loads.

Concrete screw, pan head W-BS-P/A4

Ideal for mounting mounting rails, panel materials or fire-protection panels, stainless steel A4



- High load-bearing capacities
- Virtually no expansion effect, enabling minimal centre to centre and edge distances to be maintained
- Quick and easy to install by screwing the concrete screw into the drill hole
- No installation torque required
- Immediate load-bearing capacity – no waiting
- Can be fully removed quickly and easily
- Time-saving push-through installation
- Two anchoring depths (Ø6)

Anchor size	6 mm
Thread diameter	7.5 mm
Material	Stainless steel A4, 1.4401
Internal drive	TX30

Anchor length (l)	Attachment height (t fix 1)	Attachment height (t fix 2)	Attachment height (t fix 3)	Art. no.	P. Qty.
50 mm	15 mm	10 mm		5929 246 015	100
60 mm	25 mm	20 mm	5 mm	5929 246 025	100
80 mm	45 mm	40 mm	25 mm	5929 246 045	100
100 mm	65 mm	60 mm	45 mm	5929 246 065	100

ETA-16/0043 for individual attachment

Option 1, cracked and non-cracked concrete

ETA-16/0128 for multiple attachment

Concrete

Hollow-core prestressed concrete ceilings

Fire resistance

R30, R60, R90, R120; Technical Report TR020 (included in the approvals)



From size 8, we recommend the use of a suitable tangential impact screwdriver for installation.

If several anchors are arranged behind each other in the same load direction, only one anchor is positioned for transverse loads.

Concrete screw, stud screw W-BS/S

**Ideal for mounting pipe clamps or spacer sleeves
(connection thread M8 x 16), zinc-plated steel**



- High load-bearing capacities
- Virtually no expansion effect, enabling minimal axis and edge distances to be maintained
- Very quick and easy to install
- No installation torque required
- Immediate load-bearing capacity – no waiting
- Extremely flexible to use as a result of three anchoring depths (Ø 6 - Ø 14) and a large variety of types
- Fastening can be adjusted up to twice after installation

Anchor size	6 mm
Thread diameter	7.5 mm
Connection thread	M8 x 16
Material	Steel
Surface	Zinc plated
External drive	WS10

Anchor length (l)	Attachment height (t fix 1)	Attachment height (t fix 2)	Attachment height (t fix 3)	Art. no.	P. Qty.
35 mm	0 mm			5929 186 000	100
55 mm	20 mm	15 mm	0 mm	5929 186 020	100
75 mm	40 mm	35 mm	20 mm	5929 186 040	100
95 mm	60 mm	55 mm	40 mm	5929 186 060	100

ETA-16/0043 for individual attachment

Option 1, cracked and non-cracked concrete

ETA-16/0128 for multiple attachment

Concrete

Hollow-core prestressed concrete ceilings

Fire resistance

R30, R60, R90, R120; Technical Report TR020 (included in the approvals)



From size 8, we recommend the use of a suitable tangential impact screwdriver for installation.

If several anchors are arranged behind each other in the same load direction, only one anchor is positioned for transverse loads.

Concrete screw, stud screw W-BS/A4

Ideal for outdoor accessories which must be uninstalled again, stainless steel A4

Extremely flexible to use

Three anchoring depths (sizes 6–14) and a large variety of types

Attachment can be adjusted up to two times after assembly

(Sizes 8–14) so as to, for example, facilitate the alignment of railings or anchor plates (observe assembly instructions in permit or enclosed leaflet)

- High load-bearing capacities
- Low axial and edge clearance due to very low expansion effect
- Very quick and easy assembly
- No installation torque required
- Immediate load-bearing capacity – no waiting

Material	Stainless steel A4, 1.4401
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Anchor size	Thread diameter	Anchor length (l)	Connection thread	Attachment height (t fix 1)	Art. no.	P. Qty.
8 mm	10 mm	105 mm	M10	40 mm	5929 268 040	50
10 mm	12 mm	140 mm	M12	60 mm	5929 261 060	25
10 mm	12 mm	160 mm	M12	80 mm	5929 261 080	25

ETA-16/0043 for individual attachment

Option 1, cracked and non-cracked concrete (sizes 6–14), seismic performance category C1 (sizes 8–14)

Fire resistance

R30, R60, R90, R120; Technical Report TR020 (included in the approvals)



From size 8, we recommend the use of a suitable tangential impact screwdriver for installation.

If several anchors are arranged behind each other in the same load direction, only one anchor is positioned for transverse loads.

Concrete screw with female thread W-BS/S

Highest load capacities and efficient mounting. For suspensions and fittings with threaded rods (step thread M8/M10), zinc plated steel

- Extremely flexible to use due to three anchoring depths (size Ø 6 – Ø 14) and a wide variety of types
- High load-bearing capacities
- Low axial and edge clearance due to very low expansion effect

Anchor size	6 mm
Thread diameter	7.5 mm
Female thread	8/10 mm
Material	Steel
Surface	Zinc plated
External drive	WS13



Anchor length (l)	Art. no.	P. Qty.
35 mm	5929 176 001	50
55 mm	5929 176 002	50

ETA-16/0043 for individual attachment

Option 1, cracked and non-cracked concrete

ETA-16/0128 for multiple attachment

- Concrete
- Hollow-core prestressed concrete ceilings

Fire resistance

R30, R60, R90, R120; Technical Report TR020 (included in approvals)



From size 8, we recommend the use of a suitable tangential impact screwdriver for installation.

If several anchors are arranged behind each other in the same load direction, only one anchor is positioned for transverse loads.

Concrete screw W-BS Compact type P

Easy installation with cordless drill. Avoids hitting reinforcement due to very low insertion depth. For concrete, with pan head, zinc plated steel



- Quick, easy installation
- Push-through installation
- Time and cost-saving assembly

Anchor size	6 mm
Anchor length (l)	28 mm
Head type	Pan head
Max. attachment height (t fix)	3 mm
Material	Steel
Surface	Zinc plated
Internal drive	TX30
Head diameter	14 mm

Art. no. 5929 506 028

P. Qty.: 100

- ETA-15/0091 for multiple attachment of non-load-bearing systems in concrete
- Fire resistance: R30, R60, R90, R120; Technical Report TR020



It is preferable to install the W-BS Compact manually.

If a cordless drill is used for assembly, at least 5 preliminary tests should be performed on location to ensure the correct screwdriver setting and to prevent over-tightening of the W-BS Compact. It is recommended that you start with the screwdriver's lowest torque setting and increase it if necessary.

A tangential impact screwdriver should not be used for assembly.

Concrete screw with hexagon head and large disc W-BS/S

Ideal for mounting wood structures (large U-washer as per DIN 440), galv. steel



Anchor size	10 mm
Thread diameter	12 mm
Material	Steel
Surface	Zinc plated
External drive	WS15

Anchor length (l)	Attachment height (t fix 1)	Attachment height (t fix 2)	Attachment height (t fix 3)	Art. no.	P. Qty.
180 mm	125 mm	105 mm	95 mm	5929 121 125	25
200 mm	145 mm	125 mm	115 mm	5929 121 145	25
240 mm	185 mm	165 mm	155 mm	5929 121 185	15
280 mm	225 mm	205 mm	195 mm	5929 121 225	15
320 mm	265 mm	245 mm	235 mm	5929 121 265	15

ETA-16/0043 for individual attachment

Option 1, cracked and non-cracked concrete, seismic performance category C1 (size 8-14)

Fire resistance

R30, R60, R90, R120; Technical Report TR020 (included in the approvals)



From size 8, we recommend the use of a suitable tangential impact screwdriver for installation.

If several anchors are arranged behind each other in the same load direction, only one anchor is positioned for transverse loads.

Concrete screw with large pan head W-BS/S

Extra large surface area specifically designed for mounting mounting rails, zinc-plated steel



Anchor size	6 mm
Thread diameter	7.5 mm
Material	Steel
Surface	Zinc plated
Internal drive	TX30

Anchor length (l)	Attachment height (t fix 1)	Attachment height (t fix 2)	Attachment height (t fix 3)	Art. no.	P. Qty.
40 mm	5 mm			5929 156 005	100
60 mm	25 mm	20 mm	5 mm	5929 156 025	100

ETA-16/0043 for individual attachment

Option 1, cracked and non-cracked concrete

ETA-16/0128 for multiple attachment

Concrete

Hollow-core prestressed concrete ceilings

Fire resistance

R30, R60, R90, R120; Technical Report TR020 (included in the approvals)



From size 8, we recommend the use of a suitable tangential impact screwdriver for installation.
If several anchors are arranged behind each other in the same load direction, only one anchor is positioned for transverse loads.

Asphalt screw anchor W-SA A-IG

For anchoring in tarmac, to be processed with chemical injection mortar WIT-PE 500. Version with female thread, zinc plated steel



- Quick, easy removal (female thread)
- Reducers also allow use of smaller metric screws or threaded elements
- The anchor can be removed at any time by unscrewing the metric screw
- Anchorage via bond between WIT-PE 500 chemical injection mortar, asphalt and asphalt screw anchor, and positive locking between asphalt and asphalt screw anchor
- WIT-PE 500 chemical injection mortar: Pure epoxy mortar
- Do not apply below +5°C
- Minimum shelf life: 12 months
- Storage temperature between +5°C and +25°C

Anchor diameter	Anchor length (l)	Drill hole diameter	Drill hole depth (h 1)	Embedding depth (h nom)	Art. no.	P. Qty.
10 mm	100 mm	16 mm	110 mm	100 mm	0901 716 102	25
16 mm	100 mm	22 mm	110 mm	100 mm	0901 722 102	20
16 mm	155 mm	22 mm	160 mm	155 mm	0901 722 157	20

Always wear safety glasses and gloves when using WIT-PE 500 chemical injection mortar. Drill cuttings must be removed from the drill hole. The asphalt screw anchor is unsuitable for constant tensile loads.

Screw anchor W-SA TC Timber Connect

For attaching wooden sills in cracked and non-cracked concrete



- High transferable tensile and transverse loads
- Invisible sill attachment: Small screw head can be countersunk in wooden beam
- Several mounting heights possible for each screw diameter.
- Loads do not depend on thickness of attached part
- Quick and easy installation and disassembly (can be inserted using the ESS ½ inch tangential impact screwdriver)
- Installation type: Push-through installation
- Immediate load-bearing capacity – no waiting
- Virtually no expansion effect, enabling minimal edge and axial clearance to be maintained
- Anchoring via positive locking
- The saw-tooth threads cut into the concrete when the sill anchor is screwed into the pre-drilled hole.

Anchor diameter	Anchor length (l)	Min./max. height of the fixture (t fix)	Nominal drill-bit diameter (d 0)	Drill hole depth (h 1)	Art. no.	P. Qty.
7.5 mm	100 mm	40-150 mm	6 mm	65 mm	0901 575 100	100
10 mm	130 mm	60-200 mm	8 mm	75 mm	0901 510 131	50

General technical approval: Z-21.1-1917

Dimensioning

- Wood connections: Dimensioning in accordance with DIN 1052:2008-12
- Concrete connections: Dimensioning in accordance with ETAG 001, Appendix C



Machine setting tool

For fast and precise hammering in of Würth fixing bolt anchors W-FAZ PRO, W-FAZ (M8–M16) and W-FAZ with hammer drill



- Standard SDS-plus drive arbor for ease of use (suitable for all Würth hammer drills with SDS-plus drive arbor)
- Particularly suitable for economical bulk installations
- Even, optimum load transfer – minimal insertion effort
- Conical mount perfectly adapted to fixing bolt anchor's connecting thread for neat, central anchor insertion
- Reduced setting times
- Also ideal for overhead installation and for hard-to-reach attachments (e.g. railings/hanging pipes)
- High-quality steel guarantees long service life

Suitable for anchor diameter	8 mm, 10 mm, 12 mm, 16 mm
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Art. no. 0904 908 016

P. Qty.: 1

Setting tool

For screw anchor W-SA TC, Timber Connect



Diameter (Ø)	Tip size	Type description	Art. no.	P. Qty.
7.5 mm	TX30	H 43603-T30	0901 575 001	1
10 mm	TX45	H 47095-T45	0901 510 002	1
12 mm	TX50	H 43605-T50	0901 512 001	1

Concrete screw with hexagon head W-BS/S

Ideal for mounting metal structures, galv. steel

Extremely flexible to use

Three anchoring depths (sizes 6–14) and a large variety of types

Attachment can be adjusted up to two times after assembly

(Sizes 8–14) so as to, for example, facilitate the alignment of railings or anchor plates (observe assembly instructions in permit or enclosed leaflet)



Material	Steel
Surface	Zinc plated

Anchor size	Thread diameter	Anchor length (l)	Attachment height (t fix 1)	Attachment height (t fix 2)	Art. no.	P. Qty.
5 mm	6.5 mm	40 mm	5 mm		5929 125 005	100
5 mm	6.5 mm	50 mm	15 mm		5929 125 015	100
5 mm	6.5 mm	60 mm	25 mm		5929 125 025	100
6 mm	7.5 mm	40 mm	5 mm		5929 126 005	100
6 mm	7.5 mm	50 mm	15 mm	10 mm	5929 126 015	100
6 mm	7.5 mm	60 mm	25 mm	20 mm	5929 126 025	100
6 mm	7.5 mm	80 mm	45 mm	40 mm	5929 126 045	100
6 mm	7.5 mm	100 mm	65 mm	60 mm	5929 126 065	100
8 mm	10 mm	50 mm	5 mm		5929 128 005	50
8 mm	10 mm	60 mm	15 mm	5 mm	5929 128 015	50
8 mm	10 mm	70 mm	25 mm	15 mm	5929 128 025	50
8 mm	10 mm	80 mm	35 mm	25 mm	5929 128 035	50
8 mm	10 mm	90 mm	45 mm	35 mm	5929 128 045	50
8 mm	10 mm	100 mm	55 mm	45 mm	5929 128 055	50
8 mm	10 mm	120 mm	75 mm	65 mm	5929 128 075	50
8 mm	10 mm	140 mm	95 mm	85 mm	5929 128 095	50
8 mm	10 mm	160 mm	115 mm	105 mm	5929 128 115	50
10 mm	12 mm	60 mm	5 mm		5929 121 005	25
10 mm	12 mm	80 mm	25 mm	5 mm	5929 121 025	25
10 mm	12 mm	90 mm	35 mm	15 mm	5929 121 035	25
10 mm	12 mm	100 mm	45 mm	25 mm	5929 121 045	25
10 mm	12 mm	120 mm	65 mm	45 mm	5929 121 065	25
10 mm	12 mm	140 mm	85 mm	65 mm	5929 121 085	25
10 mm	12 mm	160 mm	105 mm	85 mm	5929 121 105	25
12 mm	14 mm	80 mm	15 mm		5929 122 015	25
12 mm	14 mm	110 mm	45 mm	25 mm	5929 122 045	25
14 mm	16 mm	80 mm	5 mm		5929 124 005	25
14 mm	16 mm	110 mm	35 mm	10 mm	5929 124 035	25
14 mm	16 mm	130 mm	55 mm	30 mm	5929 124 055	25

ETA-16/0043 for individual attachment

Option 1, cracked and non-cracked concrete (sizes 6–14), seismic performance category C1 (sizes 8–14)

ETA-16/0128 for multiple attachment

Concrete (sizes 5 and 6)

Hollow-core prestressed concrete ceilings (size 6)

Fire resistance

R30, R60, R90, R120; Technical Report TR020 (included in the approvals)



From size 8, we recommend the use of a suitable tangential impact screwdriver for installation.

High-performance anchor with threaded bolt W-HAZ-B/S

Heavy-duty anchor for high loads in cracked and non-cracked concrete. Zinc-plated steel



- High load-bearing capacities
- Time-saving push-through installation
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding galvanised steel anchor

Material	Steel
Surface	Zinc plated

Metric anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Width across flats	Art. no.	P. Qty.
M6	67 mm	0 mm	10 mm	0905 210 101	100
M6	77 mm	10 mm	10 mm	0905 210 102	50
M6	97 mm	30 mm	10 mm	0905 210 103	50
M6	117 mm	50 mm	10 mm	0905 210 104	50
M6	167 mm	100 mm	10 mm	0905 210 105	25
M8	80 mm	0 mm	13 mm	0905 212 101	50
M8	90 mm	10 mm	13 mm	0905 212 102	50
M8	110 mm	30 mm	13 mm	0905 212 103	50
M8	130 mm	50 mm	13 mm	0905 212 104	25
M8	180 mm	100 mm	13 mm	0905 212 105	25
M10	96 mm	0 mm	17 mm	0905 215 101	25
M10	111 mm	15 mm	17 mm	0905 215 102	25
M10	121 mm	25 mm	17 mm	0905 215 103	25
M10	141 mm	45 mm	17 mm	0905 215 104	25
M10	191 mm	95 mm	17 mm	0905 215 105	25
M12	112 mm	0 mm	19 mm	0905 218 101	20
M12	122 mm	10 mm	19 mm	0905 218 102	20
M12	132 mm	20 mm	19 mm	0905 218 103	20
M12	152 mm	40 mm	19 mm	0905 218 104	20
M12	182 mm	70 mm	19 mm	0905 218 105	20
M12	212 mm	100 mm	19 mm	0905 218 106	10
M16	137 mm	0 mm	24 mm	0905 224 101	10
M16	152 mm	0 mm	24 mm	0905 224 111	10
M16	157 mm	20 mm	24 mm	0905 224 102	10
M16	182 mm	30 mm	24 mm	0905 224 113	10
M16	187 mm	50 mm	24 mm	0905 224 103	10
M16	202 mm	50 mm	24 mm	0905 224 115	10
M16	237 mm	100 mm	24 mm	0905 224 104	5
M20	181 mm	10 mm	30 mm	0905 228 101	10
M20	201 mm	30 mm	30 mm	0905 228 102	5
M20	231 mm	60 mm	30 mm	0905 228 103	5
M20	271 mm	100 mm	30 mm	0905 228 104	5

- ETA-02/0031 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2
- Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 1363-1:1999-10 (uniform temperature-time curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-02/0031)



High-performance anchor with hexagon screw W-HAZ-S/S

Heavy-duty anchor for high loads in cracked and non-cracked concrete, clean finish on the attached part. Zinc-plated steel



- High load-bearing capacities
- Time-saving push-through installation
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding galvanised steel anchor

Material	Steel
Surface	Zinc plated

Metric anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Width across flats	Art. no.	P. Qty.
M6	65 mm	0 mm	10 mm	0905 210 001	100
M6	75 mm	10 mm	10 mm	0905 210 002	50
M6	95 mm	30 mm	10 mm	0905 210 003	50
M6	115 mm	50 mm	10 mm	0905 210 004	50
M8	75 mm	0 mm	13 mm	0905 212 001	50
M8	87 mm	10 mm	13 mm	0905 212 002	50
M8	107 mm	30 mm	13 mm	0905 212 003	50
M8	127 mm	50 mm	13 mm	0905 212 004	25
M10	93 mm	0 mm	17 mm	0905 215 001	25
M10	108 mm	15 mm	17 mm	0905 215 002	25
M10	118 mm	25 mm	17 mm	0905 215 003	25
M10	138 mm	45 mm	17 mm	0905 215 004	25
M10	188 mm	95 mm	17 mm	0905 215 005	25
M12	107 mm	0 mm	19 mm	0905 218 001	20
M12	117 mm	10 mm	19 mm	0905 218 002	20
M12	127 mm	20 mm	19 mm	0905 218 003	20
M12	147 mm	40 mm	19 mm	0905 218 004	20
M12	177 mm	70 mm	19 mm	0905 218 005	20
M16	132 mm	0 mm	24 mm	0905 224 001	10
M16	150 mm	0 mm	24 mm	0905 224 011	10
M16	152 mm	20 mm	24 mm	0905 224 002	10
M16	180 mm	30 mm	24 mm	0905 224 013	10
M16	182 mm	50 mm	24 mm	0905 224 003	10
M16	200 mm	50 mm	24 mm	0905 224 015	10
M20	172 mm	10 mm	30 mm	0905 228 001	10
M20	192 mm	30 mm	30 mm	0905 228 002	5
M20	222 mm	60 mm	30 mm	0905 228 003	5
M20	262 mm	100 mm	30 mm	0905 228 004	5

- ETA-02/0031 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2
- Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 1363-1:1999-10 (uniform temperature-time curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-02/0031)



High-performance anchor with countersunk screw W-HAZ-SK/S

Heavy-duty anchor for high loads in cracked and non-cracked concrete, ideal for flush-mounted fixtures, such as railings or handrails. Zinc-plated steel



- High load-bearing capacities
- Time-saving push-through installation
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding galvanised steel anchor
- Countersunk head design for an elegant appearance (e.g. for railings)

Drive type	Hexagon socket
Material	Steel
Surface	Zinc plated

Metric anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Countersink diameter	Countersinking depth	Art. no.	P. Qty.
M6	70 mm	10 mm	16.5 mm	3.9 mm	0905 210 201	50
M6	85 mm	25 mm	16.5 mm	3.9 mm	0905 210 202	50
M6	100 mm	40 mm	16.5 mm	3.9 mm	0905 210 203	50
M8	80 mm	10 mm	20.5 mm	5 mm	0905 212 201	50
M8	95 mm	25 mm	20.5 mm	5 mm	0905 212 202	50
M8	120 mm	50 mm	20.5 mm	5 mm	0905 212 203	25
M10	95 mm	10 mm	24.5 mm	5.7 mm	0905 215 201	25
M10	110 mm	25 mm	24.5 mm	5.7 mm	0905 215 202	25
M10	120 mm	35 mm	24.5 mm	5.7 mm	0905 215 203	25
M10	135 mm	50 mm	24.5 mm	5.7 mm	0905 215 204	25
M12	115 mm	20 mm	29.5 mm	6.7 mm	0905 218 203	20
M12	135 mm	40 mm	29.5 mm	6.7 mm	0905 218 204	20

- ETA-02/0031 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2
- Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 1363-1:1999-10 (uniform temperature-time curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-02/0031)



High-performance anchor with threaded bolt W-HAZ-B/A4

Heavy-duty anchor for high loads in cracked and non-cracked concrete. Stainless steel A4



- High load-bearing capacities
- Time-saving push-through installation
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding A4 stainless steel anchor

Material	Stainless steel A4
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Metric anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Width across flats	Art. no.	P. Qty.
M8	90 mm	10 mm	13 mm	5932 612 102	50
M8	110 mm	30 mm	13 mm	5932 612 103	50
M10	111 mm	15 mm	17 mm	5932 615 102	25
M10	121 mm	25 mm	17 mm	5932 615 103	25
M12	132 mm	20 mm	19 mm	5932 618 103	20

- ETA-02/0031 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2
- Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 1363-1:1999-10 (uniform temperature-time curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-02/0031)



High-performance anchor with hexagonal bolt W-HAZ-S/A4

Heavy-duty anchor for high loads in cracked and non-cracked concrete, clean finish on the attached part. Stainless steel A4



- High load-bearing capacities
- Time-saving push-through installation
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding A4 stainless steel anchor

Material	Stainless steel A4
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Metric anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Width across flats	Art. no.	P. Qty.
M8	90 mm	10 mm	13 mm	5932 612 002	50
M8	110 mm	30 mm	13 mm	5932 612 003	50
M10	111 mm	15 mm	17 mm	5932 615 002	25
M10	121 mm	25 mm	17 mm	5932 615 003	25
M12	132 mm	20 mm	19 mm	5932 618 003	20

- ETA-02/0031 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2
- Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 1363-1:1999-10 (uniform temperature-time curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-02/0031)



High-performance anchor with countersunk head screw W-HAZ-SK/A4

Heavy-duty anchor for high loads in cracked and non-cracked concrete, ideal for flush-mounted fixtures, such as railings or handrails. Stainless steel A4



- High load-bearing capacities
- Time-saving push-through installation
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding A4 stainless steel anchor
- Countersunk head design for an elegant appearance (e.g. railings)

Material	Stainless steel A4
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Metric anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Countersink diameter	Countersinking depth	Art. no.	P. Qty.
M8	80 mm	10 mm	20.5 mm	5 mm	5932 612 201	50
M8	95 mm	25 mm	20.5 mm	5 mm	5932 612 202	50
M10	100 mm	15 mm	24.5 mm	5.7 mm	5932 615 201	25
M10	110 mm	25 mm	24.5 mm	5.7 mm	5932 615 202	25
M12	115 mm	20 mm	29.5 mm	6.7 mm	5932 618 203	20

- ETA-02/0031 for individual attachment, option 1, cracked and non-cracked concrete, seismic performance category C1 and C2
- Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 1363-1:1999-10 (uniform temperature-time curve)
- Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-02/0031)



Aerated concrete anchor W-PA

Heavy-duty anchor with male thread (type A) for individual attachment in aerated concrete. With technical approval. Steel, zinc plated



- High permissible loads for maximum safety
- Quick anchor insertion – minimal installation costs
- Immediate load-bearing capacity – no waiting
- The positive locking anchoring is largely free of expansion pressure and is achieved without expensive and complicated undercutting tools.

Assembly with and without tools possible

Mechanical application with special tool for SDS mount also possible – uses only the impact action of the hammer drill (min. 3 kg).

Embedding depth (h s)	70 mm
Material	Steel
Surface	Zinc plated

Anchor diameter	Max. attachment height (d a)	Hole diameter in component (d Bau)	Art. no.	P. Qty.
6 mm	10 mm	7 mm	0905 710 610	25
8 mm	10 mm	9 mm	0905 710 810	25
10 mm	20 mm	12 mm	0905 711 020	25

- Z-21.1-1983 General technical approval for: tension zone (cracked aerated concrete) and compression zone (non-cracked aerated concrete); light-weight ceiling cladding and suspended ceilings in accordance with DIN 18168-1:1981-10 in reinforced roof and ceiling panels, and for structurally comparable anchorages (see technical approval for maximum load)
- Fire resistance: F90, F120 (M6-M12)



The anchors may only be fixed in unplastered, uncoated masonry walls

Aerated concrete anchor W-PA

Heavy-duty anchor with female thread (type I) for aerated concrete. With technical approval. Steel, zinc plated



- High permissible loads for maximum safety
- Quick anchor insertion – minimal installation costs
- Immediate load-bearing capacity – no waiting
- The positive locking anchoring is largely free of expansion pressure and is achieved without expensive and complicated undercutting tools.

Assembly with and without tools possible

Mechanical application with special tool for SDS mount also possible – uses only the impact action of the hammer drill (min. 3 kg).

Material	Steel
Surface	Zinc plated

Anchor diameter	Embedding depth (h s)	Min./max. screw-in depth	Art. no.	P. Qty.
6 mm	70 mm	6-13 mm	0905 720 006	25
8 mm	70 mm	8-13 mm	0905 720 008	25
10 mm	80 mm	10-18 mm	0905 720 010	25
12 mm	80 mm	12-18 mm	0905 720 012	25

- Z-21.1-1983 General technical approval for: tension zone (cracked aerated concrete) and compression zone (non-cracked aerated concrete); light-weight ceiling cladding and suspended ceilings in accordance with DIN 18168-1:1981-10 in reinforced roof and ceiling panels, and for structurally comparable anchorages (see technical approval for maximum load)
- Fire resistance: F90, F120 (M6-M12)



The anchors may only be fixed in unplastered, uncoated masonry walls

Hollow ceiling anchor W-HD

Female thread anchor with metric thread for secure anchoring in hollow-core prestressed concrete ceilings. With technical approval. Steel, zinc-plated



- Screws or threaded rods can be used
- The anchor can also be mounted outside the cavity axis, up to 50 mm from the prestressed strand – maximum flexibility
- Quick, easy installation – no special tool required
- Immediate load-bearing capacity – no waiting

Anchor diameter	Sleeve length	Required screw length (l s)	Required stud-bolt length (l B)	Nominal drill-bit diameter (d 0)	Art. no.	P. Qty.
6 mm	30 mm	42 mm + thickness of the add-on part (t fix)	47 + thickness of the add-on part (t fix)	10 mm	0905 120 601	50
8 mm	35 mm	47 mm + thickness of the add-on part (t fix)	53 + thickness of the add-on part (t fix)	12 mm	0905 120 801	50
10 mm	40 mm	55 mm + thickness of the add-on part (t fix)	63 + thickness of the add-on part (t fix)	16 mm	0905 121 001	50
12 mm	45 mm	61 mm + thickness of the add-on part (t fix)	71 + thickness of the add-on part (t fix)	18 mm	0905 121 201	25

- General technical approval Z-21.1-1832
- VdS approval for fixings for stationary water extinguishing systems (approval no. G 412010)
- Fire resistance (anchoring base: concrete C45/55 or C50/60): R30, R60, R90, R120: General technical approval Z-21.1-1832, fire protection test report no. (3526/3426)



- The cone is separated from the expansion sleeve when the screw or hexagon nut is tightened. – Important: At least three screw/nut rotations are required. Applying the installation torque pulls the cone into the expansion sleeve and expands it.
- Anchoring is only permissible in hollow-core prestressed concrete ceilings with a hollow space width that does not exceed 4.2 times the web width ($b_H \leq 4.2 \times b_{SI}$)

Fixing anchor W-FA/S

Bolt anchor for high loads in non-cracked concrete.
Zinc-plated steel



- Time-saving push-through installation
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding galvanised steel anchor
- Two anchorage depths – wide range of applications

Material	Steel
Surface	Zinc plated

Metric anchor diameter	Anchor length (l)	Attachment height (t fix)/effective anchoring depth (h ef)/drill hole depth (h 1)	Attachment height (t fix 2)/effective anchoring depth (h ef 2)/drill hole depth (h 1 2) (Attachment height (t fix 2)/effective anchoring depth (h ef 2)/drill hole depth (h 1, 2))	Width across flats	Art. no.	P. Qty.
M6	40 mm	5/27/45 mm		10 mm	5932 006 040	100
M6	67 mm	10/40/55 mm	20/30/45 mm	10 mm	5932 006 067	100
M6	82 mm	25/40/55 mm	35/30/45 mm	10 mm	5932 006 082	100
M6	97 mm	40/40/55 mm	50/30/45 mm	10 mm	5932 006 097	100
M8	50 mm	5/24/55 mm		13 mm	5932 008 050	100
M8	75 mm	10/44/65 mm	19/35/55 mm	13 mm	5932 008 075	100
M8	80 mm	15/44/65 mm	24/35/55 mm	13 mm	5932 008 080	100
M8	90 mm	25/44/65 mm	34/35/55 mm	13 mm	5932 008 090	100
M8	95 mm	30/44/65 mm	39/35/55 mm	13 mm	5932 008 095	100
M8	110 mm	45/44/65 mm	54/35/55 mm	13 mm	5932 008 110	100
M8	120 mm	55/44/65 mm	64/35/55 mm	13 mm	5932 008 120	100
M10	60 mm	10/23/65 mm		17 mm	5932 010 060	50
M10	85 mm	10/48/70 mm	16/42/65 mm	17 mm	5932 010 085	50
M10	90 mm	15/48/70 mm	21/42/65 mm	17 mm	5932 010 090	50
M10	95 mm	20/48/70 mm	26/42/65 mm	17 mm	5932 010 095	50
M10	105 mm	30/48/70 mm	36/42/65 mm	17 mm	5932 010 105	50
M10	120 mm	45/48/70 mm	51/42/65 mm	17 mm	5932 010 120	50
M10	145 mm	70/48/70 mm	76/42/65 mm	17 mm	5932 010 145	50
M10	175 mm	100/48/70 mm	106/42/65 mm	17 mm	5932 010 175	50
M10	215 mm	140/48/70 mm	146/42/65 mm	17 mm	5932 010 215	25
M12	75 mm	5/40/75 mm		19 mm	5932 012 075	25
M12	105 mm	10/65/90 mm	25/50/75 mm	19 mm	5932 012 105	25
M12	110 mm	15/65/90 mm	30/50/75 mm	19 mm	5932 012 110	25
M12	115 mm	20/65/90 mm	35/50/75 mm	19 mm	5932 012 115	25
M12	125 mm	30/65/90 mm	45/50/75 mm	19 mm	5932 012 125	25
M12	145 mm	50/65/90 mm	65/50/75 mm	19 mm	5932 012 145	25
M12	160 mm	65/65/90 mm	80/50/75 mm	19 mm	5932 012 160	25
M12	180 mm	85/65/90 mm	100/50/75 mm	19 mm	5932 012 180	25
M12	200 mm	105/65/90 mm	120/50/75 mm	19 mm	5932 012 200	25
M12	220 mm	125/65/90 mm	140/50/75 mm	19 mm	5932 012 220	25
M12	240 mm	145/65/90 mm	160/50/75 mm	19 mm	5932 012 240	20
M12	255 mm	160/65/90 mm	175/50/75 mm	19 mm	5932 012 255	20
M16	115 mm	13/64/110 mm		24 mm	5932 016 115	20
M16	130 mm	10/82/110 mm	28/64/95 mm	24 mm	5932 016 130	20

Metric anchor diameter	Anchor length (l)	Attachment height (t fix)/effective anchoring depth (h ef)/drill hole depth (h 1)	Attachment height (t fix 2)/effective anchoring depth (h ef 2)/drill hole depth (h 1 2) (Attachment height (t fix 2)/effective anchoring depth (h ef 2)/drill hole depth (h 1, 2))	Width across flats	Art. no.	P. Qty.
M16	150 mm	30/82/110 mm	48/64/95 mm	24 mm	5932 016 150	20
M16	180 mm	60/82/110 mm	78/64/95 mm	24 mm	5932 016 180	20
M16	200 mm	80/82/110 mm	98/64/95 mm	24 mm	5932 016 200	10
M16	220 mm	100/82/110 mm	118/64/95 mm	24 mm	5932 016 220	10
M16	250 mm	130/82/110 mm	148/64/95 mm	24 mm	5932 016 250	10
M16	285 mm	165/82/110 mm	183/64/95 mm	24 mm	5932 016 285	10
M16	320 mm	200/82/110 mm	218/64/95 mm	24 mm	5932 016 320	10
M16	340 mm	220/82/110 mm	238/64/95 mm	24 mm	5932 016 340	10
M20	150 mm	5/100/130 mm	27/78/110 mm	30 mm	5932 020 150	10
M20	180 mm	35/100/130 mm	57/78/110 mm	30 mm	5932 020 180	10
M20	205 mm	60/100/130 mm	82/78/110 mm	30 mm	5932 020 205	10
M20	240 mm	95/100/130 mm	117/78/110 mm	30 mm	5932 020 240	10

- ETA-02/0001 for individual attachment, Option 7, non-cracked concrete
- Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 4102-2:1977-09 (uniform temperature curve)



**Fire protection
certified**

Fixing bolt anchor W-FA/S with long U washer for timber construction

Stud anchor for timber construction, for attachment in non-cracked concrete. Zinc plated steel



- Time-saving push-through installation
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding galvanised steel anchor
- Two anchorage depths – wide range of applications

Material	Steel
Surface	Zinc plated
Approval	ETA-02/0001

Metric anchor diameter	Anchor length (l)	Attachment height (t fix)/effective anchoring depth (h ef)/drill hole depth (h 1)	Attachment height (t fix 2)/effective anchoring depth (h ef 2)/drill hole depth (h 1 2) (Attachment height (t fix 2)/effective anchoring depth (h ef 2)/drill hole depth (h 1, 2))	Washer diameter	Art. no.	P. Qty.
M12	160 mm	65/65/90 mm	80/50/75 mm	44 mm	5932 112 160	25
M12	180 mm	85/65/90 mm	100/50/75 mm	44 mm	5932 112 180	25
M12	200 mm	105/65/90 mm	120/50/75 mm	44 mm	5932 112 200	25
M12	220 mm	125/65/90 mm	140/50/75 mm	44 mm	5932 112 220	25
M12	240 mm	145/65/90 mm	160/50/75 mm	44 mm	5932 112 240	20
M12	255 mm	160/65/90 mm	175/50/75 mm	44 mm	5932 112 255	20
M12	285 mm	190/65/90 mm	205/50/75 mm	44 mm	5932 112 285	20
M12	325 mm	230/65/90 mm	245/50/75 mm	44 mm	5932 112 325	20
M12	355 mm	260/65/90 mm	275/50/75 mm	44 mm	5932 112 355	10
M16	220 mm	100/82/110 mm	118/64/95 mm	56 mm	5932 116 220	10
M16	250 mm	130/82/110 mm	148/64/95 mm	56 mm	5932 116 250	10
M16	285 mm	165/82/110 mm	183/64/95 mm	56 mm	5932 116 285	10
M16	320 mm	200/82/110 mm	218/64/95 mm	56 mm	5932 116 320	10

- ETA-02/0001 for individual attachment, Option 7, non-cracked concrete
- Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 4102-2:1977-09 (uniform temperature curve)



Fixing anchor W-FA/F

Stud anchor for standard applications in non-cracked concrete. Hot-dip galvanised steel

- Time-saving push-through installation
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding anchor made from hot dip galvanised steel
- Two anchorage depths – wide range of applications



Material	Steel
Surface	Hot dip galvanized

Metric anchor diameter	Anchor length (l)	Attachment height (t fix)/effective anchoring depth (h ef)/drill hole depth (h 1)	Attachment height (t fix 2)/effective anchoring depth (h ef 2)/drill hole depth (h 1 2) (Attachment height (t fix 2)/effective anchoring depth (h ef 2)/drill hole depth (h 1, 2))	Width across flats	Art. no.	P. Qty.
M6	40 mm	5/18/45 mm		10 mm	5932 906 040	100
M8	80 mm	15/44/65 mm	24/35/55 mm	13 mm	5932 908 080	100
M8	95 mm	30/44/65 mm	39/35/55 mm	13 mm	5932 908 095	100
M8	120 mm	55/44/65 mm	64/35/55 mm	13 mm	5932 908 120	100
M10	90 mm	15/48/70 mm	21/42/65 mm	17 mm	5932 910 090	50
M10	100 mm	30/48/70 mm	36/42/65 mm	17 mm	5932 910 105	50
M10	120 mm	45/48/70 mm	51/42/65 mm	17 mm	5932 910 120	50
M12	110 mm	15/65/90 mm	30/50/75 mm	19 mm	5932 912 110	25
M12	125 mm	30/65/90 mm	45/50/75 mm	19 mm	5932 912 125	25
M12	145 mm	50/65/90 mm	65/50/75 mm	19 mm	5932 912 145	25
M12	180 mm	85/65/90 mm	100/50/75 mm	19 mm	5932 912 180	25
M16	150 mm	30/82/110 mm	48/64/95 mm	24 mm	5932 916 150	20

Approval:

- ETA-02/0001 for individual attachment, Option 7, non-cracked concrete



Fixing anchor W-FA/A4

Bolt anchor for high loads in non-cracked concrete. Stainless steel A4

- Time-saving push-through installation
- Immediate load-bearing capacity – no waiting
- Torque-controlled expanding stainless steel A4 anchor
- Two anchorage depths – wide range of applications



Material	Stainless steel A4
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Metric anchor diameter	Anchor length (l)	Attachment height (t fix)/effective anchoring depth (h ef)/drill hole depth (h 1)	Attachment height (t fix 2)/effective anchoring depth (h ef 2)/drill hole depth (h 1 2) (Attachment height (t fix 2)/effective anchoring depth (h ef 2)/drill hole depth (h 1, 2))	Width across flats	Art. no.	P. Qty.
M6	40 mm	5/27/45 mm		10 mm	0904 411 061	100
M6	67 mm	10/40/55 mm	20/30/45 mm	10 mm	0904 411 065	100
M6	82 mm	25/40/55 mm	35/30/45 mm	10 mm	0904 411 066	100
M6	97 mm	40/40/55 mm	50/30/45 mm	10 mm	0904 411 067	100
M8	75 mm	10/44/65 mm	19/35/55 mm	13 mm	0904 411 083	100
M8	80 mm	15/44/65 mm	24/35/55 mm	13 mm	0904 411 084	100
M8	95 mm	30/44/65 mm	39/35/55 mm	13 mm	0904 411 087	100
M8	120 mm	55/44/65 mm	64/35/55 mm	13 mm	0904 411 089	100
M10	85 mm	10/48/70 mm	16/42/65 mm	17 mm	0904 411 002	50
M10	90 mm	15/48/70 mm	21/42/65 mm	17 mm	0904 411 003	50
M10	95 mm	20/48/70 mm	26/42/65 mm	17 mm	0904 411 004	50
M10	105 mm	30/48/70 mm	36/42/65 mm	17 mm	0904 411 005	50
M10	120 mm	45/48/70 mm	51/42/65 mm	17 mm	0904 411 006	50
M12	110 mm	15/65/90 mm	30/50/75 mm	19 mm	0904 411 204	25
M12	125 mm	30/65/90 mm	45/50/75 mm	19 mm	0904 411 206	25
M12	180 mm	85/65/90 mm	100/50/75 mm	19 mm	0904 411 209	25
M12	200 mm	105/65/90 mm	120/50/75 mm	19 mm	0904 411 210	25
M16	150 mm	30/80/110 mm	46/64/95 mm	24 mm	0904 411 604	20
M16	220 mm	100/80/110 mm	116/64/95 mm	24 mm	0904 411 607	10
M20	180 mm	35/100/130 mm	57/78/110 mm	30 mm	0904 412 002	10

Approvals:
ETA-02/0001 for individual attachment, Option 7, non-cracked concrete
ETA-06/0162 for multiple attachment of non-load-bearing systems, non-cracked and cracked concrete, M6
Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 4102-2:1977-09 (uniform temperature-time curve)
Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-06/0162)



Fixing anchor W-FA/S see [11.1]

Fixing anchor W-FA/F see [11.1]



Wedge anchor W-ED/S

Female thread anchor with metric thread for anchoring in concrete, galvainsed steel

- Small drill hole depth
- High load-bearing capacities
- Visual setting check and hand protection when installing with the marking/expander tool
- Mechanical setting tool makes installation quicker and easier
- Immediate load-bearing capacity – no waiting
- Attached part can easily be removed at any time
- The attached part can be anchored with a fastening screw or a threaded rod
- No installation torque required
- The stop bit used with the attachable expander tool makes it quicker and easier to install. The matching drill holes make the installation even more secure.

ETA-02/0044 for individual attachment, option 7, non-cracked concrete

ETA-05/0120 for multiple attachment of non-load-bearing systems, non-cracked and cracked concrete, M6–M16

Fire resistance: F30, F60, F90 and F120; exposure to fire according to

DIN 4102-2:1977-09 (uniform temperature-time curve)

Fire resistance: R30, R60, R90 and R120; TR020 (included in

ETA-05/0120)

Material	Steel
Surface	Zinc plated

Anchor diameter	Anchor length (L H)	Min./max. required screw-in depth	Approval	Art. no.	P. Qty.
5 mm	25 mm	6-10 mm	No	0904 5	100
6 mm	30 mm	7-13 mm	ETA-02/0044, ETA-05/0120	0904 010 06	100
8 mm	30 mm	9-13 mm	ETA-02/0044, ETA-05/0120	0904 010 08	100
8 mm	40 mm	9-20 mm	ETA-02/0044, ETA-05/0120	0904 010 081	100
10 mm	40 mm	11-15 mm	ETA-02/0044, ETA-05/0120	0904 010 10	50
12 mm	50 mm	13-18 mm	ETA-02/0044, ETA-05/0120	0904 010 12	50
16 mm	65 mm	18-23 mm	ETA-02/0044, ETA-05/0120	0904 010 16	25
20 mm	80 mm	22-34 mm	ETA-02/0044	0904 010 20	25

Wedge anchor W-ED/S-BND

Female thread anchor with collar and metric thread for economical anchoring in concrete, zinc plated steel



- Small drill hole depth
- High load-bearing capacities
- Visual setting check and hand protection when installing with the marking/spreading tool
- Mechanical setting tool makes installation quicker and easier
- Immediate load-bearing capacity – no waiting
- Attached part can easily be removed at any time
- W-ED/S has collar enabling anchor to be installed flush with the surface and preventing it slipping further into the drill hole (safer installation)
- The attached part can be anchored with a fastening screw or a threaded rod
- No installation torque required

Material	Steel
Surface	Zinc plated

Anchor diameter	Anchor length (L H)	Min./max. required screw-in depth	Art. no.	P. Qty.
8 mm	30 mm	9-13 mm	0904 040 08	100
8 mm	40 mm	9-20 mm	0904 040 081	100
10 mm	30 mm	10-12 mm	0904 040 101	50
10 mm	40 mm	11-15 mm	0904 040 10	50
12 mm	50 mm	13-18 mm	0904 040 12	50

ETA-02/0044 for individual attachment, option 7, non-cracked concrete

ETA-05/0120 for multiple attachment of non-load-bearing systems, non-cracked and cracked concrete

Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 4102-2:1977-09 (uniform temperature curve)

Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-05/0120)



Drive-in anchor W-ED/A4 see [13.2]

Drive-in anchor W-ED/A4

Female thread anchor with metric thread for economical anchoring in concrete, A4 stainless steel



- Small drill hole depth
- High load-bearing capacities
- Visual setting check and hand protection when installing with the marking/expander tool
- Mechanical setting tool makes installation quicker and easier
- Immediate load-bearing capacity – no waiting
- Attached part can easily be removed at any time
- The attached part can be anchored with a fastening screw or a threaded rod
- No installation torque required
- The stop bit used with the attachable expander tool makes it quicker and easier to install. The matching drill holes make the installation even more secure.

Material	Stainless steel A4
Approval	ETA-02/0044, ETA-05/0120

Anchor diameter	Anchor length (L H)	Min./max. required screw-in depth	Art. no.	P. Qty.
6 mm	30 mm	7-13 mm	0904 030 06	100
8 mm	30 mm	9-13 mm	0904 030 08	100
8 mm	40 mm	9-20 mm	0904 030 081	100
10 mm	40 mm	11-15 mm	0904 030 10	50
12 mm	50 mm	13-18 mm	0904 030 12	50
16 mm	65 mm	18-23 mm	0904 030 16	25

ETA-02/0044 for individual attachment, option 7, non-cracked concrete
ETA-05/0120 for multiple attachment of non-load-bearing systems, non-cracked and cracked concrete, M6–M16
Fire resistance: F30, F60, F90 and F120; exposure to fire according to DIN 4102-2:1977-09 (uniform temperature curve)
Fire resistance: R30, R60, R90 and R120; TR020 (included in ETA-05/0120)



W-ED /S drive-in anchor, see [13.1]

Drive-in anchor W-ED

Female thread anchor with metric thread for anchoring in concrete, zinc-plated steel in sizes M12 (for core drills) and DW 15 (DYWIDAG® female thread DW15)



- Quick, cost-effective installation thanks to small drill hole depth
- Maximum safety thanks to high load-bearing capacity in non-cracked concrete
- Secure mounting using the associated manual expander tool
- Installation type: Cotter pin installation
- Immediate load-bearing capacity – no waiting
- Attached part can easily be removed at any time. The attached part can be anchored with a fastening screw or a threaded rod.

W-ED M12:

Anchor's special solid outer wall reliably prevents breaking out of the anchoring base – even in the event of sudden loading from the core drill. To be installed with the specified torque.

W-ED DW15:

Variable rod lengths and clamping strengths can be used. No need to apply torque. Thread resistant to soiling.

Material	Steel
Surface	Zinc plated

Anchor diameter	Anchor length (L H)	Thread type x anchor diameter	Art. no.	P. Qty.
12 mm	50 mm	M12	0904 010 126	50
15 mm	80 mm	DW15	0904 010 15	25

DYWIDAG® female thread (DYWIDAG® is a registered trademark of Walter Bau AG)

Expander tool

For drive-in anchor, without visual setting check

Visual setting check	No
Design	Without hand guard
SDS chuck	No



Suitable for drive-in anchor	Art. no.	P. Qty.
DW 15	0904 020 15	1
M5 x 25 mm	0904 05	1
M6 x 30 mm	0904 020 06	1
M8 x 30 mm	0904 020 08	1
M8 x 40 mm	0904 020 081	1
M10 x 30 mm	0904 020 101	1
M10 x 40 mm	0904 020 10	1
M12 x 50 mm	0904 020 12	1
M16 x 65 mm	0904 020 16	1
M20 x 80 mm	0904 020 20	1

Marking/expander tool with hand guard

For drive-in anchor, with visual setting check

For simple and convenient setting. Hand guard provides optimal protection in the case of off-target impacts



Visual setting check	Yes
Design	With hand guard

Suitable for drive-in anchor	Art. no.	P. Qty.
M8 x 30 mm	0904 022 08	1
M8 x 40 mm	0904 022 081	1
M10 x 30 mm	0904 022 101	1
M10 x 40 mm	0904 022 10	1
M12 x 50 mm	0904 022 12	1
M16 x 65 mm	0904 022 16	1
M20 x 80 mm	0904 022 20	1

Mechanical setting tool

For drive-in anchor, without visual setting check

For extremely easy setting of drive-in anchor using a hammer drill.



Visual setting check	No
Design	Machined
SDS chuck	Yes

Suitable for drive-in anchor	Art. no.	P. Qty.
M8 x 30 mm	0904 023 08	1
M10 x 40 mm	0904 023 10	1
M12 x 50 mm	0904 023 12	1

Stop bit with clip-on expander tool

For W-ED drive-in anchor

- Makes installation quicker and easier
- The matching drill holes make the installation even more secure



Visual setting check	No
Design	Machined
SDS chuck	Yes

Suitable for drive-in anchor	Art. no.	P. Qty.
M6 x 25 mm	0904 024 060	1
M6 x 30 mm	0904 024 06	1
M8 x 25 mm	0904 024 080	1
M8 x 30 mm	0904 024 08	1
M8 x 40 mm	0904 024 081	1
M10 x 25 mm	0904 024 100	1
M10 x 30 mm	0904 024 101	1
M10 x 40 mm	0904 024 10	1

Stop bit

For W-ED drive-in anchor

- The matching drill holes make the installation even more secure



Suitable for drive-in anchor	Art. no.	P. Qty.
M6 x 25 mm	0904 025 060	1
M6 x 30 mm	0904 025 06	1
M8 x 25 mm	0904 025 080	1
M8 x 30 mm	0904 025 08	1
M8 x 40 mm	0904 025 081	1
M10 x 25 mm	0904 025 100	1
M10 x 30 mm	0904 025 101	1
M10 x 40 mm	0904 025 10	1
M12 x 25 mm	0904 025 120	1
M12 x 50 mm	0904 025 12	1

Heavy-duty anchor W-TM, type A

With female thread for bolts and screws with metric thread, for non-cracked concrete

- Minimal effort required to insert anchor
- Immediate load-bearing capacity – no waiting
- No setting tools required
- Can be set flush with surface: Attached parts can be removed/remounted at any time
- Triple expansion sleeve to ensure even expansion and load distribution
- Suitable for bolts and screws with a metric thread
- Applying the specified torque during the anchoring process ensures secure installation
- Load-controlled/torque-controlled expanding galvanised steel anchor in sizes M6–M12
- Cotter-pin installation



Material	Steel
Surface	Zinc plated

Anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Art. no.	P. Qty.
6 mm	45 mm	150 mm	0904 901 850	50
8 mm	51 mm	200 mm	0904 901 851	50
10 mm	60 mm	250 mm	0904 901 852	50
12 mm	75 mm	300 mm	0904 901 853	25

ETA-10/0255 for individual attachment, Option 7, non-cracked concrete, galvanised steel, M6–M12; dimensioned in accordance with the European Technical Approval Guidelines (ETAG) for „Metal Anchors for Use in Concrete“, Appendix C, measurement process A



The partial safety factors of the resistances regulated in the approval and a partial safety factor of the effects of $\gamma_F = 1.4$ have been taken into account. Please refer to the European Technical Approval Guidelines (ETAG), Appendix C, for information on combining tensile and transverse loads, edge influence and groups of anchors.

The concrete has normal reinforcement. Higher values are possible for higher concrete strengths.

Compliant with approval if screws and threaded rods with acceptance test certificate 3.1 in accordance with EN 10204:2004 are proven to be the required material and to possess the mechanical properties stipulated in ETA-10/0255

Heavy-duty anchor W-TM, type S

With hexagon bolt and washer, for non-cracked concrete, zinc plated steel

- Minimal effort required to insert anchor
- Immediate load-bearing capacity – no waiting
- No setting tools required
- Can be set flush with surface: Attached parts can be removed/remounted at any time
- Triple expansion sleeve to ensure even expansion and load distribution
- Applying the specified torque during the anchoring process ensures secure installation
- Load-controlled/torque-controlled expanding galvanised steel anchor in sizes M6–M12
- Cotter-pin installation



Material	Steel
Surface	Zinc plated

Anchor diameter	Anchor length (l)	Max. attachment height (t fix)	Width across flats	Screw length	Art. no.	P. Qty.
6 mm	45 mm	10 mm	10 mm	55 mm	0904 901 860	50
8 mm	51 mm	14 mm	13 mm	65 mm	0904 901 861	50
10 mm	60 mm	20 mm	17 mm	80 mm	0904 901 862	50
12 mm	75 mm	25 mm	19 mm	100 mm	0904 901 863	25

ETA-10/0255 for individual attachment, Option 7, non-cracked concrete, galvanised steel, M6–M12; dimensioned in accordance with the European Technical Approval Guidelines (ETAG) for „Metal Anchors for Use in Concrete“, Appendix C, measurement process A



The partial safety factors of the resistances regulated in the approval and a partial safety factor of the effects of $\gamma_F = 1.4$ have been taken into account. Please refer to the European Technical Approval Guidelines (ETAG), Appendix C, for information on combining tensile and transverse loads, edge influence and groups of anchors.

The concrete has normal reinforcement. Higher values are possible for higher concrete strengths.

Compliant with approval if screws and threaded rods with acceptance test certificate 3.1 in accordance with EN 10204:2004 are proven to be the required material and to possess the mechanical properties stipulated in ETA-10/0255

If a lower mounting height is required, make a deeper drill hole accordingly

Screw anchor W-SA, type P

Ideally suited for mounting small electrical clamps.

- Anchorage via positive locking
- Push-through installation
- Immediate load-bearing capacity – no waiting
- Virtually no expansion effect, enabling minimal edge and axial clearance to be maintained
- Quick and easy installation or removal by inserting or removing screw anchor



Anchor diameter	5 mm
Anchor length (l) (l)	30 mm
Embedding depth (h nom)	30 mm
Nominal drill-bit diameter (d 0)	4 mm
Centre-to-centre distance in concrete (s)	50 mm
Edge clearance in concrete (c)	50 mm
Minimum component thickness (h min)	90 mm
Through-hole in the component to be connected (d f)	5.5 mm
Internal drive	TX20
Material	Steel
Surface	Zinc plated

Art. no. 0901 150 030

P. Qty.: 200



04 MATERIAL PROCESSING

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Hammer drill bit Plus Quadro-L Vario

The perfect solution for reinforcements and hard materials, featuring a symmetrical, one-piece head with four cutting edges and a four-spiral Vario feed helix with core reinforcement.

- The symmetrical 4 x 90° cutting edge geometry (up to Ø 10 mm with solid carbide head) prevents the drill bit from hooking in or running off centre when striking e.g. reinforcements
- Noticeably quicker drilling
- Thanks to the four cutting edges and four-spiral geometry of the drill bit, the bit is optimally guided into the drilled hole
- The special self-centring tip enables precise spot drilling
- Perfect bore properties over the entire service life thanks to head geometry that is tailored to the drill bit diameter
- 5–16 mm: One-piece carbide element – maximised attachment surface with the steel body gives high stability
- 18–32 mm: Multi-piece cemented carbide element for faster drilling progress and improved buffering of the torsional forces thanks to the trisection
- Vario spiral conveyor with core reinforcement and back that narrows at the front and widens at the rear, as well as sharper angle at the spiral end ensures reduced friction, high stability and maximum transmission of impact energy

Drilling speed (point system)	●●○○
Smoothness of running (points system)	●●●●
Accuracy (point system)	●●●●
Reinforcement strength (points system)	●●●●
Service life (points system)	●●●●



Number of cutting edges	4 PCS
Tool holding device	Suitable for SDS-plus

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
5 mm	115 mm	50 mm	0648 055 011	2/10
5 mm	165 mm	100 mm	0648 055 016	2/10
5.5 mm	115 mm	50 mm	0648 055 511	2
5.5 mm	165 mm	100 mm	0648 055 516	2
6 mm	115 mm	50 mm	0648 056 011	2/10/50
6 mm	165 mm	100 mm	0648 056 016	2/10/50
6 mm	215 mm	150 mm	0648 056 021	2/10
6 mm	265 mm	200 mm	0648 056 026	2/10
6 mm	315 mm	250 mm	0648 056 031	1
6.5 mm	165 mm	100 mm	0648 056 516	2
6.5 mm	215 mm	150 mm	0648 056 521	2
6.5 mm	265 mm	200 mm	0648 056 526	2/10
6.5 mm	315 mm	250 mm	0648 056 531	2/10
7/16 in	350 mm	290 mm	0648 051 135	1
7 mm	115 mm	50 mm	0648 057 011	2
7 mm	165 mm	100 mm	0648 057 016	2
7 mm	215 mm	150 mm	0648 057 021	2
7 mm	255 mm	200 mm	0648 057 025	2
8 mm	115 mm	50 mm	0648 058 011	2/10
8 mm	165 mm	100 mm	0648 058 016	2/10/50
8 mm	215 mm	150 mm	0648 058 021	2/10
8 mm	265 mm	200 mm	0648 058 026	2/10
8 mm	315 mm	250 mm	0648 058 031	2/10
8 mm	405 mm	340 mm	0648 058 040	1
8 mm	465 mm	400 mm	0648 058 046	1
10 mm	115 mm	50 mm	0648 051 011	2/10
10 mm	165 mm	100 mm	0648 051 016	2/10/50
10 mm	215 mm	150 mm	0648 051 021	2/10
10 mm	265 mm	200 mm	0648 051 026	2/10
10 mm	315 mm	250 mm	0648 051 031	2/10
10 mm	355 mm	290 mm	0648 051 035	1
10 mm	455 mm	390 mm	0648 051 045	1
10 mm	600 mm	540 mm	0648 051 060	1
10 mm	1000 mm	940 mm	0648 051 010	1
12 mm	160 mm	100 mm	0648 051 216	2/10
12 mm	210 mm	160 mm	0648 051 221	2/10
12 mm	260 mm	210 mm	0648 051 226	2/10
12 mm	310 mm	260 mm	0648 051 231	1
12 mm	360 mm	300 mm	0648 051 236	1
12 mm	450 mm	400 mm	0648 051 245	1
12 mm	600 mm	550 mm	0648 051 260	1
12 mm	1000 mm	950 mm	0648 051 210	1
14 mm	160 mm	110 mm	0648 051 416	2/10
14 mm	210 mm	160 mm	0648 051 421	2/10
14 mm	260 mm	210 mm	0648 051 426	1
14 mm	310 mm	260 mm	0648 051 431	1
14 mm	450 mm	400 mm	0648 051 445	1
14 mm	600 mm	550 mm	0648 051 460	1
14 mm	1000 mm	950 mm	0648 051 410	1
15 mm	160 mm	110 mm	0648 051 516	1
15 mm	210 mm	160 mm	0648 051 521	1
15 mm	260 mm	210 mm	0648 051 526	1

Continuation **Hammer drill bit Plus Quadro-L Vario**

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
15 mm	450 mm	400 mm	0648 051 545	1
16 mm	160 mm	110 mm	0648 051 616	1
16 mm	210 mm	160 mm	0648 051 621	1
16 mm	260 mm	210 mm	0648 051 626	1
16 mm	310 mm	260 mm	0648 051 631	1
16 mm	450 mm	400 mm	0648 051 645	1
16 mm	600 mm	550 mm	0648 051 660	1
16 mm	800 mm	750 mm	0648 051 680	1
16 mm	1000 mm	950 mm	0648 051 610	1
18 mm	250 mm	200 mm	0648 051 825	1
18 mm	450 mm	400 mm	0648 051 845	1
20 mm	200 mm	150 mm	0648 052 020	1
20 mm	250 mm	200 mm	0648 052 025	1
20 mm	300 mm	250 mm	0648 052 030	1
20 mm	450 mm	400 mm	0648 052 045	1
20 mm	600 mm	550 mm	0648 052 060	1
22 mm	250 mm	200 mm	0648 052 225	1
22 mm	450 mm	400 mm	0648 052 245	1
24 mm	250 mm	200 mm	0648 052 425	1
24 mm	450 mm	400 mm	0648 052 445	1
25 mm	250 mm	200 mm	0648 052 525	1
25 mm	450 mm	400 mm	0648 052 545	1
26 mm	450 mm	400 mm	0648 052 645	1
28 mm	250 mm	200 mm	0648 052 825	1
28 mm	450 mm	400 mm	0648 052 845	1
30 mm	250 mm	200 mm	0648 053 025	1
30 mm	450 mm	400 mm	0648 053 045	1
32 mm	450 mm	400 mm	0648 053 245	1

Hammer drill bit box Plus Quadro-L Vario

7 pieces. Perfect solution for reinforcements and hard materials, featuring a symmetrical, one-piece head with four cutting edges and a four-spiral Vario feed helix with core reinforcement.

- The symmetrical 4 x 90° cutting edge geometry (up to Ø 10 mm with solid carbide head) prevents the drill bit from hooking in or running off centre when striking e.g. reinforcement
- Noticeably quicker drilling
- Drill bit with four cutting edges and four-spiral geometry to ensure that the bit is guided perfectly into the drilled hole



Drilling speed (point system)	●●○○
Smoothness of running (points system)	●●●●
Accuracy (point system)	●●●●
Reinforcement strength (points system)	●●●●
Service life (points system)	●●●●
Number of pieces in assortment/set	7 PCS
Tool holding device	Suitable for SDS-plus



Art. no. 0648 050 001

P. Qty.: 1

Contents for art. no. 0648 050 001		
Designation	Art. no.	Quantity
Hammer drill bit Plus Quadro-L Vario 5 mm; Length 115 mm	0648 055 011	1
Hammer drill bit Plus Quadro-L Vario 6 mm; Length 115 mm	0648 056 011	1
Hammer drill bit Plus Quadro-L Vario Diameter:6 mm; Length:165 mm	0648 056 016	1
Hammer drill bit Plus Quadro-L Vario 8 mm; Length 115 mm	0648 058 011	1
Hammer drill bit Plus Quadro-L Vario Diameter:8 mm; Length:165 mm	0648 058 016	1
Hammer drill bit Plus Quadro-L Vario Diameter:10 mm; Length:165 mm	0648 051 016	1
Hammer drill bit Plus Quadro-L Vario 12 mm; Length 160 mm	0648 051 216	1

Hammer drill bit multi-pack Plus Quadro-L Vario

12 pieces. The perfect solution for reinforcements and hard materials, featuring a symmetrical, one-piece head with four cutting edges and a four-spiral Vario feed helix with core reinforcement.

- The symmetric 4 x 90° cutting geometry prevents the drill bit from hooking in or running off centre
- Noticeably quicker drilling
- Drill bit with four cutting edges and four-spiral geometry to ensure that the bit is guided perfectly into the drilled hole



Drilling speed (point system)	●●○○
Smoothness of running (points system)	●●●●
Accuracy (point system)	●●●●
Reinforcement strength (points system)	●●●●
Service life (points system)	●●●●
Number of pieces in assortment/set	12 PCS
Tool holding device	Suitable for SDS-plus

Art. no. 0648 050 002

P. Qty.: 1

Iron reinforcements may only be drilled through with permission from a structural engineer.



Hammer drill bit Max Quadro-L Vario

The perfect solution for reinforcements and hard materials, featuring a symmetrical head with four cutting edges and a Vario conveyor with core reinforcement.

- The symmetrical 4 x 90° cutting edge geometry prevents the drill bit from hooking in or running off centre when striking e.g. reinforcements
- The advanced tip geometry and asymmetrically placed elevations on the cutting edges ensure improved traction
- Perfect bore properties over the entire service life thanks to head geometry that is tailored to the drill bit diameter
- Vario spiral conveyor with back that narrows at the front and widens at the rear, as well as sharper angle at the spiral end ensures reduced friction, high stability and maximum transmission of impact energy
- Drill bit with four cutting edges and diameter-optimised geometry to ensure that the bit is guided perfectly into the drilled hole
- The special self-centring tip enables high-precision spot drilling

Drilling speed (point system)	●●○○
Smoothness of running (points system)	●●●●
Accuracy (point system)	●●●●
Number of cutting edges	4 PCS
Reinforcement strength (points system)	●●●●
Service life (points system)	●●●●
Tool holding device	Suitable for SDS-max



Diameter (Ø)	Length	Working length	Number of spirals	Art. no.	P. Qty.
12 mm	340 mm	200 mm	4 PCS	0647 051 234	1
12 mm	540 mm	400 mm	4 PCS	0647 051 254	1
12 mm	740 mm	550 mm	4 PCS	0647 051 274	1
14 mm	340 mm	200 mm	4 PCS	0647 051 434	1
14 mm	540 mm	400 mm	4 PCS	0647 051 454	1
15 mm	340 mm	200 mm	4 PCS	0647 051 534	1
15 mm	540 mm	400 mm	4 PCS	0647 051 554	1
16 mm	340 mm	200 mm	4 PCS	0647 051 634	1
16 mm	540 mm	400 mm	4 PCS	0647 051 654	1
16 mm	740 mm	600 mm	2 PCS	0647 051 674	1
16 mm	940 mm	800 mm	2 PCS	0647 051 694	1
16 mm	1320 mm	1200 mm	2 PCS	0647 051 613	1
18 mm	340 mm	200 mm	4 PCS	0647 051 834	1
18 mm	540 mm	400 mm	4 PCS	0647 051 854	1
18 mm	740 mm	600 mm	2 PCS	0647 051 874	1
18 mm	940 mm	800 mm	2 PCS	0647 051 894	1
18 mm	1320 mm	1200 mm	2 PCS	0647 051 813	1
18 mm	1520 mm	1400 mm	2 PCS	0647 051 815	1
20 mm	320 mm	200 mm	4 PCS	0647 052 032	1
20 mm	520 mm	400 mm	4 PCS	0647 052 052	1
20 mm	720 mm	600 mm	2 PCS	0647 052 072	1
20 mm	920 mm	800 mm	2 PCS	0647 052 092	1
20 mm	1320 mm	1200 mm	2 PCS	0647 052 013	1
20 mm	1720 mm	1600 mm	2 PCS	0647 052 017	1
20 mm	2120 mm	2000 mm	2 PCS	0647 052 021	1
22 mm	320 mm	200 mm	4 PCS	0647 052 232	1
22 mm	520 mm	400 mm	4 PCS	0647 052 252	1
22 mm	720 mm	600 mm	2 PCS	0647 052 272	1
22 mm	920 mm	800 mm	2 PCS	0647 052 292	1
22 mm	1320 mm	1200 mm	2 PCS	0647 052 213	1
24 mm	320 mm	200 mm	4 PCS	0647 052 432	1
24 mm	520 mm	400 mm	4 PCS	0647 052 452	1
25 mm	320 mm	200 mm	4 PCS	0647 052 532	1
25 mm	520 mm	400 mm	4 PCS	0647 052 552	1
25 mm	720 mm	600 mm	2 PCS	0647 052 572	1
25 mm	920 mm	800 mm	2 PCS	0647 052 592	1
25 mm	1320 mm	1200 mm	2 PCS	0647 052 513	1
25 mm	2120 mm	2000 mm	2 PCS	0647 052 521	1
26 mm	520 mm	400 mm	2 PCS	0647 052 652	1
28 mm	370 mm	250 mm	2 PCS	0647 052 837	1
28 mm	570 mm	450 mm	2 PCS	0647 052 857	1
28 mm	670 mm	550 mm	2 PCS	0647 052 867	1
28 mm	920 mm	800 mm	2 PCS	0647 052 892	1
28 mm	1320 mm	1200 mm	2 PCS	0647 052 813	1
30 mm	370 mm	250 mm	2 PCS	0647 053 037	1
30 mm	570 mm	450 mm	2 PCS	0647 053 057	1
32 mm	370 mm	250 mm	2 PCS	0647 053 237	1
32 mm	570 mm	450 mm	2 PCS	0647 053 257	1
32 mm	920 mm	800 mm	2 PCS	0647 053 292	1
32 mm	1320 mm	1200 mm	2 PCS	0647 053 213	1
35 mm	370 mm	250 mm	2 PCS	0647 053 537	1
35 mm	570 mm	450 mm	2 PCS	0647 053 557	1
35 mm	670 mm	550 mm	2 PCS	0647 053 567	1
35 mm	920 mm	800 mm	2 PCS	0647 053 592	1
35 mm	1320 mm	1200 mm	2 PCS	0647 053 513	1

Continuation **Hammer drill bit Max Quadro-L Vario**

Diameter (Ø)	Length	Working length	Number of spirals	Art. no.	P. Qty.
38 mm	370 mm	250 mm	2 PCS	0647 053 837	1
38 mm	570 mm	450 mm	2 PCS	0647 053 857	1
40 mm	370 mm	250 mm	2 PCS	0647 054 037	1
40 mm	570 mm	450 mm	2 PCS	0647 054 057	1
40 mm	920 mm	800 mm	2 PCS	0647 054 092	1
40 mm	1320 mm	1200 mm	2 PCS	0647 054 013	1
45 mm	570 mm	450 mm	2 PCS	0647 054 557	1
52 mm	570 mm	450 mm	2 PCS	0647 055 257	1

Hammer drill bit Max Quadro-S

Strong hammer drill bit with X-shaped head geometry and four-spiral feed helix for fast drilling speed with significantly smoother running and greater precision in comparison with conventional drill bits featuring a head with two cutting edges.



- **No hooking in thanks to 4x cutting edge geometry**
- **Precise drilling**
- **Greater precision**

Drilling speed (point system)	●●●○
Smoothness of running (points system)	●●●○
Accuracy (point system)	●●○○
Reinforcement strength (points system)	●●○○
Service life (points system)	●●○○
Number of spirals	4 PCS
Tool holding device	Suitable for SDS-max

Number of cutting edges	Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
2 PCS	12 mm	340 mm	200 mm	0647 701 234	1
2 PCS	12 mm	540 mm	400 mm	0647 701 254	1
2 PCS	12 mm	690 mm	550 mm	0647 701 269	1
2 PCS	14 mm	340 mm	200 mm	0647 701 434	1
2 PCS	14 mm	540 mm	400 mm	0647 701 454	1
2 PCS	15 mm	340 mm	200 mm	0647 701 534	1
2 PCS	15 mm	540 mm	400 mm	0647 701 554	1
4 PCS	16 mm	340 mm	200 mm	0647 701 634	1
4 PCS	16 mm	540 mm	400 mm	0647 701 654	1
4 PCS	16 mm	940 mm	800 mm	0647 701 694	1
4 PCS	18 mm	340 mm	200 mm	0647 701 834	1
4 PCS	18 mm	540 mm	400 mm	0647 701 854	1
4 PCS	18 mm	940 mm	800 mm	0647 701 894	1
4 PCS	20 mm	320 mm	200 mm	0647 702 032	1
4 PCS	20 mm	520 mm	400 mm	0647 702 052	1
4 PCS	20 mm	920 mm	800 mm	0647 702 092	1
4 PCS	22 mm	320 mm	200 mm	0647 702 232	1
4 PCS	22 mm	520 mm	400 mm	0647 702 252	1
4 PCS	22 mm	920 mm	800 mm	0647 702 292	1

Number of cutting edges	Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
4 PCS	24 mm	320 mm	200 mm	0647 702 432	1
4 PCS	24 mm	520 mm	400 mm	0647 702 452	1
4 PCS	25 mm	320 mm	200 mm	0647 702 532	1
4 PCS	25 mm	520 mm	400 mm	0647 702 552	1
4 PCS	25 mm	920 mm	800 mm	0647 702 592	1
4 PCS	28 mm	370 mm	250 mm	0647 702 837	1
4 PCS	28 mm	570 mm	450 mm	0647 702 857	1
4 PCS	28 mm	670 mm	550 mm	0647 702 867	1
4 PCS	30 mm	370 mm	250 mm	0647 703 037	1
4 PCS	30 mm	570 mm	450 mm	0647 703 057	1
4 PCS	32 mm	370 mm	250 mm	0647 703 237	1
4 PCS	32 mm	570 mm	450 mm	0647 703 257	1
4 PCS	32 mm	920 mm	800 mm	0647 703 292	1
4 PCS	35 mm	370 mm	250 mm	0647 703 537	1
4 PCS	35 mm	570 mm	450 mm	0647 703 557	1
4 PCS	35 mm	670 mm	550 mm	0647 703 567	1
4 PCS	38 mm	370 mm	250 mm	0647 703 837	1
4 PCS	38 mm	570 mm	450 mm	0647 703 857	1
4 PCS	40 mm	370 mm	250 mm	0647 704 037	1
4 PCS	40 mm	570 mm	450 mm	0647 704 057	1
4 PCS	40 mm	920 mm	800 mm	0647 704 092	1
4 PCS	45 mm	570 mm	450 mm	0647 704 557	1
4 PCS	52 mm	570 mm	450 mm	0647 705 257	1

Please consider the legal instruction at the beginning of this chapter.

Please note: With long drill bit lengths, pre-drill with a short drill bit of the same diameter!

Hammer drill bit Plus Quadro-S

Strong hammer drill bit with X-shaped head geometry and four-spiral feed helix for fast drilling speed with significantly smoother running and greater precision in comparison with conventional drill bits featuring a head with two cutting edges.



- No hooking in thanks to 4x cutting edge geometry
- Precise drilling
- Greater precision

Drilling speed (point system)	●●●○
Smoothness of running (points system)	●●●○
Accuracy (point system)	●●○●
Reinforcement strength (points system)	●●○●
Service life (points system)	●●○●
Number of cutting edges	4 PCS
Tool holding device	Suitable for SDS-plus

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
16 mm	250 mm	200 mm	0648 701 625	1
16 mm	450 mm	400 mm	0648 701 645	1
18 mm	250 mm	200 mm	0648 701 825	1
18 mm	450 mm	400 mm	0648 701 845	1

Continuation **Hammer drill bit Plus Quadro-S**

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
20 mm	250 mm	200 mm	0648 702 025	1
20 mm	450 mm	400 mm	0648 702 045	1
22 mm	250 mm	200 mm	0648 702 225	1
22 mm	450 mm	400 mm	0648 702 245	1
24 mm	250 mm	200 mm	0648 702 425	1
24 mm	450 mm	400 mm	0648 702 445	1
25 mm	250 mm	200 mm	0648 702 525	1
25 mm	450 mm	400 mm	0648 702 545	1
26 mm	450 mm	400 mm	0648 702 645	1
28 mm	250 mm	200 mm	0648 702 825	1
28 mm	450 mm	400 mm	0648 702 845	1
30 mm	250 mm	200 mm	0648 703 025	1
30 mm	450 mm	400 mm	0648 703 045	1

Please consider the legal instruction at the beginning of this chapter.

Please note: With long drill bit lengths, pre-drill with a short drill bit of the same diameter!

Hammer drill bit Plus Duo-S Vario

Solid hammer drill bit with aggressive 2-cutter head, centring point and Vario spiral conveyor with core reinforcement for a significantly improved drilling speed. Specially optimised for cordless hammer drills.



- Noticeably quicker drilling
- Optimum drilling performance with reinforced chamfers
- Precise spot drilling
- Vario spiral conveyor with core reinforcement and back that narrows at the front and widens at the rear, as well as sharper angle at the spiral end ensures reduced friction, high stability and maximum transmission of impact energy

Drilling speed (point system)	●●●●
Smoothness of running (points system)	●●○○
Accuracy (point system)	●●○○
Reinforcement strength (points system)	●○○○
Service life (points system)	●●○○
Number of cutting edges	2 PCS
Tool holding device	Suitable for SDS-plus

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
3.5 mm	110 mm	50 mm	0648 553 511	2
4 mm	110 mm	50 mm	0648 554 011	2/10
4 mm	160 mm	100 mm	0648 554 016	2
4.8 mm	110 mm	50 mm	0648 554 811	2
4.8 mm	140 mm	80 mm	0648 554 814	2
4.8 mm	160 mm	100 mm	0648 554 816	2
4.8 mm	210 mm	150 mm	0648 554 821	2
4.8 mm	260 mm	200 mm	0648 554 826	2
5 mm	110 mm	50 mm	0648 555 011	2/10
5 mm	160 mm	100 mm	0648 555 016	2/10

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
5 mm	210 mm	150 mm	0648 555 021	2
5 mm	310 mm	250 mm	0648 555 031	1
5.5 mm	110 mm	50 mm	0648 555 511	2
5.5 mm	160 mm	100 mm	0648 555 516	2
5.5 mm	210 mm	150 mm	0648 555 521	2
5.5 mm	260 mm	200 mm	0648 555 526	2
5.5 mm	310 mm	250 mm	0648 555 531	1
6 mm	110 mm	50 mm	0648 556 011	2/10/50
6 mm	160 mm	100 mm	0648 556 016	2/10/50
6 mm	210 mm	150 mm	0648 556 021	2/10
6 mm	260 mm	200 mm	0648 556 026	2/10
6 mm	310 mm	250 mm	0648 556 031	1
6 mm	460 mm	400 mm	0648 556 046	1
6.3 mm	260 mm	200 mm	0648 556 326	1
6.3 mm	285 mm	225 mm	0648 556 328	1
6.3 mm	360 mm	300 mm	0648 556 336	1
6.3 mm	410 mm	350 mm	0648 556 341	1
6.5 mm	110 mm	50 mm	0648 556 511	2
6.5 mm	160 mm	100 mm	0648 556 516	2
6.5 mm	210 mm	150 mm	0648 556 521	2
6.5 mm	260 mm	200 mm	0648 556 526	2/10
6.5 mm	310 mm	250 mm	0648 556 531	2/10
6.5 mm	450 mm	390 mm	0648 556 545	1
7 mm	160 mm	100 mm	0648 557 016	2
7 mm	250 mm	190 mm	0648 557 025	2
7 mm	450 mm	390 mm	0648 557 045	1
8 mm	110 mm	50 mm	0648 558 011	2/10
8 mm	160 mm	100 mm	0648 558 016	2/10/50
8 mm	210 mm	150 mm	0648 558 021	2/10
8 mm	260 mm	200 mm	0648 558 026	2/10
8 mm	310 mm	250 mm	0648 558 031	2
8 mm	400 mm	340 mm	0648 558 040	1
8 mm	460 mm	400 mm	0648 558 046	1
8 mm	600 mm	540 mm	0648 558 060	1
9 mm	160 mm	100 mm	0648 559 016	2
9.5 mm	360 mm	300 mm	0648 559 536	1
10 mm	110 mm	50 mm	0648 551 011	2/10
10 mm	160 mm	100 mm	0648 551 016	2/10/50
10 mm	210 mm	150 mm	0648 551 021	2/10
10 mm	260 mm	200 mm	0648 551 026	2/10
10 mm	310 mm	250 mm	0648 551 031	2/10
10 mm	350 mm	290 mm	0648 551 035	1
10 mm	450 mm	390 mm	0648 551 045	1
10 mm	600 mm	540 mm	0648 551 060	1
10 mm	800 mm	740 mm	0648 551 080	1
10 mm	1000 mm	940 mm	0648 551 010	1
11 mm	210 mm	160 mm	0648 551 121	2
12 mm	160 mm	110 mm	0648 551 216	2/10
12 mm	210 mm	160 mm	0648 551 221	2/10
12 mm	260 mm	210 mm	0648 551 226	2/10
12 mm	310 mm	260 mm	0648 551 231	1
12 mm	360 mm	310 mm	0648 551 236	1
12 mm	450 mm	400 mm	0648 551 245	1
12 mm	600 mm	550 mm	0648 551 260	1
12 mm	1000 mm	950 mm	0648 551 210	1

Continuation **Hammer drill bit Plus Duo-S Vario**

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
13 mm	260 mm	210 mm	0648 551 326	1
14 mm	160 mm	110 mm	0648 551 416	2/10
14 mm	210 mm	160 mm	0648 551 421	2/10
14 mm	260 mm	210 mm	0648 551 426	1
14 mm	310 mm	260 mm	0648 551 431	1
14 mm	450 mm	400 mm	0648 551 445	1
14 mm	600 mm	550 mm	0648 551 460	1
14 mm	1000 mm	950 mm	0648 551 410	1
15 mm	160 mm	110 mm	0648 551 516	1
15 mm	210 mm	160 mm	0648 551 521	1
15 mm	260 mm	210 mm	0648 551 526	1
15 mm	450 mm	400 mm	0648 551 545	1
16 mm	160 mm	110 mm	0648 551 616	1
16 mm	210 mm	160 mm	0648 551 621	1
16 mm	260 mm	210 mm	0648 551 626	1
16 mm	310 mm	260 mm	0648 551 631	1
16 mm	450 mm	400 mm	0648 551 645	1
16 mm	600 mm	550 mm	0648 551 660	1
16 mm	800 mm	750 mm	0648 551 680	1
16 mm	1000 mm	950 mm	0648 551 610	1
17 mm	210 mm	160 mm	0648 551 721	1
18 mm	200 mm	150 mm	0648 551 820	1
18 mm	250 mm	200 mm	0648 551 825	1
18 mm	450 mm	400 mm	0648 551 845	1
20 mm	200 mm	150 mm	0648 552 020	1
20 mm	300 mm	250 mm	0648 552 030	1
20 mm	450 mm	400 mm	0648 552 045	1
20 mm	600 mm	550 mm	0648 552 060	1
22 mm	250 mm	200 mm	0648 552 225	1
22 mm	450 mm	400 mm	0648 552 245	1
22 mm	600 mm	550 mm	0648 552 260	1
24 mm	250 mm	200 mm	0648 552 425	1
24 mm	450 mm	400 mm	0648 552 445	1
25 mm	250 mm	200 mm	0648 552 525	1
25 mm	450 mm	400 mm	0648 552 545	1
26 mm	450 mm	400 mm	0648 552 645	1

Iron reinforcements may only be drilled through with permission from a structural engineer. Ø 4.8 and 6.3: Special drill bit for SFS spike mounting system. With long drill bit lengths, pre-drill using a short drill bit of the same diameter.

Hammer drill bit cassette with SDS-plus drive arbor, Duo-S Vario

7 pieces. Solid hammer drill bit with aggressive 2-cutter head, lathe centre and Vario spiral conveyor with core reinforcement for a significantly improved drilling speed. Specially optimised for cordless hammer drills.

- Optimised tip geometry and asymmetrically arranged embossing on the cutting edges for improved propulsion
- Reinforced carbide reinforcement element with significantly enlarged chamfers noticeably reduces the likelihood of jamming and increases resistance
- Precise spot-drilling through special self-centring tip
- Vario conveyor spiral with reinforced core and back which is narrow at the front, becoming wider at the rear. Spiral angle steeper at the end of the spiral



Number of pieces in assortment/set	7 PCS
Tool holding device	Suitable for SDS-plus

Art. no. 0648 550 001

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Contents for art. no. 0648 550 001		
Designation	Art. no.	Quantity
Hammer drill bit Plus Duo-S Vario 5 mm; 110 mm	0648 555 011	1
Hammer drill bit Plus Duo-S Vario 6 mm; 110 mm	0648 556 011	1
Hammer drill bit Plus Duo-S Vario 6 mm; 160 mm	0648 556 016	1
Hammer drill bit Plus Duo-S Vario 8 mm; 110 mm	0648 558 011	1
Hammer drill bit Plus Duo-S Vario 8 mm; 160 mm	0648 558 016	1
Hammer drill bit Plus Duo-S Vario 10 mm; 160 mm	0648 551 016	1
Hammer drill bit Plus Duo-S Vario 12 mm; 160 mm	0648 551 216	1

Hammer drill bit multi-pack with SDS-plus drive arbor, Duo-S Vario

12 pieces, 3 x Ø 6 x 160/100, 4 x Ø 8 x 160/100, 3 x Ø 10 x 160/100, 2 x Ø 12 x 160/100. Solid hammer drill bit with aggressive 2-cutter head, centring point and Vario spiral conveyor with core reinforcement for a significantly improved drilling speed. Specially optimised for cordless hammer drills.

- Noticeably quicker drilling
- Optimum drilling performance with reinforced chamfers
- Highly accurate tapping
- Vario spiral conveyor with core reinforcement and back that narrows at the front and widens at the rear, as well as sharper angle at the spiral end.



Number of pieces in assortment/set	12 PCS
Tool holding device	Suitable for SDS-plus

Continuation **Hammer drill bit multi-pack with SDS-plus drive arbor, Duo-S Vario**

Art. no. 0648 550 002

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Contents for art. no. 0648 550 002		
Designation	Art. no.	Quantity
Hammer drill bit Plus Duo-S Vario 6 mm; 160 mm	0648 556 016	3
Hammer drill bit Plus Duo-S Vario 8 mm; 160 mm	0648 558 016	4
Hammer drill bit Plus Duo-S Vario 10 mm; 160 mm	0648 551 016	3
Hammer drill bit Plus Duo-S Vario 12 mm; 160 mm	0648 551 216	2

Hole puncher

With 3 cutting tips for punching out holes

3 cutting tips

- Less deformation of the material being punched
- No sticking at the draw bolt
- No damage to the screw thread
- Improved support

4 notches on the die

Precise alignment with the cross line

Can be used in steel (St37), aluminium, copper and plastics up to a material thickness of max. 2.0 mm



Diameter	Art. no.	P. Qty.
28.3 mm	0619 005 283	1
31.7 mm	0619 005 317	1
35 mm	0619 005 350	1

Sheet metal puncher with metric splitting punch

Metric ISO sizes in accordance with EN 50262

Individual (without draw bolt)

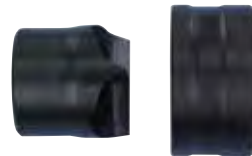
Long service life

Specially developed cutting geometry

3x splitting of the material in the die — no punching waste sticks to the draw bolt, guaranteed even tool wear and precise, burr-free, circular holes

Precise alignment with the cross line

4 notches on the die



Thread type x nominal diameter	Suitable for pipe (PG)	Internal diameter	Screw diameter x screw length	Drill diameter	Art. no.	P. Qty.
M12		12.5 mm	6 x 40 mm	6.2 mm	0619 702 125	1
M16		16.2 mm	9.5 x 50 mm	10 mm	0619 702 162	1
M20	PG 13,5	20.4 mm	9.5 x 50 mm	10 mm	0619 702 204	1

Thread type x nominal diameter	Suitable for pipe (PG)	Internal diameter	Screw diameter x screw length	Drill diameter	Art. no.	P. Qty.
M25		25.4 mm	25.4 x 50 mm	10 mm	0619 702 254	1
M32		32.5 mm	32.5 x 75 mm	19.5 mm	0619 702 325	1
M40		40.5 mm	40.5 x 75 mm	19.5 mm	0619 702 405	1
M50		50.5 mm	50.5 x 75 mm	19.5 mm	0619 702 505	1
M63		63.5 mm	63.5 x 75 mm	19.5 mm	0619 702 635	1

For draw bolt Ø19.0 mm, pre-cutting is also possible with sheet metal puncher size M20 (PG 13.5) as an alternative.

For pre-drilling: HSS twist drill, art. no. 0624...

For greasing the draw bolt: AL 1100 art. no. 0893 110 1

Sheet metal puncher with metric splitting punch

Metric ISO sizes in accordance with EN 50262

With ball bearing draw bolt

Plastic-encapsulated ball bearing draw bolt provides protection against dirt and ensures a longer service life.



Long service life

Newly developed cutting geometry

3x splitting of the material in the die — no punching waste sticks to the draw bolt; guaranteed even tool wear and precise, burr-free, circular holes.

Precise alignment at the cross line

Four notches on the die

Thread type x nominal diameter	Internal diameter	Screw diameter x screw length	Drill diameter	Art. no.	P. Qty.
	30.5 mm	9.5 x 50 mm	10 mm	0619 701 305	1
M12	12.5 mm	6 x 40 mm	6.2 mm	0619 701 125	1
M16	16.2 mm	9.5 x 50 mm	10 mm	0619 701 162	1
M20	20.4 mm	9.5 x 50 mm	10 mm	0619 701 204	1
M25	25.4 mm	9.5 x 50 mm	10 mm	0619 701 254	1
M32	32.5 mm	19 x 75 mm	19.5 mm	0619 701 325	1
M40	40.5 mm	19 x 75 mm	19.5 mm	0619 701 405	1
M50	50.5 mm	19 x 75 mm	19.5 mm	0619 701 505	1
M63	63.5 mm	19 x 75 mm	19.5 mm	0619 701 635	1

Diameter for control elements (buttons, switches, indicator lights): 30.5 mm

For draw bolt Ø 19.0 mm, pre-punching is also possible with sheet metal puncher size M20 (PG 13.5) as an alternative.

For pre-drilling: HSS twist drill, art. no. 0624...

For greasing the draw bolt: AL 1100 art. no. 0893 110 1

PG sheet metal puncher with splitting punch

Individual, without draw bolt

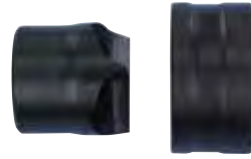
Long service life

Specially developed cutting geometry

3x splitting of the material in the die — no punching waste sticks to the draw bolt, guaranteed even tool wear and precise, burr-free, circular holes

Precise alignment with the cross line

4 notches on the die



Suitable for pipe (PG)	Internal diameter	Screw diameter x screw length	Drill diameter	Art. no.	P. Qty.
PG 9	15.2 mm	9.5 x 50 mm	10 mm	0619 152	1
PG 11	18.6 mm	9.5 x 50 mm	10 mm	0619 186	1
PG 16	22.5 mm	9.5 x 50 mm	10 mm	0619 225	1
PG 21	28.3 mm	9.5 x 50 mm	10 mm	0619 283	1
PG 29	37 mm	19 x 75 mm	19.5 mm	0619 370	1
PG 36	47 mm	19 x 75 mm	19.5 mm	0619 470	1
PG 48	60 mm	19 x 75 mm	19.5 mm	0619 600	1

For draw bolt Ø19.0 mm, pre-cutting is also possible with sheet metal puncher size M20 (PG 13.5) as an alternative.

For pre-drilling: HSS twist drill, art. no. 0624...

For greasing the draw bolt: AL 1100 art. no. 0893 110 1

Sheet metal puncher assortment

8 pieces

- Contents:
- Stamp and dies M16, M20, M25, M32, M40 and 30.5
- KL draw bolt Ø 9.5 and 19.0
- Splitting punch
- Durable
- Long service life
- Precise, burr-free, circular holes
- Precise alignment with the cross line



Art. no. 0619 701 001

P. Qty.: 1

For draw bolt Ø19.0 mm, pre-cutting is also possible with sheet metal puncher size M20 (PG 13.5) as an alternative.

Hole puncher assortment

12 pieces. With manual/hydraulic punch.

- Splitting punch
- Long life
- Long service life
- Precise, burr-free and circular holes
- Precise alignment on cross-hairs
- Compact manual-hydraulic punch pressure relief valve

Contents:

- Manual hydraulic punch
- Stamp and dies M16, M20, M25, M32, M40 and 30.5
- Tension bolt Ø 9.5 and 19.0
- Distance bushing set

Art. no. 0619 701 002

P. Qty.: 1

For draw bolt Ø19.0 mm, pre-cutting is also possible with sheet metal puncher size M20 (PG 13.5) as an alternative.



Sheet metal puncher assortment Plumbing

Sheet metal punchers Ø28.3, 31.7 and 35.0 mm with three cutting tips for punching out the holes for stainless steel sink units.

- Three cutting tips
- 4 notches on the die – precise alignment with the cross line
- Can be used for materials up to 2.0 mm thick
- Contents:
 - 1 x punch Ø 28.3 mm, die and draw bolt
 - 1 x punch Ø 31.7 mm, die and draw bolt
 - 1 x punch Ø 35.0 mm, die and draw bolt
 - 1 x 17-mm combination spanner
 - 3 x draw bolts 12.9, M 10 x1 x 50

Art. no. 0619 005

P. Qty.: 1



Contents for art. no. 0619 005		
Designation	Art. no.	Quantity
Draw bolt for sheet metal puncher	0619 005 101	3
Hole puncher 28.3 mm	0619 005 283	1
Hole puncher 31.7 mm	0619 005 317	1
Hole puncher 35.0 mm	0619 005 350	1
Combination wrench, short type 17 mm; Length 205 mm	0713 301 17	1

Sheet metal conical drill bit HSS

With two cutting edges

- CBN (cubical boron nitride), deep ground
- Stepless drilling and widening of holes within the diameter range of 3–61 mm
- No countersinking or pre-drilling required
- Burr-free drilling without causing the sheet metal to deform. Excellent heat conductivity for longer service life thanks to axial and radial CBN relief grinding
- Mounting shank with three-phase grinding
- With laser scale for easy identification of the required drilling hole diameter



Cutting material	HSS
Shank style	3-face shank

Size	Min./max. drill diameter	Length	Shaft diameter	Art. no.	P. Qty.
1	3-14 mm	58 mm	6 mm	0694 024 14	1
2	5-20 mm	71 mm	8 mm	0694 024 20	1
3	16-30.5 mm	76 mm	9 mm	0694 024 30	1
4	24-40 mm	89 mm	10 mm	0694 024 40	1
5	36-50 mm	97 mm	12 mm	0694 024 50	1
6	40-61 mm	103 mm	13 mm	0694 024 61	1
8	5-31 mm	103 mm	9 mm	0694 024 31	1

- Speed table included
- Increase service life and cutting power using drilling and cutting oil or cutting paste

Sheet metal conical drill bit HSS, titanium nitride

Titanium nitride for powerful performance Burr-free drilling without causing the sheet metal to deform. Excellent heat conductivity for longer service life thanks to axial and radial CBN relief grinding.



- Titanium nitride for powerful performance
- Universal application
- User-friendly
- With two cutting edges and drive arbor with three-phase grinding

Cutting material	HSS
Shank style	3-face shank

Size	Min./max. drill diameter	Length	Shaft diameter	Art. no.	P. Qty.
1	3-14 mm	58 mm	6 mm	0694 025 14	1
2	5-20 mm	71 mm	8 mm	0694 025 20	1
3	16-30.5 mm	76 mm	9 mm	0694 025 30	1
4	24-40 mm	89 mm	10 mm	0694 025 40	1
5	36-50 mm	97 mm	12 mm	0694 025 50	1
6	40-61 mm	103 mm	13 mm	0694 025 61	1
8	4-31 mm	103 mm	9 mm	0694 025 31	1

HSS sheet metal conical drill bit box

3 pcs: One each of 3–14 mm; 5–20 mm; 16–30.5 mm

- CBN (cubical boron nitride), deep ground
- Stepless drilling and widening of holes within a diameter range of 3–30.5 mm
- Two cutting edges
- No countersinking or pre-drilling required
- Burr-free drilling without causing the sheet metal to deform. Excellent heat conductivity for longer service life thanks to axial and radial CBN relief grinding
- Drive arbor with three-phase grinding
- Laser scale for easy identification of the required drilling hole diameter



Art. no. 0694 024 01

P. Qty.: 1

- Speed table included
- Increase service life and cutting performance using drilling and cutting oil or cutting paste

Sheet metal conical drill bit box, titanium nitride HSS

3 pieces: 1 each of Ø 3-14 mm; Ø 5-20 mm; Ø 16-30.5 mm

- Cutting speed and feed rate increase by up to 100%
- Service life is doubled or even quadrupled
- CBN (cubical boron nitride), deep ground
- Stepless drilling and widening of holes within the diameter range of 3-61 mm
- With two cutting edges
- No countersinking or pre-drilling required
- Burr-free drilling without causing the sheet metal to deform and excellent heat conductivity for longer service life thanks to axial and radial CBN relief grinding
- Mounting shank with three-phase grinding
- With laser scale for easy identification of the required drill hole diameter



Art. no. 0694 025 01

P. Qty.: 1

- Speed table included
- Increase service life and cutting performance using drilling and cutting oil or cutting paste

Double-ended drill bit HSS WN type RN

Assembly drill bit for working in thin-sheet steel, tip angle 118°

Highly precise drilling

The robust twist drill with its extra short design ensures highly precise drilling.

Self-centring

The split point ensures an excellent centring effect even on round materials, eliminating the need for centre-punching or piloting.



Material to be processed	Steel
Cutting material	HSS
Type	RN
Angle of the tip	118 Degree
Service life (points system)	●●○○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●○○
Versatility (points system)	●○○○
Drilling behaviour (point system)	●●○○
Self-centring	Yes

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
2 mm	38 mm	9 mm	0636 20	10
2.5 mm	43 mm	10 mm	0636 25	10
3 mm	46 mm	11 mm	0636 30	10
3.1 mm	49 mm	12 mm	0636 31	10
3.2 mm	49 mm	12 mm	0636 32	10
3.3 mm	49 mm	12 mm	0636 33	10
3.4 mm	52 mm	14 mm	0636 34	10
3.5 mm	52 mm	14 mm	0636 35	10
4 mm	55 mm	14 mm	0636 40	10
4.1 mm	55 mm	14 mm	0636 41	10
4.2 mm	55 mm	14 mm	0636 42	10
4.5 mm	58 mm	16 mm	0636 45	10
5 mm	62 mm	17.5 mm	0636 50	10
5.1 mm	62 mm	17.5 mm	0636 51	10
5.2 mm	62 mm	17.5 mm	0636 52	10
5.5 mm	66 mm	19 mm	0636 55	10
6 mm	66 mm	19 mm	0636 60	10
6.2 mm	70 mm	21 mm	0636 62	10
6.5 mm	70 mm	21 mm	0636 65	10

Facade construction drill bit WN type RN

Assembly drill bit for deep drilling, tip angle 118°

- The sturdy twist drill bit with its short design ensures precise drilling



Chip flute length (l2)	30 mm
Type description	RN
Other standard	Company standard

Diameter (d)	Length (l1)	Art. no.	P. Qty.
4.5 mm	150 mm	0627 45 150	10
5 mm	98 mm	0627 50 98	10
5 mm	127 mm	0627 50 127	10
5 mm	150 mm	0627 50 150	10
5 mm	200 mm	0627 50 200	5
5 mm	300 mm	0627 50 300	5
5.3 mm	98 mm	0627 53 98	10
5.3 mm	127 mm	0627 53 127	10
5.3 mm	150 mm	0627 53 150	10
5.3 mm	180 mm	0627 53 180	10
5.3 mm	200 mm	0627 53 200	5
5.3 mm	300 mm	0627 53 300	5
5.5 mm	98 mm	0627 55 98	10
5.5 mm	127 mm	0627 55 127	10
5.5 mm	150 mm	0627 55 150	10
5.5 mm	180 mm	0627 55 180	10
5.5 mm	200 mm	0627 55 200	10
5.5 mm	300 mm	0627 55 300	5
5.7 mm	98 mm	0627 57 98	10
5.7 mm	127 mm	0627 57 127	10
5.7 mm	150 mm	0627 57 152	10
5.7 mm	180 mm	0627 57 180	10
5.7 mm	200 mm	0627 57 200	10
5.7 mm	300 mm	0627 57 300	5
5.8 mm	98 mm	0627 58 98	10
5.8 mm	127 mm	0627 58 127	10
5.8 mm	150 mm	0627 58 150	10
5.8 mm	180 mm	0627 58 180	10
5.8 mm	200 mm	0627 58 200	10
5.8 mm	300 mm	0627 58 300	5
5.9 mm	150 mm	0627 59 150	10
5.9 mm	180 mm	0627 59 180	10
5.9 mm	200 mm	0627 59 200	10
6.8 mm	150 mm	0627 68 150	5
6.8 mm	200 mm	0627 68 200	5
6.8 mm	225 mm	0627 68 225	5
6.8 mm	300 mm	0627 68 300	5
7 mm	150 mm	0627 70 150	5
7 mm	200 mm	0627 70 200	5
7 mm	225 mm	0627 70 225	5
7 mm	300 mm	0627 70 300	5
7.4 mm	225 mm	0627 74 225	5

For drill bit/material assignments, see overview tables.

Stoneware drill polygon shaft

The ideal solution, even for extremely hard porcelain stoneware tiles up to Mohs/scratch hardness 9, as well as glass and porcelain.

- Precise drilling
- No slippage in the drill chuck
- No cooling required (dry drilling)



Versatility (points system)	●○○○
Service life (points system)	●●●○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●●●
Shaft diameter	10 mm
Tool holding device	Polygon

Diameter (Ø)	Length	Art. no.	P. Qty.
5 mm	103 mm	0641 415 011	1/3
6 mm	105 mm	0641 416 011	1/3
8 mm	106 mm	0641 418 011	1/3
10 mm	107 mm	0641 411 011	1/3
12 mm	110 mm	0641 411 211	1
14 mm	114 mm	0641 411 411	1

- Max. Speed: Diameter 5 mm (800 rpm), diameter 6 and 8 mm (600 rpm), diameter 10 and 12 mm (400 rpm), diameter 14 mm (200 rpm)
- Not suitable for impact drilling. For rotary drilling only!
- Optimum contact pressure: 35–45 kg
- If the recommended drilling speed is observed and the optimum contact pressure applied, but you can no longer hear a scraping sound, the drill bit has reached the end of its service life.
- Avoid placing high contact pressure on the drill bit when it is not rotating → Risk of breakage!
- Contact pressure too low and/or drilling speed too high → Service life ends prematurely!
- Avoid tilting and swivelling movements during the drilling process → Risk of breakage!
- We recommend drilling test holes (ideally in waste material from the tiles to be drilled)
- If the 14-mm diameter drill bit is used, pre-drilling must be carried out with an additional drill bit (8 mm).

Stoneware drill bit multi-pack, polygon shaft

3 pieces The ideal solution, even for extremely hard porcelain stoneware tiles up to Mohs/scratch hardness 9, as well as glass and porcelain.

- Precise drilling
- No slippage in the drill chuck
- No cooling required (dry drilling)



Versatility (points system)	●○○○
Service life (points system)	●●●○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●●●
Number of pieces in assortment/set	3 PCS
Tool holding device	Polygon

Art. no. 0641 410 003

P. Qty.: 1

- Max. Speed: Diameter 5 mm (800 rpm), diameter 6 and 8 mm (600 rpm), diameter 10 and 12 mm (400 rpm), diameter 14 mm (200 rpm)
- Not suitable for impact drilling. For rotary drilling only!
- Optimum contact pressure: 35–45 kg
- If the recommended drilling speed is observed and the optimum contact pressure applied, but you can no longer hear a „scraping“ sound, the drill bit has reached the end of its service life.
- Avoid placing high contact pressure on the drill bit when it is not rotating → Risk of breakage!
- Contact pressure too low and/or drilling speed too high → Service life ends prematurely!
- Avoid tilting and swivelling movements during the drilling process → Risk of breakage!
- We recommend drilling test holes (ideally in waste material from the tiles to be drilled)
- If the 14-mm diameter drill bit is used, pre-drilling must be carried out with an additional drill bit (8 mm).

Stoneware drill bit multi-pack, polygon shaft

5 pieces The ideal solution, even for extremely hard porcelain stoneware tiles up to Mohs/scratch hardness 9, as well as glass and porcelain.

- Precise drilling
- No slippage in the drill chuck
- No cooling required (dry drilling)



Versatility (points system)	●○○○
Service life (points system)	●●●○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●●●
Number of pieces in assortment/set	5 PCS
Tool holding device	Polygon



Art. no. 0641 410 005

P. Qty.: 1

- Max. Speed: Diameter 5 mm (800 rpm), diameter 6 and 8 mm (600 rpm), diameter 10 and 12 mm (400 rpm), diameter 14 mm (200 rpm)
- Not suitable for impact drilling. For rotary drilling only!
- Optimum contact pressure: 35–45 kg
- If the recommended drilling speed is observed and the optimum contact pressure applied, but you can no longer hear a „scraping“ sound, the drill bit has reached the end of its service life.
- Avoid placing high contact pressure on the drill bit when it is not rotating → Risk of breakage!
- Contact pressure too low and/or drilling speed too high → Service life ends prematurely!
- Avoid tilting and swivelling movements during the drilling process → Risk of breakage!
- We recommend drilling test holes (ideally in waste material from the tiles to be drilled)
- If the 14-mm diameter drill bit is used, pre-drilling must be carried out with an additional drill bit (8 mm).



Forstner drill bit Longlife & speed

The high-performance Forstner drill bit with up to ten times higher working speed and up to three times longer service life than conventional Forstner drill bits.

- Ideal for drilling precise, tear-free holes in soft and hard woods, coated chipboard and MDF boards.



Length	90 mm
Shaft length	30 mm
Shank style	3-face shank

Diameter	Shaft diameter	Art. no.	P. Qty.
12 mm	6 mm	0650 990 120	1
14 mm	8 mm	0650 990 140	1
15 mm	8 mm	0650 990 150	1
16 mm	8 mm	0650 990 160	1
18 mm	8 mm	0650 990 180	1
19 mm	8 mm	0650 990 190	1
20 mm	8 mm	0650 990 200	1
22 mm	8 mm	0650 990 220	1
24 mm	8 mm	0650 990 240	1
25 mm	8 mm	0650 990 250	1
26 mm	8 mm	0650 990 260	1
28 mm	8 mm	0650 990 280	1
30 mm	8 mm	0650 990 300	1
32 mm	10 mm	0650 990 320	1
35 mm	10 mm	0650 990 350	1
38 mm	10 mm	0650 990 380	1
40 mm	10 mm	0650 990 400	1
45 mm	10 mm	0650 990 450	1
50 mm	10 mm	0650 990 500	1
60 mm	10 mm	0650 990 600	1
68 mm	10 mm	0650 990 680	1
70 mm	12 mm	0650 990 700	1

Forstner drill bit assortment Longlife & speed

16 pieces The high-performance Forstner drill bit with up to ten times higher working speed and up to three times longer service life than conventional Forstner drill bits.

- Ideal for drilling precise, tear-free holes in soft and hard woods, coated chipboard and MDF boards.



Number of pieces in assortment/set	16 PCS
Shank style	3-face shank

Art. no. 0650 990 002

P. Qty.: 1





Forstner bit assortment Longlife and speed

5 pieces. The high-performance Forstner bit with up to ten times higher working speed and up to three times longer service life than conventional Forstner drill bits.

- Ideal for drilling precise, tear-free holes in soft and hard woods, coated chipboard and MDF boards.

Number of pieces in assortment/set	5 PCS
Shank style	3-face shank



Art. no. 0650 990 001

P. Qty.: 1



Wood twist drill bit HSS

With 1/4" bit shank DIN 3126 shape C

- High-quality ground drill bit made from high-performance, high-speed steel (HSS) 100 Cr6. Meets the highest requirements in terms of precision and service life.
- Specially designed for use in hand drills in conjunction with a bit holder
- Extremely low manufacturing tolerances with precisely defined surface and profile quality.
- Accurate drilling
- Pre-cutter in drawn version (pre-cutter height 0.3 - 0.5 mm).
- Extremely sharply ground cutting edges
- Back bevel prevents any deviation in diameter (no off-centre drilling)



Cutting material	HSS
------------------	-----

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
3 mm	60 mm	23 mm	0650 000 300	10
3 mm	70 mm	35 mm	0650 010 300	10
4 mm	60 mm	28 mm	0650 000 400	10
4 mm	75 mm	42 mm	0650 010 400	10
5 mm	60 mm	31 mm	0650 000 500	10
5 mm	85 mm	56 mm	0650 010 500	10
6 mm	60 mm	31 mm	0650 000 600	10
6 mm	95 mm	66 mm	0650 010 600	10
7 mm	60 mm	31 mm	0650 000 700	10
7 mm	110 mm	81 mm	0650 010 700	10
8 mm	60 mm	31 mm	0650 000 800	10
8 mm	110 mm	81 mm	0650 010 800	10
10 mm	60 mm	31 mm	0650 001 000	1



Continuation **Wood twist drill bit HSS**

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
10 mm	110 mm	81 mm	0650 011 000	1
12 mm	60 mm	31 mm	0650 001 200	1
12 mm	110 mm	81 mm	0650 011 200	1

When using on abrasive materials, e.g. plastic-coated pallet materials, a shorter service life must be expected.

Spot weld drill bit DIN 1897 HSCo Longlife

The extremely durable spot weld drill bit with magma multi-layer coating for loosening spot welds with hand-held drills on high-strength bodywork panels up to 1200 N/mm² strength on all kinds of vehicles



- Special Magma multilayer coating for up to 9 times longer service life and up to 2 times longer service life compared to conventional coatings (heat resistant up to 800°)
- Extra stable tip geometry for difficult drilling conditions with all common hand drills
- Excellent centring of the drill bit on the spot weld and precise bores due to the 115° centring point

Quality	Würth-Standard
Cutting material	HSCo
Surface	Magma multilayer coating
Suitable for tensile strength up to	1200 N/mm ²
Shank style	Cylindrical
Type	DIN 1897 Longlife
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○
Drilling behaviour (point system)	●●●○

Diameter	Length	Chip flute length	Shaft diameter	Art. no.	P. Qty.
6 mm	66 mm	28 mm	6 mm	0710 740 060	1
8 mm	79 mm	37 mm	8 mm	0710 740 080	1
9 mm	84 mm	47 mm	9 mm	0710 740 090	1
10 mm	89 mm	43 mm	10 mm	0710 740 100	1

- Not for use in pneumatic machines (e.g. Vario drill, Spitznagel etc.)
- Do not use in drills with an impact chuck or spindles



Weld point drill bit HSCO

The economical standard spot weld drill for loosening spot welds with hand-held drills on conventional bodywork panels up to 850 N/mm² strength on all kinds of vehicles



- Extra stable tip geometry for difficult drilling conditions with all common hand drills
- Optimised tip geometry for longer service life compared to conventional spot weld drills
- Excellent centring of the drill bit on the spot weld and precise bores due to the 115° centring point

Quality	Würth-Standard
Cutting material	HSCo
Surface	Plain
Suitable for tensile strength up to	850 N/mm ²
Shank style	Cylindrical
Type	Standard DIN 1897
Service life (points system)	●●○○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●○○
Drilling behaviour (point system)	●●●○

Diameter	Length	Chip flute length	Shaft diameter	Art. no.	P. Qty.
6 mm	66 mm	28 mm	6 mm	0710 006	1
8 mm	79 mm	37 mm	8 mm	0710 008	1
9 mm	84 mm	37 mm	9 mm	0710 009	1
10 mm	89 mm	43 mm	10 mm	0710 010	1

- Not for use in pneumatic machines (e.g. Vario drill, Spitznagel etc.)
- Do not use in drills with an impact chuck or spindles

Stepped spot weld drill HSCO

The perfect solution with step on the drill tip for the safe loosening of spot welds with hand-held drills on conventional bodywork panels up to 850 N/mm² strength without running the risk of drilling through to the second panel. Suitable for all types of vehicles.



- The step on the drill tip acts as a drill stop and indicates to the user the precise drilling depth
- If the user notices that the step is only touching the metal on one side, then the drill is tilted
- Optimised tip geometry for longer service life compared to conventional spot weld drills

Quality	Würth-Standard
Cutting material	HSCo
Surface	Plain

Continuation **Stepped spot weld drill HSCO**

Suitable for tensile strength up to	850 N/mm ²
Diameter of stop	10 mm
Length	88 mm
Shaft diameter	10 mm
Shank style	Cylindrical
Type	Specialist with step on the drill tip
Service life (points system)	●●○○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●○○
Drilling behaviour (point system)	●●●○

Art. no. 0710 001 0

P. Qty.: 1

- Not for use in pneumatic machines (e.g. Vario drill, Spitznagel etc.)
- Do not use in drills with an impact chuck or spindles

Multi-spur machine bit Carbide

For machining wood (right-hand movement)

- With centring point
- 2 reaming blades
- 2 pre-cutters
- Short design



Length (L)	90 mm
Shaft length	30 mm
Shaft diameter	10 mm

Diameter	Art. no.	P. Qty.
15 mm	0650 115	1
17 mm	0650 117	1
18 mm	0650 118	1
20 mm	0650 120	1
22 mm	0650 122	1
23 mm	0650 123	1
24 mm	0650 124	1
25 mm	0650 125	1
26 mm	0650 126	1
30 mm	0650 130	1
32 mm	0650 132	1
35 mm	0650 135	1
40 mm	0650 140	1

Subland stepped drill bit, DIN 8374 RN fine, 90°

With straight shank for the production of through holes according to ISO 273, while simultaneously producing countersinks (90°) in form A. The cutting speed depends on the large diameter, the feed on the small one.



CNC|TEC

Product code	841
Material to be processed	Steel, Cast metal, Copper, Brass, Aluminium, Plastic
Standards	DIN 8374
Cutting material	HSS
Surface	Vaporised
Angle of the tip	118 Degree
Countersink angle	90 Degree
Shank style	Cylindrical
Number of teeth	2 PCS
Coolant supply	External
Tolerance of cutting edge diameter	h8
Tolerance of shank diameter	h8
Type description	Quality grade fine

Suitable for screw	Pilot hole diameter (d1)	Spot-facer diameter (d2)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
M3	3.2 mm	6 mm	93 mm	57 mm	5443 810 601	1
M4	4.3 mm	8 mm	117 mm	75 mm	5443 810 602	1
M5	5.3 mm	10 mm	133 mm	87 mm	5443 810 603	1
M6	6.4 mm	11.5 mm	142 mm	94 mm	5443 810 604	1
M8	8.4 mm	15 mm	169 mm	114 mm	5443 810 605	1
M10	10.5 mm	19 mm	198 mm	135 mm	5443 810 606	1

Subland stepped drill bit, DIN 8374 RN medium, 90°

With straight shank for the production of through holes according to ISO 273, while simultaneously producing countersinks (90°) in form A and B according to DIN 74 part 1. The cutting speed depends on the large diameter, the feed on the small one.



CNC|TEC

Product code	841M
Material to be processed	Steel, Cast metal, Copper, Brass, Aluminium, Plastic
Standards	DIN 8374
Cutting material	HSS
Surface	Vaporised
Angle of the tip	118 Degree
Countersink angle	90 Degree
Shank style	Cylindrical
Number of teeth	2 PCS
Coolant supply	External

Continuation **Subland stepped drill bit, DIN 8374 RN medium, 90°**

Tolerance of cutting edge diameter	h8
Tolerance of shank diameter	h8
Type description	Quality grade medium

Suitable for screw	Pilot hole diameter (d1)	Spot-facer diameter (d2)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
M5	5.5 mm	11 mm	142 mm	94 mm	5443 810 401	1
M6	6.6 mm	13 mm	151 mm	101 mm	5443 810 402	1
M8	9 mm	17.2 mm	191 mm	130 mm	5443 810 403	1

Subland stepped drill bit, DIN 8376 RN medium, 180°

With straight shank for the production of through holes according to ISO 273, while simultaneously producing countersinks (180°) in form H, J, H3, J3 and K3 according to DIN 74 part 2. The cutting speed depends on the large diameter, the feed on the small one.



CNC|TEC

Product code	851
Material to be processed	Steel, Cast metal, Copper, Brass, Aluminium, Plastic
Standards	DIN 8376
Cutting material	HSS
Surface	Vaporised
Angle of the tip	118 Degree
Countersink angle	180 Degree
Shank style	Cylindrical
Number of teeth	2 PCS
Coolant supply	External
Tolerance of cutting edge diameter	h8
Tolerance of shank diameter	h8
Type description	Quality grade medium

Suitable for screw	Pilot hole diameter (d1)	Spot-facer diameter (d2)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
M3	3.4 mm	6 mm	93 mm	57 mm	5443 810 801	1
M4	4.5 mm	8 mm	117 mm	75 mm	5443 810 802	1
M5	5.5 mm	10 mm	133 mm	87 mm	5443 810 803	1
M6	6.6 mm	11 mm	142 mm	94 mm	5443 810 804	1
M8	9 mm	15 mm	169 mm	114 mm	5443 810 805	1
M10	11 mm	18 mm	191 mm	130 mm	5443 810 806	1

Tile drill bit multipack

5 pieces. Special drill bit for rotary drilling, even in the hardest of roof tiles.

- Special cemented carbide plate with special geometry
- Precision-ground spiral grooves for extremely accurate drilling
- Standardised 1/4-inch hexagonal shaft



Versatility (points system)	●●○○
Service life (points system)	●●●●
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●○
Number of pieces in assortment/set	5 PCS
Tool holding device	Hexagon



Art. no. 0641 060 005

P. Qty.: 1

- Observe rotation speed (approx. 600-1000 rpm)
- Increase the contact pressure for very hard materials
- Not suitable for impact drilling

Roof tile drill bit

Special drill bit for rotary drilling, even in the hardest of roof tiles.

- Special cemented carbide plate with special geometry
- Extremely accurate drilling thanks to precision-ground special grooves
- Standardised 1/4-inch hexagonal shank



Versatility (points system)	●●○○
Service life (points system)	●●●●
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●○
Length	100 mm
Tool holding device	Hexagon



Diameter (Ø)	Working length	Art. no.	P. Qty.
3.5 mm	39 mm	0641 063 510	2
4 mm	39 mm	0641 064 010	2/10
5 mm	39 mm	0641 065 010	2/10
6 mm	54 mm	0641 066 010	2/10

- Observe rotation speed (approx. 600-1000 rpm)
- Increase the contact pressure for very hard materials
- Not suitable for impact drilling

Multi-purpose drill bit MFD-S multipack, 1/4-inch hexagonal shank

6 pieces. The MFD-S multi-purpose drill bit can drill through virtually any material.

- Extra-sharp cemented carbide cutting edges with special diamond grinding on all sides
- Excellent, fast drilling dust removal, standardised 1/4-in hex shank
- Suitable for drilling holes intended for anchor connections that are subject to approval



Versatility (points system)	●●●●
Service life (points system)	●●●○
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Number of pieces in assortment/set	6 PCS
Tool holding device	Hexagon



Art. no. 0641 260 002

P. Qty.: 1



Not suitable for impact drilling. For rotary drilling only!

MFD-S multi-purpose drill bit, 1/4-inch hexagonal shank

The MFD-S multi-purpose drill bit can drill through virtually any material.

- Extra-sharp carbide cutting edges with special diamond grinding on all sides
- Outstanding, rapid transport of drilling dust
- Standardised 1/4 inch hexagonal shaft
- Suitable for any bit holder
- Suitable for drilling holes intended for anchor connections that are subject to approval



Versatility (points system)	●●●●
Service life (points system)	●●●○
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Tool holding device	Hexagon

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
4 mm	100 mm	39 mm	0641 264 010	2
5 mm	100 mm	39 mm	0641 265 010	2
5.5 mm	100 mm	39 mm	0641 265 510	2
6 mm	100 mm	54 mm	0641 266 010	2
8 mm	120 mm	80 mm	0641 268 012	2
10 mm	120 mm	80 mm	0641 261 012	2



Not suitable for impact drilling. For rotary drilling only!

Multi-purpose drill bit MFD-S Plus

Drills through virtually any material

- Extra-sharp carbide cutting edges with special diamond grinding on all sides
- Outstanding, rapid transport of drilling dust
- Drive arbor, suitable for SDS-plus, with impact stop function
- Suitable for drilling holes intended for anchor connections that are subject to approval



Versatility (points system)	●●●●
Service life (points system)	●●●○
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Tool holding device	Suitable for SDS-plus

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
5 mm	110 mm	50 mm	0641 235 011	1
6 mm	110 mm	50 mm	0641 236 011	1
6 mm	160 mm	100 mm	0641 236 016	1
6 mm	210 mm	150 mm	0641 236 021	1
6 mm	260 mm	200 mm	0641 236 026	1
6 mm	310 mm	250 mm	0641 236 031	1
6 mm	450 mm	400 mm	0641 236 045	1
6.5 mm	210 mm	150 mm	0641 236 521	1
6.5 mm	260 mm	200 mm	0641 236 526	1
6.5 mm	310 mm	250 mm	0641 236 531	1
6.5 mm	450 mm	400 mm	0641 236 545	1
8 mm	110 mm	50 mm	0641 238 011	1
8 mm	160 mm	100 mm	0641 238 016	1
8 mm	210 mm	150 mm	0641 238 021	1
8 mm	260 mm	200 mm	0641 238 026	1
8 mm	310 mm	250 mm	0641 238 031	1
8 mm	450 mm	400 mm	0641 238 045	1
8 mm	600 mm	550 mm	0641 238 060	1
10 mm	110 mm	50 mm	0641 231 011	1
10 mm	160 mm	100 mm	0641 231 016	1
10 mm	210 mm	150 mm	0641 231 021	1
10 mm	260 mm	200 mm	0641 231 026	1
10 mm	310 mm	250 mm	0641 231 031	1
10 mm	350 mm	290 mm	0641 231 035	1
10 mm	450 mm	400 mm	0641 231 045	1
10 mm	600 mm	550 mm	0641 231 060	1
10.5 mm	260 mm	200 mm	0641 231 027	1
10.5 mm	450 mm	400 mm	0641 231 047	1
10.5 mm	600 mm	550 mm	0641 231 067	1
12 mm	160 mm	100 mm	0641 231 216	1
12 mm	210 mm	150 mm	0641 231 221	1

Continuation **Multi-purpose drill bit MFD-S Plus**

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
12 mm	260 mm	200 mm	0641 231 226	1
12 mm	310 mm	250 mm	0641 231 231	1
12 mm	450 mm	400 mm	0641 231 245	1
12 mm	600 mm	550 mm	0641 231 260	1
14 mm	160 mm	100 mm	0641 231 416	1
14 mm	210 mm	150 mm	0641 231 421	1
14 mm	260 mm	200 mm	0641 231 426	1
14 mm	310 mm	250 mm	0641 231 431	1
14 mm	450 mm	400 mm	0641 231 445	1
14 mm	600 mm	550 mm	0641 231 460	1
16 mm	260 mm	200 mm	0641 231 626	1
16 mm	310 mm	250 mm	0641 231 631	1
16 mm	450 mm	400 mm	0641 231 645	1
16 mm	600 mm	550 mm	0641 231 660	1
18 mm	260 mm	200 mm	0641 231 826	1
18 mm	450 mm	400 mm	0641 231 845	1
18 mm	600 mm	550 mm	0641 231 860	1
20 mm	260 mm	200 mm	0641 232 026	1
20 mm	450 mm	400 mm	0641 232 045	1
20 mm	600 mm	550 mm	0641 232 060	1
22 mm	260 mm	200 mm	0641 232 226	1
22 mm	450 mm	400 mm	0641 232 245	1



- Not suitable for impact drilling. For rotary drilling only.
- Drill bit (art. no. 0641231035) for creating the drill hole in conjunction with drill bit countersink (art. no. 0650641316) for AMO®-Therm Mini spacer installation system

Multi-purpose drill bit Multipack MFD-S Plus

5 pieces. Drills through virtually any material.

- Extra-sharp cemented carbide cutting edges with special diamond grinding on all sides
- Outstanding, rapid transport of drilling dust
- Drive arbor, suitable for SDS-plus, with impact stop function
- Suitable for drilling holes intended for anchor connections that are subject to approval



Versatility (points system)	●●●●
Service life (points system)	●●●○
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Number of pieces in assortment/set	5 PCS
Tool holding device	Suitable for SDS-plus

Art. no. 0641 230 005

P. Qty.: 1



Not suitable for impact drilling. For rotary drilling only!

MFD-S multi-purpose drill bit with straight shank

Drills through virtually any material

- Extra-sharp carbide cutting edges with special diamond grinding on all sides
- Outstanding, rapid transport of drilling dust thanks to patented 4-fold graded profile
- Suitable for drilling holes intended for anchor connections that are subject to approval



Versatility (points system)	●●●●
Service life (points system)	●●●○
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Tool holding device	Cylinder shank

Diameter (Ø)	Length	Working length	Shaft diameter	Art. no.	P. Qty.
3 mm	60 mm	30 mm	3 mm	0641 203 006	2/5
4 mm	75 mm	39 mm	4 mm	0641 204 007	2/5
5 mm	85 mm	39 mm	5 mm	0641 205 008	2/5
5.5 mm	85 mm	39 mm	5.5 mm	0641 205 508	1
6 mm	100 mm	54 mm	6 mm	0641 206 010	2/5
6 mm	150 mm	90 mm	6 mm	0641 206 015	2
6 mm	200 mm	135 mm	6 mm	0641 206 020	2/5
6 mm	260 mm	200 mm	6 mm	0641 206 026	2/5
6 mm	310 mm	250 mm	6 mm	0641 206 031	2
6 mm	400 mm	300 mm	6 mm	0641 206 040	1
6.5 mm	100 mm	54 mm	6.5 mm	0641 206 510	1
6.5 mm	150 mm	90 mm	6.5 mm	0641 206 515	2
6.5 mm	200 mm	135 mm	6.5 mm	0641 206 520	2/5
6.5 mm	260 mm	200 mm	6.5 mm	0641 206 526	2/5
6.5 mm	310 mm	250 mm	6.5 mm	0641 206 531	2
6.5 mm	400 mm	300 mm	6.5 mm	0641 206 540	1
7 mm	100 mm	54 mm	7 mm	0641 207 010	2/5
7 mm	200 mm	135 mm	7 mm	0641 207 020	2
8 mm	120 mm	80 mm	8 mm	0641 208 012	2/5
8 mm	200 mm	135 mm	8 mm	0641 208 020	1
8 mm	400 mm	300 mm	8 mm	0641 208 040	1
8 mm	600 mm	500 mm	8 mm	0641 208 060	1
10 mm	120 mm	80 mm	10 mm	0641 201 012	2/5
10 mm	200 mm	135 mm	10 mm	0641 201 020	1
10 mm	400 mm	300 mm	10 mm	0641 201 040	1
10 mm	600 mm	500 mm	10 mm	0641 201 060	1
12 mm	150 mm	90 mm	9.5 mm	0641 201 215	1
12 mm	220 mm	150 mm	9.5 mm	0641 201 222	1
12 mm	400 mm	300 mm	9.5 mm	0641 201 240	1
12 mm	600 mm	500 mm	9.5 mm	0641 201 260	1
14 mm	220 mm	150 mm	9.5 mm	0641 201 422	1
14 mm	400 mm	300 mm	9.5 mm	0641 201 440	1

Continuation **MFD-S multi-purpose drill bit with straight shank**

Diameter (Ø)	Length	Working length	Shaft diameter	Art. no.	P. Qty.
14 mm	600 mm	500 mm	9.5 mm	0641 201 460	1
16 mm	400 mm	300 mm	9.5 mm	0641 201 640	1
16 mm	600 mm	500 mm	9.5 mm	0641 201 660	1
18 mm	600 mm	500 mm	9.5 mm	0641 201 860	1
20 mm	600 mm	500 mm	12.5 mm	0641 202 060	1



Not suitable for impact drilling. For rotary drilling only!

Multipack of multi-purpose drill bits MFD-S straight shank

4 pieces. The MFD-S multi-purpose drill bits can drill through virtually any material.

- Extra-sharp carbide cutting edges with special diamond grinding on all sides
- Outstanding, rapid transport of drilling dust thanks to patented 4-fold graded profile
- Suitable for drilling holes intended for anchor connections that are subject to approval

Versatility (points system)	●●●●
Service life (points system)	●●●○
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Number of pieces in assortment/set	4 PCS
Tool holding device	Cylinder shank



Art. no. 0641 200 004

P. Qty.: 1



Not suitable for impact drilling. For rotary drilling only!

Multipack of multi-purpose drill bits MFD-S straight shank

5 pieces. The MFD-S multi-purpose drill bits can drill through virtually any material.

- Extra-sharp carbide cutting edges with special diamond grinding on all sides
- Outstanding, rapid transport of drilling dust thanks to patented 4-fold graded profile
- Suitable for drilling holes intended for anchor connections that are subject to approval



Versatility (points system)	●●●●
Service life (points system)	●●●○
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Number of pieces in assortment/set	5 PCS
Tool holding device	Cylinder shank

Art. no. 0641 200 005

P. Qty.: 1



Not suitable for impact drilling. For rotary drilling only!

Multi-purpose drill bit box MFD-S Plus

7 pieces. The MFD-S multi-purpose drill bits can drill through virtually any material.

- Extra-sharp cemented carbide cutting edges with special diamond grinding on all sides
- Outstanding, rapid transport of drilling dust
- Drive arbor, suitable for SDS-plus, with impact stop function
- Suitable for drilling holes intended for anchor connections that are subject to approval

Versatility (points system)	●●●●
Service life (points system)	●●●○
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Number of pieces in assortment/set	7 PCS
Tool holding device	Suitable for SDS-plus



Art. no. 0641 230 001

P. Qty.: 1



Not suitable for impact drilling. For rotary drilling only!

Multi-purpose drill bit box MFD-S straight shank

7 pieces. The MFD-S multi-purpose drill bits can drill through virtually any material.

- Extra-sharp carbide cutting edges with special diamond grinding on all sides
- Outstanding, rapid transport of drilling dust thanks to patented 4-fold graded profile
- Suitable for drilling holes intended for anchor connections that are subject to approval



Versatility (points system)	●●●●
Service life (points system)	●●●○
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Number of pieces in assortment/set	7 PCS
Tool holding device	Cylinder shank



Art. no. 0641 200 001

P. Qty.: 1

Contents for art. no. 0641 200 001

Designation	Art. no.	Quantity
MFD-S multi-purpose drill bit with straight shank 4 mm; Length 75 mm	0641 204 007	1
MFD-S multi-purpose drill bit with straight shank 5 mm; Length 85 mm	0641 205 008	1
MFD-S multi-purpose drill bit with straight shank 6 mm; Length 100 mm	0641 206 010	2
MFD-S multi-purpose drill bit with straight shank 8 mm; Length 120 mm	0641 208 012	1
MFD-S multi-purpose drill bit with straight shank 10 mm; Length 120 mm	0641 201 012	1
MFD-S multi-purpose drill bit with straight shank 12 mm; Length 150 mm	0641 201 215	1



H7 NC machine reamer HSCO WN

Universal. Creates an H7 hole tolerance.

- NC-compliant design similar to DIN 212 (shape D) with even shaft diameter for standardised mounting, especially in hydraulic expansion chucks or high-precision chucks.
- Twisted flute design
- Left-hand spiral for maximum true running accuracy and process reliability.
- No special mounts are required.



Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Copper, Brass, Aluminium, Plastic
Standards	DIN Similar to 212
Form	B
Cutting material	HSCo
Surface	Uncoated
Groove type	Left-hand twist, 8°
Shank style	Cylindrical DIN 6535-HA

Tolerance of fit	H7
Max. drilling depth (D)	8xD
Hole type	Clearance hole
Coolant supply	External
Service life (points system)	●●●○
Versatility (points system)	●●●●
Tolerance of cutting edge diameter	h7
Tolerance of shank diameter	h6

Cutting edge diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Projecting length (l3)	Art. no.	P. Qty.
1.5 mm	2 mm	40 mm	8 mm	22 mm	0620 100 150	1
1.6 mm	2 mm	43 mm	9 mm	23 mm	0620 100 160	1
1.7 mm	2 mm	43 mm	9 mm	23 mm	0620 100 170	1
1.8 mm	2 mm	46 mm	10 mm	24 mm	0620 100 180	1
1.9 mm	2 mm	46 mm	10 mm	24 mm	0620 100 190	1
2 mm	2 mm	49 mm	11 mm	27 mm	0620 100 200	1
2.1 mm	2 mm	49 mm	11 mm	27 mm	0620 100 210	1
2.2 mm	3 mm	53 mm	12 mm	27 mm	0620 100 220	1
2.3 mm	3 mm	53 mm	12 mm	27 mm	0620 100 230	1
2.4 mm	3 mm	57 mm	14 mm	28 mm	0620 100 240	1
2.5 mm	3 mm	57 mm	14 mm	28 mm	0620 100 250	1
2.6 mm	3 mm	57 mm	14 mm	28 mm	0620 100 260	1
2.7 mm	3 mm	61 mm	15 mm	30 mm	0620 100 270	1
2.8 mm	3 mm	61 mm	15 mm	30 mm	0620 100 280	1
2.9 mm	3 mm	61 mm	15 mm	30 mm	0620 100 290	1
3 mm	3 mm	61 mm	15 mm	30 mm	0620 100 300	1
3.1 mm	4 mm	65 mm	16 mm	34 mm	0620 100 310	1
3.2 mm	4 mm	65 mm	16 mm	34 mm	0620 100 320	1
3.3 mm	4 mm	65 mm	16 mm	34 mm	0620 100 330	1
3.4 mm	4 mm	70 mm	18 mm	35 mm	0620 100 340	1
3.5 mm	4 mm	70 mm	18 mm	35 mm	0620 100 350	1
3.6 mm	4 mm	70 mm	18 mm	35 mm	0620 100 360	1
3.7 mm	4 mm	70 mm	18 mm	35 mm	0620 100 370	1
3.8 mm	4 mm	75 mm	19 mm	47 mm	0620 100 380	1
3.9 mm	4 mm	75 mm	19 mm	47 mm	0620 100 390	1
4 mm	4 mm	75 mm	19 mm	47 mm	0620 100 400	1
4.1 mm	4 mm	75 mm	19 mm	47 mm	0620 100 410	1
4.2 mm	4 mm	75 mm	19 mm	47 mm	0620 100 420	1
4.3 mm	5 mm	80 mm	21 mm	52 mm	0620 100 430	1
4.4 mm	5 mm	80 mm	21 mm	52 mm	0620 100 440	1
4.5 mm	5 mm	80 mm	21 mm	52 mm	0620 100 450	1
4.6 mm	5 mm	80 mm	21 mm	52 mm	0620 100 460	1
4.7 mm	5 mm	80 mm	21 mm	52 mm	0620 100 470	1
4.8 mm	5 mm	86 mm	23 mm	58 mm	0620 100 480	1
4.9 mm	5 mm	86 mm	23 mm	58 mm	0620 100 490	1
5 mm	5 mm	86 mm	23 mm	58 mm	0620 100 500	1
5.1 mm	5 mm	86 mm	23 mm	58 mm	0620 100 510	1
5.2 mm	5 mm	86 mm	23 mm	58 mm	0620 100 520	1
5.3 mm	5 mm	86 mm	23 mm	58 mm	0620 100 530	1
5.4 mm	6 mm	93 mm	26 mm	57 mm	0620 100 540	1
5.5 mm	6 mm	93 mm	26 mm	57 mm	0620 100 550	1
5.6 mm	6 mm	93 mm	26 mm	57 mm	0620 100 560	1
5.7 mm	6 mm	93 mm	26 mm	57 mm	0620 100 570	1

Continuation **H7 NC machine reamer HSCO WN**

Cutting edge diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Projecting length (l3)	Art. no.	P. Qty.
5.8 mm	6 mm	93 mm	26 mm	57 mm	0620 100 580	1
5.9 mm	6 mm	93 mm	26 mm	57 mm	0620 100 590	1
6 mm	6 mm	93 mm	26 mm	57 mm	0620 100 600	1
6.1 mm	6 mm	101 mm	28 mm	65 mm	0620 100 610	1
6.2 mm	6 mm	101 mm	28 mm	65 mm	0620 100 620	1
6.3 mm	6 mm	101 mm	28 mm	65 mm	0620 100 630	1
6.4 mm	6 mm	101 mm	28 mm	65 mm	0620 100 640	1
6.5 mm	6 mm	101 mm	28 mm	65 mm	0620 100 650	1
6.6 mm	6 mm	101 mm	28 mm	65 mm	0620 100 660	1
6.7 mm	6 mm	101 mm	28 mm	65 mm	0620 100 670	1
6.8 mm	8 mm	109 mm	31 mm	73 mm	0620 100 680	1
6.9 mm	8 mm	109 mm	31 mm	73 mm	0620 100 690	1
7 mm	8 mm	109 mm	31 mm	73 mm	0620 100 700	1
7.1 mm	8 mm	109 mm	31 mm	73 mm	0620 100 710	1
7.2 mm	8 mm	109 mm	31 mm	73 mm	0620 100 720	1
7.3 mm	8 mm	109 mm	31 mm	73 mm	0620 100 730	1
7.4 mm	8 mm	109 mm	31 mm	73 mm	0620 100 740	1
7.5 mm	8 mm	109 mm	31 mm	73 mm	0620 100 750	1
7.6 mm	8 mm	117 mm	33 mm	81 mm	0620 100 760	1
7.7 mm	8 mm	117 mm	33 mm	81 mm	0620 100 770	1
7.8 mm	8 mm	117 mm	33 mm	81 mm	0620 100 780	1
7.9 mm	8 mm	117 mm	33 mm	81 mm	0620 100 790	1
8 mm	8 mm	117 mm	33 mm	81 mm	0620 100 800	1
8.1 mm	8 mm	117 mm	33 mm	81 mm	0620 100 810	1
8.2 mm	8 mm	117 mm	33 mm	81 mm	0620 100 820	1
8.3 mm	8 mm	117 mm	33 mm	81 mm	0620 100 830	1
8.4 mm	8 mm	117 mm	33 mm	81 mm	0620 100 840	1
8.5 mm	8 mm	117 mm	33 mm	81 mm	0620 100 850	1
8.6 mm	10 mm	125 mm	36 mm	85 mm	0620 100 860	1
8.7 mm	10 mm	125 mm	36 mm	85 mm	0620 100 870	1
8.8 mm	10 mm	125 mm	36 mm	85 mm	0620 100 880	1
8.9 mm	10 mm	125 mm	36 mm	85 mm	0620 100 890	1
9 mm	10 mm	125 mm	36 mm	85 mm	0620 100 900	1
9.1 mm	10 mm	125 mm	36 mm	85 mm	0620 100 910	1
9.2 mm	10 mm	125 mm	36 mm	85 mm	0620 100 920	1
9.3 mm	10 mm	125 mm	36 mm	85 mm	0620 100 930	1
9.4 mm	10 mm	125 mm	36 mm	85 mm	0620 100 940	1
9.5 mm	10 mm	125 mm	36 mm	85 mm	0620 100 950	1
9.6 mm	10 mm	133 mm	38 mm	93 mm	0620 100 960	1
9.7 mm	10 mm	133 mm	38 mm	93 mm	0620 100 970	1
9.8 mm	10 mm	133 mm	38 mm	93 mm	0620 100 980	1
9.9 mm	10 mm	133 mm	38 mm	93 mm	0620 100 990	1
10 mm	10 mm	133 mm	38 mm	93 mm	0620 101 000	1
11 mm	10 mm	142 mm	41 mm	102 mm	0620 101 100	1
12 mm	10 mm	151 mm	44 mm	111 mm	0620 101 200	1
13 mm	10 mm	151 mm	44 mm	111 mm	0620 101 300	1
14 mm	14 mm	160 mm	47 mm	120 mm	0620 101 400	1
15 mm	14 mm	162 mm	50 mm	122 mm	0620 101 500	1
16 mm	14 mm	170 mm	52 mm	130 mm	0620 101 600	1
17 mm	14 mm	175 mm	54 mm	135 mm	0620 101 700	1

Cutting edge diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Projecting length (l3)	Art. no.	P. Qty.
18 mm	14 mm	182 mm	56 mm	142 mm	0620 101 800	1
19 mm	16 mm	189 mm	58 mm	149 mm	0620 101 900	1
20 mm	16 mm	195 mm	60 mm	155 mm	0620 102 000	1

See overview tables for reamers/material assignment.

Precision wood twist drill bit HSCo

For hardwood, wood and plastics. The hardwood professional for optimum centring and chip removal.

- With a precision-ground centring point with two pre-cutters
- Special groove geometry and double bevel
- Extremely low manufacturing tolerances with precisely defined surface and profile quality
- Blade-like ground cutting edges
- Double bevel prevents any deviation in diameter (no off-centre drilling)



Cutting material	HSCo
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Diameter (Ø)	Length	Working length	Shaft diameter	Art. no.	P. Qty.
3 mm	61 mm	33 mm	3 mm	0650 810 300	5
4 mm	75 mm	43 mm	4 mm	0650 810 400	5
5 mm	86 mm	52 mm	5 mm	0650 810 500	5
6 mm	93 mm	57 mm	6 mm	0650 810 600	5
7 mm	109 mm	69 mm	7 mm	0650 810 700	5
8 mm	117 mm	75 mm	8 mm	0650 810 800	5
9 mm	125 mm	81 mm	9 mm	0650 810 900	1
10 mm	133 mm	87 mm	10 mm	0650 811 000	1

Precision twist wood drill bit assortment HSCo

10 pieces The hardwood professional for optimum centring and chip removal.

- With a precision-ground centring point with two pre-cutters
- Special groove geometry and double bevel
- Extremely low manufacturing tolerances with precisely defined surface and profile quality
- Blade-like ground cutting edges
- Double bevel prevents any deviation in diameter (no off-centre drilling)



Number of pieces in assortment/set	10 PCS
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Art. no. 0650 810 001

P. Qty.: 1



Continuation **Precision twist wood drill bit assortment HSCo**

Contents for art. no. 0650 810 001		
Designation	Art. no.	Quantity
Precision wood twist drill bit HSCo 3 mm	0650 810 300	1
Precision wood twist drill bit HSCo 4 mm	0650 810 400	1
Precision wood twist drill bit HSCo 5 mm	0650 810 500	2
Precision wood twist drill bit HSCo 6 mm	0650 810 600	2
Precision wood twist drill bit HSCo 7 mm	0650 810 700	1
Precision wood twist drill bit HSCo 8 mm	0650 810 800	1
Precision wood twist drill bit HSCo 9 mm	0650 810 900	1
Precision wood twist drill bit HSCo 10 mm	0650 811 000	1

HPC end mill Speedcut 4.0 Inox, DIN 6527L, long, four-lipped drill, uneven angle of twist gradient

Particularly suitable for machining austenitic stainless steels: Finishing, rough finishing and rough machining with one tool. Uneven angle of twist gradient produces smooth, low-vibration running and excellent surface quality.



CNC|TEC

Ultradur coating

Special coating for machining challenging materials

Product code	8247
Material to be processed	Steel, Stainless steel, Titanium, Aluminium, GRP
Standards	DIN 6527
Overall length	Long
Shank style	Cylindrical DIN 6535-HA
Cutting material	VHM
Surface	ULTRADUR
Coolant supply	External
Twist angle	39-42°
Tolerance of cutting edge diameter	h10
Tolerance of shank diameter	h6

Diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Number of cutting edges (Z)	Art. no.	P. Qty.
2 mm	4 mm	40 mm	5 mm	3 PCS	5443 301 881	1
3 mm	6 mm	57 mm	8 mm	4 PCS	5443 301 882	1
4 mm	6 mm	57 mm	11 mm	4 PCS	5443 301 883	1
5 mm	6 mm	57 mm	13 mm	4 PCS	5443 301 884	1
6 mm	6 mm	57 mm	13 mm	4 PCS	5443 301 885	1
7 mm	8 mm	63 mm	16 mm	4 PCS	5443 301 892	1
8 mm	8 mm	63 mm	19 mm	4 PCS	5443 301 886	1
9 mm	10 mm	72 mm	19 mm	4 PCS	5443 301 893	1
10 mm	10 mm	72 mm	22 mm	4 PCS	5443 301 887	1
11 mm	12 mm	83 mm	26 mm	4 PCS	5443 301 894	1

Diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Number of cutting edges (Z)	Art. no.	P. Qty.
12 mm	12 mm	83 mm	26 mm	4 PCS	5443 301 888	1
16 mm	16 mm	92 mm	32 mm	4 PCS	5443 301 890	1
20 mm	20 mm	104 mm	38 mm	4 PCS	5443 301 891	1

Auger drill bit Longlife & Speed

High-performance auger drill bit with newly developed thread tip and edge geometry, offset cutting head and special surface treatment for an optimum tension with minimum friction and a significantly higher service life of the taper tap in deep holes in softwoods and all hardwoods.



- Significantly longer service life compared to conventional auger drill bits
- Ideal in softwoods and all hardwoods (even in exotic hardwoods, such as Azobé/Bongossi)
- Minimum force required due to independent feed with even less friction

Diameter	Length	Working length	Can be used with extension	Can be used with adapter	Art. no.	P. Qty.
6 mm	235 mm	165 mm	No	No	0650 770 616	1
6 mm	320 mm	250 mm	No	No	0650 770 625	1
6 mm	460 mm	390 mm	No	No	0650 770 639	1
7 mm	235 mm	165 mm	No	No	0650 770 716	1
7 mm	320 mm	250 mm	No	No	0650 770 725	1
7 mm	460 mm	390 mm	No	No	0650 770 739	1
8 mm	235 mm	165 mm	No	No	0650 770 816	1
8 mm	320 mm	250 mm	No	No	0650 770 825	1
8 mm	460 mm	390 mm	No	No	0650 770 839	1
10 mm	235 mm	165 mm	No	No	0650 771 016	1
10 mm	320 mm	250 mm	No	No	0650 771 025	1
10 mm	460 mm	390 mm	No	No	0650 771 039	1
10 mm	650 mm	580 mm	No	No	0650 771 058	1
12 mm	235 mm	165 mm	No	Yes	0650 771 216	1
12 mm	320 mm	250 mm	No	Yes	0650 771 225	1
12 mm	460 mm	390 mm	No	Yes	0650 771 239	1
12 mm	650 mm	580 mm	No	Yes	0650 771 258	1
14 mm	235 mm	165 mm	No	Yes	0650 771 416	1
14 mm	320 mm	250 mm	No	Yes	0650 771 425	1
14 mm	460 mm	390 mm	No	Yes	0650 771 439	1
14 mm	650 mm	580 mm	No	Yes	0650 771 458	1
16 mm	235 mm	165 mm	No	Yes	0650 771 616	1
16 mm	320 mm	250 mm	No	Yes	0650 771 625	1
16 mm	460 mm	390 mm	No	Yes	0650 771 639	1
16 mm	650 mm	580 mm	No	Yes	0650 771 658	1
18 mm	235 mm	165 mm	No	Yes	0650 771 816	1
18 mm	320 mm	250 mm	No	Yes	0650 771 825	1
18 mm	460 mm	390 mm	No	Yes	0650 771 839	1
18 mm	650 mm	580 mm	No	Yes	0650 771 858	1
20 mm	235 mm	165 mm	No	Yes	0650 772 016	1
20 mm	320 mm	250 mm	No	Yes	0650 772 025	1

Continuation **Auger drill bit Longlife & Speed**

Diameter	Length	Working length	Can be used with extension	Can be used with adapter	Art. no.	P. Qty.
20 mm	460 mm	390 mm	No	Yes	0650 772 039	1
20 mm	650 mm	580 mm	No	Yes	0650 772 058	1
22 mm	235 mm	165 mm	Yes	Yes	0650 772 216	1
22 mm	320 mm	250 mm	Yes	Yes	0650 772 225	1
22 mm	460 mm	390 mm	Yes	Yes	0650 772 239	1
22 mm	650 mm	580 mm	Yes	Yes	0650 772 258	1
24 mm	320 mm	250 mm	Yes	Yes	0650 772 425	1
24 mm	460 mm	390 mm	Yes	Yes	0650 772 439	1
24 mm	650 mm	580 mm	Yes	Yes	0650 772 458	1
26 mm	320 mm	250 mm	Yes	Yes	0650 772 625	1
26 mm	460 mm	390 mm	Yes	Yes	0650 772 639	1
26 mm	650 mm	580 mm	Yes	Yes	0650 772 658	1
28 mm	460 mm	390 mm	Yes	Yes	0650 772 839	1
30 mm	460 mm	390 mm	Yes	Yes	0650 773 039	1
32 mm	460 mm	390 mm	Yes	Yes	0650 773 239	1

Auger drill bit Longlife & Speed assortment, effective length 165 mm

6 pieces. High-performance auger drill bit with newly developed thread tip and edge geometry, offset cutting head and special surface treatment for an optimum tension with minimum friction and a significantly higher service life of the taper tap in deep holes in softwoods and all hardwoods.

- Significantly longer service life compared to conventional auger drill bits
- Ideal in softwoods and all hardwoods (even in exotic hardwoods, such as Azobé/Bongossi)
- Minimum force required due to independent feed with even less friction



Working length	165 mm
Number of pieces in assortment/set	6 PCS

Art. no. 0650 776 165

P. Qty.: 1

Auger drill bit Longlife & Speed assortment, effective length 250 mm

6 pieces. High-performance auger drill bit with newly developed thread tip and edge geometry, offset cutting head and special surface treatment for an optimum tension with minimum friction and a significantly higher service life of the taper tap in deep holes in softwoods and all hardwoods.

- Significantly longer service life compared to conventional auger drill bits
- Ideal in softwoods and all hardwoods (even in exotic hardwoods, such as Azobé/Bongossi)
- Minimum force required due to independent feed with even less friction

Working length	250 mm
Number of pieces in assortment/set	6 PCS

Art. no. 0650 776 250

P. Qty.: 1



Auger drill bit Longlife & Speed assortment, effective length 390 mm

6 pieces. High-performance auger drill bit with newly developed thread tip and edge geometry, offset cutting head and special surface treatment for an optimum tension with minimum friction and a significantly higher service life of the taper tap in deep holes in softwoods and all hardwoods.

- Significantly longer service life compared to conventional auger drill bits
- Ideal in softwoods and all hardwoods (even in exotic hardwoods, such as Azobé/Bongossi)
- Minimum force required due to independent feed with even less friction

Working length	390 mm
Number of pieces in assortment/set	6 PCS

Art. no. 0650 776 390

P. Qty.: 1



Auger drill bit Longlife & Speed assortment, effective length 580 mm

6 pieces. High-performance auger drill bit with newly developed thread tip and edge geometry, offset cutting head and special surface treatment for an optimum tension with minimum friction and a significantly higher service life of the taper tap in deep holes in softwoods and all hardwoods.



- Significantly longer service life compared to conventional auger drill bits
- Ideal in softwoods and all hardwoods (even in exotic hardwoods, such as Azobé/Bongossi)
- Minimum force required due to independent feed with even less friction

Working length	580 mm
Number of pieces in assortment/set	6 PCS

Art. no. 0650 776 580

P. Qty.: 1

Special drill bit for COLDMELT® anchors

For creating precise drill holes for COLDMELT® anchors in lightweight panels.



Shaft diameter	10 mm
Material	Hardened steel



Diameter	Length	Art. no.	P. Qty.
10.3 mm	105 mm	0650 683 101	1
10.3 mm	70 mm	0650 683 107	1
20 mm	105 mm	0650 683 201	1

Please consider the legal instruction at the beginning of this chapter.

Please consult the design data to ensure that the drill bit is used and adjusted correctly.

Twist drill HSCO, DIN 1869, R1, type RN

The extra-long, twisted stainless steel deep hole drill for processing stainless steel (e.g. V2A, V4A), heat-resistant steels and for a wide range of general applications in steel with strength of up to 1,000 N/mm² and cast iron.

- Special clamping groove profile (reduced machining times due to fewer chip removal cycles)
- Precise and straight drilling process thanks to double drill heels
- Approx. 30% longer service life than untreated surfaces thanks to fibre nitration



Suitable for machine type	Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine
Material to be processed	Steel, Cast iron, Stainless steel, Titanium
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 1869/20xD
Shank style	Cylindrical
Surface	Fase nitrated
Cutting material	HSCo
Type	RN
Angle of the tip	130 Degree
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	1000 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
4 mm	175 mm	120 mm	0626 460 400	1
5 mm	195 mm	135 mm	0626 460 500	1
6 mm	205 mm	140 mm	0626 460 600	1
7 mm	225 mm	155 mm	0626 460 700	1
8 mm	240 mm	165 mm	0626 460 800	1
9 mm	250 mm	175 mm	0626 460 900	1
10 mm	265 mm	185 mm	0626 461 000	1
11 mm	280 mm	195 mm	0626 461 100	1
12 mm	295 mm	205 mm	0626 461 200	1
13 mm	295 mm	205 mm	0626 461 300	1

- When using the drill according to DIN 1869, it is recommended to create a pilot hole with a depth of 1xD to 2xD. Our extra-short long-life drill according to DIN 1897 (art. no. 062674 etc.) is ideal for this purpose.
- See overview table for drill bit/material assignments

Twist drill bit HSCO, DIN 1869, R2, type RN

The extra-long, spiralised stainless steel deep hole drill bit for machining stainless steel (such as V2A, V4A) heat-resistant steels and for general, broad applications in steel up to 1000 N/mm² strength, as well as in cast iron.



- Special clamping groove profile (reduced machining times due to fewer chip removal cycles)
- Precise and straight drilling thanks to double drill heels
- Fibre nitration to increase tool life by approx. 30% compared to untreated surfaces

Suitable for machine type	Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine
Material to be processed	Steel, Cast iron, Stainless steel, Titanium
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 1869/25xD
Shank style	Cylindrical
Surface	Fase nitrated
Cutting material	HSCo
Type	RN
Angle of the tip	130 Degree
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	1000 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
4 mm	220 mm	150 mm	0626 560 400	1
5 mm	245 mm	170 mm	0626 560 500	1
6 mm	260 mm	180 mm	0626 560 600	1
7 mm	290 mm	200 mm	0626 560 700	1
8 mm	305 mm	210 mm	0626 560 800	1
9 mm	320 mm	220 mm	0626 560 900	1
10 mm	340 mm	235 mm	0626 561 000	1
11 mm	365 mm	250 mm	0626 561 100	1
12 mm	375 mm	260 mm	0626 561 200	1
13 mm	375 mm	260 mm	0626 561 300	1

- When using the drill according to DIN 1869, it is recommended to create a pilot hole with a depth of 1xD to 2xD. Our extra-short long-life drill according to DIN 1897 (art. no. 062674 etc.) is ideal for this purpose.
- See overview tables for drill bit/material assignments

Twist drill bit HSCO, DIN 1869, R3, type RN

The extra-long, spiralised stainless steel deep hole drill bit for machining stainless steel (such as V2A, V4A) heat-resistant steels and for general, broad applications in steel up to 1000 N/mm² strength, as well as in cast iron.



- Special clamping groove profile (reduced machining times due to fewer chip removal cycles)
- Precise and straight drilling thanks to double drill heels
- Fibre nitration to increase tool life by approx. 30% compared to untreated surfaces

Suitable for machine type	Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine
Material to be processed	Steel, Cast iron, Stainless steel, Titanium
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 1869/30xD
Shank style	Cylindrical
Surface	Fase nitrated
Cutting material	HSCo
Type	RN
Angle of the tip	130 Degree
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	1000 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
4 mm	280 mm	190 mm	0626 660 400	1
5 mm	315 mm	210 mm	0626 660 500	1
6 mm	330 mm	225 mm	0626 660 600	1
7 mm	370 mm	250 mm	0626 660 700	1
8 mm	390 mm	265 mm	0626 660 800	1
9 mm	410 mm	280 mm	0626 660 900	1
10 mm	430 mm	295 mm	0626 661 000	1
11 mm	455 mm	310 mm	0626 661 100	1
12 mm	480 mm	330 mm	0626 661 200	1
13 mm	480 mm	330 mm	0626 661 300	1

- When using the drill according to DIN 1869, it is recommended to create a pilot hole with a depth of 1xD to 2xD. Our extra-short long-life drill according to DIN 1897 (art. no. 062674 etc.) is ideal for this purpose.
- See overview tables for drill bit/material assignments

Twist drill bit HSCO, DIN 1897, type RN, MAGMA

Precise, extra short length, long-life drill with magma coating for processing stainless steel (e.g. V2A, V4A), heat-resistant steels and titanium. Also suitable for general applications in steel with strength up to 1,200 N/mm² and in cast iron.



- Special Magma multilayer coating for a longer tool life and a higher cutting speed (heat resistant up to 800°C)
- Optimised split point for precise spot drilling without centring, even on curved surfaces

Suitable for machine type	Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine
Material to be processed	Steel, Stainless steel, Cast iron, Titanium, Special alloy
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 1897/3xD
Shank style	Cylindrical
Surface	Magma multilayer coating
Cutting material	HSCo
Type	RN
Angle of the tip	130 Degree
Service life (points system)	●●●●
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	1000 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
1 mm	26 mm	6 mm	0626 740 100	5
1.5 mm	32 mm	9 mm	0626 740 150	5
2 mm	38 mm	12 mm	0626 740 200	5
2.5 mm	43 mm	14 mm	0626 740 250	5
3 mm	46 mm	16 mm	0626 740 300	5
3.2 mm	49 mm	18 mm	0626 740 320	5
3.3 mm	49 mm	18 mm	0626 740 330	5
3.5 mm	52 mm	20 mm	0626 740 350	5
4 mm	55 mm	22 mm	0626 740 400	5
4.1 mm	55 mm	22 mm	0626 740 410	5
4.2 mm	55 mm	22 mm	0626 740 420	5
4.5 mm	58 mm	24 mm	0626 740 450	5
5 mm	62 mm	26 mm	0626 740 500	5
5.5 mm	66 mm	28 mm	0626 740 550	3
6 mm	66 mm	28 mm	0626 740 600	3
6.5 mm	70 mm	31 mm	0626 740 650	3
6.8 mm	74 mm	34 mm	0626 740 680	3
7 mm	74 mm	34 mm	0626 740 700	3
7.5 mm	74 mm	34 mm	0626 740 750	3
8 mm	79 mm	37 mm	0626 740 800	3
8.5 mm	79 mm	37 mm	0626 740 850	1
9 mm	84 mm	40 mm	0626 740 900	1

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
9.5 mm	84 mm	40 mm	0626 740 950	1
10 mm	89 mm	43 mm	0626 741 000	1
10.2 mm	89 mm	43 mm	0626 741 020	1
10.5 mm	89 mm	43 mm	0626 741 050	1
11 mm	95 mm	47 mm	0626 741 100	1
11.5 mm	95 mm	47 mm	0626 741 150	1
12 mm	102 mm	51 mm	0626 741 200	1
12.5 mm	102 mm	51 mm	0626 741 250	1
13 mm	102 mm	51 mm	0626 741 300	1

See overview tables for drill bit/material assignments

Twist drill HSCo DIN 338 MFD Speed

Manually operated high-speed drill bit for precise drill holes in nearly all materials, such as stainless steel (e.g. V2A, V4A), heat-resistant steels and titanium. Also for general applications in conventional steel up to a strength of 1,200 N/mm² as well as in cast iron and non-ferrous metals (such as aluminium, aluminium alloys, bronze, plastic).



- Up to 50% faster than conventional, ground twist drill thanks to speed geometry
- 135° tip angle and optimised cross thinning for outstanding centring
- Exclusive Vario coil
- Exclusively available from Würth

3-face shank (from Ø 4 mm):

- No movement in the drill chuck
- Optimum power transmission
- Protects the drill chuck against damage
- Minimal effort required to open and close the drill chuck

Suitable for machine type	Drill, Cordless screwdrivers
Material to be processed	Steel, Cast iron, Stainless steel, Titanium, Aluminium
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 338/5xD
Surface	Multiple refined
Cutting material	HSCo
Angle of the tip	135 Degree
Service life (points system)	●●●○
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●●
Drilling behaviour (point system)	●●●●
Self-centring	Yes
Suitable for tensile strength up to	1200 N/mm ²

Continuation **Twist drill HSCo DIN 338 MFD Speed**

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Shank style	Art. no.	P. Qty.
1 mm	34 mm	12 mm	Cylindrical	0626 930 100	10
1.5 mm	40 mm	18 mm	Cylindrical	0626 930 150	10
2 mm	49 mm	24 mm	Cylindrical	0626 930 200	10
2.5 mm	57 mm	30 mm	Cylindrical	0626 930 250	10
3 mm	61 mm	33 mm	Cylindrical	0626 930 300	10
3.2 mm	65 mm	36 mm	Cylindrical	0626 930 320	10
3.3 mm	65 mm	36 mm	Cylindrical	0626 930 330	10
3.5 mm	70 mm	39 mm	Cylindrical	0626 930 350	10
4 mm	75 mm	43 mm	3-face shank	0626 930 400	10
4.2 mm	75 mm	43 mm	3-face shank	0626 930 420	10
4.5 mm	80 mm	47 mm	3-face shank	0626 930 450	10
5 mm	86 mm	52 mm	3-face shank	0626 930 500	10
5.1 mm	86 mm	52 mm	3-face shank	0626 930 510	5
5.2 mm	86 mm	52 mm	3-face shank	0626 930 520	5
5.5 mm	93 mm	57 mm	3-face shank	0626 930 550	5
6 mm	93 mm	57 mm	3-face shank	0626 930 600	5
6.5 mm	101 mm	63 mm	3-face shank	0626 930 650	5
6.8 mm	109 mm	69 mm	3-face shank	0626 930 680	5
7 mm	109 mm	69 mm	3-face shank	0626 930 700	5
7.5 mm	109 mm	69 mm	3-face shank	0626 930 750	5
8 mm	117 mm	75 mm	3-face shank	0626 930 800	5
8.5 mm	117 mm	75 mm	3-face shank	0626 930 850	1
9 mm	125 mm	81 mm	3-face shank	0626 930 900	1
9.5 mm	125 mm	81 mm	3-face shank	0626 930 950	1
10 mm	133 mm	87 mm	3-face shank	0626 931 000	1
10.2 mm	133 mm	87 mm	3-face shank	0626 931 020	1
10.5 mm	133 mm	87 mm	3-face shank	0626 931 050	1
11 mm	142 mm	94 mm	3-face shank	0626 931 100	1
11.5 mm	142 mm	94 mm	3-face shank	0626 931 150	1
12 mm	151 mm	101 mm	3-face shank	0626 931 200	1
12.5 mm	151 mm	101 mm	3-face shank	0626 931 250	1
13 mm	151 mm	101 mm	3-face shank	0626 931 300	1

See overview tables for drill bit/material assignments

Twist drill bit assortment HSCo DIN 338 MFD Speed

19 pieces Manually operated high-speed drill bit for precise drill holes in nearly all materials, such as stainless steel (e.g. V2A, V4A), heat-resistant steels and titanium. Also for general applications in conventional steel up to a strength of 1,200 N/mm² as well as in cast iron and non-ferrous metals (such as aluminium, aluminium alloys, bronze, plastic).

- Up to 50% faster than conventional, ground twist drill thanks to speed geometry
- 135° tip angle and optimised cross thinning for outstanding centring
- Exclusive Vario coil
- Exclusively available from Würth

3-face shank (from Ø 4 mm):

- No movement in the drill chuck: quicker, more pleasant work
- Optimum power transmission
- Protects the drill chuck against damage
- Minimal effort required to open and close the drill chuck



Number of pieces in assortment/set	19 PCS
Surface	Multiple refined
Standard/drilling depth	DIN 338/5xD

Art. no. 0626 930 001

P. Qty.: 1

See overview tables for drill bit/material assignments

Twist drill bit assortment HSCo DIN 338 MFD Speed

25 pieces. Manually operated high-speed drill bit for precise drill holes in nearly all materials, such as stainless steel (e.g. V2A, V4A), heat-resistant steels and titanium. Also for general applications in conventional steel up to a strength of 1,200 N/mm² as well as in cast iron and non-ferrous metals (such as aluminium, aluminium alloys, bronze, plastic).



- Up to 50% faster than conventional, ground twist drill thanks to speed geometry
- 135° tip angle and optimised cross thinning for outstanding centring
- Exclusive Vario coil
- Exclusively available from Würth

3-face shank (from Ø 4 mm):

- No movement in the drill chuck: quicker, more pleasant work
- Optimum power transmission
- Protects the drill chuck against damage
- Minimal effort required to open and close the drill chuck



Number of pieces in assortment/set	25 PCS
Surface	Multiple refined
Standard/drilling depth	DIN 338/5xD

Art. no. 0626 930 004

P. Qty.: 1

See overview tables for drill bit/material assignments



Twist drill bit HSCO DIN 338 type RN oxide

The precise high-performance drill for processing stainless steel (e.g. V2A, V4A), heat-resistant steels and titanium. Also suitable for general broader applications in steel with strength up to 1,000 N/mm² and in cast iron.

- Rapid drilling with perfect chip removal thanks to large chipping spaces and small core
- Highly precise tip grinding for precise drilling

Suitable for machine type	Drill, Cordless screwdrivers, Pedestal drilling machine
Material to be processed	Steel, Cast iron, Stainless steel, Titanium
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 338/5xD
Shank style	Cylindrical
Surface	Oxide finish
Cutting material	HSCo
Type	RN OXIDE
Angle of the tip	130 Degree
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	1000 N/mm ²



Continuation **Twist drill bit HSCO DIN 338 type RN oxide**

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
1 mm	34 mm	12 mm	0626 000 100	10
1.1 mm	36 mm	14 mm	0626 000 110	10
1.2 mm	38 mm	16 mm	0626 000 120	10
1.3 mm	38 mm	16 mm	0626 000 130	10
1.4 mm	40 mm	18 mm	0626 000 140	10
1.5 mm	40 mm	18 mm	0626 000 150	10
1.6 mm	40 mm	18 mm	0626 000 160	10
1.7 mm	43 mm	23 mm	0626 000 170	10
1.8 mm	46 mm	22 mm	0626 000 180	10
1.9 mm	46 mm	22 mm	0626 000 190	10
2 mm	49 mm	24 mm	0626 000 200	10
2.1 mm	49 mm	24 mm	0626 000 210	10
2.2 mm	53 mm	27 mm	0626 000 220	10
2.3 mm	53 mm	27 mm	0626 000 230	10
2.4 mm	57 mm	30 mm	0626 000 240	10
2.5 mm	57 mm	30 mm	0626 000 250	10
2.6 mm	57 mm	30 mm	0626 000 260	10
2.7 mm	61 mm	33 mm	0626 000 270	10
2.8 mm	61 mm	33 mm	0626 000 280	10
2.9 mm	61 mm	33 mm	0626 000 290	10
3 mm	61 mm	33 mm	0626 000 300	10
3.1 mm	65 mm	36 mm	0626 000 310	10
3.2 mm	65 mm	36 mm	0626 000 320	10
3.3 mm	65 mm	36 mm	0626 000 330	10
3.4 mm	70 mm	39 mm	0626 000 340	10
3.5 mm	70 mm	39 mm	0626 000 350	10
3.6 mm	70 mm	39 mm	0626 000 360	10
3.7 mm	70 mm	39 mm	0626 000 370	10
3.8 mm	75 mm	43 mm	0626 000 380	10
3.9 mm	75 mm	43 mm	0626 000 390	10
4 mm	75 mm	43 mm	0626 000 400	10
4.1 mm	75 mm	43 mm	0626 000 410	10
4.2 mm	75 mm	43 mm	0626 000 420	10
4.3 mm	80 mm	47 mm	0626 000 430	10
4.4 mm	80 mm	47 mm	0626 000 440	10
4.5 mm	80 mm	47 mm	0626 000 450	10
4.6 mm	80 mm	33 mm	0626 000 460	10
4.7 mm	80 mm	47 mm	0626 000 470	10
4.8 mm	86 mm	52 mm	0626 000 480	10
4.9 mm	86 mm	52 mm	0626 000 490	10
5 mm	86 mm	52 mm	0626 000 500	10
5.1 mm	86 mm	52 mm	0626 000 510	5
5.2 mm	86 mm	52 mm	0626 000 520	5
5.3 mm	86 mm	52 mm	0626 000 530	5
5.4 mm	93 mm	57 mm	0626 000 540	5
5.5 mm	93 mm	57 mm	0626 000 550	5
5.6 mm	93 mm	57 mm	0626 000 560	5
5.7 mm	93 mm	57 mm	0626 000 570	5
5.8 mm	93 mm	57 mm	0626 000 580	5
5.9 mm	93 mm	57 mm	0626 000 590	5

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
6 mm	93 mm	57 mm	0626 000 600	5
6.1 mm	101 mm	63 mm	0626 000 610	5
6.2 mm	101 mm	63 mm	0626 000 620	5
6.3 mm	101 mm	63 mm	0626 000 630	5
6.4 mm	101 mm	63 mm	0626 000 640	5
6.5 mm	101 mm	63 mm	0626 000 650	5
6.6 mm	101 mm	63 mm	0626 000 660	5
6.7 mm	101 mm	63 mm	0626 000 670	5
6.8 mm	109 mm	69 mm	0626 000 680	5
6.9 mm	109 mm	69 mm	0626 000 690	5
7 mm	109 mm	69 mm	0626 000 700	5
7.1 mm	109 mm	69 mm	0626 000 710	5
7.2 mm	109 mm	69 mm	0626 000 720	5
7.3 mm	109 mm	69 mm	0626 000 730	5
7.4 mm	109 mm	69 mm	0626 000 740	5
7.5 mm	109 mm	69 mm	0626 000 750	5
7.6 mm	117 mm	75 mm	0626 000 760	5
7.7 mm	117 mm	75 mm	0626 000 770	5
7.8 mm	117 mm	75 mm	0626 000 780	5
7.9 mm	117 mm	75 mm	0626 000 790	5
8 mm	117 mm	75 mm	0626 000 800	5
8.1 mm	117 mm	75 mm	0626 000 810	1
8.2 mm	117 mm	75 mm	0626 000 820	1
8.3 mm	117 mm	75 mm	0626 000 830	1
8.4 mm	117 mm	75 mm	0626 000 840	1
8.5 mm	117 mm	75 mm	0626 000 850	1
8.6 mm	125 mm	81 mm	0626 000 860	1
8.7 mm	125 mm	81 mm	0626 000 870	1
8.8 mm	125 mm	81 mm	0626 000 880	1
8.9 mm	125 mm	81 mm	0626 000 890	1
9 mm	125 mm	81 mm	0626 000 900	1
9.1 mm	125 mm	81 mm	0626 000 910	1
9.2 mm	125 mm	81 mm	0626 000 920	1
9.3 mm	125 mm	81 mm	0626 000 930	1
9.4 mm	125 mm	81 mm	0626 000 940	1
9.5 mm	125 mm	81 mm	0626 000 950	1
9.6 mm	133 mm	87 mm	0626 000 960	1
9.7 mm	133 mm	87 mm	0626 000 970	1
9.8 mm	133 mm	87 mm	0626 000 980	1
9.9 mm	133 mm	87 mm	0626 000 990	1
10 mm	133 mm	87 mm	0626 001 000	1
10.1 mm	133 mm	87 mm	0626 001 010	1
10.2 mm	133 mm	87 mm	0626 001 020	1
10.3 mm	133 mm	87 mm	0626 001 030	1
10.4 mm	133 mm	87 mm	0626 001 040	1
10.5 mm	133 mm	87 mm	0626 001 050	1
10.6 mm	133 mm	87 mm	0626 001 060	1
10.7 mm	142 mm	94 mm	0626 001 070	1
10.8 mm	142 mm	94 mm	0626 001 080	1
10.9 mm	142 mm	94 mm	0626 001 090	1
11 mm	142 mm	94 mm	0626 001 100	1
11.1 mm	142 mm	94 mm	0626 001 110	1
11.2 mm	142 mm	94 mm	0626 001 120	1
11.3 mm	142 mm	94 mm	0626 001 130	1
11.4 mm	142 mm	94 mm	0626 001 140	1

Continuation **Twist drill bit HSCO DIN 338 type RN oxide**

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
11.5 mm	142 mm	94 mm	0626 001 150	1
11.6 mm	142 mm	94 mm	0626 001 160	1
11.7 mm	142 mm	94 mm	0626 001 170	1
11.8 mm	142 mm	94 mm	0626 001 180	1
11.9 mm	151 mm	101 mm	0626 001 190	1
12 mm	151 mm	101 mm	0626 001 200	1
12.1 mm	151 mm	101 mm	0626 001 210	1
12.2 mm	151 mm	101 mm	0626 001 220	1
12.3 mm	151 mm	101 mm	0626 001 230	1
12.4 mm	151 mm	101 mm	0626 001 240	1
12.5 mm	151 mm	101 mm	0626 001 250	1
12.6 mm	151 mm	101 mm	0626 001 260	1
12.7 mm	151 mm	101 mm	0626 001 270	1
12.8 mm	151 mm	101 mm	0626 001 280	1
12.9 mm	151 mm	101 mm	0626 001 290	1
13 mm	151 mm	101 mm	0626 001 300	1
13.1 mm	151 mm	101 mm	0626 001 310	1
13.5 mm	160 mm	108 mm	0626 001 350	1
14 mm	160 mm	108 mm	0626 001 400	1
14.2 mm	169 mm	114 mm	0626 001 420	1
14.5 mm	169 mm	114 mm	0626 001 450	1
15 mm	169 mm	114 mm	0626 001 500	1
15.5 mm	178 mm	120 mm	0626 001 550	1
16 mm	178 mm	120 mm	0626 001 600	1
16.5 mm	184 mm	125 mm	0626 001 650	1
17 mm	184 mm	125 mm	0626 001 700	1
17.5 mm	191 mm	130 mm	0626 001 750	1
18 mm	191 mm	130 mm	0626 001 800	1
18.5 mm	198 mm	135 mm	0626 001 850	1
19 mm	198 mm	135 mm	0626 001 900	1
19.5 mm	205 mm	140 mm	0626 001 950	1
20 mm	205 mm	140 mm	0626 002 000	1

Twist drill bit HSCO DIN 338 TYPE RN

Assembly drill bit for working with stainless steel (5xD).

Ground drill bit (chisel edge)



Material to be processed	Stainless steel
Cutting material	HSCo
Type	RN
Angle of the tip	118 Degree
Service life (points system)	●○○○
Drilling speed (point system)	●○○○
Bore hole quality (point system)	●○○○
Versatility (points system)	●○○○
Drilling behaviour (point system)	●○○○

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
6.5 mm	101 mm	63 mm	0625 010 650	10
6.8 mm	109 mm	69 mm	0625 010 680	10
11.5 mm	142 mm	94 mm	0625 011 150	1
13 mm	151 mm	101 mm	0625 011 300	1

Twist drill bit HSCO, DIN 338, type RN, MAGMA

Precise long-life drill with magma coating for working with stainless steel (e.g. V2A, V4A), heat-resistant steels and titanium. Also suitable for general applications in steel with strength up to 1,200 N/mm² and in cast iron.



- Special Magma multilayer coating for a longer tool life and a higher cutting speed (heat resistant up to 800°C)
- Optimised split point for precise spot drilling without centring, even on curved surfaces

Suitable for machine type	Drill, Cordless screwdrivers, Pedestal drilling machine
Material to be processed	Steel, Stainless steel, Cast iron, Titanium, Special alloy
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 338/5xD
Shank style	Cylindrical
Surface	Magma multilayer coating
Cutting material	HSCo
Type	RN
Angle of the tip	130 Degree
Service life (points system)	●●●●
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	1000 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
1 mm	34 mm	12 mm	0626 040 100	5
1.5 mm	40 mm	18 mm	0626 040 150	5
2 mm	49 mm	24 mm	0626 040 200	5
2.5 mm	57 mm	30 mm	0626 040 250	5
3 mm	61 mm	33 mm	0626 040 300	5
3.2 mm	65 mm	36 mm	0626 040 320	5
3.3 mm	65 mm	36 mm	0626 040 330	5
3.5 mm	70 mm	39 mm	0626 040 350	5
4 mm	75 mm	43 mm	0626 040 400	5
4.1 mm	75 mm	43 mm	0626 040 410	5
4.2 mm	75 mm	43 mm	0626 040 420	5
4.5 mm	80 mm	47 mm	0626 040 450	5
5 mm	86 mm	52 mm	0626 040 500	5
5.5 mm	93 mm	57 mm	0626 040 550	3

Continuation **Twist drill bit HSCO, DIN 338, type RN, MAGMA**

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
6 mm	93 mm	57 mm	0626 040 600	3
6.5 mm	101 mm	63 mm	0626 040 650	3
6.8 mm	109 mm	69 mm	0626 040 680	3
7 mm	109 mm	69 mm	0626 040 700	3
7.5 mm	109 mm	69 mm	0626 040 750	3
8 mm	117 mm	75 mm	0626 040 800	3
8.5 mm	117 mm	75 mm	0626 040 850	1
9 mm	125 mm	81 mm	0626 040 900	1
9.5 mm	125 mm	81 mm	0626 040 950	1
10 mm	133 mm	87 mm	0626 041 000	1
10.2 mm	133 mm	87 mm	0626 041 020	1
10.5 mm	133 mm	87 mm	0626 041 050	1
11 mm	142 mm	94 mm	0626 041 100	1
11.5 mm	142 mm	94 mm	0626 041 150	1
12 mm	151 mm	101 mm	0626 041 200	1
12.5 mm	151 mm	101 mm	0626 041 250	1
13 mm	151 mm	101 mm	0626 041 300	1

See overview tables for drill bit/material assignments

Twist drill bit assortment HSCO DIN 338 type RN MAGMA

19 pieces Precise long-life drill with magma coating for processing of stainless steel (e.g. V2A, V4A), heat-resistant steels and titanium. Also suitable for general applications in steel with strength up to 1,200 N/mm² and in cast iron.

- Special Magma multilayer coating for increased service life and increased cutting speed (resistant up to temperatures of 800°C)
- Optimised split point for precise spot drilling without centring, even on curved surfaces



Number of pieces in assortment/set	19 PCS
Surface	Magma multilayer coating
Standard/drilling depth	DIN 338/5xD



Art. no. 0626 040 001

P. Qty.: 1

Contents for art. no. 0626 040 001		
Designation	Art. no.	Quantity
Twist drill bit HSCO, DIN 338, type RN, MAGMA 1 mm	0626 040 100	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 1.5 mm	0626 040 150	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 2 mm	0626 040 200	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 2.5 mm	0626 040 250	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 3 mm	0626 040 300	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 3.5 mm	0626 040 350	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 4 mm	0626 040 400	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 4.5 mm	0626 040 450	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 5 mm	0626 040 500	1

Designation	Art. no.	Quantity
Twist drill bit HSCO, DIN 338, type RN, MAGMA 5.5 mm	0626 040 550	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 6 mm	0626 040 600	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 6.5 mm	0626 040 650	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 7 mm	0626 040 700	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 7.5 mm	0626 040 750	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 8 mm	0626 040 800	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 8.5 mm	0626 040 850	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 9 mm	0626 040 900	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 9.5 mm	0626 040 950	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 10 mm	0626 041 000	1

Twist drill bit assortment HSCO DIN 338 type RN MAGMA

25 pieces Precise long-life drill with magma coating for processing of stainless steel (e.g. V2A, V4A), heat-resistant steels and titanium. Also suitable for general applications in steel with strength up to 1,200 N/mm² and in cast iron.

- Special Magma multilayer coating for increased service life and increased cutting speed (resistant up to temperatures of 800°C)
- Optimised split point for precise spot drilling without centring, even on curved surfaces



Number of pieces in assortment/set	25 PCS
Surface	Magma multilayer coating
Standard/drilling depth	DIN 338/5xD



Art. no. 0626 040 004

P. Qty.: 1

Contents for art. no. 0626 040 004		
Designation	Art. no.	Quantity
Twist drill bit HSCO, DIN 338, type RN, MAGMA 1 mm	0626 040 100	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 1.5 mm	0626 040 150	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 2 mm	0626 040 200	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 2.5 mm	0626 040 250	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 3 mm	0626 040 300	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 3.5 mm	0626 040 350	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 4 mm	0626 040 400	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 4.5 mm	0626 040 450	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 5 mm	0626 040 500	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 5.5 mm	0626 040 550	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 6 mm	0626 040 600	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 6.5 mm	0626 040 650	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 7 mm	0626 040 700	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 7.5 mm	0626 040 750	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 8 mm	0626 040 800	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 8.5 mm	0626 040 850	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 9 mm	0626 040 900	1

Continuation **Twist drill bit assortment HSCO DIN 338 type RN**

MAGMA

Designation	Art. no.	Quantity
Twist drill bit HSCO, DIN 338, type RN, MAGMA 9.5 mm	0626 040 950	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 10 mm	0626 041 000	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 10.5 mm	0626 041 050	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 11 mm	0626 041 100	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 11.5 mm	0626 041 150	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 12 mm	0626 041 200	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 12.5 mm	0626 041 250	1
Twist drill bit HSCO, DIN 338, type RN, MAGMA 13 mm	0626 041 300	1

Twist drill bit HSCO, DIN 338, type RN, MFD VARIO

Premium all-rounder for use in stationary machinery for high-precision machining of virtually all materials, such as stainless steel, heat-resistant steels and titanium, as well as for general applications in conventional steel up to 1200 N/mm² strength, in cast iron and non-ferrous metals (such as magnesium alloys, brass, bronze, plastic).



- Exclusive Vario helix for low friction and fast chip removal
- Special four-surface grinding with optimised point thinning
- Top guidance characteristics and precision (extremely high torsional rigidity) thanks to a combination of double drill heel and single drill heel
- Special Magma multi-layer coating for a long tool life (heat resistant up to 800°C)

Suitable for machine type	Milling/drill center, Pedestal drilling machine
Material to be processed	Steel, Stainless steel, Cast iron, Titanium, Special alloy, Non-ferrous metal
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 338/5xD
Shank style	Cylindrical
Surface	Magma multilayer coating
Cutting material	HSCo
Angle of the tip	118 Degree
Service life (points system)	●●●●
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●●
Drilling behaviour (point system)	●●●●
Self-centring	Yes
Suitable for tensile strength up to	1200 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Type	Art. no.	P. Qty.
1 mm	34 mm	12 mm	RN	0626 050 100	5
1.1 mm	36 mm	14 mm	RN	0626 050 110	5
1.2 mm	38 mm	16 mm	RN	0626 050 120	5
1.3 mm	38 mm	15 mm	RN	0626 050 130	5
1.4 mm	40 mm	18 mm	RN	0626 050 140	5
1.5 mm	40 mm	18 mm	RN	0626 050 150	5
1.6 mm	43 mm	20 mm	RN	0626 050 160	5
1.7 mm	43 mm	20 mm	RN	0626 050 170	5
1.8 mm	46 mm	22 mm	RN	0626 050 180	5
1.85 mm	46 mm	22 mm		0626 050 185	5
1.9 mm	46 mm	22 mm	RN	0626 050 190	5
2 mm	49 mm	24 mm	RN	0626 050 200	5
2.05 mm	49 mm	24 mm	RN	0626 050 205	5
2.1 mm	49 mm	24 mm	RN	0626 050 210	5
2.2 mm	53 mm	27 mm	RN	0626 050 220	5
2.3 mm	53 mm	27 mm	RN	0626 050 230	5
2.35 mm	53 mm	27 mm	RN	0626 050 235	5
2.4 mm	57 mm	30 mm	RN	0626 050 240	5
2.5 mm	57 mm	30 mm	RN	0626 050 250	5
2.6 mm	57 mm	30 mm	RN	0626 050 260	5
2.7 mm	61 mm	33 mm	RN	0626 050 270	5
2.8 mm	61 mm	33 mm	RN	0626 050 280	5
2.85 mm	61 mm	33 mm	RN	0626 050 285	5
2.9 mm	61 mm	33 mm	RN	0626 050 290	5
2.95 mm	61 mm	33 mm	RN	0626 050 295	5
3 mm	61 mm	33 mm	RN	0626 050 300	5
3.1 mm	65 mm	36 mm	RN	0626 050 310	5
3.2 mm	65 mm	36 mm	RN	0626 050 320	5
3.25 mm	65 mm	36 mm		0626 050 325	5
3.3 mm	65 mm	36 mm	RN	0626 050 330	5
3.4 mm	70 mm	39 mm	RN	0626 050 340	5
3.5 mm	70 mm	39 mm	RN	0626 050 350	5
3.6 mm	70 mm	39 mm	RN	0626 050 360	5
3.7 mm	70 mm	39 mm	RN	0626 050 370	5
3.8 mm	75 mm	43 mm	RN	0626 050 380	5
3.9 mm	75 mm	43 mm	RN	0626 050 390	5
4 mm	75 mm	43 mm	RN	0626 050 400	5
4.1 mm	75 mm	43 mm	RN	0626 050 410	5
4.2 mm	75 mm	43 mm	RN	0626 050 420	5
4.3 mm	80 mm	47 mm	RN	0626 050 430	5
4.4 mm	80 mm	47 mm	RN	0626 050 440	5
4.5 mm	80 mm	47 mm	RN	0626 050 450	5
4.6 mm	80 mm	47 mm	RN	0626 050 460	5
4.65 mm	80 mm	47 mm		0626 050 465	5
4.7 mm	80 mm	47 mm	RN	0626 050 470	5
4.8 mm	86 mm	52 mm	RN	0626 050 480	5
4.9 mm	86 mm	52 mm	RN	0626 050 490	5
5 mm	86 mm	52 mm	RN	0626 050 500	5
5.1 mm	86 mm	52 mm	RN	0626 050 510	3
5.2 mm	86 mm	52 mm	RN	0626 050 520	3
5.3 mm	86 mm	52 mm	RN	0626 050 530	3
5.4 mm	93 mm	57 mm	RN	0626 050 540	3
5.5 mm	93 mm	57 mm	RN	0626 050 550	3
5.55 mm	93 mm	57 mm		0626 050 555	3
5.6 mm	93 mm	57 mm	RN	0626 050 560	3

Continuation **Twist drill bit HSCO, DIN 338, type RN, MFD VARIO**

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Type	Art. no.	P. Qty.
5.7 mm	93 mm	57 mm	RN	0626 050 570	3
5.8 mm	93 mm	57 mm	RN	0626 050 580	3
5.9 mm	93 mm	57 mm	RN	0626 050 590	3
6 mm	93 mm	57 mm	RN	0626 050 600	3
6.1 mm	101 mm	63 mm	RN	0626 050 610	3
6.2 mm	101 mm	63 mm	RN	0626 050 620	3
6.3 mm	101 mm	63 mm	RN	0626 050 630	3
6.4 mm	101 mm	63 mm	RN	0626 050 640	3
6.5 mm	101 mm	63 mm	RN	0626 050 650	3
6.6 mm	101 mm	63 mm	RN	0626 050 660	3
6.7 mm	101 mm	63 mm	RN	0626 050 670	3
6.8 mm	109 mm	69 mm	RN	0626 050 680	3
6.9 mm	109 mm	69 mm	RN	0626 050 690	3
7 mm	109 mm	69 mm	RN	0626 050 700	3
7.1 mm	109 mm	69 mm	RN	0626 050 710	3
7.2 mm	109 mm	69 mm	RN	0626 050 720	3
7.3 mm	109 mm	69 mm	RN	0626 050 730	3
7.4 mm	109 mm	69 mm	RN	0626 050 740	3
7.5 mm	109 mm	69 mm	RN	0626 050 750	3
7.6 mm	117 mm	75 mm	RN	0626 050 760	3
7.7 mm	117 mm	75 mm	RN	0626 050 770	3
7.8 mm	117 mm	75 mm	RN	0626 050 780	3
7.9 mm	117 mm	75 mm	RN	0626 050 790	3
8 mm	117 mm	75 mm	RN	0626 050 800	3
8.1 mm	117 mm	75 mm	RN	0626 050 810	1
8.2 mm	117 mm	75 mm	RN	0626 050 820	1
8.3 mm	117 mm	75 mm	RN	0626 050 830	1
8.4 mm	117 mm	75 mm	RN	0626 050 840	1
8.5 mm	117 mm	75 mm	RN	0626 050 850	1
8.6 mm	125 mm	81 mm	RN	0626 050 860	1
8.7 mm	125 mm	81 mm	RN	0626 050 870	1
8.8 mm	125 mm	81 mm	RN	0626 050 880	1
8.9 mm	125 mm	81 mm	RN	0626 050 890	1
9 mm	125 mm	81 mm	RN	0626 050 900	1
9.1 mm	125 mm	81 mm	RN	0626 050 910	1
9.2 mm	125 mm	81 mm	RN	0626 050 920	1
9.3 mm	125 mm	81 mm	RN	0626 050 930	1
9.4 mm	125 mm	81 mm	RN	0626 050 940	1
9.5 mm	125 mm	81 mm	RN	0626 050 950	1
9.6 mm	133 mm	87 mm	RN	0626 050 960	1
9.7 mm	133 mm	87 mm	RN	0626 050 970	1
9.8 mm	133 mm	87 mm	RN	0626 050 980	1
9.9 mm	133 mm	87 mm	RN	0626 050 990	1
10 mm	133 mm	87 mm	RN	0626 051 000	1
10.1 mm	133 mm	87 mm	RN	0626 051 010	1
10.2 mm	133 mm	87 mm	RN	0626 051 020	1
10.3 mm	133 mm	87 mm	RN	0626 051 030	1
10.4 mm	133 mm	87 mm	RN	0626 051 040	1
10.5 mm	133 mm	87 mm	RN	0626 051 050	1
10.6 mm	133 mm	87 mm	RN	0626 051 060	1
10.7 mm	142 mm	94 mm	RN	0626 051 070	1
10.8 mm	142 mm	94 mm	RN	0626 051 080	1

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Type	Art. no.	P. Qty.
10.9 mm	142 mm	94 mm	RN	0626 051 090	1
11 mm	142 mm	94 mm	RN	0626 051 100	1
11.1 mm	142 mm	94 mm	RN	0626 051 110	1
11.2 mm	142 mm	94 mm	RN	0626 051 120	1
11.3 mm	142 mm	94 mm	RN	0626 051 130	1
11.4 mm	142 mm	94 mm	RN	0626 051 140	1
11.5 mm	142 mm	94 mm	RN	0626 051 150	1
11.6 mm	142 mm	94 mm	RN	0626 051 160	1
11.7 mm	142 mm	94 mm	RN	0626 051 170	1
11.8 mm	142 mm	94 mm	RN	0626 051 180	1
11.9 mm	151 mm	101 mm	RN	0626 051 190	1
12 mm	151 mm	101 mm	RN	0626 051 200	1
12.1 mm	151 mm	101 mm	RN	0626 051 210	1
12.2 mm	151 mm	101 mm	RN	0626 051 220	1
12.3 mm	151 mm	101 mm	RN	0626 051 230	1
12.4 mm	151 mm	101 mm	RN	0626 051 240	1
12.5 mm	151 mm	101 mm	RN	0626 051 250	1
12.6 mm	151 mm	101 mm	RN	0626 051 260	1
12.7 mm	151 mm	101 mm	RN	0626 051 270	1
12.8 mm	151 mm	101 mm	RN	0626 051 280	1
12.9 mm	151 mm	101 mm	RN	0626 051 290	1
13 mm	151 mm	101 mm	RN	0626 051 300	1
13.1 mm	151 mm	101 mm	RN	0626 051 310	1
13.5 mm	160 mm	108 mm	RN	0626 051 350	1
14 mm	160 mm	108 mm	RN	0626 051 400	1
14.2 mm	169 mm	114 mm	RN	0626 051 420	1
14.5 mm	169 mm	114 mm	RN	0626 051 450	1
15 mm	169 mm	114 mm	RN	0626 051 500	1
15.1 mm	178 mm	120 mm		0626 051 510	1
15.5 mm	178 mm	120 mm	RN	0626 051 550	1
16 mm	178 mm	120 mm	RN	0626 051 600	1
16.5 mm	184 mm	125 mm	RN	0626 051 650	1
17 mm	184 mm	125 mm	RN	0626 051 700	1
17.5 mm	191 mm	130 mm	RN	0626 051 750	1
18 mm	191 mm	130 mm	RN	0626 051 800	1
18.5 mm	198 mm	135 mm	RN	0626 051 850	1
18.9 mm	198 mm	135 mm		0626 051 890	1
19 mm	198 mm	135 mm	RN	0626 051 900	1
19.5 mm	205 mm	140 mm	RN	0626 051 950	1
20 mm	205 mm	140 mm	RN	0626 052 000	1

See overview tables for drill bit/material assignments

Twist drill bit assortment HSCO DIN 338 type RN MFD VARIO

19 pieces. Premium all-rounder for use in stationary machines for highly accurate processing of almost all materials, e.g. stainless steel, heat-resistant steels and titanium and for general applications in conventional steel up to a strength of 1,200 N/mm² in cast iron and non-ferrous metals (such as magnesium alloys, brass, bronze, plastic).



- Exclusive Vario coil for low friction and rapid chip removal
- Special 4-faced polished section with optimised tip
- Superb guiding and accuracy (extremely high torsional rigidity) thanks to the combination of double drill heel and single drill heel
- Special Magma multilayer coating for a long service life (heat-resistant up to 800°C)



Number of pieces in assortment/set	19 PCS
Surface	Magma multilayer coating
Standard/drilling depth	DIN 338/5xD

Art. no. 0626 050 001

P. Qty.: 1

Contents for art. no. 0626 050 001		
Designation	Art. no.	Quantity
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 1 mm	0626 050 100	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 1.5 mm	0626 050 150	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 2 mm	0626 050 200	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 2.5 mm	0626 050 250	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 3 mm	0626 050 300	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 3.5 mm	0626 050 350	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 4 mm	0626 050 400	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 4.5 mm	0626 050 450	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 5 mm	0626 050 500	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 5.5 mm	0626 050 550	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 6 mm	0626 050 600	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 6.5 mm	0626 050 650	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 7 mm	0626 050 700	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 7.5 mm	0626 050 750	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 8 mm	0626 050 800	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 8.5 mm	0626 050 850	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 9 mm	0626 050 900	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 9.5 mm	0626 050 950	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 10 mm	0626 051 000	1

Twist drill bit assortment HSCO DIN 338 type RN MFD VARIO

25 pieces. Premium all-rounder for use in stationary machines for highly accurate processing of almost all materials, e.g. stainless steel, heat-resistant steels and titanium and for general applications in conventional steel up to a strength of 1,200 N/mm² in cast iron and non-ferrous metals (such as magnesium alloys, brass, bronze, plastic).

- Exclusive Vario coil for low friction and rapid chip removal
- Special 4-faced polished section with optimised tip
- Superb guiding and accuracy (extremely high torsional rigidity) thanks to the combination of double drill heel and single drill heel
- Special Magma multilayer coating for a long service life (heat-resistant up to 800°C)



Number of pieces in assortment/set	25 PCS
Surface	Magma multilayer coating
Standard/drilling depth	DIN 338/5xD

Art. no. 0626 050 004

P. Qty.: 1

Contents for art. no. 0626 050 004		
Designation	Art. no.	Quantity
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 1 mm	0626 050 100	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 1.5 mm	0626 050 150	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 2 mm	0626 050 200	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 2.5 mm	0626 050 250	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 3 mm	0626 050 300	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 3.5 mm	0626 050 350	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 4 mm	0626 050 400	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 4.5 mm	0626 050 450	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 5 mm	0626 050 500	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 5.5 mm	0626 050 550	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 6 mm	0626 050 600	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 6.5 mm	0626 050 650	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 7 mm	0626 050 700	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 7.5 mm	0626 050 750	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 8 mm	0626 050 800	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 8.5 mm	0626 050 850	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 9 mm	0626 050 900	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 9.5 mm	0626 050 950	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 10 mm	0626 051 000	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 10.5 mm	0626 051 050	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 11 mm	0626 051 100	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 11.5 mm	0626 051 150	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 12 mm	0626 051 200	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 12.5 mm	0626 051 250	1
Twist drill bit HSCO, DIN 338, type RN, MFD VARIO 13 mm	0626 051 300	1

Twist drill bit HSCO DIN 340 type RN OXIDE

Long, precise, high-performance drill for deep drilling in stainless steel (e.g. V2A, V4A), heat-resistant steels and titanium. Also suitable for general broader applications in steel with strength up to 1,000 N/mm² and in cast iron.



- Rapid drilling with perfect chip removal thanks to large chipping spaces and small core
- Highly precise tip grinding for precise drilling

Suitable for machine type	Drill, Cordless screwdrivers, Pedestal drilling machine
Material to be processed	Steel, Cast iron, Stainless steel, Titanium
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 340/10xD
Shank style	Cylindrical
Surface	Oxide finish
Cutting material	HSCo
Type	RN
Angle of the tip	130 Degree
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	1000 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
1 mm	56 mm	33 mm	0626 200 100	10
1.5 mm	70 mm	45 mm	0626 200 150	10
2 mm	85 mm	56 mm	0626 200 200	10
2.5 mm	95 mm	62 mm	0626 200 250	10
3 mm	100 mm	66 mm	0626 200 300	10
3.2 mm	106 mm	69 mm	0626 200 320	10
3.3 mm	106 mm	69 mm	0626 200 330	10
3.5 mm	112 mm	73 mm	0626 200 350	10
4 mm	119 mm	78 mm	0626 200 400	10
4.1 mm	119 mm	78 mm	0626 200 410	10
4.2 mm	119 mm	78 mm	0626 200 420	10
4.5 mm	126 mm	82 mm	0626 200 450	10
5 mm	132 mm	87 mm	0626 200 500	10
5.5 mm	139 mm	91 mm	0626 200 550	5
6 mm	139 mm	91 mm	0626 200 600	5
6.5 mm	148 mm	97 mm	0626 200 650	5
6.8 mm	156 mm	102 mm	0626 200 680	5
7 mm	156 mm	102 mm	0626 200 700	5
7.5 mm	156 mm	102 mm	0626 200 750	5
8 mm	165 mm	109 mm	0626 200 800	5
8.5 mm	165 mm	109 mm	0626 200 850	1
9 mm	175 mm	115 mm	0626 200 900	1
9.5 mm	175 mm	115 mm	0626 200 950	1

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
10 mm	184 mm	121 mm	0626 201 000	1
10.2 mm	184 mm	121 mm	0626 201 020	1
10.5 mm	184 mm	121 mm	0626 201 050	1
11 mm	195 mm	128 mm	0626 201 100	1
11.5 mm	195 mm	128 mm	0626 201 150	1
12 mm	205 mm	134 mm	0626 201 200	1
12.5 mm	205 mm	134 mm	0626 201 250	1
13 mm	205 mm	134 mm	0626 201 300	1

- When using the twist drill according to DIN 340, prior drilling of a centring bore is recommended. Our NC spotting drills (art. no. 063644 etc.) are perfectly suited to this.
- Also recommended in conventional steel if longer service life compared to uncoated HSS drills is a priority.
- See overview tables for drill/material assignments

Twist drill bit HSCO DIN 345 type RN

The powerful stainless steel morse taper drill for column-type drills for processing stainless steel (e.g. V2A, V4A), heat-resistant steels and titanium. Also suitable for general broader applications in steel with strength up to 1,000 N/mm² and in cast iron.



- Optimum cross-grinding for highly accurate drilling without centring, even on curved surfaces
- Vaporised surface for excellent adhesion of cooling lubricants and a reduced tendency towards build-up

Suitable for machine type	Pedestal drilling machine
Material to be processed	Steel, Cast iron, Stainless steel, Titanium
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 345/5xD
Shank style	Morse taper
Surface	Vaporised
Cutting material	HSCo
Type	RN
Angle of the tip	118 Degree
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	1000 N/mm ²

Diameter (Ø)	Suitable for morse taper tools	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
10 mm	MK 1	168 mm	87 mm	0626 301 000	1
10.5 mm	MK 1	168 mm	87 mm	0626 301 050	1
11 mm	MK 1	175 mm	94 mm	0626 301 100	1
11.5 mm	MK 1	175 mm	94 mm	0626 301 150	1
12 mm	MK 1	182 mm	101 mm	0626 301 200	1

Continuation **Twist drill bit HSCO DIN 345 type RN**

Diameter (Ø)	Suitable for morse taper tools	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
12.5 mm	MK 1	182 mm	101 mm	0626 301 250	1
13 mm	MK 1	182 mm	101 mm	0626 301 300	1
13.5 mm	MK 1	189 mm	108 mm	0626 301 350	1
14 mm	MK 1	189 mm	108 mm	0626 301 400	1
14.5 mm	MK 2	212 mm	114 mm	0626 301 450	1
15 mm	MK 2	212 mm	114 mm	0626 301 500	1
15.5 mm	MK 2	218 mm	120 mm	0626 301 550	1
16 mm	MK 2	218 mm	120 mm	0626 301 560	1
16.5 mm	MK 2	223 mm	125 mm	0626 301 650	1
17 mm	MK 2	223 mm	125 mm	0626 301 700	1
17.5 mm	MK 2	228 mm	130 mm	0626 301 750	1
18 mm	MK 2	228 mm	130 mm	0626 301 800	1
18.5 mm	MK 2	233 mm	135 mm	0626 301 850	1
19 mm	MK 2	233 mm	135 mm	0626 301 900	1
19.5 mm	MK 2	238 mm	140 mm	0626 301 950	1
20 mm	MK 2	238 mm	140 mm	0626 302 000	1
20.5 mm	MK 2	243 mm	145 mm	0626 302 050	1
21 mm	MK 2	243 mm	145 mm	0626 302 100	1
21.5 mm	MK 2	248 mm	150 mm	0626 302 150	1
22 mm	MK 2	248 mm	150 mm	0626 302 200	1
22.5 mm	MK 2	253 mm	155 mm	0626 302 250	1
23 mm	MK 2	253 mm	155 mm	0626 302 300	1
23.5 mm	MK 3	276 mm	155 mm	0626 302 350	1
24 mm	MK 3	281 mm	160 mm	0626 302 400	1
24.5 mm	MK 3	281 mm	160 mm	0626 302 450	1
25 mm	MK 3	281 mm	160 mm	0626 302 500	1
25.5 mm	MK 3	286 mm	165 mm	0626 302 550	1
26 mm	MK 3	286 mm	165 mm	0626 302 600	1
26.5 mm	MK 3	286 mm	165 mm	0626 302 650	1
27 mm	MK 3	291 mm	170 mm	0626 302 700	1
27.5 mm	MK 3	291 mm	170 mm	0626 302 750	1
28 mm	MK 3	291 mm	170 mm	0626 302 800	1
28.5 mm	MK 3	296 mm	175 mm	0626 302 850	1
29 mm	MK 3	296 mm	175 mm	0626 302 900	1
29.5 mm	MK 3	296 mm	175 mm	0626 302 950	1
30 mm	MK 3	296 mm	175 mm	0626 303 000	1
30.5 mm	MK 3	301 mm	180 mm	0626 303 050	1
31 mm	MK 3	301 mm	180 mm	0626 303 100	1
31.5 mm	MK 3	301 mm	180 mm	0626 303 150	1
32 mm	MK 4	334 mm	185 mm	0626 303 200	1
32.5 mm	MK 4	334 mm	185 mm	0626 303 250	1
33 mm	MK 4	334 mm	185 mm	0626 303 300	1
33.5 mm	MK 4	334 mm	185 mm	0626 303 350	1
34 mm	MK 4	339 mm	190 mm	0626 303 400	1
34.5 mm	MK 4	339 mm	190 mm	0626 303 450	1
35 mm	MK 4	339 mm	190 mm	0626 303 500	1
35.5 mm	MK 4	339 mm	190 mm	0626 303 550	1
36 mm	MK 4	344 mm	195 mm	0626 303 600	1
36.5 mm	MK 4	344 mm	195 mm	0626 303 650	1
37 mm	MK 4	344 mm	195 mm	0626 303 700	1
37.5 mm	MK 4	344 mm	195 mm	0626 303 750	1
38 mm	MK 4	349 mm	200 mm	0626 303 800	1

Diameter (Ø)	Suitable for morse taper tools	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
38.5 mm	MK 4	349 mm	200 mm	0626 303 850	1
39 mm	MK 4	349 mm	200 mm	0626 303 900	1
39.5 mm	MK 4	349 mm	200 mm	0626 303 950	1
40 mm	MK 4	349 mm	200 mm	0626 304 000	1

See overview tables for drill/material assignments

Twist drill bit assortment HSCo DIN 338 type RN bronze tipped

19 pieces. Affordable, robust assembly drill bits for machining stainless steel and heat-resistant steels.

Also suitable for general, broad applications in steel up to 1000 N/mm² strength, as well as in cast iron.

- Self-centring, extremely robust, quiet drilling and high degree of break resistance thanks to combination of form A and form C point thinning
- Robust and durable design, ideal for construction site and assembly applications



Number of pieces in assortment/set	19 PCS
Surface	Bronze
Standard/drilling depth	DIN 338/5xD

Art. no. 0635 010 001

P. Qty.: 1

See overview tables for drill bit/material assignments

Twist drill bit assortment HSCo DIN 338 type RN bronze tipped

82-piece in system case. Affordable, robust assembly drill bits for machining stainless steel and heat-resistant steels. Also suitable for general, broad applications in steel up to 1000 N/mm² strength, as well as in cast iron.

- Self-centring, extremely robust, quiet drilling and high degree of break resistance thanks to combination of form A and form C point thinning
- Robust and durable design, ideal for construction site and assembly applications



ORSY

Number of pieces in assortment/set	82 PCS
Surface	Bronze
Standard/drilling depth	DIN 338/5xD

Art. no. 5964 063 501

P. Qty.: 1

See overview tables for drill bit/material assignments

Twist drill bit assortment HSCO DIN 338 type RN Oxide

25 pieces. Precise high-performance drill bit for machining stainless steel (such as V2A, V4A), heat-resistant steels and titanium. Also suitable for general, broad applications in steel up 1000 N/mm² strength, as well as in cast iron.



- Rapid drilling with perfect chip removal thanks to large chip spaces and small core
- Very precise point geometry for accurate drill holes

Number of pieces in assortment/set	25 PCS
Surface	Oxide finish
Standard/drilling depth	DIN 338/5xD



Art. no. 0626 000 004

P. Qty.: 1

Contents for art. no. 0626 000 004

Designation	Art. no.	Quantity
Twist drill bit HSCO DIN 338 type RN oxide 1 mm	0626 000 100	1
Twist drill bit HSCO DIN 338 type RN oxide 1.5 mm	0626 000 150	1
Twist drill bit HSCO DIN 338 type RN oxide 2 mm	0626 000 200	1
Twist drill bit HSCO DIN 338 type RN oxide 2.5 mm	0626 000 250	1
Twist drill bit HSCO DIN 338 type RN oxide 3 mm	0626 000 300	1
Twist drill bit HSCO DIN 338 type RN oxide 3.5 mm	0626 000 350	1
Twist drill bit HSCO DIN 338 type RN oxide 4 mm	0626 000 400	1
Twist drill bit HSCO DIN 338 type RN oxide 4.5 mm	0626 000 450	1
Twist drill bit HSCO DIN 338 type RN oxide 5 mm	0626 000 500	1
Twist drill bit HSCO DIN 338 type RN oxide 5.5 mm	0626 000 550	1
Twist drill bit HSCO DIN 338 type RN oxide 6 mm	0626 000 600	1
Twist drill bit HSCO DIN 338 type RN oxide 6.5 mm	0626 000 650	1
Twist drill bit HSCO DIN 338 type RN oxide 7 mm	0626 000 700	1
Twist drill bit HSCO DIN 338 type RN oxide 7.5 mm	0626 000 750	1
Twist drill bit HSCO DIN 338 type RN oxide 8 mm	0626 000 800	1
Twist drill bit HSCO DIN 338 type RN oxide 8.5 mm	0626 000 850	1
Twist drill bit HSCO DIN 338 type RN oxide 9 mm	0626 000 900	1
Twist drill bit HSCO DIN 338 type RN oxide 9.5 mm	0626 000 950	1
Twist drill bit HSCO DIN 338 type RN oxide 10 mm	0626 001 000	1
Twist drill bit HSCO DIN 338 type RN oxide 10.5 mm	0626 001 050	1
Twist drill bit HSCO DIN 338 type RN oxide 11 mm	0626 001 100	1
Twist drill bit HSCO DIN 338 type RN oxide 11.5 mm	0626 001 150	1
Twist drill bit HSCO DIN 338 type RN oxide 12 mm	0626 001 200	1
Twist drill bit HSCO DIN 338 type RN oxide 12.5 mm	0626 001 250	1
Twist drill bit HSCO DIN 338 type RN oxide 13 mm	0626 001 300	1

Twist drill bit assortment HSCO DIN 338 type RN Oxide

19 pieces. Precise high-performance drill bit for machining stainless steel (such as V2A, V4A), heat-resistant steels and titanium. Also suitable for general, broad applications in steel up 1000 N/mm² strength, as well as in cast iron.

- Rapid drilling with perfect chip removal thanks to large chip spaces and small core
- Very precise point geometry for accurate drill holes



Number of pieces in assortment/set	19 PCS
Surface	Oxide finish
Standard/drilling depth	DIN 338/5xD



Art. no. 0626 000 002

P. Qty.: 1

Contents for art. no. 0626 000 002		
Designation	Art. no.	Quantity
Twist drill bit HSCO DIN 338 type RN oxide 1 mm	0626 000 100	1
Twist drill bit HSCO DIN 338 type RN oxide 1.5 mm	0626 000 150	1
Twist drill bit HSCO DIN 338 type RN oxide 2 mm	0626 000 200	1
Twist drill bit HSCO DIN 338 type RN oxide 2.5 mm	0626 000 250	1
Twist drill bit HSCO DIN 338 type RN oxide 3 mm	0626 000 300	1
Twist drill bit HSCO DIN 338 type RN oxide 3.5 mm	0626 000 350	1
Twist drill bit HSCO DIN 338 type RN oxide 4 mm	0626 000 400	1
Twist drill bit HSCO DIN 338 type RN oxide 4.5 mm	0626 000 450	1
Twist drill bit HSCO DIN 338 type RN oxide 5 mm	0626 000 500	1
Twist drill bit HSCO DIN 338 type RN oxide 5.5 mm	0626 000 550	1
Twist drill bit HSCO DIN 338 type RN oxide 6 mm	0626 000 600	1
Twist drill bit HSCO DIN 338 type RN oxide 6.5 mm	0626 000 650	1
Twist drill bit HSCO DIN 338 type RN oxide 7 mm	0626 000 700	1
Twist drill bit HSCO DIN 338 type RN oxide 7.5 mm	0626 000 750	1
Twist drill bit HSCO DIN 338 type RN oxide 8 mm	0626 000 800	1
Twist drill bit HSCO DIN 338 type RN oxide 8.5 mm	0626 000 850	1
Twist drill bit HSCO DIN 338 type RN oxide 9 mm	0626 000 900	1
Twist drill bit HSCO DIN 338 type RN oxide 9.5 mm	0626 000 950	1
Twist drill bit HSCO DIN 338 type RN oxide 10 mm	0626 001 000	1

Twist drill bit assortment HSCo8 WN MAGMA

19 pieces The extremely long-lasting drill with Magma multi-layer coating and 8% cobalt alloy for universal processing of conventional steels, titanium and hard-to-machine materials (e.g. Hardox) with extremely high strengths up to 1550 N/mm².

- Exceptionally high drilling stability and cutting force, extra-high breakage resistance
- Special Magma multilayer coating and 8% cobalt alloy
- Outstanding centring during work and reduction in force required



Number of pieces in assortment/set	19 PCS
Surface	Magma multilayer coating



Art. no. 0618 940 001

P. Qty.: 1

Twist drill bit assortment HSCo8 WN MAGMA

25 pieces The extremely long-lasting drill with Magma multi-layer coating and 8% cobalt alloy for universal processing of conventional steels, titanium and hard-to-machine materials (e.g. Hardox) with extremely high strengths up to 1550 N/mm².

- Exceptionally high drilling stability and cutting force, extra-high breakage resistance
- Special Magma multilayer coating and 8% cobalt alloy
- Outstanding centring during work and reduction in force required



Number of pieces in assortment/set	25 PCS
Surface	Magma multilayer coating



Art. no. 0618 940 004

P. Qty.: 1



Twist drill bit HSCo8 WN TYPE RH

The extra stable morse taper drill bit with 8% cobalt alloy for column drills for working with hard-to-machine materials (e.g. Hardox) with extremely high strengths of up to 1,400 N/mm², such as excavator shovels, lorry attachments, armour plating, snow ploughs, agricultural machinery, etc.

- Highest level of stability and cutting power due to extra-short drilling section and strengthened core
- Optimised cutting edge and special flat spiral angle for high breakage protection



Suitable for machine type	Pedestal drilling machine
Material to be processed	Hard and tough material
Quality	ZEBRA-Premium
Standard/drilling depth	CS/3xD
Shank style	Morse taper
Surface	Vaporised
Cutting material	HSCo8
Type	RH
Angle of the tip	130 Degree
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●○
Versatility (points system)	●●○
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	1400 N/mm ²

Diameter (Ø)	Suitable for morse taper tools	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
8 mm	MK 1	124 mm	43 mm	0618 300 800	1
9 mm	MK 1	127 mm	46 mm	0618 300 900	1
10 mm	MK 1	131 mm	50 mm	0618 301 000	1
11 mm	MK 1	136 mm	55 mm	0618 301 100	1
12 mm	MK 2	157 mm	59 mm	0618 301 200	1
13 mm	MK 2	157 mm	59 mm	0618 301 300	1
14 mm	MK 2	161 mm	63 mm	0618 301 400	1
15 mm	MK 2	164 mm	66 mm	0618 301 500	1
16 mm	MK 2	168 mm	70 mm	0618 301 600	1
17 mm	MK 2	171 mm	73 mm	0618 301 700	1
17.5 mm	MK 2	171 mm	73 mm	0618 301 750	1
18 mm	MK 2	175 mm	77 mm	0618 301 800	1
19 mm	MK 3	201 mm	80 mm	0618 301 900	1
20 mm	MK 3	204 mm	83 mm	0618 302 000	1
21 mm	MK 3	208 mm	87 mm	0618 302 100	1
22 mm	MK 3	211 mm	90 mm	0618 302 200	1
23 mm	MK 3	215 mm	94 mm	0618 302 300	1
24 mm	MK 3	219 mm	98 mm	0618 302 400	1
25 mm	MK 3	219 mm	98 mm	0618 302 500	1
26 mm	MK 3	224 mm	103 mm	0618 302 600	1

Continuation **Twist drill bit HSCo8 WN TYPE RH**

Diameter (Ø)	Suitable for morse taper tools	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
27 mm	MK 4	256 mm	107 mm	0618 302 700	1
28 mm	MK 4	256 mm	107 mm	0618 302 800	1
29 mm	MK 4	261 mm	112 mm	0618 302 900	1
30 mm	MK 4	261 mm	112 mm	0618 303 000	1
31 mm	MK 4	266 mm	117 mm	0618 303 100	1
32 mm	MK 4	271 mm	122 mm	0618 303 200	1
33 mm	MK 4	271 mm	122 mm	0618 303 300	1
34 mm	MK 4	277 mm	128 mm	0618 303 400	1
35 mm	MK 4	277 mm	128 mm	0618 303 500	1
36 mm	MK 4	282 mm	132 mm	0618 303 600	1
37 mm	MK 4	282 mm	132 mm	0618 303 700	1
38 mm	MK 4	288 mm	139 mm	0618 303 800	1
39 mm	MK 4	288 mm	139 mm	0618 303 900	1
40 mm	MK 4	288 mm	139 mm	0618 304 000	1

See overview tables for drill bit/material assignments

Twist drill HSCo8 WN MAGMA

The extremely long-lasting drill with Magma multi-layer coating and 8% cobalt alloy for universal processing of conventional steels, titanium and hard-to-machine materials (e.g. Hardox) with extremely high strengths up to 1550 N/mm².

- Exceptionally high drilling stability and cutting force, extra-high breakage resistance
- Special Magma multilayer coating and 8% cobalt alloy
- Outstanding centring during work and reduction in force required



Suitable for machine type	Drill, Cordless screwdrivers, Pedestal drilling machine, Milling/drill center
Material to be processed	Hard and tough material
Quality	ZEBRA-Premium
Standard/drilling depth	CS/3xD
Shank style	Cylindrical
Surface	Magma multilayer coating
Cutting material	HSCo8
Type	RH
Angle of the tip	135 Degree
Service life (points system)	●●●●
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●○○
Drilling behaviour (point system)	●●●●
Self-centring	Yes
Suitable for tensile strength up to	1550 N/mm²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
1 mm	34 mm	6 mm	0618 940 100	10
1.5 mm	40 mm	9 mm	0618 940 150	10
2 mm	49 mm	12 mm	0618 940 200	10
2.5 mm	57 mm	14 mm	0618 940 250	10
3 mm	61 mm	16 mm	0618 940 300	10
3.2 mm	65 mm	18 mm	0618 940 320	10
3.3 mm	65 mm	18 mm	0618 940 330	10
3.5 mm	70 mm	20 mm	0618 940 350	10
4 mm	75 mm	22 mm	0618 940 400	10
4.2 mm	75 mm	22 mm	0618 940 420	10
4.5 mm	80 mm	24 mm	0618 940 450	10
5 mm	86 mm	26 mm	0618 940 500	10
5.5 mm	93 mm	28 mm	0618 940 550	5
6 mm	93 mm	28 mm	0618 940 600	5
6.5 mm	101 mm	31 mm	0618 940 650	5
6.8 mm	101 mm	34 mm	0618 940 680	5
7 mm	109 mm	34 mm	0618 940 700	5
7.5 mm	109 mm	34 mm	0618 940 750	5
8 mm	117 mm	37 mm	0618 940 800	5
8.5 mm	117 mm	37 mm	0618 940 850	1
9 mm	125 mm	40 mm	0618 940 900	1
9.5 mm	125 mm	40 mm	0618 940 950	1
10 mm	133 mm	43 mm	0618 941 000	1
10.2 mm	133 mm	43 mm	0618 941 020	1
10.5 mm	133 mm	43 mm	0618 941 050	1
11 mm	142 mm	47 mm	0618 941 100	1
11.5 mm	142 mm	47 mm	0618 941 150	1
12 mm	151 mm	51 mm	0618 941 200	1
12.5 mm	151 mm	51 mm	0618 941 250	1
13 mm	151 mm	51 mm	0618 941 300	1

HPT twist drill, extra short, DIN 1897

With Forte special profile for optimised chip formation. Particularly suitable for use on machining centres and turning machines. Wide application range in all, preferably long-chipping materials up to approx. 1300 N/mm², also for stainless austenitic steels. Suitable for dry machining in steel materials.



CNC|TEC

Product code	900
Material to be processed	Steel, Cast metal, Stainless steel
Standard/drilling depth	DIN 1897/3xD
Design	Extra short
Shank style	Cylindrical
Surface	TiAlN
Cutting material	HSCo-PM
Angle of the tip	130 Degree
Suitable for tensile strength up to	1300 N/mm ²

Continuation **HPT twist drill, extra short, DIN 1897**

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
2.8 mm	49 mm	18 mm	5443 810 001	1
2.9 mm	49 mm	18 mm	5443 810 002	1
3 mm	49 mm	18 mm	5443 810 003	1
3.1 mm	52 mm	20 mm	5443 810 004	1
3.2 mm	52 mm	20 mm	5443 810 005	1
3.3 mm	52 mm	20 mm	5443 810 006	1
3.4 mm	55 mm	22 mm	5443 810 007	1
3.5 mm	55 mm	22 mm	5443 810 008	1
3.6 mm	55 mm	22 mm	5443 810 009	1
3.7 mm	55 mm	22 mm	5443 810 010	1
3.8 mm	55 mm	22 mm	5443 810 011	1
3.9 mm	55 mm	22 mm	5443 810 012	1
4 mm	55 mm	22 mm	5443 810 013	1
4.1 mm	55 mm	22 mm	5443 810 014	1
4.2 mm	55 mm	22 mm	5443 810 015	1
4.3 mm	58 mm	24 mm	5443 810 016	1
4.4 mm	58 mm	24 mm	5443 810 017	1
4.5 mm	58 mm	24 mm	5443 810 018	1
4.6 mm	58 mm	24 mm	5443 810 019	1
4.65 mm	58 mm	24 mm	5443 810 020	1
4.7 mm	58 mm	24 mm	5443 810 021	1
4.8 mm	62 mm	26 mm	5443 810 022	1
4.9 mm	62 mm	26 mm	5443 810 023	1
5 mm	62 mm	26 mm	5443 810 024	1
5.1 mm	62 mm	26 mm	5443 810 025	1
5.2 mm	62 mm	26 mm	5443 810 026	1
5.3 mm	62 mm	26 mm	5443 810 027	1
5.4 mm	66 mm	28 mm	5443 810 028	1
5.5 mm	66 mm	28 mm	5443 810 029	1
5.55 mm	66 mm	28 mm	5443 810 030	1
5.6 mm	66 mm	28 mm	5443 810 031	1
5.7 mm	66 mm	28 mm	5443 810 032	1
5.8 mm	66 mm	28 mm	5443 810 033	1
5.9 mm	66 mm	28 mm	5443 810 034	1
6 mm	66 mm	28 mm	5443 810 035	1
6.1 mm	70 mm	31 mm	5443 810 036	1
6.2 mm	70 mm	31 mm	5443 810 037	1
6.3 mm	70 mm	31 mm	5443 810 038	1
6.4 mm	70 mm	31 mm	5443 810 039	1
6.5 mm	70 mm	31 mm	5443 810 040	1
6.6 mm	70 mm	31 mm	5443 810 041	1
6.7 mm	70 mm	31 mm	5443 810 042	1
6.8 mm	74 mm	34 mm	5443 810 043	1
6.9 mm	74 mm	34 mm	5443 810 044	1
7 mm	74 mm	34 mm	5443 810 045	1
7.1 mm	74 mm	34 mm	5443 810 046	1
7.2 mm	74 mm	34 mm	5443 810 047	1
7.3 mm	74 mm	34 mm	5443 810 048	1
7.4 mm	74 mm	34 mm	5443 810 049	1
7.5 mm	74 mm	34 mm	5443 810 050	1
7.6 mm	79 mm	37 mm	5443 810 051	1
7.7 mm	79 mm	37 mm	5443 810 052	1
7.8 mm	79 mm	37 mm	5443 810 053	1

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
7.9 mm	79 mm	37 mm	5443 810 054	1
8 mm	79 mm	37 mm	5443 810 055	1
8.1 mm	79 mm	37 mm	5443 810 056	1
8.2 mm	79 mm	37 mm	5443 810 057	1
8.3 mm	79 mm	37 mm	5443 810 058	1
8.4 mm	79 mm	37 mm	5443 810 059	1
8.5 mm	79 mm	37 mm	5443 810 060	1
8.6 mm	84 mm	40 mm	5443 810 061	1
8.7 mm	84 mm	40 mm	5443 810 062	1
8.8 mm	84 mm	40 mm	5443 810 063	1
8.9 mm	84 mm	40 mm	5443 810 064	1
9 mm	84 mm	40 mm	5443 810 065	1
9.1 mm	84 mm	40 mm	5443 810 066	1
9.2 mm	84 mm	40 mm	5443 810 067	1
9.3 mm	84 mm	40 mm	5443 810 068	1
9.4 mm	84 mm	40 mm	5443 810 069	1
9.5 mm	84 mm	40 mm	5443 810 070	1
9.6 mm	89 mm	43 mm	5443 810 071	1
9.7 mm	89 mm	43 mm	5443 810 072	1
9.8 mm	89 mm	43 mm	5443 810 073	1
9.9 mm	89 mm	43 mm	5443 810 074	1
10 mm	89 mm	43 mm	5443 810 075	1
10.2 mm	89 mm	43 mm	5443 810 076	1
10.5 mm	89 mm	43 mm	5443 810 077	1
11 mm	95 mm	47 mm	5443 810 078	1
11.5 mm	95 mm	47 mm	5443 810 079	1
12 mm	102 mm	51 mm	5443 810 080	1

Twist drill HSS DIN 1869 R1 type RN

Extra-long drill bit for deep hole drilling in hardened or high strength steel up to a strength of 850 N/mm², in cast iron and in composite materials (e.g. plastic profiles with steel core).



- Vaporised surface for excellent adhesive properties of cooling lubricants and a reduced tendency towards the build-up of material deposits

Material to be processed	Steel, Cast iron
Quality	Würth-Standard
Standard/drilling depth	DIN 1869/20xD
Shank style	Cylindrical
Surface	Vaporised
Cutting material	HSS
Type	RN
Angle of the tip	118 Degree
Service life (points system)	●●○○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●○○
Versatility (points system)	●●○○
Drilling behaviour (point system)	●●●○

Continuation **Twist drill HSS DIN 1869 R1 type RN**

Self-centring	Yes
Suitable for tensile strength up to	850 N/mm ²

Suitable for machine type	Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
Cordless screwdrivers, Pedestal drilling machine, Milling/drill center, Drill	3 mm	150 mm	100 mm	0625 400 300	3
Cordless screwdrivers, Pedestal drilling machine, Milling/drill center, Drill	3.5 mm	165 mm	115 mm	0625 400 350	3
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	4 mm	175 mm	120 mm	0625 400 400	3
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	4.5 mm	220 mm	150 mm	0625 400 450	3
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	5 mm	195 mm	135 mm	0625 400 500	3
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	5.5 mm	220 mm	150 mm	0625 400 550	3
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	6 mm	205 mm	140 mm	0625 400 600	3
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	6.5 mm	220 mm	150 mm	0625 400 650	3
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	7 mm	225 mm	155 mm	0625 400 700	3
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	8 mm	240 mm	165 mm	0625 400 800	3
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	9 mm	250 mm	175 mm	0625 400 900	3
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	10 mm	265 mm	185 mm	0625 401 000	3

Suitable for machine type	Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	11 mm	280 mm	195 mm	0625 401 100	1
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	12 mm	295 mm	205 mm	0625 401 200	1
Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine	13 mm	295 mm	205 mm	0625 401 300	1

When using a drill bit in line with DIN 1869, the creation of a pilot hole of 1xD to 2xD depth is recommended. Our extra short precision drill bit in line with DIN 1897 (art. no. 062470...) is ideal for this task.
See overview tables for drill bit/material assignments

Twist drill HSS DIN 1869 R2 type RN

Oversized steel deep hole drill for deep-hole drilling in steel up to a strength of 850 N/mm², in cast iron and in composite materials (e.g. plastic profiles with steel core).

- Vaporised surface for excellent adhesive properties of cooling lubricants and a reduced tendency towards the build-up of material deposits

Suitable for machine type	Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine
Material to be processed	Steel, Cast iron
Quality	Würth-Standard
Standard/drilling depth	DIN 1869/25xD
Shank style	Cylindrical
Surface	Vaporised
Cutting material	HSS
Type	RN
Angle of the tip	118 Degree
Service life (points system)	●●○○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●○○
Versatility (points system)	●●○○
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	850 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
4 mm	220 mm	150 mm	0625 500 400	3
5 mm	245 mm	170 mm	0625 500 500	3
6 mm	260 mm	180 mm	0625 500 600	3
6.5 mm	275 mm	190 mm	0625 500 650	3
7 mm	290 mm	200 mm	0625 500 700	3
8 mm	305 mm	210 mm	0625 500 800	3

Continuation **Twist drill HSS DIN 1869 R2 type RN**

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
9 mm	320 mm	220 mm	0625 500 900	3
10 mm	340 mm	235 mm	0625 501 000	3
11 mm	365 mm	200 mm	0625 501 100	1
12 mm	375 mm	260 mm	0625 501 200	1
13 mm	375 mm	260 mm	0625 501 300	1

- When using a drill bit in line with DIN 1869, the creation of a pilot hole of 1xD to 2xD depth is recommended. Our extra short precision drill bit in line with DIN 1897 (art. no. 062470...) is ideal for this task.
- See overview tables for drill bit/material assignments

Twist drill HSS DIN 1869 R3 type RN

Oversized steel deep hole drill for deep-hole drilling in steel up to a strength of 850 N/mm², in cast iron and in composite materials (e.g. plastic profiles with steel core).

- Vaporised surface for excellent adhesive properties of cooling lubricants and a reduced tendency towards the build-up of material deposits

Suitable for machine type	Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine
Material to be processed	Steel, Cast iron
Quality	Würth-Standard
Standard/drilling depth	DIN 1869/30xD
Shank style	Cylindrical
Surface	Vaporised
Cutting material	HSS
Type	RN
Angle of the tip	118 Degree
Service life (points system)	●●○○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●○○
Versatility (points system)	●●○○
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	850 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
4 mm	280 mm	190 mm	0625 600 400	3
5 mm	315 mm	210 mm	0625 600 500	3
6 mm	330 mm	225 mm	0625 600 600	3
6.5 mm	350 mm	235 mm	0625 600 650	3
7 mm	370 mm	250 mm	0625 600 700	3
8 mm	390 mm	265 mm	0625 600 800	3
9 mm	410 mm	280 mm	0625 600 900	3
10 mm	430 mm	295 mm	0625 601 000	3

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
11 mm	430 mm	310 mm	0625 601 100	1
12 mm	480 mm	330 mm	0625 601 200	1
13 mm	480 mm	330 mm	0625 601 300	1

- When using a drill bit in line with DIN 1869, the creation of a pilot hole of 1xD to 2xD depth is recommended. Our extra short precision drill bit in line with DIN 1897 (art. no. 062470...) is ideal for this task.
- See overview tables for drill bit/material assignments

Twist drill bit HSS DIN 1897 type RN

The extra-short steel precision drill bit for general, broad applications in steel up to 850 N/mm² strength and in cast iron.



- Optimised cross thinning for 20% lower infeed force compared to conventional drills as well as quicker progress and a more gentle way of working
- Optimised split point for precise spot drilling without centring, even on curved surfaces
- Very precise point geometry for accurate drill holes
- Vaporised surface for excellent adhesive capability of coolant lubricants and reduced tendency for material to build up

Suitable for machine type	Drill, Cordless screwdrivers, Pedestal drilling machine
Material to be processed	Steel, Cast iron
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 1897/3xD
Shank style	Cylindrical
Surface	Vaporised
Cutting material	HSS
Type	RN
Angle of the tip	130 Degree
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●○●
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	850 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
1 mm	26 mm	6 mm	0624 700 100	10
1.1 mm	28 mm	7 mm	0624 700 110	10
1.2 mm	30 mm	8 mm	0624 700 120	10
1.3 mm	30 mm	8 mm	0624 700 130	10
1.4 mm	32 mm	9 mm	0624 700 140	10
1.5 mm	32 mm	9 mm	0624 700 150	10
1.6 mm	34 mm	10 mm	0624 700 160	10
1.7 mm	34 mm	10 mm	0624 700 170	10
1.8 mm	36 mm	11 mm	0624 700 180	10
1.9 mm	36 mm	11 mm	0624 700 190	10

Continuation **Twist drill bit HSS DIN 1897 type RN**

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
2 mm	38 mm	12 mm	0624 700 200	10
2.1 mm	38 mm	12 mm	0624 700 210	10
2.2 mm	40 mm	13 mm	0624 700 220	10
2.3 mm	40 mm	13 mm	0624 700 230	10
2.4 mm	43 mm	14 mm	0624 700 240	10
2.5 mm	43 mm	14 mm	0624 700 250	10
2.6 mm	43 mm	14 mm	0624 700 260	10
2.7 mm	46 mm	16 mm	0624 700 270	10
2.8 mm	46 mm	16 mm	0624 700 280	10
2.9 mm	46 mm	16 mm	0624 700 290	10
3 mm	46 mm	16 mm	0624 700 300	10
3.1 mm	49 mm	18 mm	0624 700 310	10
3.2 mm	49 mm	18 mm	0624 700 320	10
3.3 mm	49 mm	18 mm	0624 700 330	10
3.4 mm	52 mm	20 mm	0624 700 340	10
3.5 mm	52 mm	20 mm	0624 700 350	10
3.6 mm	52 mm	20 mm	0624 700 360	10
3.7 mm	52 mm	20 mm	0624 700 370	10
3.8 mm	55 mm	22 mm	0624 700 380	10
3.9 mm	55 mm	22 mm	0624 700 390	10
4 mm	55 mm	22 mm	0624 700 400	10
4.1 mm	55 mm	22 mm	0624 700 410	10
4.2 mm	55 mm	22 mm	0624 700 420	10
4.3 mm	58 mm	24 mm	0624 700 430	10
4.4 mm	58 mm	24 mm	0624 700 440	10
4.5 mm	58 mm	24 mm	0624 700 450	10
4.6 mm	58 mm	24 mm	0624 700 460	10
4.7 mm	58 mm	24 mm	0624 700 470	10
4.8 mm	62 mm	26 mm	0624 700 480	10
4.9 mm	62 mm	26 mm	0624 700 490	10
5 mm	62 mm	26 mm	0624 700 500	10
5.1 mm	62 mm	26 mm	0624 700 510	10
5.2 mm	62 mm	26 mm	0624 700 520	10
5.3 mm	62 mm	26 mm	0624 700 530	10
5.4 mm	66 mm	28 mm	0624 700 540	10
5.5 mm	66 mm	28 mm	0624 700 550	10
5.6 mm	66 mm	28 mm	0624 700 560	10
5.7 mm	66 mm	28 mm	0624 700 570	10
5.8 mm	66 mm	28 mm	0624 700 580	10
5.9 mm	66 mm	28 mm	0624 700 590	10
6 mm	66 mm	28 mm	0624 700 600	10
6.5 mm	70 mm	31 mm	0624 700 650	10
6.8 mm	74 mm	34 mm	0624 700 680	10
7 mm	74 mm	34 mm	0624 700 700	10
7.5 mm	74 mm	34 mm	0624 700 750	10
8 mm	79 mm	37 mm	0624 700 800	10
8.5 mm	79 mm	37 mm	0624 700 850	5
9 mm	84 mm	40 mm	0624 700 900	5
9.5 mm	84 mm	40 mm	0624 700 950	5
10 mm	89 mm	43 mm	0624 701 000	5
10.2 mm	89 mm	43 mm	0624 701 020	5
10.5 mm	89 mm	43 mm	0624 701 050	1
11 mm	95 mm	47 mm	0624 701 100	1

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
11.5 mm	95 mm	47 mm	0624 701 150	1
12 mm	102 mm	51 mm	0624 701 200	1
12.5 mm	102 mm	51 mm	0624 701 250	1
13 mm	102 mm	51 mm	0624 701 300	1

See overview tables for drill bit/material assignments

Twist drill HSS DIN 338 SMART STEP

The manually operated high-performance drill with unique SMART STEP technology (from dia. 2.5 mm) for high-precision circular drill holes in steel up to 1000 N/mm², aluminium, plastic, non-ferrous metals, hard and soft wood.

- The first twist drill with stepped drill bit tip geometry
- Precise circular holes without a centre punch
- Significantly quicker than conventional ground twist drill



Suitable for machine type	Drill, Cordless screwdrivers, Pedestal drilling machine
Material to be processed	Steel, Cast iron, Non-ferrous metal, Wood, Hardwood
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 338/5xD
Surface	Multiple refined
Cutting material	HSS
Type	SMART STEP
Service life (points system)	●●●○
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○
Drilling behaviour (point system)	●●●●
Self-centring	Yes
Suitable for tensile strength up to	1000 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Drill tip length (l3)	Shank style	Art. no.	P. Qty.
1 mm	34 mm	12 mm		Cylindrical	0624 930 100	10
1.5 mm	40 mm	18 mm		Cylindrical	0624 930 150	10
1.8 mm	46 mm	22 mm		Cylindrical	0624 930 180	10
2 mm	49 mm	24 mm		Cylindrical	0624 930 200	10
2.2 mm	53 mm	27 mm		Cylindrical	0624 930 220	10
2.3 mm	53 mm	27 mm		Cylindrical	0624 930 230	10
2.5 mm	57 mm	30 mm	1.6 mm	Cylindrical	0624 930 250	10
2.7 mm	61 mm	33 mm	1.8 mm	Cylindrical	0624 930 270	10
2.8 mm	61 mm	33 mm	1.8 mm	Cylindrical	0624 930 280	10
3 mm	61 mm	33 mm	1.9 mm	Cylindrical	0624 930 300	10
3.1 mm	65 mm	36 mm	2 mm	Cylindrical	0624 930 310	10
3.2 mm	65 mm	36 mm	2.1 mm	Cylindrical	0624 930 320	10
3.3 mm	65 mm	36 mm	2.2 mm	Cylindrical	0624 930 330	10
3.5 mm	70 mm	39 mm	2.1 mm	Cylindrical	0624 930 350	10
3.6 mm	70 mm	39 mm	2.2 mm	Cylindrical	0624 930 360	10

Continuation Twist drill HSS DIN 338 SMART STEP

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Drill tip length (l3)	Shank style	Art. no.	P. Qty.
3.7 mm	70 mm	39 mm	2.3 mm	3-face shank	0624 930 370	10
4 mm	75 mm	43 mm	2.9 mm	3-face shank	0624 930 400	10
4.1 mm	75 mm	43 mm	3 mm	3-face shank	0624 930 410	10
4.2 mm	75 mm	43 mm	3 mm	3-face shank	0624 930 420	10
4.5 mm	80 mm	47 mm	3.3 mm	3-face shank	0624 930 450	10
4.6 mm	80 mm	47 mm	3.4 mm	3-face shank	0624 930 460	10
4.9 mm	86 mm	52 mm	3.8 mm	3-face shank	0624 930 490	10
5 mm	86 mm	52 mm	3.9 mm	3-face shank	0624 930 500	10
5.1 mm	86 mm	52 mm	4 mm	3-face shank	0624 930 510	5
5.2 mm	86 mm	52 mm	4.2 mm	3-face shank	0624 930 520	5
5.4 mm	93 mm	57 mm	4.6 mm	3-face shank	0624 930 540	5
5.5 mm	93 mm	57 mm	4.6 mm	3-face shank	0624 930 550	5
5.6 mm	93 mm	57 mm	4.7 mm	3-face shank	0624 930 560	5
5.7 mm	93 mm	57 mm	4.8 mm	3-face shank	0624 930 570	5
5.8 mm	93 mm	57 mm	5.2 mm	3-face shank	0624 930 580	5
6 mm	93 mm	57 mm	5.3 mm	3-face shank	0624 930 600	5
6.2 mm	101 mm	63 mm	5.5 mm	3-face shank	0624 930 620	5
6.5 mm	101 mm	63 mm	5.8 mm	3-face shank	0624 930 650	5
6.8 mm	109 mm	69 mm	5.9 mm	3-face shank	0624 930 680	5
7 mm	109 mm	69 mm	6.4 mm	3-face shank	0624 930 700	5
7.3 mm	109 mm	69 mm	6.8 mm	3-face shank	0624 930 730	5
7.4 mm	109 mm	69 mm	6.9 mm	3-face shank	0624 930 740	5
7.5 mm	109 mm	69 mm	6.9 mm	3-face shank	0624 930 750	5
8 mm	117 mm	75 mm	7.6 mm	3-face shank	0624 930 800	5
8.5 mm	117 mm	75 mm	8.2 mm	3-face shank	0624 930 850	1
9 mm	125 mm	81 mm	8.8 mm	3-face shank	0624 930 900	1
9.2 mm	125 mm	81 mm	9 mm	3-face shank	0624 930 920	1
9.3 mm	125 mm	81 mm	9.1 mm	3-face shank	0624 930 930	1
9.4 mm	125 mm	81 mm	9.2 mm	3-face shank	0624 930 940	1
9.5 mm	125 mm	81 mm	9.3 mm	3-face shank	0624 930 950	1
10 mm	133 mm	87 mm	10 mm	3-face shank	0624 931 000	1
10.2 mm	133 mm	87 mm	9.9 mm	3-face shank	0624 931 020	1
10.5 mm	133 mm	87 mm	10.7 mm	3-face shank	0624 931 050	1
11 mm	142 mm	94 mm	11.3 mm	3-face shank	0624 931 100	1
11.2 mm	142 mm	94 mm	11.5 mm	3-face shank	0624 931 120	1
11.5 mm	142 mm	94 mm	12 mm	3-face shank	0624 931 150	1
12 mm	151 mm	101 mm	12.6 mm	3-face shank	0624 931 200	1
12.5 mm	151 mm	101 mm	13.8 mm	3-face shank	0624 931 250	1
13 mm	151 mm	101 mm	14.7 mm	3-face shank	0624 931 300	1
13.5 mm	160 mm	108 mm	14.8 mm	3-face shank	0624 931 350	1
14 mm	160 mm	108 mm	14.8 mm	3-face shank	0624 931 400	1
14.2 mm	169 mm	114 mm	15.1 mm	3-face shank	0624 931 420	1
14.5 mm	169 mm	114 mm	15.4 mm	3-face shank	0624 931 450	1
15 mm	169 mm	114 mm	15.4 mm	3-face shank	0624 931 500	1
15.5 mm	178 mm	120 mm	15.9 mm	3-face shank	0624 931 550	1
16 mm	178 mm	120 mm	16.4 mm	3-face shank	0624 931 600	1
16.5 mm	184 mm	125 mm	16.9 mm	3-face shank	0624 931 650	1
17 mm	184 mm	125 mm	17.4 mm	3-face shank	0624 931 700	1
17.5 mm	191 mm	130 mm	17.5 mm	3-face shank	0624 931 750	1
18 mm	191 mm	130 mm	17.6 mm	3-face shank	0624 931 800	1
18.5 mm	198 mm	135 mm	19.4 mm	3-face shank	0624 931 850	1
19 mm	198 mm	135 mm	20.4 mm	3-face shank	0624 931 900	1

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Drill tip length (l3)	Shank style	Art. no.	P. Qty.
19.5 mm	205 mm	140 mm	20.9 mm	3-face shank	0624 931 950	1
20 mm	205 mm	140 mm	21.5 mm	3-face shank	0624 932 000	1
21 mm	213 mm	145 mm	22.5 mm	3-face shank	0624 932 100	1
22 mm	221 mm	150 mm	23.6 mm	3-face shank	0624 932 200	1
24 mm	236 mm	160 mm	25.7 mm	3-face shank	0624 932 400	1
25 mm	236 mm	160 mm	25.7 mm	3-face shank	0624 932 500	1
26 mm	253 mm	165 mm	27.9 mm	3-face shank	0624 932 600	1
26.5 mm	253 mm	165 mm	28.4 mm	3-face shank	0624 932 650	1

For blind bores, please note the extended drill tip (see dimension l3)!

Twist drill bit assortment HSS DIN 338 SMART STEP

19 pieces. The manually operated high-performance drill with unique SMART STEP technology (from dia. 2.5 mm) for high-precision circular drill holes in steel up to 1000 N/mm², aluminium, plastic, non-ferrous metals, hard and soft wood.

- The first twist drill with stepped drill bit tip geometry
- Precise circular holes without a centre punch
- Significantly quicker than conventional ground twist drill



Number of pieces in assortment/set	19 PCS
Surface	Multiple refined
Standard/drilling depth	DIN 338/5xD



Art. no. 0624 930 001

P. Qty.: 1



See overview tables for drill/material assignments.
For blind holes, please observe the extended drill tip!

Twist drill bit assortment HSS DIN 338 SMART STEP

25 pieces The high-performance drill with unique **SMART STEP** technology (from Ø 2.5 mm) for high-precision, circular through holes for hand-guided use in steel up to 1000 N/mm², aluminium, plastic, non-ferrous metals, hardwood and softwood.

- The first twist drill with stepped drill bit tip geometry
- Precise circular holes without a centre punch
- Significantly quicker than conventional ground twist drill



Number of pieces in assortment/set	25 PCS
Surface	Multiple refined
Standard/drilling depth	DIN 338/5xD

Art. no. 0624 930 004

P. Qty.: 1



See overview tables for drill bit/material assignments

Twist drill bit HSS DIN 338 type RN 118°

The affordable, robust steel assembly drill bit for applications in steel up to 850 N/mm² strength.

- Excellent break resistance due to chipless manufacturing process
- Ideal for construction site and assembly applications that do not require high precision
- Excellent adhesive capability of coolant lubricants and reduced tendency for material to build up thanks to vaporised surface



Material to be processed	Steel
Quality	Würth-Standard
Standard/drilling depth	DIN 338/5xD
Shank style	Cylindrical
Surface	Vaporised
Cutting material	HSS
Angle of the tip	118 Degree
Service life (points system)	●●○○
Drilling speed (point system)	●○○○
Bore hole quality (point system)	●○○○
Versatility (points system)	●○○○
Drilling behaviour (point system)	●●○○
Self-centring	No
Suitable for tensile strength up to	850 N/mm ²

Suitable for machine type	Diameter (Ø)	Length (l1)	Chip flute length (l2)	Type	Art. no.	P. Qty.
Cordless screwdrivers, Drill	9.9 mm	133 mm	87 mm	RN	0625 99	5
Drill, Cordless screwdrivers	1 mm	34 mm	12 mm	RN	0625 10	10
Drill, Cordless screwdrivers	1.1 mm	36 mm	14 mm	RN	0625 11	10
Drill, Cordless screwdrivers	1.2 mm	38 mm	16 mm	RN	0625 12	10
Drill, Cordless screwdrivers	1.3 mm	38 mm	16 mm	RN	0625 13	10
Drill, Cordless screwdrivers	1.4 mm	40 mm	18 mm	RN	0625 14	10
Drill, Cordless screwdrivers	1.5 mm	40 mm	18 mm	RN	0625 15	10
Drill, Cordless screwdrivers	1.8 mm	46 mm	22 mm	RN	0625 18	10
Drill, Cordless screwdrivers	2 mm	49 mm	24 mm	RN	0625 20	10
Drill, Cordless screwdrivers	2.1 mm	49 mm	24 mm	RN	0625 21	10
Drill, Cordless screwdrivers	2.2 mm	53 mm	27 mm	RN	0625 22	10
Drill, Cordless screwdrivers	2.3 mm	53 mm	27 mm	RN	0625 23	10
Drill, Cordless screwdrivers	2.4 mm	57 mm	30 mm	RN	0625 24	10
Drill, Cordless screwdrivers	2.5 mm	57 mm	30 mm	RN	0625 25	10
Drill, Cordless screwdrivers	2.6 mm	57 mm	30 mm	RN	0625 26	10
Drill, Cordless screwdrivers	2.7 mm	61 mm	33 mm	RN	0625 27	10
Drill, Cordless screwdrivers	2.8 mm	61 mm	33 mm	RN	0625 28	10
Drill, Cordless screwdrivers	2.9 mm	61 mm	33 mm	RN	0625 29	10
Drill, Cordless screwdrivers	3 mm	61 mm	33 mm	RN	0625 30	10
Drill, Cordless screwdrivers	3.1 mm	65 mm	36 mm	RN	0625 31	10
Drill, Cordless screwdrivers	3.2 mm	65 mm	36 mm	RN	0625 32	10
Drill, Cordless screwdrivers	3.25 mm	65 mm	36 mm	RN	0625 325	10
Drill, Cordless screwdrivers	3.3 mm	65 mm	36 mm	RN	0625 33	10
Drill, Cordless screwdrivers	3.4 mm	70 mm	39 mm	RN	0625 34	10
Drill, Cordless screwdrivers	3.5 mm	70 mm	39 mm	RN	0625 35	10
Drill, Cordless screwdrivers	3.6 mm	70 mm	39 mm	RN	0625 36	10
Drill, Cordless screwdrivers	3.7 mm	70 mm	39 mm	RN	0625 37	10
Drill, Cordless screwdrivers	3.8 mm	75 mm	43 mm	RN	0625 38	10
Drill, Cordless screwdrivers	3.9 mm	75 mm	43 mm	RN	0625 39	10
Drill, Cordless screwdrivers	4 mm	75 mm	43 mm	RN	0625 40	10
Drill, Cordless screwdrivers	4.1 mm	75 mm	43 mm	RN	0625 41	10
Drill, Cordless screwdrivers	4.2 mm	75 mm	43 mm	RN	0625 42	10

Continuation **Twist drill bit HSS DIN 338 type RN 118°**

Suitable for machine type	Diameter (Ø)	Length (l1)	Chip flute length (l2)	Type	Art. no.	P. Qty.
Drill, Cordless screwdrivers	4.3 mm	80 mm	47 mm	RN	0625 43	10
Drill, Cordless screwdrivers	4.4 mm	80 mm	47 mm	RN	0625 44	10
Drill, Cordless screwdrivers	4.5 mm	80 mm	47 mm	RN	0625 45	10
Drill, Cordless screwdrivers	4.6 mm	80 mm	47 mm	RN	0625 46	10
Drill, Cordless screwdrivers	4.7 mm	80 mm	47 mm	RN	0625 47	10
Drill, Cordless screwdrivers	4.8 mm	86 mm	52 mm	RN	0625 48	10
Drill, Cordless screwdrivers	4.9 mm	86 mm	52 mm	RN	0625 49	10
Drill, Cordless screwdrivers	5 mm	86 mm	52 mm	RN	0625 50	10
Drill, Cordless screwdrivers	5.1 mm	86 mm	52 mm	RN	0625 51	10
Drill, Cordless screwdrivers	5.2 mm	86 mm	52 mm	RN	0625 52	10
Drill, Cordless screwdrivers	5.3 mm	86 mm	52 mm	RN	0625 53	10
Drill, Cordless screwdrivers	5.4 mm	93 mm	57 mm	RN	0625 54	10
Drill, Cordless screwdrivers	5.5 mm	93 mm	57 mm	RN	0625 55	10
Drill, Cordless screwdrivers	5.6 mm	93 mm	57 mm	RN	0625 56	10
Drill, Cordless screwdrivers	5.7 mm	93 mm	57 mm	RN	0625 57	10
Drill, Cordless screwdrivers	5.8 mm	93 mm	57 mm	RN	0625 58	10
Drill, Cordless screwdrivers	6 mm	93 mm	57 mm	RN	0625 60	10
Drill, Cordless screwdrivers	6.1 mm	101 mm	63 mm	RN	0625 61	10
Drill, Cordless screwdrivers	6.2 mm	101 mm	63 mm	RN	0625 62	10
Drill, Cordless screwdrivers	6.3 mm	101 mm	63 mm	RN	0625 63	10
Drill, Cordless screwdrivers	6.4 mm	101 mm	63 mm	RN	0625 64	10
Drill, Cordless screwdrivers	6.5 mm	101 mm	63 mm	RN	0625 65	10
Drill, Cordless screwdrivers	6.6 mm	101 mm	63 mm	RN	0625 66	10
Drill, Cordless screwdrivers	6.7 mm	101 mm	63 mm	RN	0625 67	10
Drill, Cordless screwdrivers	6.8 mm	109 mm	69 mm	RN	0625 68	10
Drill, Cordless screwdrivers	7 mm	109 mm	75 mm	RN	0625 70	10
Drill, Cordless screwdrivers	7.1 mm	109 mm	75 mm	RN	0625 71	10
Drill, Cordless screwdrivers	7.2 mm	109 mm	75 mm	RN	0625 72	10
Drill, Cordless screwdrivers	7.4 mm	109 mm	75 mm	RN	0625 74	10
Drill, Cordless screwdrivers	7.5 mm	109 mm	75 mm	RN	0625 75	10
Drill, Cordless screwdrivers	7.8 mm	117 mm	75 mm	RN	0625 78	10

Suitable for machine type	Diameter (Ø)	Length (l1)	Chip flute length (l2)	Type	Art. no.	P. Qty.
Drill, Cordless screwdrivers	8 mm	117 mm	75 mm	RN	0625 80	10
Drill, Cordless screwdrivers	8.1 mm	117 mm	75 mm	RN	0625 81	5
Drill, Cordless screwdrivers	8.2 mm	117 mm	75 mm	RN	0625 82	5
Drill, Cordless screwdrivers	8.3 mm	117 mm	75 mm	RN	0625 83	5
Drill, Cordless screwdrivers	8.4 mm	117 mm	75 mm	RN	0625 84	5
Drill, Cordless screwdrivers	8.5 mm	117 mm	75 mm	RN	0625 85	5
Drill, Cordless screwdrivers	8.6 mm	125 mm	81 mm	RN	0625 86	5
Drill, Cordless screwdrivers	8.7 mm	125 mm	81 mm		0625 87	5
Drill, Cordless screwdrivers	9 mm	125 mm	81 mm	RN	0625 90	5
Drill, Cordless screwdrivers	9.1 mm	125 mm	81 mm	RN	0625 91	5
Drill, Cordless screwdrivers	9.2 mm	125 mm	81 mm	RN	0625 92	5
Drill, Cordless screwdrivers	9.5 mm	125 mm	81 mm	RN	0625 95	5
Drill, Cordless screwdrivers	9.6 mm	133 mm	87 mm	RN	0625 96	5
Drill, Cordless screwdrivers	9.8 mm	133 mm	87 mm	RN	0625 98	5
Drill, Cordless screwdrivers	10 mm	133 mm	87 mm	RN	0625 100	5
Drill, Cordless screwdrivers	10.1 mm	133 mm	87 mm	RN	0625 101	5
Drill, Cordless screwdrivers	10.2 mm	133 mm	87 mm	RN	0625 102	5
Drill, Cordless screwdrivers	10.4 mm	133 mm	87 mm	RN	0625 104	1
Drill, Cordless screwdrivers	10.5 mm	133 mm	87 mm	RN	0625 105	1
Drill, Cordless screwdrivers	11 mm	142 mm	94 mm	RN	0625 110	1
Drill, Cordless screwdrivers	11.2 mm	142 mm	94 mm	RN	0625 112	1
Drill, Cordless screwdrivers	11.5 mm	142 mm	94 mm	RN	0625 115	1
Drill, Cordless screwdrivers	12 mm	151 mm	101 mm	RN	0625 120	1
Drill, Cordless screwdrivers	12.2 mm	151 mm	101 mm	RN	0625 122	1
Drill, Cordless screwdrivers	12.4 mm	151 mm	101 mm	RN	0625 124	1
Drill, Cordless screwdrivers	12.5 mm	151 mm	101 mm	RN	0625 125	1
Drill, Cordless screwdrivers	13 mm	151 mm	101 mm	RN	0625 130	1
Drill, Cordless screwdrivers	13.5 mm	160 mm	108 mm	RN	0625 135	1
Drill, Cordless screwdrivers	14 mm	160 mm	108 mm	RN	0625 140	1
Drill, Cordless screwdrivers	14.5 mm	169 mm	114 mm	RN	0625 145	1
Drill, Cordless screwdrivers	15 mm	169 mm	114 mm	RN	0625 150	1
Drill, Cordless screwdrivers	15.5 mm	178 mm	120 mm	RN	0625 155	1

Continuation **Twist drill bit HSS DIN 338 type RN 118°**

Suitable for machine type	Diameter (Ø)	Length (l1)	Chip flute length (l2)	Type	Art. no.	P. Qty.
Drill, Cordless screwdrivers	16 mm	178 mm	120 mm	RN	0625 160	1
Drill, Cordless screwdrivers	16.5 mm	184 mm	125 mm	RN	0625 165	1
Drill, Cordless screwdrivers	17 mm	184 mm	125 mm	RN	0625 170	1
Drill, Cordless screwdrivers	17.5 mm	191 mm	130 mm	RN	0625 175	1
Drill, Cordless screwdrivers	18 mm	191 mm	130 mm	RN	0625 180	1
Drill, Cordless screwdrivers	20 mm	205 mm	140 mm	RN	0625 200	1

- The 13.0-mm diameter drill shank has been reduced to a diameter of 12.7 mm
- See overview tables for drill bit/material assignments

Twist drill bit assortment HSS DIN 338 type RN 118°

155 pieces in system case. Affordable, robust steel assembly drills for applications in steel up to 850 N/mm² strength.

- Excellent break resistance due to chipless manufacturing process
- Ideal for construction site and assembly applications that do not require high precision
- Excellent adhesive capability of coolant lubricants and reduced tendency for material to build up thanks to vaporised surface



Number of pieces in assortment/set	155 PCS
Surface	Vaporised
Standard/drilling depth	DIN 338/5xD

ORSY

Art. no. 5964 062 500

P. Qty.: 1

Contents for art. no. 5964 062 500		
Designation	Art. no.	Quantity
Twist drill bit HSS DIN 338 type RN 118° 1 mm	0625 10	10
Twist drill bit HSS DIN 338 type RN 118° 1.5 mm	0625 15	10
Twist drill bit HSS DIN 338 type RN 118° 2 mm	0625 20	10
Twist drill bit HSS DIN 338 type RN 118° 2.5 mm	0625 25	10
Twist drill bit HSS DIN 338 type RN 118° 3.0 mm	0625 30	10
Twist drill bit HSS DIN 338 type RN 118° 3.5 mm	0625 35	10
Twist drill bit HSS DIN 338 type RN 118° 4 mm	0625 40	10
Twist drill bit HSS DIN 338 type RN 118° 4.5 mm	0625 45	10
Twist drill bit HSS DIN 338 type RN 118° 5.0 mm	0625 50	10
Twist drill bit HSS DIN 338 type RN 118° 5.5 mm	0625 55	10
Twist drill bit HSS DIN 338 type RN 118° 6 mm	0625 60	10
Twist drill bit HSS DIN 338 type RN 118° 6.5 mm	0625 65	5
Twist drill bit HSS DIN 338 type RN 118° 7 mm	0625 70	5

Designation	Art. no.	Quantity
Twist drill bit HSS DIN 338 type RN 118° 7.5 mm	0625 75	5
Twist drill bit HSS DIN 338 type RN 118° 8 mm	0625 80	5
Twist drill bit HSS DIN 338 type RN 118° 8.5 mm	0625 85	5
Twist drill bit HSS DIN 338 type RN 118° 9 mm	0625 90	5
Twist drill bit HSS DIN 338 type RN 118° 9.5 mm	0625 95	5
Twist drill bit HSS DIN 338 type RN 118° 10 mm	0625 100	5
Twist drill bit HSS DIN 338 type RN 118° 10.5 mm	0625 105	5
System insert, plastic, 4.4.1	5581 003 021	1
System case 4.4.1	5581 020 000	1

Twist drill bit HSS DIN 338 type RN 130°

Steel precision drill for general, broad applications in steel up to 850 N/mm² strength and cast iron.

- Optimised cross thinning for 20% less infeed force and more rapid work progress with less expenditure of effort
- Optimum cross-grinding for highly accurate drilling without centring, even on curved surfaces
- Highly precise tip grinding for precise drilling
- Vaporised surface for excellent adhesion of cooling lubricants and a reduced tendency towards build-up



Suitable for machine type	Drill, Cordless screwdrivers, Pedestal drilling machine
Material to be processed	Steel, Cast iron
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 338/5xD
Shank style	Cylindrical
Surface	Vaporised
Cutting material	HSS
Type	RN
Angle of the tip	130 Degree
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●○●
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	850 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
0.5 mm	22 mm	6 mm	0624 000 050	10
0.6 mm	24 mm	7 mm	0624 000 060	10
0.7 mm	28 mm	9 mm	0624 000 070	10
0.8 mm	30 mm	10 mm	0624 000 080	10
0.9 mm	32 mm	11 mm	0624 000 090	10
1 mm	34 mm	12 mm	0624 000 100	10
1.1 mm	36 mm	14 mm	0624 000 110	10
1.2 mm	38 mm	16 mm	0624 000 120	10
1.3 mm	38 mm	16 mm	0624 000 130	10

Continuation **Twist drill bit HSS DIN 338 type RN 130°**

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
1.4 mm	40 mm	18 mm	0624 000 140	10
1.5 mm	40 mm	18 mm	0624 000 150	10
1.6 mm	43 mm	20 mm	0624 000 160	10
1.7 mm	43 mm	20 mm	0624 000 170	10
1.8 mm	46 mm	22 mm	0624 000 180	10
1.9 mm	46 mm	22 mm	0624 000 190	10
2 mm	49 mm	24 mm	0624 000 200	10
2.05 mm	49 mm	24 mm	0624 000 205	10
2.1 mm	49 mm	24 mm	0624 000 210	10
2.2 mm	53 mm	27 mm	0624 000 220	10
2.3 mm	53 mm	27 mm	0624 000 230	10
2.4 mm	57 mm	30 mm	0624 000 240	10
2.5 mm	57 mm	30 mm	0624 000 250	10
2.6 mm	57 mm	30 mm	0624 000 260	10
2.7 mm	61 mm	33 mm	0624 000 270	10
2.8 mm	61 mm	33 mm	0624 000 280	10
2.9 mm	61 mm	33 mm	0624 000 290	10
3 mm	61 mm	33 mm	0624 000 300	10
3.1 mm	65 mm	36 mm	0624 000 310	10
3.2 mm	65 mm	36 mm	0624 000 320	10
3.3 mm	65 mm	36 mm	0624 000 330	10
3.4 mm	70 mm	39 mm	0624 000 340	10
3.5 mm	70 mm	39 mm	0624 000 350	10
3.6 mm	70 mm	39 mm	0624 000 360	10
3.7 mm	70 mm	39 mm	0624 000 370	10
3.8 mm	75 mm	43 mm	0624 000 380	10
3.9 mm	75 mm	43 mm	0624 000 390	10
4 mm	75 mm	43 mm	0624 000 400	10
4.1 mm	75 mm	43 mm	0624 000 410	10
4.2 mm	75 mm	43 mm	0624 000 420	10
4.3 mm	80 mm	47 mm	0624 000 430	10
4.4 mm	80 mm	47 mm	0624 000 440	10
4.5 mm	80 mm	47 mm	0624 000 450	10
4.6 mm	80 mm	47 mm	0624 000 460	10
4.7 mm	80 mm	47 mm	0624 000 470	10
4.8 mm	86 mm	52 mm	0624 000 480	10
4.9 mm	86 mm	52 mm	0624 000 490	10
5 mm	86 mm	52 mm	0624 000 500	10
5.1 mm	86 mm	52 mm	0624 000 510	10
5.2 mm	86 mm	52 mm	0624 000 520	10
5.3 mm	86 mm	52 mm	0624 000 530	10
5.4 mm	93 mm	57 mm	0624 000 540	10
5.5 mm	93 mm	57 mm	0624 000 550	10
5.6 mm	93 mm	57 mm	0624 000 560	10
5.7 mm	93 mm	57 mm	0624 000 570	10
5.8 mm	93 mm	57 mm	0624 000 580	10
5.9 mm	93 mm	57 mm	0624 000 590	10
6 mm	93 mm	57 mm	0624 000 600	10
6.1 mm	101 mm	63 mm	0624 000 610	10
6.2 mm	101 mm	63 mm	0624 000 620	10
6.3 mm	101 mm	63 mm	0624 000 630	10
6.4 mm	101 mm	63 mm	0624 000 640	10
6.5 mm	101 mm	63 mm	0624 000 650	10

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
6.6 mm	101 mm	63 mm	0624 000 660	10
6.7 mm	101 mm	63 mm	0624 000 670	10
6.8 mm	109 mm	69 mm	0624 000 680	10
6.9 mm	109 mm	69 mm	0624 000 690	10
7 mm	109 mm	69 mm	0624 000 700	10
7.1 mm	109 mm	69 mm	0624 000 710	10
7.2 mm	109 mm	69 mm	0624 000 720	10
7.3 mm	109 mm	69 mm	0624 000 730	10
7.4 mm	109 mm	69 mm	0624 000 740	10
7.5 mm	109 mm	69 mm	0624 000 750	10
7.6 mm	117 mm	75 mm	0624 000 760	10
7.7 mm	117 mm	75 mm	0624 000 770	10
7.8 mm	117 mm	75 mm	0624 000 780	10
7.9 mm	117 mm	75 mm	0624 000 790	10
8 mm	117 mm	75 mm	0624 000 800	10
8.1 mm	117 mm	75 mm	0624 000 810	5
8.2 mm	117 mm	75 mm	0624 000 820	5
8.3 mm	117 mm	75 mm	0624 000 830	5
8.4 mm	117 mm	75 mm	0624 000 840	5
8.5 mm	117 mm	75 mm	0624 000 850	5
8.6 mm	125 mm	81 mm	0624 000 860	5
8.7 mm	125 mm	81 mm	0624 000 870	5
8.8 mm	125 mm	81 mm	0624 000 880	5
8.9 mm	125 mm	81 mm	0624 000 890	5
9 mm	125 mm	81 mm	0624 000 900	5
9.1 mm	125 mm	81 mm	0624 000 910	5
9.2 mm	125 mm	81 mm	0624 000 920	5
9.3 mm	125 mm	81 mm	0624 000 930	5
9.4 mm	125 mm	81 mm	0624 000 940	5
9.5 mm	125 mm	81 mm	0624 000 950	5
9.6 mm	133 mm	87 mm	0624 000 960	5
9.7 mm	133 mm	87 mm	0624 000 970	5
9.8 mm	133 mm	87 mm	0624 000 980	5
9.9 mm	133 mm	87 mm	0624 000 990	5
10 mm	133 mm	87 mm	0624 001 000	5
10.1 mm	133 mm	87 mm	0624 001 010	5
10.2 mm	133 mm	87 mm	0624 001 020	5
10.3 mm	133 mm	87 mm	0624 001 030	5
10.4 mm	133 mm	87 mm	0624 001 040	1
10.5 mm	133 mm	87 mm	0624 001 050	1
10.6 mm	133 mm	87 mm	0624 001 060	1
10.7 mm	142 mm	94 mm	0624 001 070	1
10.8 mm	142 mm	94 mm	0624 001 080	1
10.9 mm	142 mm	94 mm	0624 001 090	1
11 mm	142 mm	94 mm	0624 001 100	1
11.1 mm	142 mm	94 mm	0624 001 110	1
11.2 mm	142 mm	94 mm	0624 001 120	1
11.3 mm	142 mm	94 mm	0624 001 130	1
11.4 mm	142 mm	94 mm	0624 001 140	1
11.5 mm	142 mm	94 mm	0624 001 150	1
11.6 mm	142 mm	94 mm	0624 001 160	1
11.7 mm	142 mm	94 mm	0624 001 170	1
11.8 mm	142 mm	94 mm	0624 001 180	1
11.9 mm	151 mm	101 mm	0624 001 190	1
12 mm	151 mm	101 mm	0624 001 200	1

Continuation **Twist drill bit HSS DIN 338 type RN 130°**

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
12.1 mm	151 mm	101 mm	0624 001 210	1
12.2 mm	151 mm	101 mm	0624 001 220	1
12.3 mm	151 mm	101 mm	0624 001 230	1
12.4 mm	151 mm	101 mm	0624 001 240	1
12.5 mm	151 mm	101 mm	0624 001 250	1
12.6 mm	151 mm	101 mm	0624 001 260	1
12.7 mm	151 mm	101 mm	0624 001 270	1
12.8 mm	151 mm	101 mm	0624 001 280	1
12.9 mm	151 mm	101 mm	0624 001 290	1
13 mm	151 mm	101 mm	0624 001 300	1
13.1 mm	151 mm	101 mm	0624 001 310	1
13.5 mm	160 mm	108 mm	0624 001 350	1
14 mm	160 mm	108 mm	0624 001 400	1
14.2 mm	169 mm	114 mm	0624 001 420	1
14.5 mm	169 mm	114 mm	0624 001 450	1
15 mm	169 mm	114 mm	0624 001 500	1
15.5 mm	178 mm	120 mm	0624 001 550	1
16 mm	178 mm	120 mm	0624 001 600	1
16.5 mm	184 mm	125 mm	0624 001 650	1
17 mm	184 mm	125 mm	0624 001 700	1
17.5 mm	191 mm	130 mm	0624 001 750	1
18 mm	191 mm	130 mm	0624 001 800	1
18.5 mm	198 mm	135 mm	0624 001 850	1
19 mm	198 mm	135 mm	0624 001 900	1
19.5 mm	205 mm	140 mm	0624 001 950	1
20 mm	205 mm	140 mm	0624 002 000	1

- The Ø 13.0 mm drill shank is reduced to Ø 12.7 mm
- For drill bit/material assignments, see overview tables

Twist drill bit assortment HSS DIN 338 type RN 130°

82-piece in system case. Steel precision drill bits for general, broad applications in steel up to 850 N/mm² strength and in cast iron.

- Optimised cross thinning for 20% lower infeed force compared to conventional drills as well as quicker progress and a more gentle way of working
- Optimised split point for precise spot drilling without centring, even on curved surfaces
- Very precise point geometry for accurate drill holes
- Vaporised surface for excellent adhesive capability of coolant lubricants and reduced tendency for material to build up



ORSY

Number of pieces in assortment/set	82 PCS
Surface	Vaporised
Standard/drilling depth	DIN 338/5xD

Art. no. 5964 062 400

P. Qty.: 1

See overview tables for drill bit/material assignments

Twist drill assortment HSS DIN 338 type RN 130°

19 pieces Steel precision drill for general, broad applications in steel up to 850 N/mm² strength and cast iron.

- Optimised cross thinning for 20% less infed force and more rapid work progress with less expenditure of effort
- Optimum cross-grinding for highly accurate drilling without centring, even on curved surfaces
- Highly precise tip grinding for precise drilling
- Vaporised surface for excellent adhesion of cooling lubricants and a reduced tendency towards build-up



Number of pieces in assortment/set	19 PCS
Surface	Vaporised
Standard/drilling depth	DIN 338/5xD



Art. no. 0624 000 001

P. Qty.: 1

Contents for art. no. 0624 000 001		
Designation	Art. no.	Quantity
Twist drill bit HSS DIN 338 type RN 130° 1 mm	0624 000 100	1
Twist drill bit HSS DIN 338 type RN 130° 1.5 mm	0624 000 150	1
Twist drill bit HSS DIN 338 type RN 130° 2 mm	0624 000 200	1
Twist drill bit HSS DIN 338 type RN 130° 2.5 mm	0624 000 250	1
Twist drill bit HSS DIN 338 type RN 130° 3 mm	0624 000 300	1
Twist drill bit HSS DIN 338 type RN 130° 3.5 mm	0624 000 350	1
Twist drill bit HSS DIN 338 type RN 130° 4 mm	0624 000 400	1
Twist drill bit HSS DIN 338 type RN 130° 4.5 mm	0624 000 450	1
Twist drill bit HSS DIN 338 type RN 130° 5 mm	0624 000 500	1
Twist drill bit HSS DIN 338 type RN 130° 5.5 mm	0624 000 550	1
Twist drill bit HSS DIN 338 type RN 130° 6 mm	0624 000 600	1
Twist drill bit HSS DIN 338 type RN 130° 6.5 mm	0624 000 650	1
Twist drill bit HSS DIN 338 type RN 130° 7 mm	0624 000 700	1
Twist drill bit HSS DIN 338 type RN 130° 7.5 mm	0624 000 750	1
Twist drill bit HSS DIN 338 type RN 130° 8 mm	0624 000 800	1
Twist drill bit HSS DIN 338 type RN 130° 8.5 mm	0624 000 850	1
Twist drill bit HSS DIN 338 type RN 130° 9 mm	0624 000 900	1
Twist drill bit HSS DIN 338 type RN 130° 9.5 mm	0624 000 950	1
Twist drill bit HSS DIN 338 type RN 130° 10 mm	0624 001 000	1

Twist drill assortment HSS DIN 338 type RN 130°

25 pieces Steel precision drill for general, broad applications in steel up to 850 N/mm² strength and cast iron.

- Optimised cross thinning for 20% less infeed force and more rapid work progress with less expenditure of effort
- Optimum cross-grinding for highly accurate drilling without centring, even on curved surfaces
- Highly precise tip grinding for precise drilling
- Vaporised surface for excellent adhesion of cooling lubricants and a reduced tendency towards build-up



Number of pieces in assortment/set	25 PCS
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Art. no. 0624 000 004

P. Qty.: 1

Contents for art. no. 0624 000 004

Designation	Art. no.	Quantity
Twist drill bit HSS DIN 338 type RN 130° 1 mm	0624 000 100	1
Twist drill bit HSS DIN 338 type RN 130° 1.5 mm	0624 000 150	1
Twist drill bit HSS DIN 338 type RN 130° 2 mm	0624 000 200	1
Twist drill bit HSS DIN 338 type RN 130° 2.5 mm	0624 000 250	1
Twist drill bit HSS DIN 338 type RN 130° 3 mm	0624 000 300	1
Twist drill bit HSS DIN 338 type RN 130° 3.5 mm	0624 000 350	1
Twist drill bit HSS DIN 338 type RN 130° 4 mm	0624 000 400	1
Twist drill bit HSS DIN 338 type RN 130° 4.5 mm	0624 000 450	1
Twist drill bit HSS DIN 338 type RN 130° 5 mm	0624 000 500	1
Twist drill bit HSS DIN 338 type RN 130° 5.5 mm	0624 000 550	1
Twist drill bit HSS DIN 338 type RN 130° 6 mm	0624 000 600	1
Twist drill bit HSS DIN 338 type RN 130° 6.5 mm	0624 000 650	1
Twist drill bit HSS DIN 338 type RN 130° 7 mm	0624 000 700	1
Twist drill bit HSS DIN 338 type RN 130° 7.5 mm	0624 000 750	1
Twist drill bit HSS DIN 338 type RN 130° 8 mm	0624 000 800	1
Twist drill bit HSS DIN 338 type RN 130° 8.5 mm	0624 000 850	1
Twist drill bit HSS DIN 338 type RN 130° 9 mm	0624 000 900	1
Twist drill bit HSS DIN 338 type RN 130° 9.5 mm	0624 000 950	1
Twist drill bit HSS DIN 338 type RN 130° 10 mm	0624 001 000	1
Twist drill bit HSS DIN 338 type RN 130° 10.5 mm	0624 001 050	1
Twist drill bit HSS DIN 338 type RN 130° 11 mm	0624 001 100	1
Twist drill bit HSS DIN 338 type RN 130° 11.5 mm	0624 001 150	1
Twist drill bit HSS DIN 338 type RN 130° 12 mm	0624 001 200	1
Twist drill bit HSS DIN 338 type RN 130° 12.5 mm	0624 001 250	1
Twist drill bit HSS DIN 338 type RN 130° 13 mm	0624 001 300	1

Twist drill bit assortment HSS DIN 338 type RN 118°

19 pieces. Affordable, robust steel assembly drills for applications in steel up to 850 N/mm² strength.

- Excellent break resistance due to chipless manufacturing process
- Ideal for construction site and assembly applications that do not require high precision
- Excellent adhesive capability of coolant lubricants and reduced tendency for material to build up thanks to vaporised surface



Number of pieces in assortment/set	19 PCS
Surface	Vaporised
Standard/drilling depth	DIN 338/5xD

Art. no. 0634 4

P. Qty.: 1

Contents for art. no. 0634 4		
Designation	Art. no.	Quantity
Twist drill bit HSS DIN 338 type RN 118° 1 mm	0625 10	1
Twist drill bit HSS DIN 338 type RN 118° 1.5 mm	0625 15	1
Twist drill bit HSS DIN 338 type RN 118° 2 mm	0625 20	1
Twist drill bit HSS DIN 338 type RN 118° 2.5 mm	0625 25	1
Twist drill bit HSS DIN 338 type RN 118° 3.0 mm	0625 30	1
Twist drill bit HSS DIN 338 type RN 118° 3.5 mm	0625 35	1
Twist drill bit HSS DIN 338 type RN 118° 4 mm	0625 40	1
Twist drill bit HSS DIN 338 type RN 118° 4.5 mm	0625 45	1
Twist drill bit HSS DIN 338 type RN 118° 5.0 mm	0625 50	1
Twist drill bit HSS DIN 338 type RN 118° 5.5 mm	0625 55	1
Twist drill bit HSS DIN 338 type RN 118° 6 mm	0625 60	1
Twist drill bit HSS DIN 338 type RN 118° 6.5 mm	0625 65	1
Twist drill bit HSS DIN 338 type RN 118° 7 mm	0625 70	1
Twist drill bit HSS DIN 338 type RN 118° 7.5 mm	0625 75	1
Twist drill bit HSS DIN 338 type RN 118° 8 mm	0625 80	1
Twist drill bit HSS DIN 338 type RN 118° 8.5 mm	0625 85	1
Twist drill bit HSS DIN 338 type RN 118° 9 mm	0625 90	1
Twist drill bit HSS DIN 338 type RN 118° 9.5 mm	0625 95	1
Twist drill bit HSS DIN 338 type RN 118° 10 mm	0625 100	1

Twist drill bit assortment HSS DIN 338 type RN 118°

25 pieces. Affordable, robust steel assembly drills for applications in steel up to 850 N/mm² strength.

- Excellent break resistance due to chipless manufacturing process
- Ideal for construction site and assembly applications that do not require high precision
- Excellent adhesive capability of coolant lubricants and reduced tendency for material to build up thanks to vaporised surface



Number of pieces in assortment/set	25 PCS
Surface	Vaporised

Art. no. 0634 6

P. Qty.: 1

Contents for art. no. 0634 6

Designation	Art. no.	Quantity
Twist drill bit HSS DIN 338 type RN 118° 1 mm	0625 10	1
Twist drill bit HSS DIN 338 type RN 118° 1.5 mm	0625 15	1
Twist drill bit HSS DIN 338 type RN 118° 2 mm	0625 20	1
Twist drill bit HSS DIN 338 type RN 118° 2.5 mm	0625 25	1
Twist drill bit HSS DIN 338 type RN 118° 3.0 mm	0625 30	1
Twist drill bit HSS DIN 338 type RN 118° 3.5 mm	0625 35	1
Twist drill bit HSS DIN 338 type RN 118° 4 mm	0625 40	1
Twist drill bit HSS DIN 338 type RN 118° 4.5 mm	0625 45	1
Twist drill bit HSS DIN 338 type RN 118° 5.0 mm	0625 50	1
Twist drill bit HSS DIN 338 type RN 118° 5.5 mm	0625 55	1
Twist drill bit HSS DIN 338 type RN 118° 6 mm	0625 60	1
Twist drill bit HSS DIN 338 type RN 118° 6.5 mm	0625 65	1
Twist drill bit HSS DIN 338 type RN 118° 7 mm	0625 70	1
Twist drill bit HSS DIN 338 type RN 118° 7.5 mm	0625 75	1
Twist drill bit HSS DIN 338 type RN 118° 8 mm	0625 80	1
Twist drill bit HSS DIN 338 type RN 118° 8.5 mm	0625 85	1
Twist drill bit HSS DIN 338 type RN 118° 9 mm	0625 90	1
Twist drill bit HSS DIN 338 type RN 118° 9.5 mm	0625 95	1
Twist drill bit HSS DIN 338 type RN 118° 10 mm	0625 100	1
Twist drill bit HSS DIN 338 type RN 118° 10.5 mm	0625 105	1
Twist drill bit HSS DIN 338 type RN 118° 11 mm	0625 110	1
Twist drill bit HSS DIN 338 type RN 118° 11.5 mm	0625 115	1
Twist drill bit HSS DIN 338 type RN 118° 12 mm	0625 120	1
Twist drill bit HSS DIN 338 type RN 118° 12.5 mm	0625 125	1
Twist drill bit HSS DIN 338 type RN 118° 13 mm	0625 130	1

Twist drill assortment HSS DIN 338 type RN 130°

91 pieces Steel precision drill for general, broad applications in steel up to 850 N/mm² strength and cast iron.

- Optimised cross thinning for 20% less infed force and more rapid work progress with less expenditure of effort
- Optimum cross-grinding for highly accurate drilling without centring, even on curved surfaces
- Highly precise tip grinding for precise drilling
- Vaporised surface for excellent adhesion of cooling lubricants and a reduced tendency towards build-up



Number of pieces in assortment/set	91 PCS
Surface	Vaporised
Standard/drilling depth	DIN 338/5xD



Art. no. 0624 000 003

P. Qty.: 1

Twist drill bit HSS DIN 338 type RW

Aluminium professional drill for precision drilling in soft and long-chipping materials with a strength up to 600 N/mm² (e.g. aluminium and aluminium alloys ≤ 10% Si, zinc, copper, thermosetting plastics).

- Short design ensures highly accurate drilling
- Self-centring
- HC (High Speed Cutting) grinding and precise cutting geometry ensure consistent drilled hole quality while at the same time guaranteeing a high degree of precision and a long service life
- The bare spiral groove ensures excellent chip removal



Suitable for machine type	Drill, Cordless screwdrivers, Pedestal drilling machine
Material to be processed	Non-ferrous metal
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 338/5xD
Shank style	Cylindrical
Surface	Plain
Cutting material	HSS
Type	RW
Angle of the tip	130 Degree
Service life (points system)	●●●●
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Versatility (points system)	●○○○
Drilling behaviour (point system)	●●●●
Self-centring	Yes
Suitable for tensile strength up to	600 N/mm ²

Continuation **Twist drill bit HSS DIN 338 type RW**

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
1 mm	34 mm	12 mm	0624 110 100	10
1.5 mm	40 mm	18 mm	0624 110 150	10
2 mm	49 mm	24 mm	0624 110 200	10
2.5 mm	57 mm	30 mm	0624 110 250	10
3 mm	61 mm	33 mm	0624 110 300	10
3.3 mm	65 mm	36 mm	0624 110 330	10
3.5 mm	70 mm	39 mm	0624 110 350	10
4 mm	75 mm	43 mm	0624 110 400	10
4.2 mm	75 mm	43 mm	0624 110 420	10
4.5 mm	80 mm	47 mm	0624 110 450	10
5 mm	86 mm	52 mm	0624 110 500	10
5.5 mm	93 mm	57 mm	0624 110 550	10
6 mm	93 mm	57 mm	0624 110 600	10
6.5 mm	101 mm	63 mm	0624 110 650	10
6.8 mm	109 mm	69 mm	0624 110 680	10
7 mm	109 mm	69 mm	0624 110 700	10
7.5 mm	109 mm	69 mm	0624 110 750	10
8 mm	117 mm	75 mm	0624 110 800	10
8.5 mm	117 mm	75 mm	0624 110 850	5
9 mm	125 mm	81 mm	0624 110 900	5
9.5 mm	125 mm	81 mm	0624 110 950	5
10 mm	133 mm	87 mm	0624 111 000	5
10.2 mm	133 mm	87 mm	0624 111 020	5
10.5 mm	133 mm	87 mm	0624 111 050	1
11 mm	142 mm	94 mm	0624 111 100	1
11.5 mm	142 mm	94 mm	0624 111 150	1
12 mm	151 mm	101 mm	0624 111 200	1
12.5 mm	151 mm	101 mm	0624 111 250	1
13 mm	151 mm	101 mm	0624 111 300	1

See overview tables for drill/material assignments



Twist drill bit HSS DIN 340 type RN 130°

The long steel precision drill bit for deep drilling in steel up to 850 N/mm² strength and in cast iron.

- Optimised cross thinning for 20% lower infeed force compared to conventional drills as well as quicker progress and a more gentle way of working
- Optimised split point for precise spot drilling without centring, even on curved surfaces
- Very precise point geometry for accurate drill holes
- Vaporised surface for excellent adhesive capability of coolant lubricants and reduced tendency for material to build up

Suitable for machine type	Drill, Cordless screwdrivers, Pedestal drilling machine
Material to be processed	Steel, Cast iron
Quality	ZEBRA-Premium
Standard/drilling depth	DIN 340/10xD
Shank style	Cylindrical
Surface	Vaporised
Cutting material	HSS
Type	RN
Angle of the tip	130 Degree
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○



Continuation **Twist drill bit HSS DIN 340 type RN 130°**

Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	850 N/mm ²

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
1 mm	56 mm	33 mm	0624 200 100	10
1.1 mm	60 mm	37 mm	0624 200 110	10
1.2 mm	65 mm	41 mm	0624 200 120	10
1.3 mm	65 mm	41 mm	0624 200 130	10
1.4 mm	70 mm	45 mm	0624 200 140	10
1.5 mm	70 mm	45 mm	0624 200 150	10
1.6 mm	76 mm	50 mm	0624 200 160	10
1.7 mm	76 mm	50 mm	0624 200 170	10
1.8 mm	80 mm	53 mm	0624 200 180	10
1.9 mm	80 mm	53 mm	0624 200 190	10
2 mm	85 mm	56 mm	0624 200 200	10
2.1 mm	85 mm	56 mm	0624 200 210	10
2.2 mm	90 mm	59 mm	0624 200 220	10
2.3 mm	90 mm	59 mm	0624 200 230	10
2.4 mm	95 mm	62 mm	0624 200 240	10
2.5 mm	95 mm	62 mm	0624 200 250	10
2.6 mm	95 mm	62 mm	0624 200 260	10
2.7 mm	100 mm	66 mm	0624 200 270	10
2.8 mm	100 mm	66 mm	0624 200 280	10
2.9 mm	100 mm	66 mm	0624 200 290	10
3 mm	100 mm	66 mm	0624 200 300	10
3.1 mm	106 mm	69 mm	0624 200 310	10
3.2 mm	106 mm	69 mm	0624 200 320	10
3.3 mm	106 mm	69 mm	0624 200 330	10
3.4 mm	112 mm	73 mm	0624 200 340	10
3.5 mm	112 mm	73 mm	0624 200 350	10
3.6 mm	112 mm	73 mm	0624 200 360	10
3.7 mm	112 mm	73 mm	0624 200 370	10
3.8 mm	119 mm	78 mm	0624 200 380	10
3.9 mm	119 mm	78 mm	0624 200 390	10
4 mm	119 mm	78 mm	0624 200 400	10
4.1 mm	119 mm	78 mm	0624 200 410	10
4.2 mm	119 mm	78 mm	0624 200 420	10
4.3 mm	126 mm	82 mm	0624 200 430	10
4.4 mm	126 mm	82 mm	0624 200 440	10
4.5 mm	126 mm	82 mm	0624 200 450	10
4.6 mm	126 mm	82 mm	0624 200 460	10
4.7 mm	126 mm	82 mm	0624 200 470	10
4.8 mm	132 mm	87 mm	0624 200 480	10
4.9 mm	132 mm	87 mm	0624 200 490	10
5 mm	132 mm	87 mm	0624 200 500	10
5.1 mm	132 mm	87 mm	0624 200 510	10
5.2 mm	132 mm	87 mm	0624 200 520	10
5.3 mm	132 mm	87 mm	0624 200 530	10
5.4 mm	139 mm	91 mm	0624 200 540	10
5.5 mm	139 mm	91 mm	0624 200 550	10
5.6 mm	139 mm	91 mm	0624 200 560	10

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
5.7 mm	139 mm	91 mm	0624 200 570	10
5.8 mm	139 mm	91 mm	0624 200 580	10
5.9 mm	139 mm	91 mm	0624 200 590	10
6 mm	139 mm	91 mm	0624 200 600	10
6.2 mm	148 mm	97 mm	0624 200 620	10
6.5 mm	148 mm	97 mm	0624 200 650	10
6.8 mm	156 mm	102 mm	0624 200 680	10
7 mm	156 mm	102 mm	0624 200 700	10
7.5 mm	156 mm	102 mm	0624 200 750	10
8 mm	165 mm	109 mm	0624 200 800	10
8.5 mm	165 mm	109 mm	0624 200 850	5
9 mm	175 mm	115 mm	0624 200 900	5
9.5 mm	175 mm	115 mm	0624 200 950	5
10 mm	184 mm	121 mm	0624 201 000	5
10.2 mm	184 mm	121 mm	0624 201 020	5
10.5 mm	184 mm	121 mm	0624 201 050	1
11 mm	195 mm	128 mm	0624 201 100	1
11.5 mm	195 mm	128 mm	0624 201 150	1
12 mm	205 mm	134 mm	0624 201 200	1
12.5 mm	205 mm	134 mm	0624 201 250	1
13 mm	205 mm	134 mm	0624 201 300	1

Twist drill bit HSS DIN 345 type RN

Excellent value steel morse taper drill for general, broad applications in steel with a strength of up to 850 N/mm² and cast iron for use in column-type drills.



- Optimum cross-grinding for highly accurate drilling without centring, even on curved surfaces
- Vaporised surface for excellent adhesion of cooling lubricants and a reduced tendency towards build-up

Suitable for machine type	Pedestal drilling machine
Material to be processed	Steel, Cast iron
Quality	Würth-Standard
Standard/drilling depth	DIN 345/5xD
Shank style	Morse taper
Surface	Vaporised
Cutting material	HSS
Type	RN
Angle of the tip	118 Degree
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●○
Versatility (points system)	●●○
Drilling behaviour (point system)	●●●○
Self-centring	Yes
Suitable for tensile strength up to	850 N/mm ²

Continuation **Twist drill bit HSS DIN 345 type RN**

Diameter (Ø)	Suitable for morse taper tools	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
10 mm	MK 1	168 mm	87 mm	0625 301 000	1
10.5 mm	MK 1	168 mm	87 mm	0625 301 050	1
10.75 mm	MK 1	175 mm	94 mm	0625 301 075	1
11 mm	MK 1	175 mm	94 mm	0625 301 100	1
11.25 mm	MK 1	175 mm	94 mm	0625 301 125	1
11.5 mm	MK 1	175 mm	94 mm	0625 301 150	1
11.75 mm	MK 1	175 mm	94 mm	0625 301 175	1
12 mm	MK 1	182 mm	101 mm	0625 301 200	1
12.25 mm	MK 1	182 mm	101 mm	0625 301 225	1
12.5 mm	MK 1	182 mm	101 mm	0625 301 250	1
12.75 mm	MK 1	182 mm	101 mm	0625 301 275	1
13 mm	MK 1	182 mm	101 mm	0625 301 300	1
13.5 mm	MK 1	189 mm	108 mm	0625 301 350	1
14 mm	MK 1	189 mm	108 mm	0625 301 400	1
14.25 mm	MK 2	212 mm	114 mm	0625 301 425	1
14.5 mm	MK 2	212 mm	114 mm	0625 301 450	1
14.75 mm	MK 2	212 mm	114 mm	0625 301 475	1
15 mm	MK 2	212 mm	114 mm	0625 301 500	1
15.25 mm	MK 2	218 mm	120 mm	0625 301 525	1
15.5 mm	MK 2	218 mm	120 mm	0625 301 550	1
15.75 mm	MK 2	218 mm	120 mm	0625 301 575	1
16 mm	MK 2	218 mm	120 mm	0625 301 600	1
16.25 mm	MK 2	223 mm	125 mm	0625 301 625	1
16.5 mm	MK 2	223 mm	125 mm	0625 301 650	1
16.75 mm	MK 2	223 mm	125 mm	0625 301 675	1
17 mm	MK 2	223 mm	125 mm	0625 301 700	1
17.25 mm	MK 2	228 mm	130 mm	0625 301 725	1
17.5 mm	MK 2	228 mm	130 mm	0625 301 750	1
17.75 mm	MK 2	228 mm	130 mm	0625 301 775	1
18 mm	MK 2	228 mm	130 mm	0625 301 800	1
18.25 mm	MK 2	233 mm	135 mm	0625 301 825	1
18.5 mm	MK 2	233 mm	135 mm	0625 301 850	1
18.75 mm	MK 2	233 mm	135 mm	0625 301 875	1
19 mm	MK 2	233 mm	135 mm	0625 301 900	1
19.25 mm	MK 2	238 mm	140 mm	0625 301 925	1
19.5 mm	MK 2	238 mm	140 mm	0625 301 950	1
19.75 mm	MK 2	238 mm	140 mm	0625 301 975	1
20 mm	MK 2	238 mm	140 mm	0625 302 000	1
20.25 mm	MK 2	243 mm	145 mm	0625 302 025	1
20.5 mm	MK 2	243 mm	145 mm	0625 302 050	1
20.75 mm	MK 2	243 mm	145 mm	0625 302 075	1
21 mm	MK 2	243 mm	145 mm	0625 302 100	1
21.25 mm	MK 2	248 mm	150 mm	0625 302 125	1
21.5 mm	MK 2	248 mm	150 mm	0625 302 150	1
21.75 mm	MK 2	248 mm	150 mm	0625 302 175	1
22 mm	MK 2	248 mm	150 mm	0625 302 200	1
22.25 mm	MK 2	248 mm	150 mm	0625 302 225	1
22.5 mm	MK 2	253 mm	155 mm	0625 302 250	1
23 mm	MK 2	253 mm	155 mm	0625 302 300	1
23.5 mm	MK 3	276 mm	155 mm	0625 302 350	1
23.75 mm	MK 3	281 mm	160 mm	0625 302 375	1
24 mm	MK 3	281 mm	160 mm	0625 302 400	1

Diameter (Ø)	Suitable for morse taper tools	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
24.5 mm	MK 3	281 mm	160 mm	0625 302 450	1
24.75 mm	MK 3	281 mm	160 mm	0625 302 475	1
25 mm	MK 3	281 mm	160 mm	0625 302 500	1
25.25 mm	MK 3	286 mm	165 mm	0625 302 525	1
25.5 mm	MK 3	286 mm	165 mm	0625 302 550	1
25.75 mm	MK 3	286 mm	165 mm	0625 302 575	1
26 mm	MK 3	286 mm	165 mm	0625 302 600	1
26.5 mm	MK 3	286 mm	165 mm	0625 302 650	1
27 mm	MK 3	291 mm	170 mm	0625 302 700	1
27.5 mm	MK 3	291 mm	170 mm	0625 302 750	1
27.75 mm	MK 3	291 mm	170 mm	0625 302 775	1
28 mm	MK 3	291 mm	170 mm	0625 302 800	1
28.25 mm	MK 3	296 mm	175 mm	0625 302 825	1
28.5 mm	MK 3	296 mm	175 mm	0625 302 850	1
28.75 mm	MK 3	296 mm	175 mm	0625 302 875	1
29 mm	MK 3	296 mm	175 mm	0625 302 900	1
29.5 mm	MK 3	296 mm	175 mm	0625 302 950	1
30 mm	MK 3	296 mm	175 mm	0625 303 000	1
30.25 mm	MK 3	301 mm	180 mm	0625 303 025	1
30.5 mm	MK 3	301 mm	180 mm	0625 303 050	1
31 mm	MK 3	301 mm	180 mm	0625 303 100	1
31.5 mm	MK 3	301 mm	180 mm	0625 303 150	1
31.75 mm	MK 4	306 mm	185 mm	0625 303 175	1
32 mm	MK 4	334 mm	185 mm	0625 303 200	1
32.5 mm	MK 4	334 mm	185 mm	0625 303 250	1
33 mm	MK 4	334 mm	185 mm	0625 303 300	1
33.5 mm	MK 4	334 mm	185 mm	0625 303 350	1
34 mm	MK 4	339 mm	190 mm	0625 303 400	1
34.5 mm	MK 4	339 mm	190 mm	0625 303 450	1
35 mm	MK 4	339 mm	190 mm	0625 303 500	1
35.5 mm	MK 4	339 mm	190 mm	0625 303 550	1
36 mm	MK 4	344 mm	195 mm	0625 303 600	1
36.5 mm	MK 4	344 mm	195 mm	0625 303 650	1
37 mm	MK 4	344 mm	195 mm	0625 303 700	1
37.5 mm	MK 4	344 mm	195 mm	0625 303 750	1
38 mm	MK 4	349 mm	200 mm	0625 303 800	1
38.5 mm	MK 4	349 mm	200 mm	0625 303 850	1
39 mm	MK 4	349 mm	200 mm	0625 303 900	1
39.5 mm	MK 4	349 mm	200 mm	0625 303 950	1
40 mm	MK 4	349 mm	200 mm	0625 304 000	1
40.5 mm	MK 4	354 mm	205 mm	0625 304 050	1
41 mm	MK 4	354 mm	205 mm	0625 304 100	1
41.5 mm	MK 4	354 mm	205 mm	0625 304 150	1
42 mm	MK 4	354 mm	205 mm	0625 304 200	1
42.5 mm	MK 4	354 mm	205 mm	0625 304 250	1
43 mm	MK 4	359 mm	210 mm	0625 304 300	1
44 mm	MK 4	359 mm	210 mm	0625 304 400	1
45 mm	MK 4	359 mm	210 mm	0625 304 500	1
46 mm	MK 4	364 mm	215 mm	0625 304 600	1
47 mm	MK 4	364 mm	215 mm	0625 304 700	1
48 mm	MK 4	369 mm	220 mm	0625 304 800	1
49 mm	MK 4	369 mm	220 mm	0625 304 900	1
50 mm	MK 4	369 mm	220 mm	0625 305 000	1
51 mm	MK 5	412 mm	225 mm	0625 305 100	1

Continuation **Twist drill bit HSS DIN 345 type RN**

Diameter (Ø)	Suitable for morse taper tools	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
52 mm	MK 5	412 mm	225 mm	0625 305 200	1
53 mm	MK 5	412 mm	225 mm	0625 305 300	1
54 mm	MK 5	417 mm	230 mm	0625 305 400	1
55 mm	MK 5	417 mm	230 mm	0625 305 500	1
56 mm	MK 5	417 mm	230 mm	0625 305 600	1
57 mm	MK 5	422 mm	235 mm	0625 305 700	1
58 mm	MK 5	422 mm	235 mm	0625 305 800	1
59 mm	MK 5	422 mm	235 mm	0625 305 900	1
60 mm	MK 5	422 mm	235 mm	0625 306 000	1

See overview tables for drill/material assignments

Twist drill bit HSS Pilot WN type RN

**HSS drill bit with centring tip for universal use in wood
and steel, tip angle 118°/174°**



Highly accurate drilling

The robust twist drill with extra-long design with self-centring pilot tip ensures highly accurate drilling

Also suitable for drilling deep holes

The reinforced core provides sufficient stability even for the long drill lengths required

Suitable for machine type	Cordless screwdrivers, Drill
Material to be processed	Wood, Steel
Quality	Würth-Standard
Standard/drilling depth	CS/25xD
Shank style	Cylindrical
Surface	Vaporised
Cutting material	HSS
Type	RN
Angle of the tip	118 Degree
Service life (points system)	●●○○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●○○
Versatility (points system)	●○○○
Drilling behaviour (point system)	●●○○
Self-centring	Yes

Diameter (Ø)	Length (l1)	Chip flute length (l2)	Art. no.	P. Qty.
4 mm	220 mm	150 mm	0627 004 220	3
5 mm	245 mm	170 mm	0627 005 245	3
6 mm	260 mm	180 mm	0627 006 260	3
7 mm	290 mm	200 mm	0627 007 290	3
8 mm	305 mm	210 mm	0627 008 305	3
10 mm	340 mm	235 mm	0627 010 340	3

To achieve optimum drilling progress and avoid jamming, frequent „ventilation“ of the drill bit is also required for large drilling depths. For drill bit/material assignments, see overview tables

Ideal for predrilling in profiles for AMO III screws:

- Screw Ø 7.5 mm, 6 mm drill bit
- Screw Ø 11.5 mm, 10 mm drill bit

Solid carbide twist drill bit, DIN 6537K, internal cooling

With internal cooling channels for universal applications. High robustness and universal application owing to straight main cutter. Special grinding ensures optimal chip breakage, high centring accuracy and low cutting forces.



CNC|TEC

Product code	6717
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Copper, Brass, Aluminium
Standards	DIN 6537
Design	Short
Surface	TiAlN-S
Max. drilling depth (D)	3xD
Cutting material	VHM
Number of guiding chamfers	2 PCS
Angle of the tip	140 Degree
Number of cutting edges	2 PCS
Coolant supply	Internal
Tolerance of cutting edge diameter	h7
Tolerance of shank diameter	h6

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
1/2 in	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 014 207	1
1/2 in	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 014 407	1
1/2 in	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 014 607	1
1/4 in	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 014 203	1
1/4 in	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 014 403	1
1/4 in	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 014 603	1
1/8 in	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 014 201	1
1/8 in	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 014 401	1
1/8 in	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 014 601	1
1 mm	Cylindrical DIN 6535-HA	45 mm	7 mm	4 mm	5443 001 151	1
1 mm	Cylindrical DIN 6535-HB	45 mm	7 mm	4 mm	5443 001 265	1
1 mm	Cylindrical DIN 6535-HE	45 mm	7 mm	4 mm	5443 001 379	1
1.1 mm	Cylindrical DIN 6535-HA	45 mm	7 mm	4 mm	5443 001 152	1
1.1 mm	Cylindrical DIN 6535-HB	45 mm	7 mm	4 mm	5443 001 266	1

Continuation **Solid carbide twist drill bit, DIN 6537K, internal cooling**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
1.1 mm	Cylindrical DIN 6535-HE	45 mm	7 mm	4 mm	5443 001 380	1
1.2 mm	Cylindrical DIN 6535-HA	45 mm	7 mm	4 mm	5443 001 153	1
1.2 mm	Cylindrical DIN 6535-HB	45 mm	7 mm	4 mm	5443 001 267	1
1.2 mm	Cylindrical DIN 6535-HE	45 mm	7 mm	4 mm	5443 001 381	1
1.3 mm	Cylindrical DIN 6535-HA	45 mm	7 mm	4 mm	5443 001 154	1
1.3 mm	Cylindrical DIN 6535-HB	45 mm	7 mm	4 mm	5443 001 268	1
1.3 mm	Cylindrical DIN 6535-HE	45 mm	7 mm	4 mm	5443 001 382	1
1.4 mm	Cylindrical DIN 6535-HA	45 mm	7 mm	4 mm	5443 001 155	1
1.4 mm	Cylindrical DIN 6535-HB	45 mm	7 mm	4 mm	5443 001 269	1
1.4 mm	Cylindrical DIN 6535-HE	45 mm	7 mm	4 mm	5443 001 383	1
1.5 mm	Cylindrical DIN 6535-HA	55 mm	14 mm	4 mm	5443 001 156	1
1.5 mm	Cylindrical DIN 6535-HB	55 mm	14 mm	4 mm	5443 001 270	1
1.5 mm	Cylindrical DIN 6535-HE	55 mm	14 mm	4 mm	5443 001 384	1
1.6 mm	Cylindrical DIN 6535-HA	55 mm	14 mm	4 mm	5443 001 157	1
1.6 mm	Cylindrical DIN 6535-HB	55 mm	14 mm	4 mm	5443 001 271	1
1.6 mm	Cylindrical DIN 6535-HE	55 mm	14 mm	4 mm	5443 001 385	1
1.7 mm	Cylindrical DIN 6535-HA	55 mm	14 mm	4 mm	5443 001 158	1
1.7 mm	Cylindrical DIN 6535-HB	55 mm	14 mm	4 mm	5443 001 272	1
1.7 mm	Cylindrical DIN 6535-HE	55 mm	14 mm	4 mm	5443 001 386	1
1.8 mm	Cylindrical DIN 6535-HA	55 mm	14 mm	4 mm	5443 001 159	1
1.8 mm	Cylindrical DIN 6535-HB	55 mm	14 mm	4 mm	5443 001 273	1
1.8 mm	Cylindrical DIN 6535-HE	55 mm	14 mm	4 mm	5443 001 387	1
1.9 mm	Cylindrical DIN 6535-HA	55 mm	14 mm	4 mm	5443 001 160	1
1.9 mm	Cylindrical DIN 6535-HB	55 mm	14 mm	4 mm	5443 001 274	1
1.9 mm	Cylindrical DIN 6535-HE	55 mm	14 mm	4 mm	5443 001 388	1
2 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 001 161	1
2 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 001 275	1
2 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 001 389	1
2.1 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 001 162	1
2.1 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 001 276	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
2.1 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 001 390	1
2.2 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 001 163	1
2.2 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 001 277	1
2.2 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 001 391	1
2.3 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 001 164	1
2.3 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 001 278	1
2.3 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 001 392	1
2.4 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 001 165	1
2.4 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 001 279	1
2.4 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 001 393	1
2.5 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 001 166	1
2.5 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 001 280	1
2.5 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 001 394	1
2.6 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 001 167	1
2.6 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 001 281	1
2.6 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 001 395	1
2.7 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 001 168	1
2.7 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 001 282	1
2.7 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 001 396	1
2.8 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 001 169	1
2.8 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 001 283	1
2.8 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 001 397	1
2.9 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 001 170	1
2.9 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 001 284	1
2.9 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 001 398	1
3/8 in	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 014 205	1
3/8 in	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 014 405	1
3/8 in	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 014 605	1
3/16 in	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 014 202	1
3/16 in	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 014 402	1
3/16 in	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 014 602	1
3 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 001 171	1

Continuation **Solid carbide twist drill bit, DIN 6537K, internal cooling**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
3 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 001 285	1
3 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 001 399	1
3.1 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 001 172	1
3.1 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 001 286	1
3.1 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 001 400	1
3.2 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 001 173	1
3.2 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 001 287	1
3.2 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 001 401	1
3.3 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 001 174	1
3.3 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 001 288	1
3.3 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 001 402	1
3.4 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 001 175	1
3.4 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 001 289	1
3.4 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 001 403	1
3.5 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 001 176	1
3.5 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 001 290	1
3.5 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 001 404	1
3.6 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 001 177	1
3.6 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 001 291	1
3.6 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 001 405	1
3.7 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 001 178	1
3.7 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 001 292	1
3.7 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 001 406	1
3.8 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 001 179	1
3.8 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 001 293	1
3.8 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 001 407	1
3.9 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 001 180	1
3.9 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 001 294	1
3.9 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 001 408	1
4 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 001 181	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
4 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 001 295	1
4 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 001 409	1
4.1 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 001 182	1
4.1 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 001 296	1
4.1 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 001 410	1
4.2 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 001 183	1
4.2 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 001 297	1
4.2 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 001 411	1
4.3 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 001 184	1
4.3 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 001 298	1
4.3 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 001 412	1
4.4 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 001 185	1
4.4 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 001 299	1
4.4 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 001 413	1
4.5 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 001 186	1
4.5 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 001 300	1
4.5 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 001 414	1
4.6 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 001 187	1
4.6 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 001 301	1
4.6 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 001 415	1
4.7 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 001 188	1
4.7 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 001 302	1
4.7 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 001 416	1
4.8 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 189	1
4.8 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 303	1
4.8 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 417	1
4.9 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 190	1
4.9 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 304	1
4.9 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 418	1
5/16 in	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 014 204	1
5/16 in	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 014 404	1
5/16 in	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 014 604	1

Continuation **Solid carbide twist drill bit, DIN 6537K, internal cooling**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
5 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 191	1
5 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 305	1
5 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 419	1
5.1 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 192	1
5.1 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 306	1
5.1 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 420	1
5.2 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 193	1
5.2 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 307	1
5.2 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 421	1
5.3 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 194	1
5.3 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 308	1
5.3 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 422	1
5.4 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 195	1
5.4 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 309	1
5.4 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 423	1
5.5 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 196	1
5.5 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 310	1
5.5 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 424	1
5.6 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 197	1
5.6 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 311	1
5.6 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 425	1
5.7 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 198	1
5.7 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 312	1
5.7 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 426	1
5.8 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 199	1
5.8 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 313	1
5.8 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 427	1
5.9 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 200	1
5.9 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 314	1
5.9 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 428	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
6 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 201	1
6 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 315	1
6 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 429	1
6.1 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 001 202	1
6.1 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 001 316	1
6.1 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 001 430	1
6.2 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 001 203	1
6.2 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 001 317	1
6.2 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 001 431	1
6.3 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 001 204	1
6.3 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 001 318	1
6.3 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 001 432	1
6.4 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 001 205	1
6.4 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 001 319	1
6.4 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 001 433	1
6.5 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 001 206	1
6.5 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 001 320	1
6.5 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 001 434	1
6.6 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 001 207	1
6.6 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 001 321	1
6.6 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 001 435	1
6.7 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 001 208	1
6.7 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 001 322	1
6.7 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 001 436	1
6.8 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 001 209	1
6.8 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 001 323	1
6.8 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 001 437	1
6.9 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 001 210	1
6.9 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 001 324	1
6.9 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 001 438	1
7/16 in	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 014 206	1
7/16 in	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 014 406	1

Continuation **Solid carbide twist drill bit, DIN 6537K, internal cooling**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
7/16 in	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 014 606	1
7 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 001 211	1
7 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 001 325	1
7 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 001 439	1
7.1 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 001 212	1
7.1 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 001 326	1
7.1 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 440	1
7.2 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 001 213	1
7.2 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 001 327	1
7.2 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 441	1
7.3 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 001 214	1
7.3 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 001 328	1
7.3 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 442	1
7.4 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 001 215	1
7.4 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 001 329	1
7.4 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 443	1
7.5 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 001 216	1
7.5 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 001 330	1
7.5 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 444	1
7.6 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 001 217	1
7.6 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 001 331	1
7.6 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 445	1
7.7 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 001 218	1
7.7 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 001 332	1
7.7 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 446	1
7.8 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 001 219	1
7.8 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 001 333	1
7.8 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 447	1
7.9 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 001 220	1
7.9 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 001 334	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
7.9 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 448	1
8 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 001 221	1
8 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 001 335	1
8 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 449	1
8.1 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 222	1
8.1 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 336	1
8.1 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 450	1
8.2 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 223	1
8.2 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 337	1
8.2 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 451	1
8.3 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 224	1
8.3 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 338	1
8.3 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 452	1
8.4 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 225	1
8.4 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 339	1
8.4 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 453	1
8.5 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 226	1
8.5 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 340	1
8.5 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 454	1
8.6 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 227	1
8.6 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 341	1
8.6 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 455	1
8.7 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 228	1
8.7 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 342	1
8.7 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 456	1
8.8 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 229	1
8.8 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 343	1
8.8 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 457	1
8.9 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 230	1
8.9 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 344	1
8.9 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 458	1
9 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 231	1

Continuation **Solid carbide twist drill bit, DIN 6537K, internal cooling**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
9 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 345	1
9 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 459	1
9.1 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 232	1
9.1 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 346	1
9.1 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 460	1
9.2 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 233	1
9.2 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 347	1
9.2 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 461	1
9.3 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 234	1
9.3 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 348	1
9.3 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 462	1
9.4 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 235	1
9.4 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 349	1
9.4 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 463	1
9.5 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 236	1
9.5 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 350	1
9.5 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 464	1
9.6 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 237	1
9.6 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 351	1
9.6 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 465	1
9.7 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 238	1
9.7 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 352	1
9.7 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 466	1
9.8 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 239	1
9.8 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 353	1
9.8 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 467	1
9.9 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 240	1
9.9 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 354	1
9.9 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 468	1
10 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 001 241	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
10 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 001 355	1
10 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 469	1
10.2 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 001 242	1
10.2 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 001 356	1
10.2 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 470	1
10.5 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 001 243	1
10.5 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 001 357	1
10.5 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 471	1
10.8 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 001 244	1
10.8 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 001 358	1
10.8 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 472	1
11 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 001 245	1
11 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 001 359	1
11 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 473	1
11.2 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 001 246	1
11.2 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 001 360	1
11.2 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 474	1
11.5 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 001 247	1
11.5 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 001 361	1
11.5 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 475	1
11.8 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 001 248	1
11.8 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 001 362	1
11.8 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 476	1
12 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 001 249	1
12 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 001 363	1
12 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 477	1
12.2 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 001 250	1
12.2 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 001 364	1
12.2 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 478	1
12.5 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 001 251	1
12.5 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 001 365	1
12.5 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 479	1

Continuation **Solid carbide twist drill bit, DIN 6537K, internal cooling**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
12.8 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 001 252	1
12.8 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 001 366	1
12.8 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 480	1
13 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 001 253	1
13 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 001 367	1
13 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 481	1
13.5 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 001 254	1
13.5 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 001 368	1
13.5 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 482	1
13.8 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 001 255	1
13.8 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 001 369	1
13.8 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 483	1
14 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 001 256	1
14 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 001 370	1
14 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 484	1
14.2 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 001 257	1
14.2 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 001 371	1
14.2 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 485	1
14.5 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 001 258	1
14.5 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 001 372	1
14.5 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 486	1
14.8 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 001 259	1
14.8 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 001 373	1
14.8 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 487	1
15 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 001 260	1
15 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 001 374	1
15 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 488	1
15.2 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 001 261	1
15.2 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 001 375	1
15.2 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 489	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
15.5 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 001 262	1
15.5 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 001 376	1
15.5 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 490	1
15.8 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 001 263	1
15.8 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 001 377	1
15.8 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 491	1
16 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 001 264	1
16 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 001 378	1
16 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 492	1

Solid carbide twist drill bit, DIN 6537K

For universal applications. High robustness and universal application owing to straight main cutter. Special grinding ensures optimal chip breakage, high centring accuracy and low cutting forces.



CNC|TEC

Product code	6727
Material to be processed	Steel, Cast metal, Stainless steel, Copper, Brass, Aluminium, Plastic
Standards	DIN 6537
Design	Short
Surface	TiAlN-S
Max. drilling depth (D)	3xD
Cutting material	VHM
Number of guiding chamfers	2 PCS
Angle of the tip	140 Degree
Number of cutting edges	2 PCS
Coolant supply	External
Tolerance of cutting edge diameter	h7
Tolerance of shank diameter	h6

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
0.9 mm	Cylindrical DIN 6535-HA	45 mm	7 mm	4 mm	5443 000 451	1
0.9 mm	Cylindrical DIN 6535-HB	45 mm	7 mm	4 mm	5443 000 683	1
0.9 mm	Cylindrical DIN 6535-HE	45 mm	7 mm	4 mm	5443 000 913	1
1 mm	Cylindrical DIN 6535-HA	45 mm	7 mm	4 mm	5443 000 452	1
1 mm	Cylindrical DIN 6535-HB	45 mm	7 mm	4 mm	5443 000 684	1
1 mm	Cylindrical DIN 6535-HE	45 mm	7 mm	4 mm	5443 000 914	1
1.1 mm	Cylindrical DIN 6535-HA	45 mm	7 mm	4 mm	5443 000 453	1

Continuation **Solid carbide twist drill bit, DIN 6537K**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
1.1 mm	Cylindrical DIN 6535-HB	45 mm	7 mm	4 mm	5443 000 685	1
1.1 mm	Cylindrical DIN 6535-HE	45 mm	7 mm	4 mm	5443 000 915	1
1.2 mm	Cylindrical DIN 6535-HA	45 mm	7 mm	4 mm	5443 000 454	1
1.2 mm	Cylindrical DIN 6535-HB	45 mm	7 mm	4 mm	5443 000 686	1
1.2 mm	Cylindrical DIN 6535-HE	45 mm	7 mm	4 mm	5443 000 916	1
1.3 mm	Cylindrical DIN 6535-HA	45 mm	7 mm	4 mm	5443 000 455	1
1.3 mm	Cylindrical DIN 6535-HB	45 mm	7 mm	4 mm	5443 000 687	1
1.3 mm	Cylindrical DIN 6535-HE	45 mm	7 mm	4 mm	5443 000 917	1
1.4 mm	Cylindrical DIN 6535-HA	45 mm	7 mm	4 mm	5443 000 456	1
1.4 mm	Cylindrical DIN 6535-HB	45 mm	7 mm	4 mm	5443 000 688	1
1.4 mm	Cylindrical DIN 6535-HE	45 mm	7 mm	4 mm	5443 000 918	1
1.5 mm	Cylindrical DIN 6535-HA	55 mm	14 mm	4 mm	5443 000 457	1
1.5 mm	Cylindrical DIN 6535-HB	55 mm	14 mm	4 mm	5443 000 689	1
1.5 mm	Cylindrical DIN 6535-HE	55 mm	14 mm	4 mm	5443 000 919	1
1.6 mm	Cylindrical DIN 6535-HA	55 mm	14 mm	4 mm	5443 000 458	1
1.6 mm	Cylindrical DIN 6535-HB	55 mm	14 mm	4 mm	5443 000 690	1
1.6 mm	Cylindrical DIN 6535-HE	55 mm	14 mm	4 mm	5443 000 920	1
1.7 mm	Cylindrical DIN 6535-HA	55 mm	14 mm	4 mm	5443 000 459	1
1.7 mm	Cylindrical DIN 6535-HB	55 mm	14 mm	4 mm	5443 000 691	1
1.7 mm	Cylindrical DIN 6535-HE	55 mm	14 mm	4 mm	5443 000 921	1
1.8 mm	Cylindrical DIN 6535-HA	55 mm	14 mm	4 mm	5443 000 460	1
1.8 mm	Cylindrical DIN 6535-HB	55 mm	14 mm	4 mm	5443 000 692	1
1.8 mm	Cylindrical DIN 6535-HE	55 mm	14 mm	4 mm	5443 000 922	1
1.9 mm	Cylindrical DIN 6535-HA	55 mm	14 mm	4 mm	5443 000 461	1
1.9 mm	Cylindrical DIN 6535-HB	55 mm	14 mm	4 mm	5443 000 693	1
1.9 mm	Cylindrical DIN 6535-HE	55 mm	14 mm	4 mm	5443 000 923	1
2 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 000 462	1
2 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 000 694	1
2 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 000 924	1
2.02 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 000 463	1
2.02 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 000 695	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
2.02 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 000 925	1
2.1 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 000 464	1
2.1 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 000 696	1
2.1 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 000 926	1
2.2 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 000 465	1
2.2 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 000 697	1
2.2 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 000 927	1
2.3 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 000 466	1
2.3 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 000 698	1
2.3 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 000 928	1
2.4 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 000 467	1
2.4 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 000 699	1
2.4 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 000 929	1
2.5 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 000 468	1
2.5 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 000 700	1
2.5 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 000 930	1
2.52 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 000 469	1
2.52 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 000 701	1
2.52 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 000 931	1
2.6 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 000 470	1
2.6 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 000 702	1
2.6 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 000 932	1
2.7 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 000 471	1
2.7 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 000 703	1
2.7 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 000 933	1
2.8 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 000 472	1
2.8 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 000 704	1
2.8 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 000 934	1
2.9 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	4 mm	5443 000 473	1
2.9 mm	Cylindrical DIN 6535-HB	55 mm	20 mm	4 mm	5443 000 705	1
2.9 mm	Cylindrical DIN 6535-HE	55 mm	20 mm	4 mm	5443 000 935	1
3 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 000 474	1

Continuation **Solid carbide twist drill bit, DIN 6537K**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
3 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 000 706	1
3 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 000 936	1
3.02 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 000 475	1
3.02 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 000 707	1
3.02 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 000 937	1
3.1 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 000 476	1
3.1 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 000 708	1
3.1 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 000 938	1
3.2 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 000 477	1
3.2 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 000 709	1
3.2 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 000 939	1
3.25 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 000 478	1
3.25 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 000 710	1
3.25 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 000 940	1
3.3 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 000 479	1
3.3 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 000 711	1
3.3 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 000 941	1
3.4 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 000 480	1
3.4 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 000 712	1
3.4 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 000 942	1
3.5 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 000 481	1
3.5 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 000 713	1
3.5 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 000 943	1
3.52 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 000 482	1
3.52 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 000 714	1
3.52 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 000 944	1
3.6 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 000 483	1
3.6 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 000 715	1
3.6 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 000 945	1
3.7 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 000 484	1
3.7 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 000 716	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
3.7 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 000 946	1
3.8 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 485	1
3.8 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 717	1
3.8 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 947	1
3.9 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 486	1
3.9 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 718	1
3.9 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 948	1
4 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 487	1
4 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 719	1
4 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 949	1
4.02 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 488	1
4.02 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 720	1
4.02 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 950	1
4.1 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 489	1
4.1 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 721	1
4.1 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 951	1
4.2 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 490	1
4.2 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 722	1
4.2 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 952	1
4.3 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 491	1
4.3 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 723	1
4.3 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 953	1
4.4 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 492	1
4.4 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 724	1
4.4 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 954	1
4.5 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 493	1
4.5 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 725	1
4.5 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 955	1
4.52 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 494	1
4.52 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 726	1
4.52 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 956	1
4.6 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 495	1

Continuation **Solid carbide twist drill bit, DIN 6537K**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
4.6 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 727	1
4.6 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 957	1
4.65 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 496	1
4.65 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 728	1
4.65 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 958	1
4.7 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 000 497	1
4.7 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 000 729	1
4.7 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 000 959	1
4.8 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 498	1
4.8 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 730	1
4.8 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 960	1
4.9 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 499	1
4.9 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 731	1
4.9 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 961	1
5 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 500	1
5 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 732	1
5 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 962	1
5.02 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 501	1
5.02 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 733	1
5.02 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 963	1
5.1 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 502	1
5.1 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 734	1
5.1 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 964	1
5.2 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 503	1
5.2 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 735	1
5.2 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 965	1
5.3 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 504	1
5.3 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 736	1
5.3 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 966	1
5.4 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 505	1
5.4 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 737	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
5.4 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 967	1
5.5 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 506	1
5.5 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 738	1
5.5 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 968	1
5.52 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 507	1
5.52 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 739	1
5.52 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 969	1
5.55 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 508	1
5.55 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 740	1
5.55 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 970	1
5.6 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 509	1
5.6 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 741	1
5.6 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 971	1
5.65 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 510	1
5.65 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 742	1
5.65 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 972	1
5.7 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 511	1
5.7 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 743	1
5.7 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 973	1
5.8 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 512	1
5.8 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 744	1
5.8 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 974	1
5.9 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 513	1
5.9 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 745	1
5.9 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 975	1
6 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 514	1
6 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 746	1
6 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 976	1
6.02 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 000 515	1
6.02 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 000 747	1
6.02 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 000 977	1
6.1 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 000 516	1

Continuation **Solid carbide twist drill bit, DIN 6537K**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
6.1 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 000 748	1
6.1 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 000 978	1
6.2 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 000 517	1
6.2 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 000 749	1
6.2 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 000 979	1
6.3 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 000 518	1
6.3 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 000 750	1
6.3 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 000 980	1
6.4 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 000 519	1
6.4 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 000 751	1
6.4 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 000 981	1
6.5 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 000 520	1
6.5 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 000 752	1
6.5 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 000 982	1
6.52 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 000 521	1
6.52 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 000 753	1
6.52 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 000 983	1
6.6 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 000 522	1
6.6 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 000 754	1
6.6 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 000 984	1
6.7 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 000 523	1
6.7 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 000 755	1
6.7 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 000 985	1
6.8 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 000 524	1
6.8 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 000 756	1
6.8 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 000 986	1
6.9 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 000 525	1
6.9 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 000 757	1
6.9 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 000 987	1
7 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 000 526	1
7 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 000 758	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
7 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 000 988	1
7.02 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 000 527	1
7.02 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 000 759	1
7.02 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 000 989	1
7.1 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 528	1
7.1 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 760	1
7.1 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 000 990	1
7.2 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 529	1
7.2 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 761	1
7.2 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 000 991	1
7.3 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 530	1
7.3 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 762	1
7.3 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 000 992	1
7.4 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 531	1
7.4 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 763	1
7.4 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 000 993	1
7.45 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 532	1
7.45 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 764	1
7.45 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 000 994	1
7.5 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 533	1
7.5 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 765	1
7.5 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 000 995	1
7.52 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 534	1
7.52 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 766	1
7.52 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 000 996	1
7.55 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 535	1
7.55 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 767	1
7.55 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 000 997	1
7.6 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 536	1
7.6 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 768	1
7.6 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 000 998	1
7.7 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 537	1

Continuation **Solid carbide twist drill bit, DIN 6537K**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
7.7 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 769	1
7.7 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 000 999	1
7.8 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 538	1
7.8 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 770	1
7.8 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 000	1
7.9 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 539	1
7.9 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 771	1
7.9 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 001	1
8 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 540	1
8 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 772	1
8 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 002	1
8.02 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 000 541	1
8.02 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 000 773	1
8.02 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 001 003	1
8.1 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 542	1
8.1 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 774	1
8.1 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 004	1
8.2 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 543	1
8.2 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 775	1
8.2 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 005	1
8.3 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 544	1
8.3 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 776	1
8.3 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 006	1
8.4 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 545	1
8.4 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 777	1
8.4 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 007	1
8.5 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 546	1
8.5 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 778	1
8.5 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 008	1
8.52 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 547	1
8.52 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 779	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
8.52 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 009	1
8.6 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 548	1
8.6 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 780	1
8.6 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 010	1
8.7 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 549	1
8.7 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 781	1
8.7 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 011	1
8.8 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 550	1
8.8 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 782	1
8.8 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 012	1
8.9 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 551	1
8.9 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 783	1
8.9 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 013	1
9 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 552	1
9 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 784	1
9 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 014	1
9.02 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 553	1
9.02 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 785	1
9.02 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 015	1
9.1 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 554	1
9.1 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 786	1
9.1 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 016	1
9.2 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 555	1
9.2 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 787	1
9.2 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 017	1
9.25 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 556	1
9.25 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 788	1
9.25 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 018	1
9.3 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 557	1
9.3 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 789	1
9.3 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 019	1
9.35 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 558	1

Continuation **Solid carbide twist drill bit, DIN 6537K**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
9.35 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 790	1
9.35 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 020	1
9.4 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 559	1
9.4 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 791	1
9.4 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 021	1
9.5 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 560	1
9.5 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 792	1
9.5 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 022	1
9.52 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 561	1
9.52 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 793	1
9.52 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 023	1
9.55 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 562	1
9.55 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 794	1
9.55 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 024	1
9.6 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 563	1
9.6 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 795	1
9.6 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 025	1
9.7 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 564	1
9.7 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 796	1
9.7 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 026	1
9.8 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 565	1
9.8 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 797	1
9.8 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 027	1
9.9 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 566	1
9.9 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 000 798	1
9.9 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 001 028	1
10 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 567	1
10 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 015 001	1
10 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 015 201	1
10.02 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 000 568	1
10.02 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 015 002	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
10.02 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 015 202	1
10.1 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 569	1
10.1 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 799	1
10.1 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 029	1
10.2 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 570	1
10.2 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 800	1
10.2 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 030	1
10.3 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 571	1
10.3 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 801	1
10.3 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 031	1
10.4 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 572	1
10.4 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 802	1
10.4 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 032	1
10.5 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 573	1
10.5 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 803	1
10.5 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 033	1
10.52 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 574	1
10.52 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 804	1
10.52 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 034	1
10.6 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 575	1
10.6 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 805	1
10.6 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 035	1
10.7 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 576	1
10.7 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 806	1
10.7 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 036	1
10.8 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 577	1
10.8 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 807	1
10.8 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 037	1
10.9 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 578	1
10.9 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 808	1
10.9 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 038	1
11 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 579	1

Continuation **Solid carbide twist drill bit, DIN 6537K**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
11 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 809	1
11 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 039	1
11.02 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 580	1
11.02 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 810	1
11.02 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 040	1
11.1 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 581	1
11.1 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 811	1
11.1 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 041	1
11.2 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 582	1
11.2 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 812	1
11.2 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 042	1
11.3 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 583	1
11.3 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 813	1
11.3 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 043	1
11.35 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 584	1
11.35 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 814	1
11.35 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 044	1
11.4 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 585	1
11.4 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 815	1
11.4 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 045	1
11.5 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 586	1
11.5 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 816	1
11.5 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 046	1
11.52 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 587	1
11.52 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 817	1
11.52 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 047	1
11.55 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 588	1
11.55 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 818	1
11.55 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 048	1
11.6 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 589	1
11.6 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 819	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
11.6 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 049	1
11.7 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 590	1
11.7 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 820	1
11.7 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 050	1
11.8 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 591	1
11.8 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 821	1
11.8 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 051	1
11.9 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 592	1
11.9 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 822	1
11.9 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 052	1
12 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 593	1
12 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 823	1
12 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 053	1
12.02 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 000 594	1
12.02 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 000 824	1
12.02 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 001 054	1
12.1 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 595	1
12.1 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 825	1
12.1 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 055	1
12.2 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 596	1
12.2 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 826	1
12.2 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 056	1
12.3 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 597	1
12.3 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 827	1
12.3 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 057	1
12.4 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 598	1
12.4 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 828	1
12.4 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 058	1
12.5 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 599	1
12.5 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 829	1
12.5 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 059	1
12.6 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 600	1

Continuation **Solid carbide twist drill bit, DIN 6537K**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
12.6 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 830	1
12.6 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 060	1
12.7 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 601	1
12.7 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 831	1
12.7 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 061	1
12.8 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 602	1
12.8 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 832	1
12.8 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 062	1
12.9 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 603	1
12.9 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 833	1
12.9 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 063	1
13 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 604	1
13 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 834	1
13 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 064	1
13.02 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 605	1
13.02 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 835	1
13.02 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 065	1
13.1 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 606	1
13.1 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 836	1
13.1 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 066	1
13.2 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 607	1
13.2 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 837	1
13.2 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 067	1
13.25 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 608	1
13.25 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 838	1
13.25 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 068	1
13.3 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 609	1
13.3 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 839	1
13.3 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 069	1
13.4 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 610	1
13.4 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 840	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
13.4 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 070	1
13.5 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 611	1
13.5 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 841	1
13.5 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 071	1
13.6 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 612	1
13.6 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 842	1
13.6 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 072	1
13.7 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 613	1
13.7 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 843	1
13.7 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 073	1
13.8 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 614	1
13.8 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 844	1
13.8 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 074	1
13.9 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 615	1
13.9 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 845	1
13.9 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 075	1
14 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 616	1
14 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 846	1
14 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 076	1
14.02 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 000 617	1
14.02 mm	Cylindrical DIN 6535-HB	107 mm	60 mm	14 mm	5443 000 847	1
14.02 mm	Cylindrical DIN 6535-HE	107 mm	60 mm	14 mm	5443 001 077	1
14.1 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 618	1
14.1 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 848	1
14.1 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 078	1
14.2 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 619	1
14.2 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 849	1
14.2 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 079	1
14.3 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 620	1
14.3 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 850	1
14.3 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 080	1
14.4 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 621	1

Continuation **Solid carbide twist drill bit, DIN 6537K**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
14.4 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 851	1
14.4 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 081	1
14.5 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 622	1
14.5 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 852	1
14.5 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 082	1
14.6 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 623	1
14.6 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 853	1
14.6 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 083	1
14.7 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 624	1
14.7 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 854	1
14.7 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 084	1
14.8 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 625	1
14.8 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 855	1
14.8 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 085	1
14.9 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 626	1
14.9 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 856	1
14.9 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 086	1
15 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 627	1
15 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 857	1
15 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 087	1
15.02 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 628	1
15.02 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 858	1
15.02 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 088	1
15.1 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 629	1
15.1 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 859	1
15.1 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 089	1
15.2 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 630	1
15.2 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 860	1
15.2 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 090	1
15.3 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 631	1
15.3 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 861	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
15.3 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 091	1
15.35 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 632	1
15.35 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 862	1
15.35 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 092	1
15.4 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 633	1
15.4 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 863	1
15.4 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 093	1
15.5 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 634	1
15.5 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 864	1
15.5 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 094	1
15.6 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 635	1
15.6 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 865	1
15.6 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 095	1
15.7 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 636	1
15.7 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 866	1
15.7 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 096	1
15.8 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 637	1
15.8 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 867	1
15.8 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 097	1
15.9 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 638	1
15.9 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 868	1
15.9 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 098	1
16 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 639	1
16 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 869	1
16 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 099	1
16.02 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 000 640	1
16.02 mm	Cylindrical DIN 6535-HB	115 mm	65 mm	16 mm	5443 000 870	1
16.02 mm	Cylindrical DIN 6535-HE	115 mm	65 mm	16 mm	5443 001 100	1
16.1 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 641	1
16.1 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 871	1
16.1 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 101	1
16.2 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 642	1

Continuation **Solid carbide twist drill bit, DIN 6537K**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
16.2 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 872	1
16.2 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 102	1
16.3 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 643	1
16.3 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 873	1
16.3 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 103	1
16.4 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 644	1
16.4 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 874	1
16.4 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 104	1
16.5 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 645	1
16.5 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 875	1
16.5 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 105	1
16.6 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 646	1
16.6 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 876	1
16.6 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 106	1
16.7 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 647	1
16.7 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 877	1
16.7 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 107	1
16.8 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 648	1
16.8 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 878	1
16.8 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 108	1
16.9 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 649	1
16.9 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 879	1
16.9 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 109	1
17 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 650	1
17 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 880	1
17 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 110	1
17.1 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 651	1
17.1 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 881	1
17.1 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 111	1
17.2 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 652	1
17.2 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 882	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
17.2 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 112	1
17.3 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 653	1
17.3 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 883	1
17.3 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 113	1
17.35 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 654	1
17.35 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 884	1
17.35 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 114	1
17.4 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 655	1
17.4 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 885	1
17.4 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 115	1
17.5 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 656	1
17.5 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 886	1
17.5 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 116	1
17.6 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 657	1
17.6 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 887	1
17.6 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 117	1
17.7 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 658	1
17.7 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 888	1
17.7 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 118	1
17.8 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 659	1
17.8 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 889	1
17.8 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 119	1
17.9 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 660	1
17.9 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 890	1
17.9 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 120	1
18 mm	Cylindrical DIN 6535-HA	123 mm	73 mm	18 mm	5443 000 661	1
18 mm	Cylindrical DIN 6535-HB	123 mm	73 mm	18 mm	5443 000 891	1
18 mm	Cylindrical DIN 6535-HE	123 mm	73 mm	18 mm	5443 001 121	1
18.1 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 662	1
18.1 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 892	1
18.1 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 122	1
18.2 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 663	1

Continuation **Solid carbide twist drill bit, DIN 6537K**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
18.2 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 893	1
18.2 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 123	1
18.3 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 664	1
18.3 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 894	1
18.3 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 124	1
18.4 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 665	1
18.4 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 895	1
18.4 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 125	1
18.5 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 666	1
18.5 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 896	1
18.5 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 126	1
18.6 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 667	1
18.6 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 897	1
18.6 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 127	1
18.7 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 668	1
18.7 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 898	1
18.7 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 128	1
18.8 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 669	1
18.8 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 899	1
18.8 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 129	1
18.9 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 670	1
18.9 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 900	1
18.9 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 130	1
19 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 671	1
19 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 901	1
19 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 131	1
19.1 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 672	1
19.1 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 902	1
19.1 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 132	1
19.2 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 673	1
19.2 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 903	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
19.2 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 133	1
19.3 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 674	1
19.3 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 904	1
19.3 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 134	1
19.35 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 675	1
19.35 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 905	1
19.35 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 135	1
19.4 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 676	1
19.4 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 906	1
19.4 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 136	1
19.5 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 677	1
19.5 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 907	1
19.5 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 137	1
19.6 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 678	1
19.6 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 908	1
19.6 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 138	1
19.7 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 679	1
19.7 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 909	1
19.7 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 139	1
19.8 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 680	1
19.8 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 910	1
19.8 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 140	1
19.9 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 681	1
19.9 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 911	1
19.9 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 141	1
20 mm	Cylindrical DIN 6535-HA	131 mm	79 mm	20 mm	5443 000 682	1
20 mm	Cylindrical DIN 6535-HB	131 mm	79 mm	20 mm	5443 000 912	1
20 mm	Cylindrical DIN 6535-HE	131 mm	79 mm	20 mm	5443 001 142	1

Solid carbide twist drill bit, DIN 6537L, internal cooling

Solid carbide high-performance drill bit with internal cooling channels for universal applications. High robustness and universal application owing to straight main cutter. Special grinding ensures optimal chip breakage, high centring accuracy and low cutting forces.



CNC|TEC

TiAlN-S coating

Special coating for maximum cutting performance

Product code	6737
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Copper, Brass, Aluminium
Standards	DIN 6537
Design	Long
Surface	TiAlN-S
Max. drilling depth (D)	5xD
Cutting material	VHM
Number of guiding chamfers	2 PCS
Angle of the tip	140 Degree
Number of cutting edges	2 PCS
Coolant supply	Internal
Tolerance of cutting edge diameter	h7
Tolerance of shank diameter	h6

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
1/2 in	Cylindrical DIN 6535-HA	124 mm	77 mm	14 mm	5443 013 607	1
1/2 in	Cylindrical DIN 6535-HB	124 mm	77 mm	14 mm	5443 013 807	1
1/2 in	Cylindrical DIN 6535-HE	124 mm	77 mm	14 mm	5443 014 007	1
1/4 in	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 013 603	1
1/4 in	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 013 803	1
1/4 in	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 014 003	1
1/8 in	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 013 601	1
1/8 in	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 013 801	1
1/8 in	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 014 001	1
2 mm	Cylindrical DIN 6535-HA	57 mm	21 mm	4 mm	5443 001 501	1
2 mm	Cylindrical DIN 6535-HB	57 mm	21 mm	4 mm	5443 001 608	1
2 mm	Cylindrical DIN 6535-HE	57 mm	21 mm	4 mm	5443 001 715	1
2.5 mm	Cylindrical DIN 6535-HA	57 mm	21 mm	4 mm	5443 001 502	1
2.5 mm	Cylindrical DIN 6535-HB	57 mm	21 mm	4 mm	5443 001 609	1
2.5 mm	Cylindrical DIN 6535-HE	57 mm	21 mm	4 mm	5443 001 716	1
3/8 in	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 013 605	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
3/8 in	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 013 805	1
3/8 in	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 014 005	1
3/16 in	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 013 602	1
3/16 in	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 013 802	1
3/16 in	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 014 002	1
3 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 503	1
3 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 610	1
3 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 717	1
3.1 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 504	1
3.1 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 611	1
3.1 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 718	1
3.2 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 505	1
3.2 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 612	1
3.2 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 719	1
3.3 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 506	1
3.3 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 613	1
3.3 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 720	1
3.4 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 507	1
3.4 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 614	1
3.4 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 721	1
3.5 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 508	1
3.5 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 615	1
3.5 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 722	1
3.6 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 509	1
3.6 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 616	1
3.6 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 723	1
3.7 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 001 510	1
3.7 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 001 617	1
3.7 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 001 724	1
3.8 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 001 511	1
3.8 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 001 618	1
3.8 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 001 725	1

Continuation **Solid carbide twist drill bit, DIN 6537L, internal cooling**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
3.9 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 001 512	1
3.9 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 001 619	1
3.9 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 001 726	1
4 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 001 513	1
4 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 001 620	1
4 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 001 727	1
4.1 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 001 514	1
4.1 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 001 621	1
4.1 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 001 728	1
4.2 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 001 515	1
4.2 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 001 622	1
4.2 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 001 729	1
4.3 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 001 516	1
4.3 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 001 623	1
4.3 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 001 730	1
4.4 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 001 517	1
4.4 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 001 624	1
4.4 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 001 731	1
4.5 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 001 518	1
4.5 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 001 625	1
4.5 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 001 732	1
4.6 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 001 519	1
4.6 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 001 626	1
4.6 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 001 733	1
4.65 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 001 520	1
4.65 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 001 627	1
4.65 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 001 734	1
4.7 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 001 521	1
4.7 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 001 628	1
4.7 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 001 735	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
4.8 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 522	1
4.8 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 629	1
4.8 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 736	1
4.9 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 523	1
4.9 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 630	1
4.9 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 737	1
5/16 in	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 013 604	1
5/16 in	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 013 804	1
5/16 in	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 014 004	1
5 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 524	1
5 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 631	1
5 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 738	1
5.02 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 525	1
5.02 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 632	1
5.02 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 739	1
5.1 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 526	1
5.1 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 633	1
5.1 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 740	1
5.2 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 527	1
5.2 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 634	1
5.2 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 741	1
5.3 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 528	1
5.3 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 635	1
5.3 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 742	1
5.4 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 529	1
5.4 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 636	1
5.4 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 743	1
5.5 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 530	1
5.5 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 637	1
5.5 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 744	1
5.6 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 531	1
5.6 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 638	1

Continuation **Solid carbide twist drill bit, DIN 6537L, internal cooling**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
5.6 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 745	1
5.7 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 532	1
5.7 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 639	1
5.7 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 746	1
5.8 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 533	1
5.8 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 640	1
5.8 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 747	1
5.9 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 534	1
5.9 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 641	1
5.9 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 748	1
6 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 001 535	1
6 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 001 642	1
6 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 001 749	1
6.1 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 536	1
6.1 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 643	1
6.1 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 750	1
6.2 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 537	1
6.2 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 644	1
6.2 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 751	1
6.3 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 538	1
6.3 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 645	1
6.3 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 752	1
6.4 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 539	1
6.4 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 646	1
6.4 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 753	1
6.5 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 540	1
6.5 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 647	1
6.5 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 754	1
6.6 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 541	1
6.6 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 648	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
6.6 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 755	1
6.7 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 542	1
6.7 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 649	1
6.7 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 756	1
6.8 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 543	1
6.8 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 650	1
6.8 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 757	1
6.9 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 544	1
6.9 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 651	1
6.9 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 758	1
7/16 in	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 013 606	1
7/16 in	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 013 806	1
7/16 in	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 014 006	1
7 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 545	1
7 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 652	1
7 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 759	1
7.1 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 546	1
7.1 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 653	1
7.1 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 760	1
7.2 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 547	1
7.2 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 654	1
7.2 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 761	1
7.3 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 548	1
7.3 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 655	1
7.3 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 762	1
7.4 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 549	1
7.4 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 656	1
7.4 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 763	1
7.5 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 550	1
7.5 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 657	1
7.5 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 764	1
7.6 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 551	1

Continuation **Solid carbide twist drill bit, DIN 6537L, internal cooling**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
7.6 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 658	1
7.6 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 765	1
7.7 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 552	1
7.7 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 659	1
7.7 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 766	1
7.8 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 553	1
7.8 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 660	1
7.8 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 767	1
7.9 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 554	1
7.9 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 661	1
7.9 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 768	1
8 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 001 555	1
8 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 001 662	1
8 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 001 769	1
8.1 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 556	1
8.1 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 663	1
8.1 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 770	1
8.2 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 557	1
8.2 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 664	1
8.2 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 771	1
8.3 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 558	1
8.3 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 665	1
8.3 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 772	1
8.4 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 559	1
8.4 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 666	1
8.4 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 773	1
8.5 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 560	1
8.5 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 667	1
8.5 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 774	1
8.6 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 561	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
8.6 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 668	1
8.6 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 775	1
8.7 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 562	1
8.7 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 669	1
8.7 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 776	1
8.8 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 563	1
8.8 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 670	1
8.8 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 777	1
8.9 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 564	1
8.9 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 671	1
8.9 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 778	1
9 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 565	1
9 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 672	1
9 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 779	1
9.1 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 566	1
9.1 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 673	1
9.1 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 780	1
9.2 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 567	1
9.2 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 674	1
9.2 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 781	1
9.3 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 568	1
9.3 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 675	1
9.3 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 782	1
9.4 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 569	1
9.4 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 676	1
9.4 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 783	1
9.5 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 570	1
9.5 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 677	1
9.5 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 784	1
9.6 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 571	1
9.6 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 678	1
9.6 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 785	1

Continuation **Solid carbide twist drill bit, DIN 6537L, internal cooling**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
9.7 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 572	1
9.7 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 679	1
9.7 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 786	1
9.8 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 573	1
9.8 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 680	1
9.8 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 787	1
9.9 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 574	1
9.9 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 681	1
9.9 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 788	1
10 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 001 575	1
10 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 001 682	1
10 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 001 789	1
10.2 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 001 576	1
10.2 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 001 683	1
10.2 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 001 790	1
10.5 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 001 577	1
10.5 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 001 684	1
10.5 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 001 791	1
10.8 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 001 578	1
10.8 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 001 685	1
10.8 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 001 792	1
11 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 001 579	1
11 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 001 686	1
11 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 001 793	1
11.2 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 001 580	1
11.2 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 001 687	1
11.2 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 001 794	1
11.5 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 001 581	1
11.5 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 001 688	1
11.5 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 001 795	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
11.8 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 001 582	1
11.8 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 001 689	1
11.8 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 001 796	1
12 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 001 583	1
12 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 001 690	1
12 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 001 797	1
12.2 mm	Cylindrical DIN 6535-HA	124 mm	77 mm	14 mm	5443 001 584	1
12.2 mm	Cylindrical DIN 6535-HB	124 mm	77 mm	14 mm	5443 001 691	1
12.2 mm	Cylindrical DIN 6535-HE	124 mm	77 mm	14 mm	5443 001 798	1
12.5 mm	Cylindrical DIN 6535-HA	124 mm	77 mm	14 mm	5443 001 585	1
12.5 mm	Cylindrical DIN 6535-HB	124 mm	77 mm	14 mm	5443 001 692	1
12.5 mm	Cylindrical DIN 6535-HE	124 mm	77 mm	14 mm	5443 001 799	1
12.8 mm	Cylindrical DIN 6535-HA	124 mm	77 mm	14 mm	5443 001 586	1
12.8 mm	Cylindrical DIN 6535-HB	124 mm	77 mm	14 mm	5443 001 693	1
12.8 mm	Cylindrical DIN 6535-HE	124 mm	77 mm	14 mm	5443 001 800	1
13 mm	Cylindrical DIN 6535-HA	124 mm	77 mm	14 mm	5443 001 587	1
13 mm	Cylindrical DIN 6535-HB	124 mm	77 mm	14 mm	5443 001 694	1
13 mm	Cylindrical DIN 6535-HE	124 mm	77 mm	14 mm	5443 001 801	1
13.5 mm	Cylindrical DIN 6535-HA	124 mm	77 mm	14 mm	5443 001 588	1
13.5 mm	Cylindrical DIN 6535-HB	124 mm	77 mm	14 mm	5443 001 695	1
13.5 mm	Cylindrical DIN 6535-HE	124 mm	77 mm	14 mm	5443 001 802	1
13.8 mm	Cylindrical DIN 6535-HA	124 mm	77 mm	14 mm	5443 001 589	1
13.8 mm	Cylindrical DIN 6535-HB	124 mm	77 mm	14 mm	5443 001 696	1
13.8 mm	Cylindrical DIN 6535-HE	124 mm	77 mm	14 mm	5443 001 803	1
14 mm	Cylindrical DIN 6535-HA	124 mm	77 mm	14 mm	5443 001 590	1
14 mm	Cylindrical DIN 6535-HB	124 mm	77 mm	14 mm	5443 001 697	1
14 mm	Cylindrical DIN 6535-HE	124 mm	77 mm	14 mm	5443 001 804	1
14.2 mm	Cylindrical DIN 6535-HA	133 mm	83 mm	16 mm	5443 001 591	1
14.2 mm	Cylindrical DIN 6535-HB	133 mm	83 mm	16 mm	5443 001 698	1
14.2 mm	Cylindrical DIN 6535-HE	133 mm	83 mm	16 mm	5443 001 805	1
14.5 mm	Cylindrical DIN 6535-HA	133 mm	83 mm	16 mm	5443 001 592	1
14.5 mm	Cylindrical DIN 6535-HB	133 mm	83 mm	16 mm	5443 001 699	1

Continuation **Solid carbide twist drill bit, DIN 6537L, internal cooling**

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
14.5 mm	Cylindrical DIN 6535-HE	133 mm	83 mm	16 mm	5443 001 806	1
14.8 mm	Cylindrical DIN 6535-HA	133 mm	83 mm	16 mm	5443 001 593	1
14.8 mm	Cylindrical DIN 6535-HB	133 mm	83 mm	16 mm	5443 001 700	1
14.8 mm	Cylindrical DIN 6535-HE	133 mm	83 mm	16 mm	5443 001 807	1
15 mm	Cylindrical DIN 6535-HA	133 mm	83 mm	16 mm	5443 001 594	1
15 mm	Cylindrical DIN 6535-HB	133 mm	83 mm	16 mm	5443 001 701	1
15 mm	Cylindrical DIN 6535-HE	133 mm	83 mm	16 mm	5443 001 808	1
15.2 mm	Cylindrical DIN 6535-HA	133 mm	83 mm	16 mm	5443 001 595	1
15.2 mm	Cylindrical DIN 6535-HB	133 mm	83 mm	16 mm	5443 001 702	1
15.2 mm	Cylindrical DIN 6535-HE	133 mm	83 mm	16 mm	5443 001 809	1
15.5 mm	Cylindrical DIN 6535-HA	133 mm	83 mm	16 mm	5443 001 596	1
15.5 mm	Cylindrical DIN 6535-HB	133 mm	83 mm	16 mm	5443 001 703	1
15.5 mm	Cylindrical DIN 6535-HE	133 mm	83 mm	16 mm	5443 001 810	1
15.8 mm	Cylindrical DIN 6535-HA	133 mm	83 mm	16 mm	5443 001 597	1
15.8 mm	Cylindrical DIN 6535-HB	133 mm	83 mm	16 mm	5443 001 704	1
15.8 mm	Cylindrical DIN 6535-HE	133 mm	83 mm	16 mm	5443 001 811	1
16 mm	Cylindrical DIN 6535-HA	133 mm	83 mm	16 mm	5443 001 598	1
16 mm	Cylindrical DIN 6535-HB	133 mm	83 mm	16 mm	5443 001 705	1
16 mm	Cylindrical DIN 6535-HE	133 mm	83 mm	16 mm	5443 001 812	1
16.5 mm	Cylindrical DIN 6535-HA	143 mm	93 mm	18 mm	5443 001 599	1
16.5 mm	Cylindrical DIN 6535-HB	143 mm	93 mm	18 mm	5443 001 706	1
16.5 mm	Cylindrical DIN 6535-HE	143 mm	93 mm	18 mm	5443 001 813	1
16.8 mm	Cylindrical DIN 6535-HA	143 mm	93 mm	18 mm	5443 001 600	1
16.8 mm	Cylindrical DIN 6535-HB	143 mm	93 mm	18 mm	5443 001 707	1
16.8 mm	Cylindrical DIN 6535-HE	143 mm	93 mm	18 mm	5443 001 814	1
17 mm	Cylindrical DIN 6535-HA	143 mm	93 mm	18 mm	5443 001 601	1
17 mm	Cylindrical DIN 6535-HB	143 mm	93 mm	18 mm	5443 001 708	1
17 mm	Cylindrical DIN 6535-HE	143 mm	93 mm	18 mm	5443 001 815	1
17.5 mm	Cylindrical DIN 6535-HA	143 mm	93 mm	18 mm	5443 001 602	1
17.5 mm	Cylindrical DIN 6535-HB	143 mm	93 mm	18 mm	5443 001 709	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
17.5 mm	Cylindrical DIN 6535-HE	143 mm	93 mm	18 mm	5443 001 816	1
18 mm	Cylindrical DIN 6535-HA	143 mm	93 mm	18 mm	5443 001 603	1
18 mm	Cylindrical DIN 6535-HB	143 mm	93 mm	18 mm	5443 001 710	1
18 mm	Cylindrical DIN 6535-HE	143 mm	93 mm	18 mm	5443 001 817	1
18.5 mm	Cylindrical DIN 6535-HA	153 mm	101 mm	20 mm	5443 001 604	1
18.5 mm	Cylindrical DIN 6535-HB	153 mm	101 mm	20 mm	5443 001 711	1
18.5 mm	Cylindrical DIN 6535-HE	153 mm	101 mm	20 mm	5443 001 818	1
19 mm	Cylindrical DIN 6535-HA	153 mm	101 mm	20 mm	5443 001 605	1
19 mm	Cylindrical DIN 6535-HB	153 mm	101 mm	20 mm	5443 001 712	1
19 mm	Cylindrical DIN 6535-HE	153 mm	101 mm	20 mm	5443 001 819	1
19.5 mm	Cylindrical DIN 6535-HA	153 mm	101 mm	20 mm	5443 001 606	1
19.5 mm	Cylindrical DIN 6535-HB	153 mm	101 mm	20 mm	5443 001 713	1
19.5 mm	Cylindrical DIN 6535-HE	153 mm	101 mm	20 mm	5443 001 820	1
20 mm	Cylindrical DIN 6535-HA	153 mm	101 mm	20 mm	5443 001 607	1
20 mm	Cylindrical DIN 6535-HB	153 mm	101 mm	20 mm	5443 001 714	1
20 mm	Cylindrical DIN 6535-HE	153 mm	101 mm	20 mm	5443 001 821	1

HPC solid carbide drill Speeddrill 4.0-Inox, DIN 6537K, 3xD short, 4 drill heels, with internal cooling

Solid carbide, high-performance drill with internal cooling channels, in particular for machining stainless steels. The special point thinning results in perfect chip removal. Optimal roundness of the hole through 4 drill heels allows precise alignment of the hole with optimal surface quality. Generation 4.0 sets new standards in machining performance.



CNC|TEC

Product code	6887
Material to be processed	Steel, Stainless steel, Cast metal, Titanium
Standards	DIN 6537
Design	Short
Surface	NANODUR
Max. drilling depth (D)	3xD
Cutting material	VHM
Number of guiding chamfers	4 PCS
Angle of the tip	140 Degree
Number of cutting edges	2 PCS
Coolant supply	Internal

Continuation **HPC solid carbide drill Speeddrill 4.0-Inox,**
DIN 6537K, 3xD short, 4 drill heels, with internal cooling

Tolerance of cutting edge diameter	h7
Tolerance of shank diameter	h6

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
1/4 in	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 011 245	1
1/4 in	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 011 445	1
1/4 in	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 011 645	1
1/8 in	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 011 203	1
1/8 in	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 011 403	1
1/8 in	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 011 603	1
2.33 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	6 mm	5443 011 720	1
2.8 mm	Cylindrical DIN 6535-HA	55 mm	20 mm	6 mm	5443 011 721	1
3/8 in	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 286	1
3/8 in	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 486	1
3/8 in	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 686	1
3/16 in	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 225	1
3/16 in	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 425	1
3/16 in	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 625	1
3.1 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 011 202	1
3.1 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 011 402	1
3.1 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 011 602	1
3.2 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 011 204	1
3.2 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 011 404	1
3.2 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 011 604	1
3.25 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 011 205	1
3.25 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 011 405	1
3.25 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 011 605	1
3.3 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 011 201	1
3.3 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 011 206	1
3.3 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 011 401	1
3.3 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 011 406	1
3.3 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 011 601	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
3.3 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 011 606	1
3.38 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 011 207	1
3.38 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 011 407	1
3.38 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 011 607	1
3.4 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 011 208	1
3.4 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 011 408	1
3.4 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 011 608	1
3.5 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 011 209	1
3.5 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 011 409	1
3.5 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 011 609	1
3.6 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 011 210	1
3.6 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 011 410	1
3.6 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 011 610	1
3.65 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 011 211	1
3.65 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 011 411	1
3.65 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 011 611	1
3.7 mm	Cylindrical DIN 6535-HA	62 mm	20 mm	6 mm	5443 011 212	1
3.7 mm	Cylindrical DIN 6535-HB	62 mm	20 mm	6 mm	5443 011 412	1
3.7 mm	Cylindrical DIN 6535-HE	62 mm	20 mm	6 mm	5443 011 612	1
3.8 mm	Cylindrical DIN 6535-HA	62 mm	24 mm	6 mm	5443 011 213	1
3.8 mm	Cylindrical DIN 6535-HB	62 mm	24 mm	6 mm	5443 011 413	1
3.8 mm	Cylindrical DIN 6535-HE	62 mm	24 mm	6 mm	5443 011 613	1
3.9 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 011 214	1
3.9 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 011 414	1
3.9 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 011 614	1
4.1 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 011 216	1
4.1 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 011 416	1
4.1 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 011 616	1
4.2 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 011 217	1
4.2 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 011 417	1
4.2 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 011 617	1
4.3 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 011 218	1

Continuation **HPC solid carbide drill Speeddrill 4.0-Inox,**
DIN 6537K, 3xD short, 4 drill heels, with internal cooling

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
4.3 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 011 418	1
4.3 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 011 618	1
4.4 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 011 215	1
4.4 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 011 219	1
4.4 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 011 415	1
4.4 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 011 419	1
4.4 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 011 615	1
4.4 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 011 619	1
4.5 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 011 220	1
4.5 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 011 420	1
4.5 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 011 620	1
4.6 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 011 221	1
4.6 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 011 421	1
4.6 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 011 621	1
4.64 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 011 222	1
4.64 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 011 422	1
4.64 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 011 622	1
4.7 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 011 223	1
4.7 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 011 423	1
4.7 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 011 623	1
4.75 mm	Cylindrical DIN 6535-HA	66 mm	24 mm	6 mm	5443 011 224	1
4.75 mm	Cylindrical DIN 6535-HB	66 mm	24 mm	6 mm	5443 011 424	1
4.75 mm	Cylindrical DIN 6535-HE	66 mm	24 mm	6 mm	5443 011 624	1
4.8 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 226	1
4.8 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 426	1
4.8 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 626	1
4.9 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 227	1
4.9 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 427	1
4.9 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 627	1
5/6 in	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 265	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
5/6 in	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 465	1
5/6 in	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 665	1
5.1 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 229	1
5.1 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 429	1
5.1 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 629	1
5.2 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 230	1
5.2 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 430	1
5.2 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 630	1
5.25 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 231	1
5.25 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 431	1
5.25 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 631	1
5.3 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 232	1
5.3 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 432	1
5.3 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 632	1
5.4 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 233	1
5.4 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 433	1
5.4 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 633	1
5.5 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 228	1
5.5 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 234	1
5.5 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 428	1
5.5 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 434	1
5.5 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 628	1
5.5 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 634	1
5.55 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 235	1
5.55 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 435	1
5.55 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 635	1
5.6 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 236	1
5.6 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 436	1
5.6 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 636	1
5.7 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 237	1
5.7 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 437	1
5.7 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 637	1

Continuation **HPC solid carbide drill Speeddrill 4.0-Inox,**
DIN 6537K, 3xD short, 4 drill heels, with internal cooling

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
5.75 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 238	1
5.75 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 438	1
5.75 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 638	1
5.8 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 239	1
5.8 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 439	1
5.8 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 639	1
5.9 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 240	1
5.9 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 440	1
5.9 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 640	1
6.1 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 011 242	1
6.1 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 011 442	1
6.1 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 011 642	1
6.2 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 011 243	1
6.2 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 011 443	1
6.2 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 011 643	1
6.3 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 011 244	1
6.3 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 011 444	1
6.3 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 011 644	1
6.4 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 011 246	1
6.4 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 011 446	1
6.4 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 011 646	1
6.5 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 011 247	1
6.5 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 011 447	1
6.5 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 011 647	1
6.6 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 241	1
6.6 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 011 248	1
6.6 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 011 441	1
6.6 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 011 448	1
6.6 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 011 641	1
6.6 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 011 648	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
6.7 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 011 249	1
6.7 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 011 449	1
6.7 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 011 649	1
6.8 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 011 250	1
6.8 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 011 450	1
6.8 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 011 650	1
6.9 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 011 251	1
6.9 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 011 451	1
6.9 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 011 651	1
7/16 in	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 306	1
7/16 in	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 506	1
7/16 in	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 706	1
7.1 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 253	1
7.1 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 453	1
7.1 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 653	1
7.2 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 254	1
7.2 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 454	1
7.2 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 654	1
7.25 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 255	1
7.25 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 455	1
7.25 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 655	1
7.3 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 256	1
7.3 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 456	1
7.3 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 656	1
7.4 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 257	1
7.4 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 457	1
7.4 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 657	1
7.45 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 258	1
7.45 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 458	1
7.45 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 658	1
7.5 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 259	1
7.5 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 459	1

Continuation **HPC solid carbide drill Speeddrill 4.0-Inox,**
DIN 6537K, 3xD short, 4 drill heels, with internal cooling

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
7.5 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 659	1
7.6 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 260	1
7.6 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 460	1
7.6 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 660	1
7.7 mm	Cylindrical DIN 6535-HA	79 mm	34 mm	8 mm	5443 011 252	1
7.7 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 261	1
7.7 mm	Cylindrical DIN 6535-HB	79 mm	34 mm	8 mm	5443 011 452	1
7.7 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 461	1
7.7 mm	Cylindrical DIN 6535-HE	79 mm	34 mm	8 mm	5443 011 652	1
7.7 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 661	1
7.75 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 262	1
7.75 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 462	1
7.75 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 662	1
7.8 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 263	1
7.8 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 463	1
7.8 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 663	1
7.9 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 264	1
7.9 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 464	1
7.9 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 664	1
8.1 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 267	1
8.1 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 467	1
8.1 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 667	1
8.2 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 268	1
8.2 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 468	1
8.2 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 668	1
8.3 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 269	1
8.3 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 469	1
8.3 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 669	1
8.4 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 270	1
8.4 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 470	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
8.4 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 670	1
8.45 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 271	1
8.45 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 471	1
8.45 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 671	1
8.5 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 272	1
8.5 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 472	1
8.5 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 672	1
8.6 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 273	1
8.6 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 473	1
8.6 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 673	1
8.7 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 274	1
8.7 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 474	1
8.7 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 674	1
8.8 mm	Cylindrical DIN 6535-HA	79 mm	41 mm	8 mm	5443 011 266	1
8.8 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 275	1
8.8 mm	Cylindrical DIN 6535-HB	79 mm	41 mm	8 mm	5443 011 466	1
8.8 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 475	1
8.8 mm	Cylindrical DIN 6535-HE	79 mm	41 mm	8 mm	5443 011 666	1
8.8 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 675	1
8.9 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 276	1
8.9 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 476	1
8.9 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 676	1
9.1 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 278	1
9.1 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 478	1
9.1 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 678	1
9.2 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 279	1
9.2 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 479	1
9.2 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 679	1
9.25 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 280	1
9.25 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 480	1
9.25 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 680	1
9.3 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 281	1

Continuation **HPC solid carbide drill Speeddrill 4.0-Inox,**
DIN 6537K, 3xD short, 4 drill heels, with internal cooling

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
9.3 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 481	1
9.3 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 681	1
9.35 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 282	1
9.35 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 482	1
9.35 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 682	1
9.4 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 283	1
9.4 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 483	1
9.4 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 683	1
9.45 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 284	1
9.45 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 484	1
9.45 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 684	1
9.5 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 285	1
9.5 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 485	1
9.5 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 685	1
9.6 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 287	1
9.6 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 487	1
9.6 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 687	1
9.7 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 288	1
9.7 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 488	1
9.7 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 688	1
9.75 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 289	1
9.75 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 489	1
9.75 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 689	1
9.8 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 290	1
9.8 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 490	1
9.8 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 690	1
9.9 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 277	1
9.9 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 291	1
9.9 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 477	1
9.9 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 491	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
9.9 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 677	1
9.9 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 691	1
10.1 mm	Cylindrical DIN 6535-HA	89 mm	47 mm	10 mm	5443 011 292	1
10.1 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 293	1
10.1 mm	Cylindrical DIN 6535-HB	89 mm	47 mm	10 mm	5443 011 492	1
10.1 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 493	1
10.1 mm	Cylindrical DIN 6535-HE	89 mm	47 mm	10 mm	5443 011 692	1
10.1 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 693	1
10.2 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 294	1
10.2 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 494	1
10.2 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 694	1
10.25 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 295	1
10.25 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 495	1
10.25 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 695	1
10.3 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 296	1
10.3 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 496	1
10.3 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 696	1
10.4 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 297	1
10.4 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 497	1
10.4 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 697	1
10.5 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 298	1
10.5 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 498	1
10.5 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 698	1
10.6 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 299	1
10.6 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 499	1
10.6 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 699	1
10.7 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 300	1
10.7 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 500	1
10.7 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 700	1
10.75 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 301	1
10.75 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 501	1
10.75 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 701	1

Continuation **HPC solid carbide drill Speeddrill 4.0-Inox,**
DIN 6537K, 3xD short, 4 drill heels, with internal cooling

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
10.8 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 302	1
10.8 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 502	1
10.8 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 702	1
10.9 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 303	1
10.9 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 503	1
10.9 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 703	1
11.1 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 305	1
11.1 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 505	1
11.1 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 705	1
11.11 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 304	1
11.11 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 504	1
11.11 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 704	1
11.2 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 307	1
11.2 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 507	1
11.2 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 707	1
11.25 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 308	1
11.25 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 508	1
11.25 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 708	1
11.3 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 309	1
11.3 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 509	1
11.3 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 709	1
11.35 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 310	1
11.35 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 510	1
11.35 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 710	1
11.4 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 311	1
11.4 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 511	1
11.4 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 711	1
11.45 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 312	1
11.45 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 512	1
11.45 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 712	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
11.5 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 313	1
11.5 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 513	1
11.5 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 713	1
11.6 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 314	1
11.6 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 514	1
11.6 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 714	1
11.7 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 315	1
11.7 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 515	1
11.7 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 715	1
11.75 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 316	1
11.75 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 516	1
11.75 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 716	1
11.8 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 317	1
11.8 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 517	1
11.8 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 717	1
11.9 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 318	1
11.9 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 518	1
11.9 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 718	1
12.12 mm	Cylindrical DIN 6535-HA	102 mm	55 mm	12 mm	5443 011 319	1
12.12 mm	Cylindrical DIN 6535-HB	102 mm	55 mm	12 mm	5443 011 519	1
12.12 mm	Cylindrical DIN 6535-HE	102 mm	55 mm	12 mm	5443 011 719	1
13.1 mm	Cylindrical DIN 6535-HA	107 mm	60 mm	14 mm	5443 011 726	1
15.1 mm	Cylindrical DIN 6535-HA	115 mm	65 mm	16 mm	5443 011 727	1

HPC solid carbide drill Speeddrill 4.0-Inox, DIN 6537L, long 5xD, 4 drill heels, with internal cooling

Solid carbide, high-performance drill with internal cooling channels, in particular for machining stainless steels. The special point thinning results in perfect chip removal. Optimal roundness of the hole through 4 drill heels allows precise alignment of the hole with optimal surface quality. Generation 4.0 sets new standards in machining performance.



CNC|TEC

Product code	6897
Material to be processed	Steel, Cast metal, Stainless steel

Continuation **HPC solid carbide drill Speeddrill 4.0-Inox,**
DIN 6537L, long 5xD, 4 drill heels, with internal cooling

Standards	DIN 6537
Design	Long
Surface	NANODUR
Max. drilling depth (D)	5xD
Cutting material	VHM
Number of guiding chamfers	4 PCS
Angle of the tip	140 Degree
Number of cutting edges	2 PCS
Coolant supply	Internal
Tolerance of cutting edge diameter	h7
Tolerance of shank diameter	h6

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
1/4 in	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 845	1
1/4 in	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 045	1
1/4 in	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 245	1
1/8 in	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 803	1
1/8 in	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 012 003	1
1/8 in	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 012 203	1
3/8 in	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 886	1
3/8 in	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 086	1
3/8 in	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 286	1
3/16 in	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 825	1
3/16 in	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 025	1
3/16 in	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 225	1
3 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 801	1
3 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 012 001	1
3 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 012 201	1
3.1 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 802	1
3.1 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 012 002	1
3.1 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 012 202	1
3.2 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 804	1
3.2 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 012 004	1
3.2 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 012 204	1
3.25 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 805	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
3.25 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 012 005	1
3.25 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 012 205	1
3.3 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 806	1
3.3 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 012 006	1
3.3 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 012 206	1
3.38 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 807	1
3.38 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 012 007	1
3.38 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 012 207	1
3.4 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 808	1
3.4 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 012 008	1
3.4 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 012 208	1
3.5 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 809	1
3.5 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 012 009	1
3.5 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 012 209	1
3.6 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 810	1
3.6 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 012 010	1
3.6 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 012 210	1
3.65 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 811	1
3.65 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 012 011	1
3.65 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 012 211	1
3.7 mm	Cylindrical DIN 6535-HA	66 mm	28 mm	6 mm	5443 011 812	1
3.7 mm	Cylindrical DIN 6535-HB	66 mm	28 mm	6 mm	5443 012 012	1
3.7 mm	Cylindrical DIN 6535-HE	66 mm	28 mm	6 mm	5443 012 212	1
3.8 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 011 813	1
3.8 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 012 013	1
3.8 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 012 213	1
3.9 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 011 814	1
3.9 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 012 014	1
3.9 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 012 214	1
4.1 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 011 816	1
4.1 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 012 016	1
4.1 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 012 216	1

Continuation **HPC solid carbide drill Speeddrill 4.0-Inox,**
DIN 6537L, long 5xD, 4 drill heels, with internal cooling

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
4.2 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 011 817	1
4.2 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 012 017	1
4.2 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 012 217	1
4.3 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 011 818	1
4.3 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 012 018	1
4.3 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 012 218	1
4.4 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 011 815	1
4.4 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 011 819	1
4.4 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 012 015	1
4.4 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 012 019	1
4.4 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 012 215	1
4.4 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 012 219	1
4.5 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 011 820	1
4.5 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 012 020	1
4.5 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 012 220	1
4.6 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 011 821	1
4.6 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 012 021	1
4.6 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 012 221	1
4.64 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 011 822	1
4.64 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 012 022	1
4.64 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 012 222	1
4.7 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 011 823	1
4.7 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 012 023	1
4.7 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 012 223	1
4.75 mm	Cylindrical DIN 6535-HA	74 mm	36 mm	6 mm	5443 011 824	1
4.75 mm	Cylindrical DIN 6535-HB	74 mm	36 mm	6 mm	5443 012 024	1
4.75 mm	Cylindrical DIN 6535-HE	74 mm	36 mm	6 mm	5443 012 224	1
4.8 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 826	1
4.8 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 026	1
4.8 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 226	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
4.9 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 827	1
4.9 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 027	1
4.9 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 227	1
5/16 in	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 865	1
5/16 in	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 065	1
5/16 in	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 265	1
5.1 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 829	1
5.1 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 029	1
5.1 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 229	1
5.2 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 830	1
5.2 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 030	1
5.2 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 230	1
5.25 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 831	1
5.25 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 031	1
5.25 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 231	1
5.3 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 832	1
5.3 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 032	1
5.3 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 232	1
5.4 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 833	1
5.4 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 033	1
5.4 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 233	1
5.5 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 828	1
5.5 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 834	1
5.5 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 028	1
5.5 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 034	1
5.5 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 228	1
5.5 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 234	1
5.55 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 835	1
5.55 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 035	1
5.55 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 235	1
5.6 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 836	1
5.6 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 036	1

Continuation **HPC solid carbide drill Speeddrill 4.0-Inox,**
DIN 6537L, long 5xD, 4 drill heels, with internal cooling

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
5.6 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 236	1
5.7 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 837	1
5.7 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 037	1
5.7 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 237	1
5.75 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 838	1
5.75 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 038	1
5.75 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 238	1
5.8 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 839	1
5.8 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 039	1
5.8 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 239	1
5.9 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 840	1
5.9 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 040	1
5.9 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 240	1
6.1 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 842	1
6.1 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 042	1
6.1 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 242	1
6.2 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 843	1
6.2 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 043	1
6.2 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 243	1
6.3 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 844	1
6.3 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 044	1
6.3 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 244	1
6.4 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 846	1
6.4 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 046	1
6.4 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 246	1
6.5 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 847	1
6.5 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 047	1
6.5 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 247	1
6.6 mm	Cylindrical DIN 6535-HA	82 mm	44 mm	6 mm	5443 011 841	1
6.6 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 848	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
6.6 mm	Cylindrical DIN 6535-HB	82 mm	44 mm	6 mm	5443 012 041	1
6.6 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 048	1
6.6 mm	Cylindrical DIN 6535-HE	82 mm	44 mm	6 mm	5443 012 241	1
6.6 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 248	1
6.7 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 849	1
6.7 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 049	1
6.7 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 249	1
6.8 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 850	1
6.8 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 050	1
6.8 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 250	1
6.9 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 851	1
6.9 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 051	1
6.9 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 251	1
7/16 in	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 906	1
7/16 in	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 106	1
7/16 in	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 306	1
7.1 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 853	1
7.1 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 053	1
7.1 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 253	1
7.2 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 854	1
7.2 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 054	1
7.2 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 254	1
7.25 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 855	1
7.25 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 055	1
7.25 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 255	1
7.3 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 856	1
7.3 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 056	1
7.3 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 256	1
7.4 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 857	1
7.4 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 057	1
7.4 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 257	1
7.45 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 858	1

Continuation **HPC solid carbide drill Speeddrill 4.0-Inox,**
DIN 6537L, long 5xD, 4 drill heels, with internal cooling

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
7.45 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 058	1
7.45 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 258	1
7.5 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 859	1
7.5 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 059	1
7.5 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 259	1
7.6 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 860	1
7.6 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 060	1
7.6 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 260	1
7.7 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 852	1
7.7 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 861	1
7.7 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 052	1
7.7 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 061	1
7.7 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 252	1
7.7 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 261	1
7.75 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 862	1
7.75 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 062	1
7.75 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 262	1
7.8 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 863	1
7.8 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 063	1
7.8 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 263	1
7.9 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 864	1
7.9 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 064	1
7.9 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 264	1
8 mm	Cylindrical DIN 6535-HA	91 mm	53 mm	8 mm	5443 011 866	1
8 mm	Cylindrical DIN 6535-HB	91 mm	53 mm	8 mm	5443 012 066	1
8 mm	Cylindrical DIN 6535-HE	91 mm	53 mm	8 mm	5443 012 266	1
8.1 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 867	1
8.1 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 067	1
8.1 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 267	1
8.2 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 868	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
8.2 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 068	1
8.2 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 268	1
8.3 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 869	1
8.3 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 069	1
8.3 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 269	1
8.4 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 870	1
8.4 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 070	1
8.4 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 270	1
8.45 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 871	1
8.45 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 071	1
8.45 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 271	1
8.5 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 872	1
8.5 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 072	1
8.5 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 272	1
8.6 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 873	1
8.6 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 073	1
8.6 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 273	1
8.7 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 874	1
8.7 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 074	1
8.7 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 274	1
8.8 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 875	1
8.8 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 075	1
8.8 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 275	1
8.9 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 876	1
8.9 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 076	1
8.9 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 276	1
9 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 877	1
9 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 077	1
9 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 277	1
9.1 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 878	1
9.1 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 078	1
9.1 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 278	1

Continuation **HPC solid carbide drill Speeddrill 4.0-Inox,**
DIN 6537L, long 5xD, 4 drill heels, with internal cooling

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
9.2 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 879	1
9.2 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 079	1
9.2 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 279	1
9.25 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 880	1
9.25 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 080	1
9.25 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 280	1
9.3 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 881	1
9.3 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 081	1
9.3 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 281	1
9.35 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 882	1
9.35 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 082	1
9.35 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 282	1
9.4 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 883	1
9.4 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 083	1
9.4 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 283	1
9.45 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 884	1
9.45 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 084	1
9.45 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 284	1
9.5 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 885	1
9.5 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 085	1
9.5 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 285	1
9.6 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 887	1
9.6 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 087	1
9.6 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 287	1
9.7 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 888	1
9.7 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 088	1
9.7 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 288	1
9.75 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 889	1
9.75 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 089	1
9.75 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 289	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
9.8 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 890	1
9.8 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 090	1
9.8 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 290	1
9.9 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 891	1
9.9 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 091	1
9.9 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 291	1
10.1 mm	Cylindrical DIN 6535-HA	103 mm	61 mm	10 mm	5443 011 892	1
10.1 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 893	1
10.1 mm	Cylindrical DIN 6535-HB	103 mm	61 mm	10 mm	5443 012 092	1
10.1 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 093	1
10.1 mm	Cylindrical DIN 6535-HE	103 mm	61 mm	10 mm	5443 012 292	1
10.1 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 293	1
10.2 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 894	1
10.2 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 094	1
10.2 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 294	1
10.25 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 895	1
10.25 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 095	1
10.25 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 295	1
10.3 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 896	1
10.3 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 096	1
10.3 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 296	1
10.4 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 897	1
10.4 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 097	1
10.4 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 297	1
10.5 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 898	1
10.5 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 098	1
10.5 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 298	1
10.6 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 899	1
10.6 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 099	1
10.6 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 299	1
10.7 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 900	1
10.7 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 100	1

Continuation **HPC solid carbide drill Speeddrill 4.0-Inox,**
DIN 6537L, long 5xD, 4 drill heels, with internal cooling

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
10.7 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 300	1
10.75 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 901	1
10.75 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 101	1
10.75 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 301	1
10.8 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 902	1
10.8 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 102	1
10.8 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 302	1
10.9 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 903	1
10.9 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 103	1
10.9 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 303	1
11 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 904	1
11 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 104	1
11 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 304	1
11.1 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 905	1
11.1 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 105	1
11.1 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 305	1
11.2 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 907	1
11.2 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 107	1
11.2 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 307	1
11.25 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 908	1
11.25 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 108	1
11.25 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 308	1
11.3 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 909	1
11.3 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 109	1
11.3 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 309	1
11.35 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 910	1
11.35 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 110	1
11.35 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 310	1
11.4 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 911	1
11.4 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 111	1

Diameter (d1)	Shank style	Length (l1)	Chip flute length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
11.4 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 311	1
11.45 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 912	1
11.45 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 112	1
11.45 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 312	1
11.5 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 913	1
11.5 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 113	1
11.5 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 313	1
11.6 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 914	1
11.6 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 114	1
11.6 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 314	1
11.7 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 915	1
11.7 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 115	1
11.7 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 315	1
11.75 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 916	1
11.75 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 116	1
11.75 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 316	1
11.8 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 917	1
11.8 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 117	1
11.8 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 317	1
11.9 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 918	1
11.9 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 118	1
11.9 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 318	1
12 mm	Cylindrical DIN 6535-HA	118 mm	71 mm	12 mm	5443 011 919	1
12 mm	Cylindrical DIN 6535-HB	118 mm	71 mm	12 mm	5443 012 119	1
12 mm	Cylindrical DIN 6535-HE	118 mm	71 mm	12 mm	5443 012 319	1

Twist drill bit box HSS type RN

19 pieces. Cold-formed assembly drill bits for working in steel, tip angle 118°.

- Good value HSS twist drill for general use in steel up to 800 N/mm²

Number of pieces in assortment/set	19 PCS
Surface	Vaporised
Standard/drilling depth	DIN 338/5xD



Continuation **Twist drill bit box HSS type RN**

Art. no. 0625 01

P. Qty.: 1

Contents for art. no. 0625 01		
Designation	Art. no.	Quantity
Twist drill bit HSS DIN 338 type RN 118° 1 mm	0625 10	1
Twist drill bit HSS DIN 338 type RN 118° 1.5 mm	0625 15	1
Twist drill bit HSS DIN 338 type RN 118° 2 mm	0625 20	1
Twist drill bit HSS DIN 338 type RN 118° 2.5 mm	0625 25	1
Twist drill bit HSS DIN 338 type RN 118° 3.0 mm	0625 30	1
Twist drill bit HSS DIN 338 type RN 118° 3.5 mm	0625 35	1
Twist drill bit HSS DIN 338 type RN 118° 4 mm	0625 40	1
Twist drill bit HSS DIN 338 type RN 118° 4.5 mm	0625 45	1
Twist drill bit HSS DIN 338 type RN 118° 5.0 mm	0625 50	1
Twist drill bit HSS DIN 338 type RN 118° 5.5 mm	0625 55	1
Twist drill bit HSS DIN 338 type RN 118° 6 mm	0625 60	1
Twist drill bit HSS DIN 338 type RN 118° 6.5 mm	0625 65	1
Twist drill bit HSS DIN 338 type RN 118° 7 mm	0625 70	1
Twist drill bit HSS DIN 338 type RN 118° 7.5 mm	0625 75	1
Twist drill bit HSS DIN 338 type RN 118° 8 mm	0625 80	1
Twist drill bit HSS DIN 338 type RN 118° 8.5 mm	0625 85	1
Twist drill bit HSS DIN 338 type RN 118° 9 mm	0625 90	1
Twist drill bit HSS DIN 338 type RN 118° 9.5 mm	0625 95	1
Twist drill bit HSS DIN 338 type RN 118° 10 mm	0625 100	1

Stepped twist drill bit assortment HSS Multi Performance TiAlN

3 pieces The latest generation, multi-performance, stepped drill bits with TiAlN coating for maximum service life, significantly faster drilling with quiet processing as well as greatly reduced burr formation in the processing of almost all thin-walled materials such as conventional steel up to 1300 N/mm² strength, stainless steel, aluminium, cast iron, brass, bronze, wood and plastics.

- 9 times longer service life and up to 50% higher cutting speed
- Improved centring and up to 100% faster spot drilling
- Acceleration of the overall drilling process



Number of pieces in assortment/set	3 PCS
Shank style	3-face shank

Art. no. 0694 458 001

P. Qty.: 1

For the stepped drill bits/material assignments, see the overview tables

Stepped twist drill bit HSS Multi Performance TiAlN

The latest generation, multi-performance, stepped drill bits with TiAlN coating for maximum service life, significantly faster drilling with quiet processing as well as greatly reduced burr formation in the processing of almost all thin-walled materials such as conventional steel up to 1300 N/mm² strength, stainless steel, aluminium, cast iron, brass, bronze, wood and plastics.



- 9 times longer service life and up to 50% higher cutting speed
- Improved centring and up to 100% faster spot drilling
- Acceleration of the overall drilling process

Shaft length	24 mm
Shank style	3-face shank

Min./max. drill diameter	Shaft diameter	Length	Art. no.	P. Qty.
4-20 mm	8 mm	70 mm	0694 458 420	1
4-12 mm	6 mm	66 mm	0694 458 412	1
5.3-38.5 mm	10 mm	96 mm	0694 458 538	1
6.0-38 mm	10 mm	100 mm	0694 458 638	1
6.0-37 mm	10 mm	92.7 mm	0694 458 637	1
6.0-26.75 mm	10 mm	75 mm	0694 458 628	1
6-40.5 mm	10 mm	126 mm	0694 458 640	1
6-39 mm	10 mm	94.3 mm	0694 458 639	1
6-30 mm	10 mm	94 mm	0694 458 630	1

For the stepped drill bits/material assignments, see the overview tables

Stepped twist drill bit assortment HSS Performance plain

3 pieces. The latest generation of Performance stepped drill bits for longer service lives, significantly faster drilling with smooth running and greatly reduced formation of burrs when processing thin workpieces made from conventional steel with a strength of up to 900 N/mm², aluminium, cast iron, brass, bronze, wood and plastics.



- 4 times longer service life
- Improved centring and up to 100% faster spot drilling
- Acceleration of the overall drilling process

Number of pieces in assortment/set	3 PCS
Shank style	3-face shank



Art. no. 0694 453 001

P. Qty.: 1

For the stepped drill bits/material assignments, see the overview tables

Stepped twist drill bit HSS Performance plain

The latest generation of Performance stepped drill bits for longer service lives, significantly faster drilling with smooth running and greatly reduced formation of burrs when processing thin workpieces made from conventional steel with a strength of up to 900 N/mm², aluminium, cast iron, brass, bronze, wood and plastics.



- 4 times longer service life
- Improved centring and up to 100% faster spot drilling
- Acceleration of the overall drilling process

Min./max. drill diameter	Shaft diameter	Shaft length	Shank style	Length	Art. no.	P. Qty.
4-20 mm	1/4 in	26 mm	Hexagon bit holder, shape E, DIN3126	72 mm	0694 453 421	1
4-20 mm	8 mm	24 mm	3-face shank	70 mm	0694 453 420	1
4-12 mm	6 mm	24 mm	3-face shank	66 mm	0694 453 412	1
6-40.5 mm	10 mm	24 mm	3-face shank	126 mm	0694 453 640	1
6-39 mm	10 mm	24 mm	3-face shank	94.3 mm	0694 453 639	1
6-37 mm	10 mm	24 mm	3-face shank	92.7 mm	0694 453 637	1
6-30 mm	10 mm	24 mm	3-face shank	94 mm	0694 453 630	1

For the stepped drill bits/material assignments, see the overview tables

MFD-S combi stone drill bit assortment

10 pieces. The combi set with straight shank specifically for cordless drills for drilling professional-quality anchor holes — even when working with the hardest of ceramics, e.g. stoneware.

Stoneware drill bit

- Specially developed cemented carbide plate geometry (multi-surface precision grinding)
- No cooling is required

MFD-S multi-purpose drill bit

- Extra-sharp carbide cutting edges with special diamond grinding on all sides
- Outstanding, rapid transport of drilling dust
- PGM tested



Number of pieces in assortment/set	10 PCS
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Art. no. 0641 464 101

P. Qty.: 1



For further information, please refer to the individual products.

Stoneware drill bit

- Max. rotation speed 200 rpm
- Not suitable for impact drilling. For rotary drilling only!
- Optimum contact pressure 35–45 kg
- If the recommended drilling speed is observed and the optimum contact pressure applied, but you can no longer hear a „scraping“ sound, the drill bit has reached the end of its service life.
- Avoid placing high contact pressure on the drill bit when it is not rotating → Risk of breakage!
- Contact pressure too low and/or drilling speed too high → Service life ends prematurely!
- Avoid tilting and swivelling movements during the drilling process → Risk of breakage!
- We recommend drilling test holes (ideally in waste material from the tiles to be drilled)

MFD-S multi-purpose drill bit

Not suitable for impact drilling. For rotary drilling only!

Stepped drill bit

With stop ring

Diameter (Ø)	7 mm
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Length	Working length	Suitable for screw	Art. no.	P. Qty.
123 mm	73 mm	Diameter 7 mm x length 40 mm	0627 103 123	1
133 mm	83 mm	Diameter 7 mm x length 50 mm	0627 103 133	1
153 mm	103 mm	Diameter 7 mm x length 70 mm	0627 103 153	1

Solid carbide spot-weld drill bit with three cutting edges

For drilling out/milling spot welds on car bodies with high-tensile steel plates in all types of cars on A-pillars, B-pillars, door sills etc.



Excellent centring of the drill bit on the spot weld

Wide yet robust tip geometry

Extremely long service life

Innovative Magma coating on the drill tip

Diameter	8 mm
Length	45 mm
Shaft diameter	7.5 mm

Art. no. 0710 810 800

P. Qty.: 1

Spot weld cutter for pneumatic machines Solid carbide multi-performance

The universal high-performance spot weld drill bit for loosening spot welds with pneumatic machines (e.g. Vario drill, expanding nail, etc.) on all body sheeting incl. ultra high-strength components (BTR, BOR, etc.) on all kinds of vehicles, e.g. on A-pillars, B-pillars, sills, etc.



- Up to 100% faster and up to 100% longer service life compared to conventional CC spot weld cutters with 3 blades
- Significantly fewer brittle centring points compared to conventional CC spot weld cutters
- Optimum cutting behaviour due to very good centring on the spot weld

Type description	Multi-Performance
Quality	ZEBRA-Premium
Cutting material	VHM
Surface	Magma multilayer coating
Number of teeth	4 PCS
Suitable for tensile strength up to	1500 N/mm ²
Length	44 mm
Shaft diameter	7.5 mm
Service life (points system)	●●●●
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●●
Drilling behaviour (point system)	●●●●

Diameter	Art. no.	P. Qty.
6 mm	0710 189 060	1
8 mm	0710 189 080	1
9 mm	0710 189 090	1
10 mm	0710 189 100	1

Solid carbide spot-weld drill bit with three cutting edges

Drilling/milling out of spot welding on vehicle bodywork, for high-strength sheet steel in all types of vehicles, on the A-pillar, B-pillar, door sills etc.



Excellent centring of the drill bit on the spot weld

Wide yet robust tip geometry

Extremely long service life

Innovative Magma coating on the drill tip

Cutting material	Carbide
Length	80 mm

Diameter	Shaft diameter	Art. no.	P. Qty.
6 mm	6 mm	0710 811 600	1
8 mm	8 mm	0710 811 800	1

Spot weld drill bit DIN 1897 Solid carbide multi-performance

The universal high-performance spot weld drill bit for loosening spot welds on all bodywork panels including ultra high-strength components (BTR, BOR etc.) on all kinds of vehicles, e.g. on A-pillars, B-pillars, sills etc.



- Up to 100% faster and up to 100% longer service life compared to conventional solid carbide spot weld cutters with 3 cutting edges
- Significantly fewer brittle centring points compared to conventional solid carbide spot weld cutters
- Optimum cutting behaviour due to very good centring on the spot weld

Quality	ZEBRA-Premium
Cutting material	VHM
Surface	Magma multilayer coating
Suitable for tensile strength up to	1500 N/mm ²
Shank style	3-face shank
Type	DIN 1897 solid carbide multi-performance
Service life (points system)	●●●●
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●●
Drilling behaviour (point system)	●●●●

Diameter	Length	Chip flute length	Shaft diameter	Art. no.	P. Qty.
6 mm	66 mm	28 mm	6 mm	0710 789 060	1
8 mm	79 mm	37 mm	8 mm	0710 789 080	1
9 mm	84 mm	37 mm	9 mm	0710 789 090	1
10 mm	89 mm	43 mm	10 mm	0710 789 100	1

- Not for use in pneumatic machines (e.g. Vario drill, Spitznagel etc.)
- Do not use in drills with an impact chuck or spindles

HSS centre drill bit

Standard drill bit for making centring holes in accordance with DIN 332, page 1.

Shape A, right-hand cutting



- Without protection countersink
- With straight running surfaces
- Countersink angle 60°
- Ø tolerance on the shank: h9 in accordance with DIN 7160

Continuation **HSS centre drill bit**

Standards	DIN 333
Form	A
Countersink angle	60 Degree
Cutting material	HSS

Diameter (d1)	Length (l1)	Shaft diameter (d2)	Art. no.	P. Qty.
1 mm	31.5 mm	3.15 mm	0636 110	3
1.6 mm	35.5 mm	4 mm	0636 116	3
2 mm	40 mm	5 mm	0636 120	3
2.5 mm	45 mm	6.3 mm	0636 125	3
3.15 mm	50 mm	8 mm	0636 131 5	3
4 mm	56 mm	10 mm	0636 140	1
5 mm	63 mm	12.5 mm	0636 150	1
6.3 mm	71 mm	16 mm	0636 163	1

Diamond tile wet core bit set

10 pieces 1 x core bit per size 5, 8, 10, 12, 14 mm diameter and 2 x 6 mm diameter, drilling template 4–14 mm diameter, bit holder and ejector. With 1/4 inch hexagon bit mount, specifically for use with cordless drills.

- Pinpoint, precision drilling
- Clean edges, precise holes
- Optimum, uniform coolant feed
- Very rapid loosening/replacement of drill bit possible
- Easily removed drill core

Art. no. 0651 900 001

P. Qty.: 1



Adapter for drill crown

Connection adapter for third-party and WDS machines



Product weight (per item)	Art. no.	P. Qty.
473 g	5462 000 001	1
519 g	5462 000 002	1
545 g	5462 000 005	1
551 g	5462 000 009	1
820 g	5462 000 008	1
889 g	5462 000 007	1
1044 g	5462 000 010	1

WDS = Würth Diamond System (old)

Dry drilling set With dust extraction for core drills

Suitable for use in the DS 180 core drill

- Reduced dust pollution for the user
- Extends the service life of the machine

Product weight (per item)	976 g
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Art. no. 5709 116 001

P. Qty.: 1



Drilling stand DS Comfort

Convenient drilling stand for diamond core drills DS 130-P/DS 130-T, DS 164 and DS 300

- Aluminium column with carry handle and two solid rubber wheels on stainless steel axle for easier tipping of drilling stand
- Engraved drilling depth and angle display, and drill centre point display made from stainless steel
- Column with dovetail guide
- Knurled adjusting screws with additional hexagon head
- Drill spindle with quick-change connection, can be mounted on either side of the carriage, with integrated key for the knurled adjusting screws

Column height	900 cm
Product weight (per item)	15.9 kg
Suitable for max. drill-bit diameter	350 cm

Art. no. 5709 116 12

P. Qty.: 1



Second handle

Suitable for use in the DS 180 core drill

- Better drilling progress for vertical drilling
- Easy to use

Product weight (per item)	428 g
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Art. no. 5709 116 002

P. Qty.: 1



Shoulder support

Suitable for use in the DS 180 core drill

- Better drilling progress for horizontal drilling
- Easy to use

Product weight (per item)	440 g
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Art. no. 5709 116 003

P. Qty.: 1



Adapter plate

Suitable for use in the DS 180 core drill. Required in conjunction with the shoulder support or the second handle.

- Easily switch between shoulder support and second handle

Product weight (per item)	90 g
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Art. no. 5709 116 004

P. Qty.: 1



Carriage

Suitable for the DS 180 core drill

- Required for using the DS 180 in conjunction with a drilling stand

Product weight (per item)	3980 g
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Art. no. 5709 116 005

P. Qty.: 1



Diamond tile wet core bit

With 1/4-inch hex. bit shank specifically for use in cordless drills.

Precise, exact drilling

No splitting or cracking of tiles

Additional openings in the cutting area, bit mount hollow internally and additional opening in bit body

Length of core drill bit	65 mm
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Diameter (Ø)	Art. no.	P. Qty.
5 mm	0651 910 500	5
6 mm	0651 910 600	5
8 mm	0651 910 800	5
10 mm	0651 911 000	5
12 mm	0651 911 200	2
14 mm	0651 911 400	2

Ensure a continuous, adequate water supply – never drill dry!

Position the drilling jig such that the current centring hole is always located at the lowest point

Remove the drill core after every drilling process

Brick and tile drill bit

Special carbide drill bit with cylindrical shank for dry drilling of high-fired bricks and tiles.

- Suitable for all rotary and impact drills (also with 10 mm clamping drill chuck).
- Diamond-sharpened tungsten-titanium tip with special grinding
- Low-current, high-temperature soldering process (1120°C)
- Practical straight shank, virtually automatic self-clamping



Versatility (points system)	●●●○
Service life (points system)	●●○○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●○○
Tool holding device	Cylinder shank

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
4 mm	75 mm	40 mm	0641 000 400	5/10
5 mm	85 mm	50 mm	0641 000 500	5/10
6 mm	100 mm	60 mm	0641 000 600	5/10
8 mm	120 mm	80 mm	0641 000 800	5/10
10 mm	120 mm	80 mm	0641 001 000	2/5
12 mm	150 mm	100 mm	0641 001 200	2

Please note: Use drill bits only in rotating mode!

DUO-S impact drill bit with straight shank

High-performance impact drill bit with the features of a hammer drill bit.

- Precise drilling
- Hammer-resistant, extremely robust and designed for the toughest applications
- Rapid drilling progress owing to multi-spiral, large-volume spiral conveyor
- Suitable for rotary and impact drilling
- PGM tested



Versatility (points system)	●●○○
Service life (points system)	●●●●
Drilling speed (point system)	●●●●

Continuation **DUO-S impact drill bit with straight shank**

Bore hole quality (point system)	●●●○
Tool holding device	Cylinder shank

Diameter (Ø)	Length	Working length	Shaft diameter	Art. no.	P. Qty.
3 mm	60 mm	30 mm	3 mm	0637 203 006	2/5
4 mm	75 mm	39 mm	4 mm	0637 204 007	2/5
4 mm	150 mm	90 mm	4 mm	0637 204 015	1
4.5 mm	75 mm	39 mm	4.5 mm	0637 204 507	1
5 mm	85 mm	39 mm	5 mm	0637 205 008	2/5
5 mm	150 mm	90 mm	5 mm	0637 205 015	1
5.5 mm	85 mm	39 mm	5.5 mm	0637 205 508	1
5.5 mm	150 mm	90 mm	5.5 mm	0637 205 515	1
6 mm	100 mm	54 mm	6 mm	0637 206 010	2/5
6 mm	150 mm	90 mm	6 mm	0637 206 015	2/5
6.5 mm	100 mm	54 mm	6.5 mm	0637 206 510	1
7 mm	100 mm	54 mm	7 mm	0637 207 010	1
8 mm	120 mm	80 mm	8 mm	0637 208 012	2/5
8 mm	200 mm	140 mm	8 mm	0637 208 020	1
9 mm	120 mm	80 mm	9 mm	0637 209 012	1
10 mm	120 mm	80 mm	10 mm	0637 201 012	2/5
10 mm	200 mm	140 mm	10 mm	0637 201 020	1
11 mm	150 mm	90 mm	11 mm	0637 201 115	1
12 mm	150 mm	90 mm	10 mm	0637 201 215	2/5
12 mm	200 mm	140 mm	10 mm	0637 201 220	1
13 mm	150 mm	90 mm	10 mm	0637 201 315	1
14 mm	150 mm	90 mm	10 mm	0637 201 415	1
15 mm	150 mm	90 mm	10 mm	0637 201 515	1
16 mm	150 mm	90 mm	10 mm	0637 201 615	1
18 mm	160 mm	100 mm	10 mm	0637 201 816	1
20 mm	160 mm	100 mm	13 mm	0637 202 016	1



DUO-S impact drill bit, 1/4-inch hexagonal shank

High-performance impact drill bit with the features of a hammer drill bit.

- No slippage in the drill chuck thanks to the hexagonal shank
- Lathe centre with outstanding centring properties
- State-of-the-art vacuum hardening
- Highly resilient cemented carbide tip
- Optimum soldering using high-vacuum technology, heat-resistant up to 1100°C
- Specially quenched and tempered clamping shank
- High-strength drill bit head, same shank material as the hammer drill bit
- Aggressively ground cemented carbide plate
- Multi-spiral, large-volume spiral conveyor
- Suitable for rotary and impact drilling
- PGM tested



Versatility (points system)	●●○○
Service life (points system)	●●●●
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●○
Tool holding device	Hexagon

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
4 mm	100 mm	39 mm	0637 264 010	1
5 mm	100 mm	39 mm	0637 265 010	1
6 mm	100 mm	54 mm	0637 266 010	1
8 mm	120 mm	80 mm	0637 268 012	1
10 mm	120 mm	80 mm	0637 261 012	1



DUO-S impact drill bit box, with straight shank

10 pieces. High-performance impact drill bit with the features of a hammer drill bit.

- Lathe centre with outstanding centring properties
- State-of-the-art vacuum hardening
- Highly resilient cemented carbide tip
- Optimum soldering using high-vacuum technology, heat-resistant up to 1100°C
- Specially tempered clamping shank
- High-strength drill bit head, same shank material as the hammer drill bit
- Aggressively ground cemented carbide plate
- Multi-spiral, large-volume spiral conveyor
- Suitable for rotary and impact drilling
- Suitable for drilling holes intended for anchor connections that are subject to approval



Continuation **DUO-S impact drill bit box, with straight shank**

Versatility (points system)	●●○○
Service life (points system)	●●●●
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●○
Number of pieces in assortment/set	10 PCS
Tool holding device	Cylinder shank

Art. no. 0637 200 001

P. Qty.: 1

Contents for art. no. 0637 200 001		
Designation	Art. no.	Quantity
DUO-S impact drill bit with straight shank 3 mm	0637 203 006	1
DUO-S impact drill bit with straight shank 4 mm	0637 204 007	1
DUO-S impact drill bit with straight shank 5 mm	0637 205 008	2
DUO-S impact drill bit with straight shank 6 mm	0637 206 010	2
DUO-S impact drill bit with straight shank 7 mm	0637 207 010	1
DUO-S impact drill bit with straight shank 8 mm	0637 208 012	1
DUO-S impact drill bit with straight shank 9 mm	0637 209 012	1
DUO-S impact drill bit with straight shank 10 mm	0637 201 012	1



Impact drill bit DUO-S multipack, 1/4-inch hexagonal shank

6 pieces. High-performance impact drill bit with the features of a hammer drill bit.

- No slipping in the drill chuck
- Precise spot drilling
- Hammer-resistant, extremely robust and designed for the toughest applications
- Fast drilling process
- Suitable for rotary and impact drilling
- PGM tested



Versatility (points system)	●●○○
Service life (points system)	●●●●
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●○
Number of pieces in assortment/set	6 PCS
Tool holding device	Hexagon



Art. no. 0637 260 002

P. Qty.: 1



Extraction drill bit Plus D

Extremely fast hammer drill bit with aggressive two-cutter head for drilling and suction in one work step.



- The dust is sucked up immediately as it occurs in the drill hole
- Protects the user from damage to health
- Increases the service life
- No subsequent cleaning of the drill hole is required
- Significant prevention of dust produced on the construction site
- Robust 2-blade head geometry and extra-large extraction holes directly in the head area
- Suitable for all standard, certified vacuum cleaners of dust class M thanks to flexible, one-piece rubber vacuum adapter
- Special self-centring tip

Number of cutting edges	2 PCS
Tool holding device	Suitable for SDS-plus
Drilling speed (point system)	●●●●
Smoothness of running (points system)	●●○○
Accuracy (point system)	●●○○
Reinforcement strength (points system)	●○○○
Service life (points system)	●●●○

Diameter (Ø)	Length	Working length	Art. no.	P. Qty.
6 mm	220 mm	100 mm	0648 456 022	1
8 mm	220 mm	100 mm	0648 458 022	1
8 mm	270 mm	150 mm	0648 458 027	1
10 mm	220 mm	100 mm	0648 451 022	1
10 mm	270 mm	150 mm	0648 451 027	1
12 mm	320 mm	200 mm	0648 451 232	1
14 mm	370 mm	250 mm	0648 451 437	1
16 mm	370 mm	250 mm	0648 451 637	1

- Iron reinforcements may only be drilled through with permission from a structural engineer
- Observe the enclosed operating instructions
- Eligible for support from the German social accident insurance institution for the construction industry (BG BAU)
- Only use with vacuum cleaners of dust class M

Extraction drill bit Plus M

Fast hammer drill bit with excellent service life and multi-cutter head for drilling and suction in one work step.



- No subsequent borehole cleaning necessary
- Significantly inhibits the formation of dust on the construction site
- Suitable for all standard, certified vacuum cleaners of dust class M thanks to flexible, one-piece rubber suction adapter

Tool holding device	Suitable for SDS-plus
Drilling speed (point system)	●●●○
Smoothness of running (points system)	●●●○
Accuracy (point system)	●●●○
Reinforcement strength (points system)	●●○○
Service life (points system)	●●●●

Diameter (Ø)	Length	Working length	Number of cutting edges	Art. no.	P. Qty.
12 mm	320 mm	200 mm	3 PCS	0648 401 232	1
14 mm	370 mm	250 mm	3 PCS	0648 401 437	1
16 mm	370 mm	250 mm	3 PCS	0648 401 637	1
18 mm	370 mm	250 mm	4 PCS	0648 401 837	1
20 mm	370 mm	250 mm	4 PCS	0648 402 037	1
24 mm	370 mm	250 mm	4 PCS	0648 402 437	1

- Iron reinforcements may only be drilled through with permission from a structural engineer
- Observe the enclosed operating instructions
- Only for use with dust class M vacuums

Concrete milling crown Max

The concrete milling crown with tool chuck suitable for SDS-max is optimised for hammer drills above 8 kg (20 J).



- New head geometry, even withstands strikes in armouring iron
- Solid centre drill in multi-flute/three-flute cutter design
- Aggressive external cutting ring with large roof-shaped carbide cutters and special reinforcement chamfers
- Optimised spiral geometry
- Conical shaft and reinforced back width

Drilling speed (point system)	●●○○
Smoothness of running (points system)	●●●○
Accuracy (point system)	●●○○
Reinforcement strength (points system)	●●●○
Service life (points system)	●●●○
Length	550 mm
Working length	430 mm
Tool holding device	Suitable for SDS-max

Number of cutting edges	Diameter (Ø)	Art. no.	P. Qty.
	40 mm	0638 840 450	1
6 PCS	45 mm	0638 845 450	1
6 PCS	55 mm	0638 855 450	1
6 PCS	65 mm	0638 865 450	1
6 PCS	80 mm	0638 880 450	1

Iron reinforcements may only be drilled through with permission from a structural engineer.



Flat chisel Plus Longlife & Speed

Premium next-generation flat chisel with tool chuck suitable for SDS-plus.

- The new chisel shape prevents jamming and reduces friction
- Self-sharpening design removes more material in less time and ensures a high removal rate across the tool's full service life
- Up to 200% longer service life compared to standard versions thanks to an extended work area

Length	250 mm
Width	20 mm
Tool holding device	Suitable for SDS-plus



Art. no. 0648 862 250

P. Qty.: 1

Flat chisel Max Longlife & Speed

Premium next-generation flat chisel with tool chuck suitable for SDS-max.

- The new chisel shape prevents jamming and reduces friction
- Self-sharpening design removes more material in less time and ensures a high removal rate across the tool's full service life
- Up to 170% longer service life compared to standard versions thanks to an extended work area



Width	25 mm
Tool holding device	Suitable for SDS-max

Length	Art. no.	P. Qty.
280 mm	0647 862 225	1
400 mm	0647 862 425	1

Premium spade chisel Plus

With wedge profile

- Impressive wedge effect
- High breaking power
- More material for a longer service life



Length	250 mm
Width	40 mm

Art. no. 0648 853 250

P. Qty.: 1

Premium spade chisel Max

With wedge profile

- Impressive wedge effect
- High breaking power
- More material for a longer service life



Length	380 mm
Width	50 mm

Art. no. 0647 853 50

P. Qty.: 1

Premium spade chisel with SDS-max drive arbor

Ultra-robust spade chisel with extended shank reinforcement



Length	350 mm
Width	115 mm

Art. no. 0647 853 115

P. Qty.: 1

Premium spade chisel with SDS-max drive arbor

Enhanced forming process for a longer service life

Length	300 mm
Width	80 mm



Art. no. 0647 853 80

P. Qty.: 1



Point chisel Plus Longlife & Speed

Premium next-generation point chisel with tool chuck suitable for SDS-plus.

- The new chisel shape prevents jamming and reduces friction
- Self-sharpening design removes more material in less time and ensures a high removal rate across the tool's full service life
- Up to 200% longer service life compared to standard versions thanks to an extended work area

Length	250 mm
Tool holding device	Suitable for SDS-plus



Art. no. 0648 861 250

P. Qty.: 1

Point chisel Max Longlife & Speed

Premium next-generation point chisel with tool chuck suitable for SDS-max.

- The new chisel shape prevents jamming and reduces friction
- Self-sharpening design removes more material in less time and ensures a high removal rate across the tool's full service life
- Up to 170% longer service life compared to standard versions thanks to an extended work area

Tool holding device	Suitable for SDS-max
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Length	Art. no.	P. Qty.
280 mm	0647 861 280	1
400 mm	0647 861 400	1

Point, flat and spade chisels multi-pack Max Longlife & Speed

3 pieces. Next generation premium pointed, flat and spade chisels with tool holder suitable for SDS-max in an attractive multipack.

Point and flat chisels

- The new chisel shape prevents jamming and reduces friction.

Spade chisel

- Impressive wedge effect
- High breaking power



Tool holding device	Suitable for SDS-max
Number of pieces in assortment/set	3 PCS

Art. no. 0647 860 002

P. Qty.: 1

Point, flat and spade chisels multi-pack Plus Longlife & Speed

3 pieces. Next generation premium pointed, flat and spade chisels with tool holder suitable for SDS-plus in an attractive multipack.

Point and flat chisels

- The new chisel shape prevents jamming and reduces friction.

Spade chisel

- Impressive wedge effect
- High breaking power



Tool holding device	Suitable for SDS-plus
Number of pieces in assortment/set	3 PCS

Art. no. 0648 860 002

P. Qty.: 1

Point and flat chisel set Max Longlife & Speed

6 pieces. Premium next-generation point and flat chisels with tool chuck suitable for SDS-max in an attractive large pack.

- The new chisel shape prevents jamming and reduces friction
- Self-sharpening design removes more material in less time and ensures a high removal rate across the tool's full service life
- Up to 170% longer service life compared to standard versions thanks to an extended work area



Tool holding device	Suitable for SDS-max
Number of pieces in assortment/set	6 PCS

Art. no. 0647 860 001

P. Qty.: 1

Point and flat chisel set Plus Longlife & Speed

6 pieces. Premium next-generation point and flat chisels with tool chuck suitable for SDS-plus in an attractive large pack.

- The new chisel shape prevents jamming and reduces friction
- Self-sharpening design removes more material in less time and ensures a high removal rate across the tool's full service life
- Up to 200% longer service life compared to standard versions thanks to extended work area



Tool holding device	Suitable for SDS-plus
Number of pieces in assortment/set	6 PCS

Art. no. 0648 860 001

P. Qty.: 1

Bushing tool

With SDS-MAX mounting shank

- For use in chisel hammers with SDS-MAX mounting shank
- For removing excess concrete
- For roughening up surfaces



Length	240 mm
Width	41 mm
Tool holding device	Suitable for SDS-max

Art. no. 0993 647 001

P. Qty.: 1

Tile chisel Plus extra wide

The versatile specialist with an extra-short arbor and extra-wide working blade.

- 80% more capacity in comparison with standard tools
- Can be used in a wide range of applications



Length	165 mm
Width	75 mm
Tool holding device	Suitable for SDS-plus



Art. no. 0648 855 165

P. Qty.: 1

Floor cleaning tool

For removing floor coverings

Length	270 mm
Width	117 mm

Art. no. 0647 856 117

P. Qty.: 1



For use with tool holder with SDS-max mounting shank, length 400 mm, art. no. 0647856004

Premium tile chisel with SDS-plus drive arbor

25% greater blade width in comparison with the standard on the market (40 mm width) for more removal power

- Ergonomic blade for an optimum working position on the wall, on the floor or in joints
- Time-saving since the subsurface is only slightly damaged

Length	250 mm
Width	50 mm
Tool holding device	Suitable for SDS-plus



Art. no. 0648 855 250

P. Qty.: 1

Flat chisel with SDS-max drive arbor

Round shaft for general demolition and break-through work

Width	25 mm
Tool holding device	Suitable for SDS-max



Length	Art. no.	P. Qty.
400 mm	0647 040 025	1
600 mm	0647 060 025	1

Flat chisel with SDS-plus drive arbor

For general demolition and breaking-through work

- Greater explosive force and minimised risk of sticking in material in comparison with round versions

Length	250 mm
Width	20 mm
Tool holding device	Suitable for SDS-plus



Continuation **Flat chisel with SDS-plus drive arbor**

Art. no. 0648 920 250

P. Qty.: 1

Point chisel with SDS-max drive arbor

For general demolition and breaking-through work

- Round shaft
- The entire impact energy of the hammer drill is concentrated on a single point



Tool holding device	Suitable for SDS-max
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Length	Art. no.	P. Qty.
400 mm	0647 040 0	1
600 mm	0647 060 0	1

Point chisel with SDS-plus drive arbor

For general demolition and breaking-through work

- Greater explosive force and minimised risk of sticking in material in comparison with round versions
- The entire impact energy of the hammer drill is concentrated on a single point



Length	250 mm
Tool holding device	Suitable for SDS-plus

Art. no. 0648 925 0

P. Qty.: 1

HSS special spiral formwork drill bit

High-quality HSS steel drill bits facilitate application in metals too and increase service life by up to 60%.

Optimal concentricity, no risk of breakage

Metal adhesive-secured fine thread connection of drill bit and shaft

Prevention of accidents

Open chip flutes to shank (from Ø 16 mm) prevent drill bit jamming in wood.

According to regulations of the German Institution for Statutory Accident Insurance and Prevention



Cutting material	HSS
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Diameter (Ø)	Length	Working length	Shaft diameter	Shank style	Art. no.	P. Qty.
8 mm	400 mm	100 mm	6 mm	Cylindrical	0631 80 400	1
8 mm	600 mm	100 mm	6 mm	Cylindrical	0631 80 600	1
10 mm	400 mm	100 mm	8 mm	Cylindrical	0631 100 400	1

Diameter (Ø)	Length	Working length	Shaft diameter	Shank style	Art. no.	P. Qty.
10 mm	400 mm	100 mm	10 mm	Suitable for SDS-plus	0631 010 400	1
10 mm	600 mm	100 mm	8 mm	Cylindrical	0631 100 600	1
10 mm	600 mm	100 mm	10 mm	Suitable for SDS-plus	0631 010 600	1
10 mm	800 mm	100 mm	8 mm	Cylindrical	0631 100 800	1
12 mm	400 mm	105 mm	8 mm	Cylindrical	0631 120 400	1
12 mm	400 mm	105 mm	10 mm	Suitable for SDS-plus	0631 012 400	1
12 mm	600 mm	105 mm	8 mm	Cylindrical	0631 120 600	1
12 mm	600 mm	105 mm	10 mm	Suitable for SDS-plus	0631 012 600	1
12 mm	800 mm	105 mm	8 mm	Cylindrical	0631 120 800	1
14 mm	400 mm	105 mm	8 mm	Cylindrical	0631 140 400	1
14 mm	400 mm	105 mm	10 mm	Suitable for SDS-plus	0631 014 400	1
14 mm	600 mm	105 mm	8 mm	Cylindrical	0631 140 600	1
14 mm	600 mm	105 mm	10 mm	Suitable for SDS-plus	0631 014 600	1
16 mm	400 mm	120 mm	10 mm	Cylindrical	0631 160 400	1
16 mm	400 mm	120 mm	10 mm	Suitable for SDS-plus	0631 016 400	1
16 mm	600 mm	120 mm	10 mm	Cylindrical	0631 160 600	1
16 mm	600 mm	120 mm	10 mm	Suitable for SDS-plus	0631 016 600	1
18 mm	400 mm	120 mm	10 mm	Cylindrical	0631 180 400	1
18 mm	400 mm	120 mm	10 mm	Suitable for SDS-plus	0631 018 400	1
18 mm	600 mm	120 mm	10 mm	Cylindrical	0631 180 600	1
18 mm	600 mm	120 mm	10 mm	Suitable for SDS-plus	0631 018 600	1
20 mm	400 mm	120 mm	10 mm	Cylindrical	0631 200 400	1
20 mm	400 mm	120 mm	10 mm	Suitable for SDS-plus	0631 020 400	1
20 mm	600 mm	120 mm	10 mm	Cylindrical	0631 200 600	1
20 mm	600 mm	120 mm	10 mm	Suitable for SDS-plus	0631 020 600	1
22 mm	400 mm	120 mm	10 mm	Cylindrical	0631 220 400	1
22 mm	600 mm	120 mm	10 mm	Cylindrical	0631 220 600	1
24 mm	400 mm	120 mm	11 mm	Cylindrical	0631 240 400	1
24 mm	600 mm	120 mm	11 mm	Cylindrical	0631 240 600	1
26 mm	400 mm	120 mm	11 mm	Cylindrical	0631 260 400	1
26 mm	600 mm	120 mm	11 mm	Cylindrical	0631 260 600	1
28 mm	400 mm	120 mm	11 mm	Cylindrical	0631 280 400	1
28 mm	600 mm	120 mm	11 mm	Cylindrical	0631 280 600	1
30 mm	400 mm	120 mm	11 mm	Cylindrical	0631 300 400	1
30 mm	600 mm	120 mm	10 mm	Suitable for SDS-plus	0631 030 600	1
30 mm	600 mm	120 mm	11 mm	Cylindrical	0631 300 600	1

Drill chuck adapter

For using toothed ring/quick-action drill chuck on hammer drills

Tool holding device	Suitable for SDS-plus
Drill chuck holder	1/2 inch x 20 UNF



Continuation **Drill chuck adapter**

Art. no. 0692 210 120

P. Qty.: 1

Adapter for plug-in tools, plus to max

For drills with SDS-plus drive arbor on machines with SDS-max drive arbor

Tip type	Suitable for SDS-plus
Tool holding device	Suitable for SDS-max



Art. no. 0714 44 04

P. Qty.: 1

Quick-action chuck Metal sleeve

Drill chuck type	Quick action chuck, metal sleeve
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Drill chuck holder	Min./max. drill chuck span width	Suitable for left-hand rotation	Suitable for impact work	Product weight (per item)	Art. no.	P. Qty.
1/2 inch x 20 UNF	1-13 mm	No	No	425 g	0692 312 130	1
1/2 inch x 20 UNF	1-13 mm	Yes	Yes	545.4 g	0692 412 132	1
B 16	3-16 mm	No	No	881 g	0692 316 160	1

The mount is not marked on all drill chucks.

In the interests of safety, therefore, you should measure the drill chuck spindle:

- 1/2" = 12.7 mm
- 3/8" = 9.5 mm
- 5/8" - 16 = 15.9 mm
- B 16 = 15.7 mm

Quick-action chuck 2-sleeve

Drill chuck type	Quick action chuck, two sleeves
Drill chuck holder	1/2 inch x 20 UNF
Min./max. drill chuck span width	1.5-13 mm
Suitable for left-hand rotation	Yes
Suitable for impact work	Yes
Product weight (per item)	296 g



Art. no. 0692 812 132

P. Qty.: 1

The mount is not marked on all drill chucks.

In the interests of safety, therefore, you should measure the drill chuck spindle:

- 1/2" = 12.7 mm
- 3/8" = 9.5 mm
- 5/8" - 16 = 15.9 mm
- B 16 = 15.7 mm

Quick-action chuck 1-sleeve

One-handed tool change

For use with machines on which the drill spindle is automatically locked after switch-off (spindle stop)



Drill chuck type	Quick action chuck, one sleeve
Drill chuck holder	1/2 inch x 20 UNF
Min./max. drill chuck span width	1.5-13 mm
Suitable for left-hand rotation	Yes
Suitable for impact work	Yes
Product weight (per item)	290 g

Art. no. 0692 838 135

P. Qty.: 1

The mount is not marked on all drill chucks.

In the interests of safety, therefore, you should measure the drill chuck spindle:

- 1/2" = 12.7 mm
- 3/8" = 9.5 mm
- 5/8" - 16 = 15.9 mm
- B 16 = 15.7 mm

Hammer drill chuck

With SDS-Plus mount for direct use in hammer drills without additional adapter



- Also suitable for safe impact drilling thanks to carbide jaws

Min./max. drill chuck span width	2.5-13 mm
Suitable for left-hand rotation	Yes
Suitable for impact work	Yes

Art. no. 0692 210 133

P. Qty.: 1

Hammer-resistant lightweight core bit

The fast, lightweight drill bit

- Specially developed hammer-resistant core bit for use in impact drills and hammer drills up to 4 kg
- Completely new carbide teeth with asymmetrical arrangement and sharp-edged geometry
- Special lightweight construction



Drilling depth	50 mm
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Diameter	Number of teeth	Art. no.	P. Qty.
25 mm	4 PCS	0632 410 025	1
30 mm	6 PCS	0632 410 030	1
35 mm	6 PCS	0632 410 035	1
40 mm	6 PCS	0632 410 040	1
45 mm	6 PCS	0632 410 045	1
50 mm	6 PCS	0632 410 050	1
68 mm	6 PCS	0632 410 068	1
82 mm	6 PCS	0632 410 082	1
90 mm	6 PCS	0632 410 090	1
100 mm	8 PCS	0632 410 100	1
112 mm	8 PCS	0632 410 112	1

Hammer drill bit

For large hammer drills with high impact energy

- High drilling performance thanks to innovative shaft base and active centre drill
- Secure adapter/drill bit connection thanks to special thread connection
- Active centre drill remains in the drill bit during drilling and aids the process



Drilling depth	80 mm
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Diameter (Ø)	Number of teeth	Art. no.	P. Qty.
45 mm	6 PCS	0632 000 45	1
50 mm	6 PCS	0632 000 50	1
55 mm	6 PCS	0632 000 55	1
68 mm	6 PCS	0632 000 68	1
82 mm	6 PCS	0632 000 82	1
90 mm	8 PCS	0632 000 90	1
100 mm	8 PCS	0632 000 100	1
125 mm	11 PCS	0632 000 125	1

Only use in drills with safety coupling and extra grip.

Adapters

For hammer drill core bit art. no. 0632 000...

Tool holding device	Suitable for SDS-max
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Length	Art. no.	P. Qty.
200 mm	0632 000 5	1
460 mm	0632 000 6	1

Centre drill bit

For hammer drill core bit art. no. 0632 000...

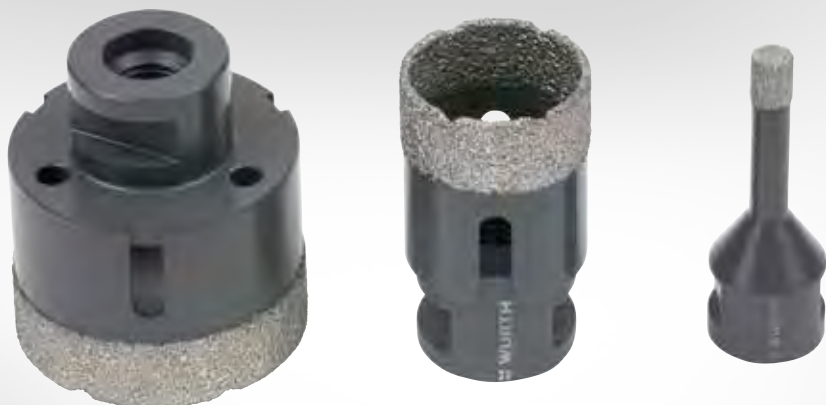
Including securing pin

Diameter	11 mm
Length	135 mm



Art. no. 0632 000 1

P. Qty.: 1



Diamond tile dry core bit M14 seat

Specially developed diamond core drill for dry drilling even the very hardest of materials such as stoneware. For use on angle grinders.

- Extremely fast drilling due to vacuum diamond coating
- Up to diameter of 14 mm with special cooling wax
- Easy removal of the drill core

Versatility (points system)	●●○○
Service life (points system)	●●●○
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●○○
Drilling pattern (points system)	●●○○
Problem solver (points system)	●●●○
Working length	35 mm

Diameter (Ø)	Length	Design	Art. no.	P. Qty.
5 mm	62 mm	Special cooling wax	5457 235 005	1
6 mm	62 mm	Special cooling wax	5457 235 006	1
8 mm	62 mm	Special cooling wax	5457 235 008	1
10 mm	62 mm	Special cooling wax	5457 235 010	1
12 mm	62 mm	Special cooling wax	5457 235 012	1
14 mm	62 mm	Special cooling wax	5457 235 014	1
15 mm	60 mm	Side slots	5457 235 015	1
16 mm	60 mm	Side slots	5457 235 016	1

Diameter (Ø)	Length	Design	Art. no.	P. Qty.
18 mm	60 mm	Side slots	5457 235 018	1
20 mm	60 mm	Side slots	5457 235 020	1
22 mm	60 mm	Side slots	5457 235 022	1
25 mm	60 mm	Side slots	5457 235 025	1
27 mm	60 mm	Side slots	5457 235 027	1
28 mm	60 mm	Side slots	5457 235 028	1
30 mm	60 mm	Side slots	5457 235 030	1
32 mm	60 mm	Side slots	5457 235 032	1
35 mm	60 mm	Side slots	5457 235 035	1
38 mm	60 mm	Side slots	5457 235 038	1
40 mm	60 mm	Side slots	5457 235 040	1
42 mm	60 mm	Side slots	5457 235 042	1
44 mm	60 mm	Side slots	5457 235 044	1
45 mm	60 mm	Side slots	5457 235 045	1
50 mm	60 mm	Side slots and holes	5457 235 050	1
55 mm	60 mm	Side slots and holes	5457 235 055	1
60 mm	60 mm	Side slots and holes	5457 235 060	1
65 mm	60 mm	Side slots and holes	5457 235 065	1
68 mm	60 mm	Side slots and holes	5457 235 068	1
70 mm	60 mm	Side slots and holes	5457 235 070	1
75 mm	60 mm	Side slots and holes	5457 235 075	1
82 mm	60 mm	Side slots and holes	5457 235 082	1
90 mm	60 mm	Side slots and holes	5457 235 090	1
100 mm	60 mm	Side slots and holes	5457 235 100	1
110 mm	60 mm	Side slots and holes	5457 235 110	1
120 mm	60 mm	Side slots and holes	5457 235 120	1
128 mm	60 mm	Side slots and holes	5457 235 128	1

Diamond tile dry core bit, 1/4-inch hexagonal shank

Specially developed for dry drilling of even the very hardest of materials such as stoneware. For use in all common electric and cordless drills.



- Fast drilling
- With special cooling wax
- Standard 1/4-inch hexagonal shank, shape E

Versatility (points system)	●●○○
Service life (points system)	●●●○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●○○
Drilling pattern (points system)	●●○○
Problem solver (points system)	●●●○

Diameter (Ø)	Working length	Length	Art. no.	P. Qty.
5 mm	32 mm	67 mm	5457 230 005	1
6 mm	32 mm	67 mm	5457 230 006	1
8 mm	40 mm	80 mm	5457 230 008	1
10 mm	40 mm	80 mm	5457 230 010	1
12 mm	40 mm	80 mm	5457 230 012	1
14 mm	40 mm	80 mm	5457 230 014	1

- No water necessary!

Continuation **Diamond tile dry core bit, 1/4-inch hexagonal shank**

- Speed regulation not necessary.
- The drill bits are approximately 0.5 mm to 1 mm longer than required. This makes it easier to drill further into the substrate (e.g. a stone drill), preventing damage to the tile.

Diamond socket outlet core bit PKD

The ideal solution with particularly fast drilling speed for extremely high-compacted sand-lime brick, plus connecting thread M16.

- Greater safety and drilling that is up to six times faster than with a conventional diamond socket outlet drill bit thanks to laser-welded PCD blades
- Optimum ejection of drilling dust and easy removal of the drill core by means of the special core bit body with extremely wide ejection slits



Versatility (points system)	●○○○
Service life (points system)	●○○○
Drilling speed (point system)	●●●●
Problem solver (points system)	●●●●
Min. drilling depth	70 mm
Number of segments	3 PCS

Diameter (Ø)	Art. no.	P. Qty.
68 mm	0668 645 68	1
82 mm	0668 645 82	1

Diamond socket outlet core bit PKD-S

The ideal solution with particularly fast drilling speed for extremely high-compacted sand-lime brick, plus connecting thread M16 and perforated cover for dust extraction.

- Greater safety and drilling that is up to six times faster than with a conventional diamond socket outlet drill bit thanks to laser-welded PCD blades



Versatility (points system)	●○○○
Service life (points system)	●○○○
Drilling speed (point system)	●●●●
Problem solver (points system)	●●●●
Min. drilling depth	70 mm
Number of segments	3 PCS

Diameter (Ø)	Art. no.	P. Qty.
68 mm	0668 645 068	1
82 mm	0668 645 082	1

Diamond socket outlet core bit U90-S

Extremely versatile premium socket outlet drill bit with very fast drilling speed and long service life, including connecting thread M16 and perforated cover for dust extraction

- Combination of special core bit body, perforated cover and additional cooling coil allows for use with or without dust extraction
- Laser-welded short-tooth top segments in a special block arrangement
- Drills almost all the relevant stone materials that an electrician might need to drill



Versatility (points system)	●●●●
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Problem solver (points system)	●●●○
Min. drilling depth	70 mm
Segment height	9 mm

Diameter (Ø)	Number of segments	Art. no.	P. Qty.
68 mm	9 PCS	0666 635 068	1
82 mm	12 PCS	0666 635 082	1

Diamond socket outlet core bit H70-S

Versatile, extremely high-quality socket outlet drill bit with high drilling speed and very long service life, including M16 connecting thread and perforated cover for dust extraction.

- Fast, efficient and chatter-free drilling thanks to laser-welded turbo segments



Versatility (points system)	●●●○
Service life (points system)	●●●●
Drilling speed (point system)	●●○○
Problem solver (points system)	●●○○
Min. drilling depth	70 mm
Segment height	9 mm

Diameter (Ø)	Number of segments	Art. no.	P. Qty.
68 mm	6 PCS	0666 620 068	1
82 mm	8 PCS	0666 620 082	1

Diamond dry core bit H 70-S Turbo

For quick-changing system



Diameter (Ø)	Art. no.	P. Qty.
68 mm	0668 621 068	1
82 mm	0668 621 082	1

Diamond socket outlet core bit H70

Extremely versatile, high-quality socket outlet drill bit, with a high drilling speed and very long service life, plus connecting thread M16.

- Fast, efficient and chatter-free drilling thanks to laser-welded turbo segments
- Optimum ejection of drilling dust and easy removal of the drill core thanks to special bit bodies with extremely wide ejection slits



Versatility (points system)	●●●○
Service life (points system)	●●●●
Drilling speed (point system)	●●○○
Problem solver (points system)	●●○○
Min. drilling depth	70 mm
Segment height	9 mm



Diameter (Ø)	Number of segments	Art. no.	P. Qty.
68 mm	6 PCS	0666 620 68	1
82 mm	8 PCS	0666 620 82	1

Diamond socket outlet core bit S50-S

Versatile, cost-effective socket outlet drill bit, offering an excellent drilling speed and a long service life, plus connecting thread M16 and perforated cover for dust extraction.

- Fast drilling thanks to laser-welded top segments

Versatility (points system)	●●●○
Service life (points system)	●●○○
Drilling speed (point system)	●●○○
Problem solver (points system)	●○○○
Min. drilling depth	70 mm
Segment height	8 mm



Diameter (Ø)	Number of segments	Art. no.	P. Qty.
68 mm	4 PCS	0668 605 068	1
82 mm	5 PCS	0668 605 082	1

Diamond socket outlet drill bit S50

Versatile, cost-effective socket outlet drill bit, offering an excellent drilling speed and a long service life, plus connecting thread M16.

- Laser-welded top segments for fast drilling
- Conventional core bit body with diagonal drilling dust ejection slits



Versatility (points system)	●●●○
Service life (points system)	●●○○
Drilling speed (point system)	●●○○
Problem solver (points system)	●○○○
Min. drilling depth	70 mm
Segment height	8 mm

Diameter (Ø)	Number of segments	Art. no.	P. Qty.
68 mm	4 PCS	0668 605 68	1
82 mm	5 PCS	0668 605 82	1

Dust extraction device for socket outlet drill bits

With quick-change function

- For tool-free core bit changes
- For virtually dust-free drilling
- Low weight
- Compact design
- Threaded connection on core bit side: M16
- Threaded connection on machine side: 5/8" – 16UNF

Art. no. 0668 690 431

P. Qty.: 1



Conical countersink assortment Green ring, HSCO 90°, DIN 335 C

6 pieces, consisting of diameters 6.3–20.5 mm. Particularly suitable for processing stainless steel, alloyed or high-alloy and rust- and acid-resistant steels.

- Precision conical countersink with 3 cutting edges, precision-ground
- Outstanding chip formation and removal thanks to optimised flute geometry

Number of pieces in assortment/set	6 PCS
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy



Continuation **Conical countersink assortment Green ring, HSCo** **90°, DIN 335 C**

Quality	ZEBRA-Premium
Standards	DIN 335
Form	C
Cutting material	HSCo
Countersink angle	90 Degree
Surface	Uncoated
Number of cutting edges	3 PCS
Shank style	Cylindrical



Art. no. 0694 019 01

P. Qty.: 1

Contents for art. no. 0694 019 01		
Designation	Art. no.	Quantity
Conical countersink green ring HSCo, DIN 335C, 90° 6.3 mm	0694 019 06	1
Conical countersink green ring HSCo, DIN 335C, 90° 8.3 mm	0694 019 08	1
Conical countersink green ring HSCo, DIN 335C, 90° 10.4 mm	0694 019 10	1
Conical countersink green ring HSCo, DIN 335C, 90° 12.4 mm	0694 019 12	1
Conical countersink green ring HSCo, DIN 335C, 90° 16.5 mm	0694 019 16	1
Conical countersink green ring HSCo, DIN 335C, 90° 20.5 mm	0694 019 20	1

Conical countersink HSCo 90° with cross hole

For chatter-free deburring and countersinking of holes

- The even-running cone-envelope relief grinding results in a light, paring cut
- The chip flow due to drilling stops chips sticking in the workpiece
- Straight shank



Material	High-speed steel with 5% cobalt content
Countersink angle	90 Degree



Min./max. spot-facer diameter	Head diameter	Length	Shaft diameter	Art. no.	P. Qty.
2-5 mm	10 mm	45 mm	6 mm	0694 021 02	1
5-10 mm	14 mm	48 mm	8 mm	0694 021 05	1
10-15 mm	21 mm	65 mm	10 mm	0694 021 10	1
15-20 mm	28 mm	85 mm	12 mm	0694 021 15	1
20-25 mm	35 mm	102 mm	12 mm	0694 021 20	1

Not recommended for full countersinking! Increased service life and cutting performance by using drilling and cutting oil.

Conical countersink HSCo, DIN 335D, 90°, with Morse taper shank

For universal use up to 1300 N/mm².

- Very good cutting properties
- Radial relief ensures optimum chip breaking



CNC|TEC

Product code	2330
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy, Hard and tough material, Non-ferrous metal, Plastic
Number of cutting edges (Z)	3 PCS
Standards	DIN 335
Form	D
Cutting material	HSCo
Countersink angle	90 Degree
Surface	Uncoated
Shank style	Morse taper
Service life (points system)	●●○○
Countersinking speed (point system)	●●○○
Countersinking quality (point system)	●●○○
Versatility (points system)	●●●●
Countersinking behaviour (point system)	●●○○

Spot-facer diameter (d1)	Tip diameter (d3)	Length (l1)	Morse taper size	Art. no.	P. Qty.
25 mm	3.8 mm	106 mm	MK 2	5443 019 250	1
31 mm	4.2 mm	112 mm	MK 2	5443 019 310	1
34 mm	4.5 mm	118 mm	MK 2	5443 019 340	1
37 mm	4.8 mm	118 mm	MK 2	5443 019 370	1
40 mm	10 mm	140 mm	MK 3	5443 019 400	1
50 mm	14 mm	150 mm	MK 3	5443 019 500	1

Conical countersink EU HSCo, DIN 335C, long, 90°, TiAlN

A Jack of all trades with extremely uneven pitch (EU) and TiAlN coating in a long version for perfect deep-lying countersinks and maximum performance.

- Extremely uneven pitch
- Ideal for deep-lying countersinks
- For universal use
- Long service life and high speed



Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy, Hard and tough material, Non-ferrous metal, Plastic
Quality	ZEBRA-Premium
Number of cutting edges (Z)	3 PCS
Standards	DIN 335
Form	C
Cutting material	HSCo

Continuation **Conical countersink EU HSCo, DIN 335C, long, 90°, TiAlN**

Countersink angle	90 Degree
Surface	TiAlN
Shank style	Cylindrical
Service life (points system)	●●●●
Countersinking speed (point system)	●●●●
Countersinking quality (point system)	●●●●
Versatility (points system)	●●●●
Countersinking behaviour (point system)	●●●●

Spot-facer diameter (d1)	Shaft diameter (d2)	Tip diameter (d3)	Length (l1)	Art. no.	P. Qty.
6.3 mm	5 mm	1.5 mm	104 mm	0694 121 006	1
8.3 mm	6 mm	2 mm	105 mm	0694 121 008	1
10.4 mm	6 mm	2.5 mm	107 mm	0694 121 010	1
12.4 mm	8 mm	2.8 mm	108 mm	0694 121 012	1
16.5 mm	10 mm	3.2 mm	111 mm	0694 121 016	1
20.5 mm	10 mm	3.5 mm	114 mm	0694 121 020	1
25 mm	10 mm	3.8 mm	118 mm	0694 121 025	1
31 mm	12 mm	4.2 mm	140 mm	0694 121 031	1

Conical countersink DIN 335C, 90°, TiN

Significantly improved performance when processing conventional steels and cast iron compared to blue ring.

- Up to 30% faster cutting speeds and two to four times increase in service life compared to blue ring
- Precision conical countersink with 3 cutting edges, precision-ground
- Excellent chip formation and removal due to optimised spiral flute geometry



Material to be processed	Steel, Cast metal
Quality	ZEBRA-Premium
Number of cutting edges (Z)	3 PCS
Standards	DIN 335
Form	C
Cutting material	HSS
Countersink angle	90 Degree
Surface	TiN
Shank style	Cylindrical
Service life (points system)	●●●○
Countersinking speed (point system)	●●●○
Countersinking quality (point system)	●●○○
Versatility (points system)	●○○○
Countersinking behaviour (point system)	●●○○

Spot-facer diameter (d1)	Shaft diameter (d2)	Tip diameter (d3)	Length (l1)	Art. no.	P. Qty.
6.3 mm	5 mm	1.5 mm	45 mm	0694 020 06	1
8.3 mm	6 mm	2 mm	50 mm	0694 020 08	1
10.4 mm	6 mm	2.5 mm	50 mm	0694 020 10	1
12.4 mm	8 mm	2.8 mm	56 mm	0694 020 12	1
16.5 mm	10 mm	3.2 mm	60 mm	0694 020 16	1
20.5 mm	10 mm	3.5 mm	63 mm	0694 020 20	1
25 mm	10 mm	3.8 mm	67 mm	0694 020 25	1
31 mm	12 mm	4.2 mm	71 mm	0694 020 31	1

See overview tables for countersink/material assignments

Conical countersink green ring HSCO, DIN 335C, 90°

Particularly suitable for processing stainless steel, alloyed or high-alloy and rust- and acid-resistant steels.

- Precision conical countersink with 3 cutting edges, precision-ground
- Outstanding chip formation and removal thanks to optimised flute geometry



Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy
Quality	ZEBRA-Premium
Number of cutting edges (Z)	3 PCS
Standards	DIN 335
Form	C
Cutting material	HSCo
Countersink angle	90 Degree
Surface	Uncoated
Shank style	Cylindrical
Service life (points system)	●●○○
Countersinking speed (point system)	●●○○
Countersinking quality (point system)	●●○○
Versatility (points system)	●●○○
Countersinking behaviour (point system)	●●○○

Spot-facer diameter (d1)	Shaft diameter (d2)	Tip diameter (d3)	Length (l1)	Art. no.	P. Qty.
6.3 mm	5 mm	1.5 mm	45 mm	0694 019 06	1
8.3 mm	6 mm	2 mm	50 mm	0694 019 08	1
10.4 mm	6 mm	2.5 mm	50 mm	0694 019 10	1
12.4 mm	8 mm	2.8 mm	56 mm	0694 019 12	1
16.5 mm	10 mm	3.2 mm	60 mm	0694 019 16	1
20.5 mm	10 mm	3.5 mm	63 mm	0694 019 20	1
25 mm	10 mm	3.8 mm	67 mm	0694 019 25	1
31 mm	12 mm	4.2 mm	71 mm	0694 019 31	1

See overview tables for countersink/material assignments

Conical countersink assortment TiN 90° DIN 335 C

6 pieces, consisting of diameters 6.3–20.5 mm. Significantly improved performance when processing conventional steels and cast iron compared to blue ring.

- Up to 30% higher cutting speeds and service life doubled or even quadrupled compared to blue ring
- Precision conical countersink with 3 cutting edges, precision-ground
- Outstanding chip formation and removal thanks to optimised flute geometry



Number of pieces in assortment/set	6 PCS
Material to be processed	Steel, Cast metal
Quality	ZEBRA-Premium
Standards	DIN 335
Form	C
Cutting material	HSS
Countersink angle	90 Degree
Surface	TiN
Number of cutting edges	3 PCS
Shank style	Cylindrical



Art. no. 0694 020 01

P. Qty.: 1

Contents for art. no. 0694 020 01		
Designation	Art. no.	Quantity
Conical countersink DIN 335C, 90°, TiN 6.3 mm	0694 020 06	1
Conical countersink DIN 335C, 90°, TiN 8.3 mm	0694 020 08	1
Conical countersink DIN 335C, 90°, TiN 10.4 mm	0694 020 10	1
Conical countersink DIN 335C, 90°, TiN 12.4 mm	0694 020 12	1
Conical countersink DIN 335C, 90°, TiN 16.5 mm	0694 020 16	1
Conical countersink DIN 335C, 90°, TiN 20.5 mm	0694 020 20	1

Spot weld cutter for pneumatic machines HSCO

The economical standard spot weld cutter for loosening spot welds with pneumatic machines on conventional bodywork panels up to 850 N/mm² strength on all kinds of vehicles



- Extra stable tip geometry for difficult milling conditions
- Optimised tip geometry for a longer service life compared to conventional spot weld cutters
- Very good centring of the cutter on the spot weld and precise milling due to the 115° centring point

Type description	Standard for pneumatic machines
Quality	Würth-Standard
Cutting material	HSCo
Surface	Plain
Number of teeth	2 PCS

Suitable for tensile strength up to	850 N/mm ²
Length	44 mm
Service life (points system)	●●○○
Drilling speed (point system)	●●○○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●○○
Drilling behaviour (point system)	●●●○

Diameter	Shaft diameter	Art. no.	P. Qty.
6 mm	6 mm	0710 60	1
8 mm	8 mm	0710 80	1
9 mm	9 mm	0710 90	1
10 mm	10 mm	0710 100	1

Spot weld cutter for pneumatic machines HSCo Longlife

The extremely durable spot weld cutter with Magma multi-layer coating for loosening spot welds with pneumatic machines on high-strength bodywork panels up to 1200 N/mm² strength on all kinds of vehicles



- Special Magma multilayer coating for up to 9 times longer service life and up to 2 times longer service life compared to conventional coatings (heat resistant up to 800°)
- Extra stable tip geometry for difficult milling conditions
- Very good centring of the cutter on the spot weld and precise milling due to the 115° centring point

Type description	Longlife
Quality	Würth-Standard
Cutting material	HSCo
Surface	Magma multilayer coating
Number of teeth	2 PCS
Suitable for tensile strength up to	1200 N/mm ²
Length	44 mm
Shaft diameter	7.5 mm
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○
Drilling behaviour (point system)	●●●○

Diameter	Art. no.	P. Qty.
6 mm	0710 140 060	1
8 mm	0710 140 080	1
9 mm	0710 140 090	1
10 mm	0710 140 100	1

Spot weld cutter for Spotle TH-902 HSCo Longlife

The extremely durable spot weld cutter with Magma multi-layer coating for loosening spot welds with pneumatic Spotle machines TH-902 and T-575 on high-strength bodywork panels of up to 1200 N/mm² strength on all kinds of vehicles



- Special Magma multilayer coating for up to 9 times longer service life and up to 2 times longer service life compared to conventional coatings (heat resistant up to 800°)
- Extra stable tip geometry for difficult milling conditions
- Very good centring of the cutter on the spot weld and precise milling due to the 115° centring point

Type description	Longlife for Spotle TH-902/T-575
Quality	Würth-Standard
Cutting material	HSCo
Surface	Magma multilayer coating
Number of teeth	2 PCS
Suitable for tensile strength up to	1200 N/mm ²
Diameter	8 mm
Length	40 mm
Shaft diameter	7.5 mm
Service life (points system)	●●●○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●○
Drilling behaviour (point system)	●●●○

Art. no. 0710 141 080

P. Qty.: 1

End mill HSCo8 short, DIN 844K, centre-cutting

For finishing steels of medium to high strength up to 1,200 N/mm² (construction steels, case-hardened steels, tempering steels), non-ferrous metals, rust and acid-resistant steels with high cutting performance yet good surface properties. Especially for synchronous milling.



CNC|TEC

Product code	1786
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Copper, Brass, Plastic
Standards	DIN 844
Overall length	Short
Shank style	Cylindrical DIN 1835-B
Cutting material	HSCo8
Surface	Plain
Coolant supply	External
Twist angle	40°

Tolerance of cutting edge diameter	k10
Tolerance of shank diameter	h6

Diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Number of cutting edges (Z)	Art. no.	P. Qty.
3 mm	6 mm	52 mm	8 mm	4 PCS	5443 600 551	1
4 mm	6 mm	55 mm	11 mm	4 PCS	5443 600 552	1
5 mm	6 mm	57 mm	13 mm	4 PCS	5443 600 553	1
6 mm	6 mm	57 mm	13 mm	4 PCS	5443 600 554	1
8 mm	10 mm	69 mm	19 mm	4 PCS	5443 600 555	1
10 mm	10 mm	72 mm	22 mm	4 PCS	5443 600 556	1
12 mm	12 mm	83 mm	26 mm	4 PCS	5443 600 557	1
14 mm	12 mm	83 mm	26 mm	4 PCS	5443 600 558	1
16 mm	16 mm	92 mm	32 mm	4 PCS	5443 600 559	1
18 mm	16 mm	92 mm	32 mm	4 PCS	5443 600 560	1
20 mm	20 mm	104 mm	38 mm	4 PCS	5443 600 561	1
25 mm	25 mm	121 mm	45 mm	6 PCS	5443 600 562	1
28 mm	25 mm	121 mm	45 mm	6 PCS	5443 600 563	1
30 mm	25 mm	121 mm	45 mm	6 PCS	5443 600 564	1
32 mm	32 mm	133 mm	53 mm	6 PCS	5443 600 565	1

End mill HSCo8 short, DIN 844K, centre-cutting

For finishing steels of medium to high strength up to 1,200 N/mm² (construction steels, case-hardened steels, tempering steels), non-ferrous metals, rust and acid-resistant steels with high cutting performance yet good surface properties. Especially for synchronous milling.



CNC|TEC

TiAlN coating

- Greater performance
- Longer service life

Product code	1787
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Copper, Brass, Plastic
Standards	DIN 844
Overall length	Short
Shank style	Cylindrical DIN 1835-B
Cutting material	HSCo8
Surface	TiAlN
Coolant supply	External
Twist angle	40°
Tolerance of cutting edge diameter	k10
Tolerance of shank diameter	h6

Diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Number of cutting edges (Z)	Art. no.	P. Qty.
3 mm	6 mm	52 mm	8 mm	4 PCS	5443 600 571	1
4 mm	6 mm	55 mm	11 mm	4 PCS	5443 600 572	1
5 mm	6 mm	57 mm	13 mm	4 PCS	5443 600 573	1

Continuation **End mill HSCo8 short, DIN 844K, centre-cutting**

Diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Number of cutting edges (Z)	Art. no.	P. Qty.
6 mm	6 mm	57 mm	13 mm	4 PCS	5443 600 574	1
8 mm	10 mm	69 mm	19 mm	4 PCS	5443 600 575	1
10 mm	10 mm	72 mm	22 mm	4 PCS	5443 600 576	1
12 mm	12 mm	83 mm	26 mm	4 PCS	5443 600 577	1
14 mm	12 mm	83 mm	26 mm	4 PCS	5443 600 578	1
16 mm	16 mm	92 mm	32 mm	4 PCS	5443 600 579	1
18 mm	16 mm	92 mm	32 mm	4 PCS	5443 600 580	1
20 mm	20 mm	104 mm	38 mm	4 PCS	5443 600 581	1
25 mm	25 mm	121 mm	45 mm	6 PCS	5443 600 582	1
28 mm	25 mm	121 mm	45 mm	6 PCS	5443 600 583	1
30 mm	25 mm	121 mm	45 mm	6 PCS	5443 600 584	1
32 mm	32 mm	133 mm	53 mm	6 PCS	5443 600 585	1

HPT end mill, short, centre-cutting, DIN 844 B

Multi-cutting universal end mill. Can be used as a finishing, rough grinding and roughing cutter. Made from powder metallurgical materials for use in extreme machining conditions and for long tool life.



CNC|TEC

Product code	1867
Material to be processed	Steel, Cast metal, Stainless steel, Copper, Brass, Aluminium
Number of cutting edges (Z)	4 PCS
Standards	DIN 844
Overall length	Short
Shank style	Cylindrical DIN 1835-B
Cutting material	HSCo-PM
Surface	TiAlN
Coolant supply	External
Twist angle	30°
Tolerance of cutting edge diameter	k12
Tolerance of shank diameter	h6

Diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Art. no.	P. Qty.
3 mm	6 mm	52 mm	8 mm	5443 610 201	1
3.5 mm	6 mm	54 mm	10 mm	5443 610 202	1
4 mm	6 mm	55 mm	11 mm	5443 610 203	1
4.5 mm	6 mm	55 mm	11 mm	5443 610 204	1
5 mm	6 mm	57 mm	13 mm	5443 610 205	1
6 mm	6 mm	57 mm	13 mm	5443 610 206	1
7 mm	10 mm	66 mm	16 mm	5443 610 207	1
8 mm	10 mm	69 mm	19 mm	5443 610 208	1
9 mm	10 mm	69 mm	19 mm	5443 610 209	1
10 mm	10 mm	72 mm	22 mm	5443 610 210	1
12 mm	12 mm	83 mm	26 mm	5443 610 211	1
14 mm	12 mm	83 mm	27 mm	5443 610 212	1
16 mm	16 mm	92 mm	32 mm	5443 610 213	1

Diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Art. no.	P. Qty.
18 mm	16 mm	92 mm	32 mm	5443 610 214	1
20 mm	20 mm	104 mm	38 mm	5443 610 215	1
25 mm	25 mm	121 mm	45 mm	5443 610 216	1

HPC end mill Speedcut 4.0-Inox, extra long XL, optional, four cutting edges, uneven angle of twist gradient

Solid carbide high-performance cutter particularly suitable for machining austenitic stainless steels: Smoothing, rough finishing and roughening with one tool. Different spiral angles produce smooth, vibration-free running and an excellent surface quality. Generation 4.0 sets new standards in machining performance.



CNC|TEC

Product code	8767
Material to be processed	Steel, Stainless steel, Titanium, Aluminium, GRP
Standards	CS
Overall length	Extra long
Shank style	Cylindrical DIN 6535-HB
Cutting material	VHM
Surface	ULTRADUR
Coolant supply	External
Twist angle	39-42°
Number of cutting edges (Z)	4 PCS
Tolerance of cutting edge diameter	h10
Tolerance of shank diameter	h6

Diameter (d1)	Shaft diameter (d2)	Clearance diameter (d3)	Length (l1)	Cutting edge length (l2)	Art. no.	P. Qty.
5 mm	6 mm	4.7 mm	62 mm	13 mm	5443 314 201	1
6 mm	6 mm	5.6 mm	62 mm	13 mm	5443 314 202	1
8 mm	8 mm	7.5 mm	70 mm	19 mm	5443 314 203	1
10 mm	10 mm	9.5 mm	80 mm	22 mm	5443 314 204	1
12 mm	12 mm	11.5 mm	95 mm	26 mm	5443 314 205	1
16 mm	16 mm	15.5 mm	105 mm	32 mm	5443 314 206	1
20 mm	18 mm	19.5 mm	124 mm	38 mm	5443 314 207	1

HPC end mill Speedcut 4.0-Universal, extra long XL, optional, four cutting edges, uneven angle of twist gradient

Solid carbide high-performance cutter for universal application: Smoothing, rough finishing and roughening with one tool. Different spiral angles produce smooth, vibration-free running and an excellent surface quality. Generation 4.0 sets new standards in machining performance.



CNC|TEC

Continuation HPC end mill Speedcut 4.0-Universal, extra long XL, optional, four cutting edges, uneven angle of twist gradient

Product code	8237
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Hard and tough material, Non-ferrous metal
Standards	CS
Overall length	Extra long
Shank style	Cylindrical DIN 6535-HA
Cutting material	VHM
Surface	TWINDUR
Coolant supply	External
Twist angle	35-38°
Number of cutting edges (Z)	4 PCS
Tolerance of cutting edge diameter	h10
Tolerance of shank diameter	h6

Diameter (d1)	Shaft diameter (d2)	Clearance diameter (d3)	Length (l1)	Cutting edge length (l2)	Art. no.	P. Qty.
5 mm	6 mm	4.7 mm	62 mm	13 mm	5443 312 201	1
6 mm	6 mm	5.6 mm	62 mm	13 mm	5443 312 202	1
8 mm	8 mm	7.5 mm	70 mm	19 mm	5443 312 203	1
10 mm	10 mm	9.5 mm	80 mm	22 mm	5443 312 204	1
12 mm	12 mm	11.5 mm	95 mm	26 mm	5443 312 205	1
16 mm	16 mm	15.5 mm	105 mm	32 mm	5443 312 206	1
20 mm	18 mm	19.5 mm	124 mm	38 mm	5443 312 207	1

HPC end mill Speedcut 4.0-Universal, extra long XL, optional, four cutting edges, uneven angle of twist gradient

Solid carbide high-performance cutter for universal application: Smoothing, rough finishing and roughening with one tool. Different spiral angles produce smooth, vibration-free running and an excellent surface quality. Generation 4.0 sets new standards in machining performance.



CNC|TEC

Product code	8737
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Hard and tough material, Non-ferrous metal
Standards	CS
Overall length	Extra long
Shank style	Cylindrical DIN 6535-HB
Cutting material	VHM
Surface	TWINDUR
Coolant supply	External
Twist angle	35-38°
Number of cutting edges (Z)	4 PCS

Tolerance of cutting edge diameter	h10
Tolerance of shank diameter	h6

Diameter (d1)	Shaft diameter (d2)	Clearance diameter (d3)	Length (l1)	Cutting edge length (l2)	Art. no.	P. Qty.
5 mm	6 mm	4.7 mm	62 mm	13 mm	5443 312 401	1
6 mm	6 mm	5.6 mm	62 mm	13 mm	5443 312 402	1
8 mm	8 mm	7.5 mm	70 mm	19 mm	5443 312 403	1
10 mm	10 mm	9.5 mm	80 mm	22 mm	5443 312 404	1
12 mm	12 mm	11.5 mm	95 mm	26 mm	5443 312 405	1
16 mm	16 mm	15.5 mm	105 mm	32 mm	5443 312 406	1
20 mm	18 mm	19.5 mm	124 mm	38 mm	5443 312 407	1

HPC end mill Speedcut 4.0 Universal, DIN 6527L, long, four-flipped drill, uneven angle of twist gradient

For universal application: Finishing, rough finishing and rough machining with one tool. Uneven angle of twist gradient produces smooth, low-vibration running and excellent surface quality.



CNC|TEC

Twindur coating

Double coating for maximum cutting performance

Product code	8717
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Hard and tough material, Non-ferrous metal
Standards	DIN 6527
Overall length	Long
Shank style	Cylindrical DIN 6535-HB
Cutting material	VHM
Surface	TWINDUR
Coolant supply	External
Twist angle	35-38°
Number of cutting edges (Z)	4 PCS
Tolerance of cutting edge diameter	h10
Tolerance of shank diameter	h6

Diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Corner chamfer	Art. no.	P. Qty.
3 mm	6 mm	57 mm	8 mm	0.15 mm	5443 301 821	1
4 mm	6 mm	57 mm	11 mm	0.15 mm	5443 301 822	1
5 mm	6 mm	57 mm	13 mm	0.25 mm	5443 301 823	1
6 mm	6 mm	57 mm	13 mm	0.25 mm	5443 301 824	1
7 mm	8 mm	63 mm	16 mm	0.25 mm	5443 301 831	1
8 mm	8 mm	63 mm	19 mm	0.25 mm	5443 301 825	1
9 mm	10 mm	72 mm	19 mm	0.25 mm	5443 301 832	1
10 mm	10 mm	72 mm	22 mm	0.25 mm	5443 301 826	1
11 mm	12 mm	83 mm	26 mm	0.25 mm	5443 301 833	1

Continuation **HPC end mill Speedcut 4.0 Universal, DIN 6527L,** **long, four-lipped drill, uneven angle of twist gradient**

Diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Corner chamfer	Art. no.	P. Qty.
12 mm	12 mm	83 mm	26 mm	0.25 mm	5443 301 827	1
16 mm	16 mm	92 mm	32 mm	0.35 mm	5443 301 829	1
20 mm	20 mm	104 mm	38 mm	0.35 mm	5443 301 830	1

HPC end mill Speedcut 4.0 Universal, DIN 6527L, long, four-lipped drill, uneven angle of twist gradient

For universal application: Finishing, rough finishing and rough machining with one tool. Uneven angle of twist gradient produces smooth, low-vibration running and excellent surface quality.



CNC|TEC

Product code	8217
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Hard and tough material, Non-ferrous metal
Standards	DIN 6527
Overall length	Long
Shank style	Cylindrical DIN 6535-HA
Cutting material	VHM
Surface	TWINDUR
Coolant supply	External
Twist angle	35-38°
Tolerance of cutting edge diameter	h10
Tolerance of shank diameter	h6

Diameter (d1)	Shaft diameter (d2)	Length (l1)	Cutting edge length (l2)	Number of cutting edges (Z)	Art. no.	P. Qty.
2 mm	4 mm	40 mm	5 mm	3 PCS	5443 301 801	1
3 mm	6 mm	57 mm	8 mm	4 PCS	5443 301 802	1
4 mm	6 mm	57 mm	11 mm	4 PCS	5443 301 803	1
5 mm	6 mm	57 mm	13 mm	4 PCS	5443 301 804	1
6 mm	6 mm	57 mm	13 mm	4 PCS	5443 301 805	1
7 mm	8 mm	63 mm	16 mm	4 PCS	5443 301 812	1
8 mm	8 mm	63 mm	19 mm	4 PCS	5443 301 806	1
9 mm	9 mm	72 mm	19 mm	4 PCS	5443 301 813	1
10 mm	10 mm	72 mm	22 mm	4 PCS	5443 301 807	1
11 mm	12 mm	83 mm	26 mm	4 PCS	5443 301 814	1
12 mm	12 mm	83 mm	26 mm	4 PCS	5443 301 808	1
14 mm	14 mm	83 mm	26 mm	4 PCS	5443 301 809	1
16 mm	16 mm	92 mm	32 mm	4 PCS	5443 301 810	1
20 mm	20 mm	104 mm	38 mm	4 PCS	5443 301 811	1

Wood milling cutters Corner-rounding miller with ball bearing

Precision milling tools for hand routing machines

- With TC cutting edges
- Double-edged
- For clockwise rotation
- For manual feeding



Shaft diameter (d)	8 mm
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Diameter (D)	Length (L)	Usable length	Radius	Art. no.	P. Qty.
16.7 mm	49 mm	9 mm	2 mm	0612 071 167	1
18.7 mm	50 mm	10 mm	3 mm	0612 071 187	1
22.7 mm	52 mm	12 mm	5 mm	0612 071 227	1
31.7 mm	56.5 mm	16.5 mm	9.5 mm	0612 071 317	1

Wood milling cutters Groove cutter with cutting bit

Precision milling tools for hand routing machines

- With TC cutting edges
- Double-edged
- For clockwise rotation
- For manual feeding

Design:

- Ø D 4–8 mm: Solid TC
- Ø D 10–20 mm: TC-tipped



Shaft diameter (d2)	8 mm
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Diameter (d1)	Usable length	Length (l1)	Art. no.	P. Qty.
4 mm	10 mm	45 mm	0612 011 040	1
6 mm	14 mm	55 mm	0612 011 060	1
8 mm	20 mm	55 mm	0612 011 080	1
10 mm	20 mm	60 mm	0612 011 100	1
12 mm	20 mm	60 mm	0612 011 120	1
14 mm	20 mm	60 mm	0612 011 140	1
16 mm	20 mm	60 mm	0612 011 160	1
18 mm	20 mm	60 mm	0612 011 180	1
20 mm	20 mm	60 mm	0612 011 200	1

Wood milling cutters Flush cutter with ball bearing

Precision milling tools for hand routing machines

- With TC cutting edges
- Double-edged
- For clockwise rotation
- For manual feeding



Diameter (D)	12.7 mm
Length (L)	65 mm
Usable length	25 mm

Continuation **Wood milling cutters Flush cutter with ball bearing**

Chamfer	0 Degree
Shaft diameter (d)	8 mm

Art. no. 0612 121 127

P. Qty.: 1

Wood milling cutter assortment

12 pieces

High-quality wood milling cutter assortment consisting of TC-tipped millers for grooving, formatting, seaming and profiling soft and hard woods and sheet material.

Art. no. 0612 000 001

P. Qty.: 1



Carbide cutting edges

Long service life of cutting edges.

- No sharpening and dressing of plane iron due to carbide design.
- Any machine model can be converted to cutting-edge mounting.



Length (L)	Suitable machines	Art. no.	P. Qty.
75.5 mm	AEG HTH 75, Black & Decker DN 750, Black & Decker DN 75, Bosch 0590, Bosch 1590, Bosch P 400, Festo REP 75, Haffner FH 222, Holz-Her 2223, Holz-Her 2286, Holz-Her 2320, Mafell HU 75, Metabo 6375, Scheer MH 75/3, Scheer MH 80, Skil 98 H	0713 64 22	10
80.5 mm	Black & Decker DN 76, ELU MMF 80, ELU MFF 40, Würth EH 80, Würth EH 850	0713 64 21	10
82 mm	AEG EH 82, AEG EH 822, AEG EH 700, Black & Decker DN 710, Bosch PH 150, Fein 2000, Mafell EHU 82, Metabo Expert 4382, Metabo Gustav HO 3360, Würth EH 4, Makita 1100, Makita 1125 B, Makita 1900 B, Makita 1923 B, Hitachi FU 20, Hitachi FU 20 A	0713 64 23	10

HSS blade for brass/plastic

For deburring tool for deburring brass and plastic

Number of pieces	2 PCS
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Diameter	Art. no.	P. Qty.
2.6 mm	0714 42 022	5
3.2 mm	0714 42 025	5

HSS blade for straight edges

For deburring tool for deburring straight edges on steel, aluminium, brass, cast iron and plastic

Diameter	3.2 mm
Number of pieces	2 PCS



Art. no. 0714 42 027

P. Qty.: 5

HSS blade for steel/aluminium

For deburring tool for deburring steel and aluminium

Number of pieces	2 PCS
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Diameter	Art. no.	P. Qty.
2.6 mm	0714 42 021	5
3.2 mm	0714 42 024	5

HSS blade for external and internal burrs

For deburring tool for deburring external and internal burrs simultaneously

Number of pieces	2 PCS
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Diameter	Art. no.	P. Qty.
2.6 mm	0714 42 023	5
3.2 mm	0714 42 026	5

Blade holder for deburring blades

For HSS blades with Ø 2.6 mm and Ø 3.2 mm.

Number of pieces	1 PCS
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Art. no. 0714 42 02

P. Qty.: 1



Machine tap assortment HSCo Multi through hole M3-M12

14 pieces Consisting of MFD speed premium speed drills and Multi Performance through hole screw taps for versatile use in almost all materials, such as conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1200 N/mm² strength and casting materials. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.

Twist drill

- Up to 50% faster than conventional, ground twist drills thanks to speed geometry
- 135° tip angle and optimised cross thinning for outstanding centring
- Exclusive Vario coil
- 3-face shank (from Ø 4 mm)
- Available exclusively from Würth

Machine tap

- Flexible use in cordless screwdrivers and hand-held, pillar and upright drills thanks to the additional polygon shaft, which prevents slipping in the drill chuck.
- Suitable for conventional applications thanks to the retention of the straight shaft with square mount
- Newly developed tool geometry with a reduced rake angle, optimised clearance angle and micro-geometry
- Up to three times longer service life than all uncoated machine taps from Würth
- Excellent chip removal, prevention of chip bird nesting
- Available exclusively from Würth

Number of pieces in assortment/set	14 PCS
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy, Hard and tough material, Non-ferrous metal
Quality	ZEBRA-Premium
Hole type	Clearance hole $\leq 3 \times D$
Cutting material	HSCo
Surface	Vaporised
Suitable for machine type	Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine



Art. no. 0658 700 001

P. Qty.: 1

Machine tap assortment HSCo Multi blind hole M3-M12

14 pieces Consisting of MFD speed premium speed drills and Multi Performance blind hole screw taps for versatile use in almost all materials, such as conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1200 N/mm² strength and casting materials. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.



Twist drill

- Up to 50% faster than conventional, ground twist drills thanks to speed geometry
- 135° tip angle and optimised cross thinning for outstanding centring
- Exclusive Vario coil
- 3-face shank (from $\varnothing 4$ mm)
- Available exclusively from Würth



Machine tap

- Flexible use in cordless screwdrivers and hand-held, pillar and upright drills thanks to the additional polygon shaft, which prevents slipping in the drill chuck.
- Suitable for conventional applications thanks to the retention of the straight shaft with square mount
- Newly developed tool geometry with a reduced rake angle, optimised clearance angle and micro-geometry
- Up to three times longer service life than all uncoated machine taps from Würth
- Excellent chip removal, prevention of chip bird nesting
- Available exclusively from Würth

Number of pieces in assortment/set	14 PCS
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy, Hard and tough material, Non-ferrous metal
Quality	ZEBRA-Premium
Hole type	Blind hole $\leq 2.5 \times D$
Cutting material	HSCo

Continuation **Machine tap assortment HSCo Multi blind hole M3-M12**

Surface	Vaporised
Suitable for machine type	Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine

Art. no. 0658 800 001

P. Qty.: 1

- Sufficient coolant and lubricant must be added for drilling processes and when cutting threads.
- For tool/material assignments, see the overview tables
- For further information, please refer to the individual products.

Machine tap assortment HSCo blue ring blind hole DIN 371/376 M3-M12

7 pieces Consisting of blue ring blind hole screw taps for general, wide-ranging applications in long-chipping, non-alloyed steels up to a strength of 850 N/mm².

- Cutting geometry precisely tailored to steel materials
- Optimized micro-geometry and diagonally stepped threaded part for high process reliability and longer service life compared to comparable machine taps



Number of pieces in assortment/set	7 PCS
Material to be processed	Steel
Quality	ZEBRA-Premium
Hole type	Blind hole $\leq 2.5 \times D$
Cutting material	HSCo
Surface	Plain
Suitable for machine type	Milling/drill center, Pedestal drilling machine



Art. no. 0653 810 002

P. Qty.: 1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables
- For further information, please refer to the individual products.

Machine tap assortment HSCo blue ring through hole DIN 371/376 M3-M12

7 pieces. Consisting of blue ring through hole screw taps for general, wide-ranging applications in long-chipping, non-alloyed steels up to a strength of 850 N/mm².

- Cutting geometry precisely tailored to steel materials

Number of pieces in assortment/set	7 PCS
Material to be processed	Steel
Quality	ZEBRA-Premium
Hole type	Clearance hole $\leq 3 \times D$
Cutting material	HSCo
Surface	Plain
Suitable for machine type	Milling/drill center, Pedestal drilling machine



Art. no. 0653 710 002

P. Qty.: 1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables
- For further information, please refer to the individual products.

Machine tap assortment HSCo Multi Performance blind hole DIN 371/376 M3-M12

7 pieces. Consisting of Multi Performance blind hole screw taps for versatile use in almost all machines and materials, such as conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1200 N/mm² strength and casting materials. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.

- Flexible use in cordless screwdrivers and hand-held, pillar and upright drills thanks to the additional polygon shaft, which prevents slipping in the drill chuck.
- Suitable for conventional applications, such as in CNC machining centres with collect chucks or compensation chucks, thanks to the retention of the straight shaft with square mount
- Newly developed tool geometry with a reduced rake angle, optimised clearance angle and micro-geometry
- Up to three times longer service life than all uncoated machine taps from Würth
- Excellent chip removal, prevention of chip bird nesting
- Available exclusively from Würth

Number of pieces in assortment/set	7 PCS
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy, Hard and tough material, Non-ferrous metal



Continuation **Machine tap assortment HSCo Multi Performance blind hole DIN 371/376 M3-M12**

Quality	ZEBRA-Premium
Hole type	Blind hole $\leq 2.5 \times D$
Cutting material	HSCo
Surface	Vaporised
Suitable for machine type	Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine

Art. no. 0658 800 002

P. Qty.: 1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables
- For further information, please refer to the individual products.

Machine tap assortment HSCo Multi Performance through hole DIN 371/376 M3-M12

7 pieces. Consisting of Multi Performance through hole screw taps for versatile use in almost all machines and materials, such as conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1200 N/mm² strength and casting materials. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.



- Flexible use in cordless screwdrivers and hand-held, pillar and upright drills thanks to the additional polygon shaft, which prevents slipping in the drill chuck.
- Suitable for conventional applications, such as in CNC machining centres with collect chucks or compensation chucks, thanks to the retention of the straight shaft with square mount
- Newly developed tool geometry with a reduced rake angle, optimised clearance angle and micro-geometry
- Up to three times longer service life than all uncoated machine taps from Würth
- Excellent chip removal, prevention of chip bird nesting
- Available exclusively from Würth



Number of pieces in assortment/set	7 PCS
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy, Hard and tough material, Non-ferrous metal
Quality	ZEBRA-Premium
Hole type	Clearance hole $\leq 3 \times D$
Cutting material	HSCo
Surface	Vaporised
Suitable for machine type	Drill, Cordless screwdrivers, Milling/drill center, Pedestal drilling machine

Art. no. 0658 700 002

P. Qty.: 1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables
- For further information, please refer to the individual products.

**Machine tap assortment Aluminium professional, blind hole
M3-M12**

14 pieces Consisting of twist drills and blind hole screw taps for machining aluminium and aluminium alloys ≤ 10% silicon. Also suitable for long-chipping plastics, zinc and copper.

Twist drill

- Self-centring
- HC (High Speed Cutting) grinding and precise cutting geometry ensure consistent drilled hole quality while at the same time guaranteeing a high degree of precision and a long service life
- The bare spiral groove ensures very good chip removal

Machine tap

- Cutting geometry precisely tailored to aluminium with larger chip space and increased angle of twist
- Optimized micro-geometry
- The smoothed surface in the bare design minimizes material adhesions and guarantees very good chip removal.



Number of pieces in assortment/set	14 PCS
Material to be processed	Non-ferrous metal
Quality	ZEBRA-Premium
Hole type	Blind hole ≤ 2.5xD
Surface	Plain
Suitable for machine type	Milling/drill center, Pedestal drilling machine

Art. no. 0656 800 001

P. Qty.: 1

- Sufficient coolant and lubricant must be added for drilling processes and when cutting threads.
- For tool/material assignments, see the overview tables
- For further information, please refer to the individual products.

Machine tap assortment Aluminium professional, through hole M3-M12

14 pieces Consisting of twist drills and through hole screw taps from M3-M12 for machining aluminium and aluminium alloys $\leq 10\%$ silicon. Also suitable for long-chipping plastics, zinc and copper.

Twist drill

- Self-centring
- HC (High Speed Cutting) grinding and precise cutting geometry ensure consistent drilled hole quality while at the same time guaranteeing a high degree of precision and a long service life
- The bare spiral groove ensures very good chip removal

Machine tap

- Cutting geometry precisely tailored to aluminium
- Optimized micro-geometry
- The spiral point and the smoothed surface in the bare design minimize material adhesions and guarantee very good chip removal.



Number of pieces in assortment/set	14 PCS
Material to be processed	Non-ferrous metal
Quality	ZEBRA-Premium
Hole type	Clearance hole $\leq 3 \times D$
Surface	Plain
Suitable for machine type	Milling/drill center, Pedestal drilling machine

Art. no. 0656 700 001

P. Qty.: 1

- Sufficient coolant and lubricant must be added for drilling processes and when cutting threads.
- For tool/material assignments, see the overview tables
- For further information, please refer to the individual products.

Machine tap assortment HSCo Multi Longlife throughhole M3-M12

14 pieces. Consisting of premium drills MFD Vario and throughhole thread taps Multi Longlife each with Magma multi-layer coating for the process-reliable, economic cutting of threads in series production in almost all materials such as conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1200 N/mm² strength and casting materials. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, brass, copper and bronze.

- Magma multi-layer coating for significantly higher service life and cutting speed
- Ideal for demanding machining and series production with a high number of holes/threads



Number of pieces in assortment/set	14 PCS
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy, Non-ferrous metal
Quality	ZEBRA-Premium
Hole type	Clearance hole $\leq 3 \times D$
Cutting material	HSCo
Surface	Magma multilayer coating
Suitable for machine type	Pedestal drilling machine, Milling/drill center

Art. no. 0658 740 001

P. Qty.: 1

- Sufficient coolant and lubricant must be added for drilling processes and when cutting threads
- For the tool/material assignments, see the overview tables
- For further information, please refer to the individual products

Machine tap assortment HSCo Multi Longlife blind hole M3-M12

14 pieces. Consisting of premium drills MFD Vario and throughhole thread taps Multi Longlife each with Magma multi-layer coating for the process-reliable, economic cutting of threads in series production in almost all materials such as conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1200 N/mm² strength and casting materials. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, brass, copper and bronze.



- Magma multi-layer coating for significantly higher service life and cutting speed
- Ideal for demanding machining and series production with a high number of holes/threads



Number of pieces in assortment/set	14 PCS
Material to be processed	Steel, Stainless steel, Cast metal, Titanium, Special alloy, Non-ferrous metal
Quality	ZEBRA-Premium
Hole type	Blind hole ≤ 2.5xD
Cutting material	HSCo
Surface	Magma multilayer coating
Suitable for machine type	Pedestal drilling machine, Milling/drill center

Art. no. 0658 840 001

P. Qty.: 1

- Sufficient coolant and lubricant must be added for drilling processes and when cutting threads
- For the tool/material assignments, see the overview tables
- For further information, please refer to the individual products

Combination screw tap assortment HSCo Multi Performance M3-M10

6 pieces. Premium combination screw tap for precise drilling, thread cutting and countersinking/deburring in just one operation, now also for thicker workpieces with a material thickness of up to 2xD and for almost all materials, such as conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1200 N/mm² strength and casting materials. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.

- 3 in 1 - Drilling, thread cutting and countersinking/deburring in just one operation
- The first combination screw tap, which is suitable for thicker workpieces in addition to sheet metal machining
- Newly developed shaft generation with a combination of polygon and straight shank with square drive



Number of pieces in assortment/set	6 PCS
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Non-ferrous metal
Quality	ZEBRA-Premium
Hole type	Clearance hole
Cutting material	HSCo
Surface	Vaporised
Suitable for machine type	Cordless screwdrivers, Drill, Pedestal drilling machine

Art. no. 0658 500 001

P. Qty.: 1

CAUTION: Countersinks according to DIN74-1 for countersunk head screws (according to DIN 7991) are not possible!

For use in cordless drills as well as on hand-held, pillar and upright drills.

Sufficient coolant and lubricant must be added.

For tool/material assignments, see the overview tables.

Machine tap Speedtap 4.0–Uni/Inox, spirally grooved, for metric ISO thread DIN 13

For base thread. Particularly suitable for stainless chromium-nickel steels, non-alloyed and alloyed steel ≤1300 N/mm². Generation 4.0 sets new standards with threads.



CNC|TEC

Product code	4638
Thread type	Metric thread
Material to be processed	Steel, Cast metal, Stainless steel, Non-ferrous metal
Hole type	Blind hole ≤ 3xD
Cutting material	HSCo-PM

Continuation **Machine tap Speedtap 4.0–Uni/Inox, spirally grooved, for metric ISO thread DIN 13**

Surface	HARODUR
Form	C
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2X (6HX)
Tolerance of shank diameter	h9
Twist angle	50° (right)
Coolant supply	External

Thread type x nominal diameter	Pitch	Length (l1)	Thread length (l2)	Usable length (l3)	Art. no.	P. Qty.
M2	0.4 mm	45 mm	8 mm		5443 710 601	1
M2.5	0.45 mm	50 mm	9 mm		5443 710 602	1
M3	0.5 mm	56 mm	5 mm	18 mm	5443 710 603	1
M4	0.7 mm	63 mm	7 mm	21 mm	5443 710 604	1
M5	0.8 mm	70 mm	8 mm	25 mm	5443 710 605	1
M6	1 mm	80 mm	10 mm	30 mm	5443 710 606	1
M8	1.25 mm	90 mm	13 mm	35 mm	5443 710 607	1
M10	1.5 mm	100 mm	15 mm	39 mm	5443 710 608	1
M12	1.75 mm	110 mm	18 mm		5443 710 609	1
M14	2 mm	110 mm	20 mm		5443 710 610	1
M16	2 mm	110 mm	20 mm		5443 710 611	1
M20	2.5 mm	140 mm	25 mm		5443 710 612	1
M24	3 mm	160 mm	30 mm		5443 710 613	1
M27	3 mm	160 mm	30 mm		5443 710 614	1
M30	3.5 mm	180 mm	35 mm		5443 710 615	1

Machine tap Speedtap 4.0–Uni/Inox, straight grooved, for metric ISO fine thread DIN 13

For throughhole thread. Particularly suitable for stainless chromium-nickel steels, non-alloyed and alloyed steel $\leq 1300 \text{ N/mm}^2$. Generation 4.0 sets new standards with threads.



CNC|TEC

Product code	4609
Thread type	Metric fine thread
Material to be processed	Steel, Cast metal, Stainless steel, Non-ferrous metal
Hole type	Clearance hole $\leq 3 \times D$
Cutting material	HSCo-PM
Standards	DIN 374
Surface	HARODUR
Form	B
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2X (6HX)
Tolerance of shank diameter	h9
Coolant supply	External

Thread type x nominal diameter	Pitch	Length (l1)	Thread length (l2)	Shaft dia- meter (d2)	Art. no.	P. Qty.
MF8	1 mm	90 mm	22 mm	6 mm	5443 711 001	1
MF10	1 mm	90 mm	20 mm	7 mm	5443 711 002	1
MF10	1.25 mm	100 mm	24 mm	7 mm	5443 711 004	1
MF12	1 mm	100 mm	22 mm	9 mm	5443 711 003	1
MF12	1.25 mm	100 mm	22 mm	9 mm	5443 711 005	1
MF12	1.5 mm	100 mm	22 mm	9 mm	5443 711 006	1
MF14	1.5 mm	100 mm	22 mm	11 mm	5443 711 007	1
MF16	1.5 mm	100 mm	22 mm	12 mm	5443 711 008	1
MF18	1.5 mm	110 mm	25 mm	14 mm	5443 711 009	1
MF20	1.5 mm	125 mm	25 mm	16 mm	5443 711 010	1

Machine tap Speedtap 4.0–Uni/Inox, straight grooved, for Whitworth pipe thread DIN ISO 228

**For throughhole thread. Particularly suitable for stain-
less chromium-nickel steels, non-alloyed and alloyed
steel $\leq 1300 \text{ N/mm}^2$. Generation 4.0 sets new stan-
dards with threads.**



CNC|TEC

Product code	4772
Thread type	Pipe thread
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Non-ferrous metal
Hole type	Clearance hole $\leq 3 \times D$
Cutting material	HSCo-PM
Standards	DIN 5156
Surface	HARODUR
Form	B
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2X (6HX)
Tolerance of shank diameter	h9
Coolant supply	External

Thread type x nominal diameter	Number of thread starts per inch	Length (l1)	Thread length (l2)	Shaft dia- meter (d2)	Art. no.	P. Qty.
G1	11	160 mm	30 mm	25 mm	5443 711 607	1
G1/2	14	125 mm	24 mm	16 mm	5443 711 604	1
G1/4	19	100 mm	21 mm	11 mm	5443 711 602	1
G1/8	28	90 mm	20 mm	7 mm	5443 711 601	1
G3/4	14	140 mm	26 mm	20 mm	5443 711 606	1
G3/8	19	100 mm	22 mm	12 mm	5443 711 603	1
G5/8	14	125 mm	25 mm	18 mm	5443 711 605	1

Machine tap Speedtap 4.0–Uni/Inox, spirally grooved, for Whitworth pipe thread DIN ISO 228

For base thread. Particularly suitable for stainless chromium-nickel steels, non-alloyed and alloyed steel ≤1300 N/mm². Generation 4.0 sets new standards with threads.



CNC|TEC

Product code	4782
Thread type	Pipe thread
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Non-ferrous metal
Hole type	Blind hole ≤ 3xD
Cutting material	HSCo-PM
Standards	DIN 5156
Surface	HARODUR
Form	C
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2X (6HX)
Tolerance of shank diameter	h9
Twist angle	50° (right)
Coolant supply	External

Thread type x nominal diameter	Number of thread starts per inch	Length (l1)	Thread length (l2)	Shaft diameter (d2)	Art. no.	P. Qty.
G1	11	160 mm	22 mm	25 mm	5443 711 807	1
G1/2	14	125 mm	18 mm	16 mm	5443 711 804	1
G1/4	19	100 mm	15 mm	11 mm	5443 711 802	1
G1/8	28	90 mm	12 mm	7 mm	5443 711 801	1
G3/4	14	140 mm	20 mm	20 mm	5443 711 806	1
G3/8	19	100 mm	15 mm	12 mm	5443 711 803	1
G5/8	14	125 mm	18 mm	18 mm	5443 711 805	1

Machine tap HSCo cast material professional, TiAlN, DIN 371/376

The cast material professional for processing cast materials, such as cast iron, cast iron with graphite nodules, malleable iron, ADI, and GGV.



- Tool type for through hole and blind hole threads
- High cutting speeds of up to 30 m/min
- Up to three times longer service life compared to similar uncoated tools in abrasive materials due to the extremely high hardness and temperature resistance of the TiAlN coating
- Cutting geometry precisely tailored to cast materials reduces the risk of outbreaks
- ØIncreased number of cuts (from M5) and X allowance for a longer service life
- Suitable for minimum quantity lubrication



Thread type	Metric thread
Material to be processed	Cast metal
Hole type	Clearance/blind hole ≤ 3xD

Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	TiAlN
Form	C
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2X (6HX)
Service life (points system)	●●●●
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●○○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●●●

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0657 550 300	1
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0657 550 400	1
M5	0.8 mm	70 mm	6 mm	4.9 mm	0657 550 500	1
M6	1 mm	80 mm	6 mm	4.9 mm	0657 550 600	1
M8	1.25 mm	90 mm	8 mm	6.2 mm	0657 550 800	1
M10	1.5 mm	100 mm	10 mm	8 mm	0657 551 000	1
M12	1.75 mm	110 mm	9 mm	7 mm	0657 551 200	1
M14	2 mm	110 mm	11 mm	9 mm	0657 551 400	1
M16	2 mm	110 mm	12 mm	9 mm	0657 551 600	1
M20	2.5 mm	140 mm	16 mm	12 mm	0657 552 000	1

- When thread cutting, sufficient coolant and lubricant must be added.
- For the tool/material assignments, see the overview tables

Thread formers HSCo Multi Performance, DIN 2174

The high-performance thread former with oil grooves (from ØM3) for versatile use on almost all machines (for the first time, also on free-standing, pillar drills) and in almost all materials, e.g. conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1400 N/mm² strength. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys and bronze.



- The first thread former to bring the advantages of thread forming over thread cutting to application on free-standing and pillar drilling machines (up to Ø M12)
- One tool for throughhole and blind hole threads
- No chipping issues due to cold forming of threads, thread depths up to 4xD possible, better thread surface quality, higher strength in thread, significantly longer service life

Type description	Multi-performance thread mould
Thread type	Metric thread
Material to be processed	Steel, Cast metal, Stainless steel, Non-ferrous metal, Titanium, Hard and tough material, Special alloy
Hole type	Clearance/blind hole ≤ 4xD

Continuation Thread formers HSCo Multi Performance, DIN 2174

Suitable for machine type	Pedestal drilling machine, Milling/drill center
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	TiN
Form	C
Tolerance of thread former	ISO 2X (6HX)
Service life (points system)	●●●●
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●●
Cutting behaviour (points system)	●●●●
Chip formation (points system)	●●●●

Thread type x nominal diameter	Pitch	Length	Thread length	Usable length	Art. no.	P. Qty.
M2	0.4 mm	45 mm	8 mm	13.5 mm	0658 200 200	1
M2.5	0.45 mm	50 mm	9 mm	14.5 mm	0658 200 250	1
M3	0.5 mm	56 mm	10 mm	18 mm	0658 200 300	1
M3.5	0.6 mm	56 mm	12 mm	20 mm	0658 200 350	1
M4	0.7 mm	56 mm	12 mm	21 mm	0658 200 400	1
M5	0.8 mm	63 mm	14 mm	25 mm	0658 200 500	1
M6	1 mm	70 mm	16 mm	30 mm	0658 200 600	1
M8	1.25 mm	80 mm	17 mm	35 mm	0658 200 800	1
M10	1.5 mm	90 mm	20 mm	39 mm	0658 201 000	1
M12	1.75 mm	100 mm	24 mm	49 mm	0658 201 200	1
M14	2 mm	110 mm	26 mm	53 mm	0658 201 400	1
M16	2 mm	110 mm	26 mm	54 mm	0658 201 600	1
M20	2.5 mm	140 mm	32 mm	62 mm	0658 202 000	1

- Caution: A special predrilling diameter larger than in thread cutting and with tighter tolerances is required for thread forming! The suitable core hole diameter is stored as a technical characteristic for all thread formers.
- In thread forming, the main job of the cooling lubricant is lubrication. The more lubrication used with the highest possible grease content, the longer the service life. The lubrication also affects the surface quality of the thread! For water-mixed cooling lubricants, we recommend an oil concentration in the emulsion of at least 8% for steel processing and at least 12% for stainless steel processing. We recommend Würth cutting paste Cut and Cool Perfect for use on free-standing/pillar drills.
- Please note that for thread forming, you will need approx. two times as much performance (torque) compared to thread tapping. The means that capacity should be considered when using thread-cutting devices.
- For the tool/material assignments, see the overview tables

Multi-use bimetal bandsaw blade

One blade for any job

- Bi-metal (carrier made of spring steel, teeth made of cobalt steel M42)
- Easy band selection, as just three tooth types cover a wide variety of applications and material thicknesses.
- Cost saving thanks to minimal setup and auxiliary process times



Length x height x thickness	Teeth type	Art. no.	P. Qty.
1138 x 13 x 0.6 mm	S	0602 401 131	5
1140 x 13 x 0.6 mm	M	0602 401 142	5
1330 x 13 x 0.6 mm	M	0602 401 332	5
1440 x 13 x 0.6 mm	M	0602 401 442	5
1440 x 13 x 0.6 mm	L	0602 401 443	5
1735 x 13 x 0.6 mm	S	0602 401 731	5
1735 x 13 x 0.9 mm	M	0602 401 732	5
2450 x 27 x 0.9 mm	M	0602 402 452	5
2480 x 27 x 0.9 mm	M	0602 402 482	5
2710 x 27 x 0.9 mm	M	0602 402 712	5
2750 x 27 x 0.9 mm	M	0602 402 752	5
2760 x 27 x 0.9 mm	M	0602 402 762	5
2835 x 27 x 0.9 mm	M	0602 402 832	5
2910 x 27 x 0.9 mm	M	0602 402 912	5
2950 x 27 x 0.9 mm	M	0602 402 952	5
3150 x 27 x 0.9 mm	M	0602 403 152	5
3660 x 27 x 0.9 mm	M	0602 403 662	5
3830 x 27 x 0.9 mm	L	0602 403 833	5

The M42 tooth tips are highly heat resistant and very powerful, regardless of the coolant used.

The ZEBRA multi-use bandsaw blade is an aggressive tool and has a high penetration capacity; for this reason, the user must observe the following points:

- Tension the saw blade well to prevent oscillation at the teeth.
- Carefully guide the saw blade to the material to be cut.
- Apply moderate pressure (approx. 30–40% less than conventional saw blades), especially when cutting profiles.

Machine tap assortment Steel blind hole M3-M12

14 pieces Consisting of precision twist drills and blind hole screw taps for machining long-chipping, non-alloyed steels up to a strength of 850 N/mm².

Twist drill

- Optimised cross thinning for 20% lower infeed force compared to conventional drills as well as quicker progress and a more gentle way of working
- Optimised split point for precise spot drilling without centring, even on curved surfaces
- Very precise point geometry for accurate drill holes
- Vaporised surface for excellent adhesive capability of coolant lubricants and reduced tendency for material to build up



Machine tap

- Cutting geometry precisely tailored to steel materials
- Optimized micro-geometry and diagonally stepped threaded part for high process reliability and longer service life compared to comparable machine taps

Number of pieces in assortment/set	14 PCS
Material to be processed	Steel
Quality	ZEBRA-Premium
Hole type	Blind hole ≤ 2.5xD

Continuation **Machine tap assortment Steel blind hole M3-M12**

Surface	Plain
Suitable for machine type	Milling/drill center, Pedestal drilling machine

Art. no. 0653 01

P. Qty.: 1

- Sufficient coolant and lubricant must be added for drilling processes and when cutting threads.
- For tool/material assignments, see the overview tables
- For further information, please refer to the individual products.

Machine tap assortment Stainless steel through hole M3-M12

14 pieces Consisting of precision twist drills and green ring through hole screw taps for processing alloyed and high-alloyed steels (stainless steels), as well as rust-resistant and acid-resistant steels. Also suitable for processing conventional steel materials up to a strength of 850 N/mm².

Twist drill

- Large chipping space and small core for fast drilling with perfect chip removal
- Very precise point geometry for accurate drill holes, ideal for core drill holes

Machine tap

- Tool geometry precisely tailored to stainless steel with increased clearance angle



Number of pieces in assortment/set	14 PCS
Material to be processed	Steel, Stainless steel
Quality	ZEBRA-Premium
Hole type	Clearance hole $\leq 3 \times D$
Cutting material	HSCo
Surface	Plain
Suitable for machine type	Milling/drill center, Pedestal drilling machine

Art. no. 0655 1

P. Qty.: 1

- Sufficient coolant and lubricant must be added for drilling processes and when cutting threads.
- For tool/material assignments, see the overview tables
- For further information, please refer to the individual products.

Machine tap HSCo Longlife blue ring TiN through hole DIN 371/376

The Longlife blue ring machine tap with titanium nitride coating for machining long-chipping, non-alloyed steels up to a strength of 1,000 N/mm².

- Up to twice the service life as well as up to 50% higher cutting speed compared to uncoated tools, thanks to optimized TiN coating



Thread type	Metric thread
Material to be processed	Steel
Hole type	Clearance hole $\leq 3 \times D$
Quality	ZEBRA-Premium
Thread type x nominal diameter	M20
Pitch	2.5 mm
Length	140 mm
Shaft diameter	16 mm
Size of square	12 mm
Core hole diameter	17.5 mm
DIN	376
Cutting material	HSCo
Surface	TiN
Form	B
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2 (6H)
Service life (points system)	●●●●
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●○○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●●○

Art. no. 0653 100 20

P. Qty.: 1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo Multi Performance blind hole DIN 371/376

The high-performance screw tap with the newly-developed generation of shanks (a combination of polygon and straight shank (Ø M4–M12)) for versatile use with almost all machines and materials, such as conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1200 N/mm² strength and casting materials. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.



- Flexible use in cordless screwdrivers and hand-held, pillar and upright drills thanks to the additional polygon shaft, which prevents slipping in the drill chuck.
- Suitable for conventional applications, such as in CNC machining centres with collect chucks or compensation chucks, thanks to the retention of the straight shaft with square mount
- Newly developed tool geometry with a reduced rake angle, optimised clearance angle and micro-geometry
- Up to three times longer service life than all uncoated machine taps from Würth
- Excellent chip removal, prevention of chip bird nesting
- Available exclusively from Würth

Thread type	Metric thread
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy, Hard and tough material, Non-ferrous metal
Hole type	Blind hole ≤ 2.5xD
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Vaporised
Form	C
Tolerance of screw taps	ISO 2X (6HX)
Service life (points system)	●●●○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●●
Cutting behaviour (points system)	●●●●
Chip formation (points system)	●●●○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M2	0.4 mm	45 mm	2.8 mm	2.1 mm	0658 800 200	1/5
M2.5	0.45 mm	50 mm	2.8 mm	2.1 mm	0658 800 250	1/5
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0658 800 300	1/5
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0658 800 400	1/5
M5	0.8 mm	70 mm	6 mm	4.9 mm	0658 800 500	1/5
M6	1 mm	80 mm	6 mm	4.9 mm	0658 800 600	1/5
M8	1.25 mm	90 mm	8 mm	6.2 mm	0658 800 800	1/5
M10	1.5 mm	100 mm	10 mm	8 mm	0658 801 000	1/5
M12	1.75 mm	110 mm	9 mm	7 mm	0658 801 200	1
M14	2 mm	110 mm	11 mm	9 mm	0658 801 400	1
M16	2 mm	110 mm	12 mm	9 mm	0658 801 600	1

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M20	2.5 mm	140 mm	16 mm	12 mm	0658 802 000	1
M24	3 mm	160 mm	18 mm	14.5 mm	0658 802 400	1
M30	3.5 mm	180 mm	22 mm	18 mm	0658 803 000	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo Longlife red ring TiAlN+ blind hole DIN 371/376

The extremely stable, Longlife screw tap for machining hard-to-machine materials (such as Hardox) with extremely high strengths from 1000 up to 1400 N/mm², e.g. excavator shovels, lorry attachments, armour plating, snow ploughs, agricultural machinery, etc.



- Currently one of the most powerful screw tap coatings on the market for machining hard materials
- Specifically developed for thread cutting
- Extremely high heat resistance up to 800°C
- Very high coating hardness up to 3,000 HV
- Multi-layer design with additional lubricant coating ensures extremely low friction values, low adhesion tendency and an optimum chip removal
- Stable cutting edge thanks to reduced chipping angle

Thread type	Metric thread
Material to be processed	Hard and tough material
Hole type	Blind hole ≤ 2.5xD
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	TiAlN plus
Form	C
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2 (6H)
Service life (points system)	●●●●
Trueness to gauge (points system)	●●●●
Versatility (points system)	●○○○
Cutting behaviour (points system)	●●●●
Chip formation (points system)	●●●●

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0654 830 300	1
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0654 830 400	1
M5	0.8 mm	70 mm	6 mm	4.9 mm	0654 830 500	1
M6	1 mm	80 mm	6 mm	4.9 mm	0654 830 600	1
M8	1.25 mm	90 mm	8 mm	6.2 mm	0654 830 800	1
M10	1.5 mm	100 mm	10 mm	8 mm	0654 831 000	1
M12	1.75 mm	110 mm	9 mm	7 mm	0654 831 200	1

Continuation **Machine tap HSCo Longlife red ring TiAlN+ blind hole DIN 371/376**

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M14	2 mm	110 mm	11 mm	9 mm	0654 831 400	1
M16	2 mm	110 mm	12 mm	9 mm	0654 831 600	1
M20	2.5 mm	140 mm	16 mm	12 mm	0654 832 000	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo, Multi Special MF thread, blind hole DIN 374

The versatile screw tap for drilling metric fine threads for universal use in steels with a strength up to 1,000 N/mm², stainless steels and non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.



- Universal geometry for use with a wide range of materials
- X allowance for a longer service life and greater process reliability
- Very good adhesion of coolants and lubricants as well as a reduced tendency for deposit-build-up thanks to the vaporized thread surface

Thread type	Metric fine thread
Material to be processed	Steel, Cast metal, Stainless steel, Non-ferrous metal
Hole type	Blind hole ≤ 2.5xD
Quality	ZEBRA-Premium
Cutting material	HSCo
DIN	374
Surface	Vaporised
Form	C
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2X (6HX)
Service life (points system)	●●○○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●○○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
MF8	1 mm	90 mm	6 mm	4.9 mm	0659 840 810	1/5
MF10	1 mm	90 mm	7 mm	5.5 mm	0659 841 010	1/5
MF10	1.25 mm	100 mm	7 mm	5.5 mm	0659 841 012	1
MF12	1.25 mm	100 mm	9 mm	7 mm	0659 841 212	1
MF12	1.5 mm	100 mm	9 mm	7 mm	0659 841 215	1
MF14	1.5 mm	100 mm	11 mm	9 mm	0659 841 415	1

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
MF16	1.5 mm	100 mm	12 mm	9 mm	0659 841 615	1
MF18	1.5 mm	110 mm	14 mm	11 mm	0659 841 815	1
MF20	1.5 mm	125 mm	16 mm	12 mm	0659 842 015	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo Multi Special blind hole DIN 376

The versatile screw tap with overrun shaft for universal use in steels up to a strength of 1,000 N/mm², stainless steels and non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.



- Enables use with deep threads or interference contours thanks to the tapered tool shaft that is consistently smaller than the core diameter.
- Universal geometry for use with a wide range of materials
- X allowance for a longer service life and greater process reliability
- Very good adhesion of coolants and lubricants as well as a reduced tendency for deposit-build-up thanks to the vaporized thread surface

Thread type	Metric thread
Material to be processed	Steel, Cast metal, Stainless steel, Non-ferrous metal
Hole type	Blind hole ≤ 2.5xD
Quality	ZEBRA-Premium
Cutting material	HSCo
DIN	376
Surface	Vaporised
Form	C
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2X (6HX)
Service life (points system)	●●○○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●○○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	56 mm	2.2 mm	1.8 mm	0659 860 300	1/10
M4	0.7 mm	63 mm	2.8 mm	2.1 mm	0659 860 400	1/10
M5	0.8 mm	70 mm	3.5 mm	2.7 mm	0659 860 500	1/10
M6	1 mm	80 mm	4.5 mm	3.4 mm	0659 860 600	1/10
M8	1.25 mm	90 mm	6 mm	4.9 mm	0659 860 800	1/10
M10	1.5 mm	100 mm	7 mm	5.5 mm	0659 861 000	1/5

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo Multi Special UNC thread blind hole

The versatile screw tap for drilling UNC threads for universal use in steels up to a strength of 1,000 N/mm², stainless steels and non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.



- Universal geometry for use with a wide range of materials
- X allowance for a longer service life and greater process reliability
- Very good adhesion of coolants and lubricants as well as a reduced tendency for deposit-build-up thanks to the vaporized thread surface

Thread type	UNC
Material to be processed	Steel, Cast metal, Stainless steel, Non-ferrous metal
Hole type	Blind hole ≤ 2.5xD
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Vaporised
Form	C
Shank style	Cylindrical with square drive
Tolerance of screw taps	2BX
Service life (points system)	●●○○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●○○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
UNC4	0.635 mm	56 mm	3.5 mm	2.7 mm	0659 890 285	1
UNC6	0.794 mm	56 mm	4 mm	3 mm	0659 890 351	1
UNC8	0.794 mm	63 mm	4.5 mm	3.4 mm	0659 890 417	1
UNC10	1.058 mm	70 mm	6 mm	4.9 mm	0659 890 443	1
UNC1/4	1.27 mm	80 mm	7 mm	5.5 mm	0659 890 635	1
UNC5/16	1.411 mm	90 mm	8 mm	6.2 mm	0659 890 794	1
UNC3/8	1.587 mm	100 mm	10 mm	8 mm	0659 890 953	1
UNC7/16	1.814 mm	100 mm	8 mm	6.2 mm	0659 891 111	1
UNC1/12	1.954 mm	110 mm	9 mm	7 mm	0659 891 270	1
UNC5/8	2.309 mm	110 mm	12 mm	9 mm	0659 891 588	1
UNC3/4	2.54 mm	125 mm	14 mm	11 mm	0659 891 905	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo Multi Special UNF thread blind hole

The versatile screw tap for drilling UNF threads for universal use in steels up to a strength of 1,000 N/mm², stainless steels and non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.



- Universal geometry for use with a wide range of materials
- X allowance for a longer service life and greater process reliability
- Very good adhesion of coolants and lubricants as well as a reduced tendency for deposit-build-up thanks to the vaporized thread surface

Thread type	UNF
Material to be processed	Steel, Cast metal, Stainless steel, Non-ferrous metal
Hole type	Blind hole ≤ 2.5xD
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Vaporised
Form	C
Shank style	Cylindrical with square drive
Tolerance of screw taps	2BX
Service life (points system)	●●○○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●○○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
UNF4	0.529 mm	56 mm	3.5 mm	2.7 mm	0659 880 285	1
UNF6	0.635 mm	56 mm	4 mm	3 mm	0659 880 351	1
UNF10	0.794 mm	70 mm	6 mm	4.9 mm	0659 880 483	1
UNF1/4	0.907 mm	80 mm	7 mm	5.5 mm	0659 880 635	1
UNF3/8	1.058 mm	90 mm	7 mm	5.5 mm	0659 880 953	1
UNF5/8	1.411 mm	100 mm	12 mm	9 mm	0659 881 588	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo Multi Longlife blind hole DIN 371/376

The Longlife high-performance thread tap with Magma multi-layer coating for process-reliable, economical cutting of threads in series production in almost all materials, such as conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1200 N/mm² strength and casting materials. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, brass, copper and bronze.



- Outstanding performance and economy
- Ideal for demanding machining and series production with a high number of threads
- Magma multi-layer coating ensures reduced friction values, low adhesion tendency and optimum chip removal

Thread type	Metric thread
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy, Hard and tough material, Non-ferrous metal
Hole type	Blind hole ≤ 2.5xD
Quality	ZEBRA-Premium
Cutting material	HSCo
DIN	371
Surface	Magma multilayer coating
Form	C
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2X (6HX)
Service life (points system)	●●●●
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●●
Cutting behaviour (points system)	●●●●
Chip formation (points system)	●●●●

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0658 840 300	1/5
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0658 840 400	1/5
M5	0.8 mm	70 mm	6 mm	4.9 mm	0658 840 500	1/5
M6	1 mm	80 mm	6 mm	4.9 mm	0658 840 600	1/5
M8	1.25 mm	90 mm	8 mm	6.2 mm	0658 840 800	1/5
M10	1.5 mm	100 mm	10 mm	8 mm	0658 841 000	1/3
M12	1.75 mm	110 mm	9 mm	7 mm	0658 841 200	1
M14	2 mm	110 mm	11 mm	9 mm	0658 841 400	1
M16	2 mm	110 mm	12 mm	9 mm	0658 841 600	1
M20	2.5 mm	140 mm	16 mm	12 mm	0658 842 000	1

- When thread cutting, sufficient coolant and lubricant must be added
- For the machine tap/material assignments, see the overview tables



Machine screw tap HSCo blue ring through hole DIN 371/376

The blue ring machine tap for general, wide-ranging applications in long-chipping, non-alloyed steels up to a strength of 850 N/mm².

- Cutting geometry precisely tailored to steel materials

Thread type	Metric thread
Material to be processed	Steel
Hole type	Clearance hole $\leq 3 \times D$
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Plain
Form	B
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2 (6H)
Service life (points system)	●●○○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●○○○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●○○



Continuation **Machine screw tap HSCo blue ring through hole** **DIN 371/376**

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M2	0.4 mm	45 mm	2.8 mm	2.1 mm	0653 2	1/10
M2.5	0.45 mm	50 mm	2.8 mm	2.1 mm	0653 25	1/10
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0653 3	1/10
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0653 4	1/10
M5	0.8 mm	70 mm	6 mm	4.9 mm	0653 5	1/10
M6	1 mm	80 mm	6 mm	4.9 mm	0653 6	1/10
M8	1.25 mm	90 mm	8 mm	6.2 mm	0653 8	1/10
M10	1.5 mm	100 mm	10 mm	8 mm	0653 10	1/5
M12	1.75 mm	110 mm	9 mm	7 mm	0653 12	1
M14	2 mm	110 mm	11 mm	9 mm	0653 14	1
M16	2 mm	110 mm	12 mm	9 mm	0653 16	1
M20	2.5 mm	140 mm	16 mm	12 mm	0653 20	1
M24	3 mm	160 mm	18 mm	14.5 mm	0653 24	1
M30	3.5 mm	180 mm	22 mm	18 mm	0653 30	1

Machine screw tap HSCo green ring through hole DIN 371/376

The low-priced machine tap for processing alloyed and high-alloyed steels (stainless steels), as well as rust-resistant and acid-resistant steels. Also suitable for processing conventional steel materials up to a strength of 850 N/mm².



- Tool geometry precisely tailored to stainless steel with increased clearance angle

Thread type	Metric thread
Material to be processed	Steel, Stainless steel
Hole type	Clearance hole ≤ 3xD
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Plain
Form	B
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2 (6H)
Service life (points system)	●●○○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●○○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●○○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0655 3	1/10
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0655 4	1/10
M5	0.8 mm	70 mm	6 mm	4.9 mm	0655 5	1/10

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M6	1 mm	80 mm	6 mm	4.9 mm	0655 6	1/10
M8	1.25 mm	90 mm	8 mm	6.2 mm	0655 8	1/10
M10	1.5 mm	100 mm	10 mm	8 mm	0655 10	1/5
M12	1.75 mm	110 mm	9 mm	7 mm	0655 12	1
M14	2 mm	110 mm	11 mm	9 mm	0655 14	1
M16	2 mm	110 mm	12 mm	9 mm	0655 16	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine screw tap HSCo yellow ring professional aluminium through hole DIN 371/376

The professional tool for machining of aluminium and aluminium alloys $\leq 10\%$ silicon. Also suitable for long-chipping plastics, zinc and copper.

- Cutting geometry precisely tailored to aluminium
- Optimized micro-geometry
- The spiral point and the smoothed surface in the bare design minimize material adhesions and guarantee very good chip removal.



Thread type	Metric thread
Material to be processed	Non-ferrous metal
Hole type	Clearance hole $\leq 3 \times D$
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Plain
Form	B
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2 (6H)
Service life (points system)	●●●○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●○○○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●●●

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0656 3	1
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0656 4	1
M5	0.8 mm	70 mm	6 mm	4.9 mm	0656 5	1
M6	1 mm	80 mm	6 mm	4.9 mm	0656 6	1
M8	1.25 mm	90 mm	8 mm	6.2 mm	0656 8	1
M10	1.5 mm	100 mm	10 mm	8 mm	0656 10	1
M12	1.75 mm	110 mm	9 mm	7 mm	0656 12	1
M14	2 mm	110 mm	11 mm	9 mm	0656 14	1
M16	2 mm	110 mm	12 mm	9 mm	0656 16	1
M20	2.5 mm	140 mm	16 mm	12 mm	0656 20	1

Continuation **Machine screw tap HSCo yellow ring professional aluminium through hole DIN 371/376**

- When thread cutting, sufficient coolant and lubricant must be added.
- See overview tables for machine tap/material assignments

Machine tap HSCo Multi Performance through hole DIN 371/376

The high-performance screw tap with the newly-developed generation of shanks (a combination of polygon and straight shank (Ø M4–M12)) for versatile use with almost all machines and materials, such as conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1200 N/mm² strength and casting materials. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.



- Flexible use in cordless screwdrivers and hand-held, pillar and upright drills thanks to the additional polygon shaft, which prevents slipping in the drill chuck.
- Suitable for conventional applications, such as in CNC machining centres with collect chucks or compensation chucks, thanks to the retention of the straight shaft with square mount
- Newly developed tool geometry with a reduced rake angle, optimised clearance angle and micro-geometry
- Up to three times longer service life than all uncoated machine taps from Würth
- Excellent chip removal, prevention of chip bird nesting
- Available exclusively from Würth

Thread type	Metric thread
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy, Hard and tough material, Non-ferrous metal
Hole type	Clearance hole ≤ 3xD
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Vaporised
Form	B
Tolerance of screw taps	ISO 2X (6HX)
Service life (points system)	●●●○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●●
Cutting behaviour (points system)	●●●●
Chip formation (points system)	●●●○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M2	0.4 mm	45 mm	2.8 mm	2.1 mm	0658 700 200	1/5
M2.5	0.45 mm	50 mm	2.8 mm	2.1 mm	0658 700 250	1/5
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0658 700 300	1/5
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0658 700 400	1/5

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M5	0.8 mm	70 mm	6 mm	4.9 mm	0658 700 500	1/5
M6	1 mm	80 mm	6 mm	4.9 mm	0658 700 600	1/5
M8	1.25 mm	90 mm	8 mm	6.2 mm	0658 700 800	1/5
M10	1.5 mm	100 mm	10 mm	8 mm	0658 701 000	1/5
M12	1.75 mm	110 mm	9 mm	7 mm	0658 701 200	1
M14	2 mm	110 mm	11 mm	9 mm	0658 701 400	1
M16	2 mm	110 mm	12 mm	9 mm	0658 701 600	1
M20	2.5 mm	140 mm	16 mm	12 mm	0658 702 000	1
M24	3 mm	160 mm	18 mm	14.5 mm	0658 702 400	1
M30	3.5 mm	180 mm	22 mm	18 mm	0658 703 000	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo Longlife red ring TiAlN+ through hole DIN 371/376

The extremely stable, Longlife screw tap for machining hard-to-machine materials (such as Hardox) with extremely high strengths from 1000 up to 1400 N/mm², e.g. excavator shovels, lorry attachments, armour plating, snow ploughs, agricultural machinery, etc.



- Currently one of the most powerful screw tap coatings on the market for machining hard materials
- Specifically developed for thread cutting
- Extremely high heat resistance up to 800°C
- Very high coating hardness up to 3,000 HV
- Multi-layer design with additional lubricant coating ensures extremely low friction values, low adhesion tendency and an optimum chip removal
- Stable cutting edge thanks to reduced chipping angle

Thread type	Metric thread
Material to be processed	Hard and tough material
Hole type	Clearance hole ≤ 3xD
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	TiAlN plus
Form	B
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2 (6H)
Service life (points system)	●●●●
Trueness to gauge (points system)	●●●●
Versatility (points system)	●○○○
Cutting behaviour (points system)	●●●●
Chip formation (points system)	●●●●

Continuation **Machine tap HSCo Longlife red ring TiAlN+ through hole DIN 371/376**

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0654 730 300	1
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0654 730 400	1
M5	0.8 mm	70 mm	6 mm	4.9 mm	0654 730 500	1
M6	1 mm	80 mm	6 mm	4.9 mm	0654 730 600	1
M8	1.25 mm	90 mm	8 mm	6.2 mm	0654 730 800	1
M10	1.5 mm	100 mm	10 mm	8 mm	0654 731 000	1
M12	1.75 mm	110 mm	9 mm	7 mm	0654 731 200	1
M14	2 mm	110 mm	11 mm	9 mm	0654 731 400	1
M16	2 mm	110 mm	12 mm	9 mm	0654 731 600	1
M20	2.5 mm	140 mm	16 mm	12 mm	0654 732 000	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo Multi Special MF thread through hole DIN 374

The versatile screw tap for drilling metric fine threads for universal use in steels with a strength up to 1,000 N/mm², stainless steels and non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.

- Universal geometry for use with a wide range of materials
- X allowance for a longer service life and greater process reliability
- Very good adhesion of coolants and lubricants as well as a reduced tendency for deposit-build-up thanks to the vaporized thread surface



Thread type	Metric fine thread
Material to be processed	Steel, Cast metal, Stainless steel, Non-ferrous metal
Hole type	Clearance hole $\leq 3 \times D$
Quality	ZEBRA-Premium
DIN	374
Cutting material	HSCo
Surface	Vaporised
Form	B
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2X (6HX)
Service life (points system)	●●○○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●○○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
MF8	1 mm	90 mm	6 mm	4.9 mm	0659 740 810	1/5
MF10	1 mm	90 mm	7 mm	5.5 mm	0659 741 010	1/5
MF10	1.25 mm	100 mm	7 mm	5.5 mm	0659 741 012	1
MF12	1.25 mm	100 mm	9 mm	7 mm	0659 741 212	1
MF12	1.5 mm	100 mm	9 mm	7 mm	0659 741 215	1
MF14	1.5 mm	100 mm	11 mm	9 mm	0659 741 415	1
MF16	1.5 mm	100 mm	12 mm	9 mm	0659 741 615	1
MF18	1.5 mm	110 mm	14 mm	11 mm	0659 741 815	1
MF20	1.5 mm	125 mm	16 mm	12 mm	0659 742 015	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo Multi Special through hole DIN 376

The versatile screw tap with overrun shaft for universal use in steels up to a strength of 1,000 N/mm², stainless steels and non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.



- Enables use with deep threads or interference contours thanks to the tapered tool shaft that is consistently smaller than the core diameter.
- Universal geometry for use with a wide range of materials
- X allowance for a longer service life and greater process reliability
- Very good adhesion of coolants and lubricants as well as a reduced tendency for deposit-build-up thanks to the vaporized thread surface

Thread type	Metric thread
Material to be processed	Steel, Cast metal, Stainless steel, Non-ferrous metal
Hole type	Clearance hole $\leq 3 \times D$
Quality	ZEBRA-Premium
DIN	376
Cutting material	HSCo
Surface	Vaporised
Form	B
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2X (6HX)
Service life (points system)	●●○○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●○○

Continuation **Machine tap HSCo Multi Special through hole DIN 376**

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	56 mm	2.2 mm	1.8 mm	0659 760 300	1/10
M4	0.7 mm	63 mm	2.8 mm	2.1 mm	0659 760 400	1/10
M5	0.8 mm	70 mm	3.5 mm	2.7 mm	0659 760 500	1/10
M6	1 mm	80 mm	4.5 mm	3.4 mm	0659 760 600	1/10
M8	1.25 mm	90 mm	6 mm	4.9 mm	0659 760 800	1/10
M10	1.5 mm	100 mm	7 mm	5.5 mm	0659 761 000	1/5

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo Multi Special UNC thread through hole

The versatile screw tap for drilling UNC threads for universal use in steels up to a strength of 1,000 N/mm², stainless steels and non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.

- Universal geometry for use with a wide range of materials
- X allowance for a longer service life and greater process reliability
- Very good adhesion of coolants and lubricants as well as a reduced tendency for deposit-build-up thanks to the vaporized thread surface



Thread type	UNC
Material to be processed	Steel, Cast metal, Stainless steel, Non-ferrous metal
Hole type	Clearance hole $\leq 3 \times D$
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Vaporised
Form	B
Shank style	Cylindrical with square drive
Tolerance of screw taps	2BX
Service life (points system)	●●○○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●○○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
UNC4	0.635 mm	56 mm	3.5 mm	2.7 mm	0659 790 285	1
UNC6	0.794 mm	56 mm	4 mm	3 mm	0659 790 351	1
UNC8	0.794 mm	63 mm	4.5 mm	3.4 mm	0659 790 417	1
UNC10	1.058 mm	70 mm	6 mm	4.9 mm	0659 790 443	1
UNC1/4	1.27 mm	80 mm	7 mm	5.5 mm	0659 790 635	1
UNC5/16	1.411 mm	90 mm	8 mm	6.2 mm	0659 790 794	1
UNC3/8	1.587 mm	100 mm	10 mm	8 mm	0659 790 953	1

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
UNC7/16	1.814 mm	100 mm	8 mm	6.2 mm	0659 791 111	1
UNC1/2	1.954 mm	110 mm	9 mm	7 mm	0659 791 270	1
UNC5/8	2.309 mm	110 mm	12 mm	9 mm	0659 791 588	1
UNC3/4	2.54 mm	125 mm	14 mm	11 mm	0659 791 905	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo Multi Special UNF thread through hole

The versatile screw tap for drilling UNF threads for universal use in steels up to a strength of 1,000 N/mm², stainless steels and non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.

- Universal geometry for use with a wide range of materials
- X allowance for a longer service life and greater process reliability
- Very good adhesion of coolants and lubricants as well as a reduced tendency for deposit-build-up thanks to the vaporized thread surface



Thread type	UNF
Material to be processed	Steel, Cast metal, Stainless steel, Non-ferrous metal
Hole type	Clearance hole $\leq 3 \times D$
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Vaporised
Form	B
Shank style	Cylindrical with square drive
Tolerance of screw taps	2BX
Service life (points system)	●●○○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●○○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
UNF4	0.529 mm	56 mm	3.5 mm	2.7 mm	0659 780 285	1
UNF6	0.635 mm	56 mm	4 mm	3 mm	0659 780 351	1
UNF10	0.794 mm	70 mm	6 mm	4.9 mm	0659 780 483	1
UNF1/4	0.907 mm	80 mm	7 mm	5.5 mm	0659 780 635	1
UNF3/8	1.058 mm	90 mm	7 mm	5.5 mm	0659 780 953	1
UNF5/8	1.058 mm	100 mm	12 mm	9 mm	0659 781 588	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine tap HSCo Multi Longlife through hole DIN 371/376

The Longlife high-performance thread tap with Magma multi-layer coating for process-reliable, economical cutting of threads in series production in almost all materials, such as conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1200 N/mm² strength and casting materials. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, brass, copper and bronze.



- Outstanding performance and economy
- Ideal for demanding machining and series production with a high number of threads
- Magma multi-layer coating ensures reduced friction values, low adhesion tendency and optimum chip removal

Thread type	Metric thread
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Special alloy, Hard and tough material, Non-ferrous metal
Hole type	Clearance hole $\leq 3 \times D$
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Magma multilayer coating
Form	B
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2X (6HX)
Service life (points system)	●●●●
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●●
Cutting behaviour (points system)	●●●●
Chip formation (points system)	●●●●

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0658 740 300	1/5
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0658 740 400	1/5
M5	0.8 mm	70 mm	6 mm	4.9 mm	0658 740 500	1/5
M6	1 mm	80 mm	6 mm	4.9 mm	0658 740 600	1/5
M8	1.25 mm	90 mm	8 mm	6.2 mm	0658 740 800	1/5
M10	1.5 mm	100 mm	10 mm	8 mm	0658 741 000	1/3
M12	1.75 mm	110 mm	9 mm	7 mm	0658 741 200	1
M14	2 mm	110 mm	11 mm	9 mm	0658 741 400	1
M16	2 mm	110 mm	12 mm	9 mm	0658 741 600	1
M20	2.5 mm	140 mm	16 mm	12 mm	0658 742 000	1

- When thread cutting, sufficient coolant and lubricant must be added
- For the machine tap/material assignments, see the overview tables

Machine screw tap HSCo blue ring blind hole DIN 371/376

The blue ring machine tap for general, wide-ranging applications in long-chipping, non-alloyed steels up to a strength of 850 N/mm².

- Cutting geometry precisely tailored to steel materials
- Optimized micro-geometry and diagonally stepped threaded part for high process reliability and longer service life compared to comparable machine taps



Thread type	Metric thread
Material to be processed	Steel
Hole type	Blind hole ≤ 2.5xD
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Plain
Form	C
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2 (6H)
Service life (points system)	●●○○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●○○○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●○○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M2	0.4 mm	45 mm	2.8 mm	2.1 mm	0653 02	1/10
M2.5	0.45 mm	50 mm	2.8 mm	2.1 mm	0653 025	1/10
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0653 03	1/10
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0653 04	1/10
M5	0.8 mm	70 mm	6 mm	4.9 mm	0653 05	1/10
M6	1 mm	80 mm	6 mm	4.9 mm	0653 06	1/10
M8	1.25 mm	90 mm	8 mm	6.2 mm	0653 08	1/10
M10	1.5 mm	100 mm	10 mm	8 mm	0653 010	1/5
M12	1.75 mm	110 mm	9 mm	7 mm	0653 012	1
M14	2 mm	110 mm	11 mm	9 mm	0653 014	1
M16	2 mm	110 mm	12 mm	9 mm	0653 016	1
M20	2.5 mm	140 mm	16 mm	12 mm	0653 020	1
M24	3 mm	160 mm	18 mm	14.5 mm	0653 024	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine screw tap HSCo green ring blind hole DIN 371/376

The low-priced machine tap for processing alloyed and high-alloyed steels (stainless steels), as well as rust-resistant and acid-resistant steels. Also suitable for processing conventional steel materials up to a strength of 850 N/mm².



- Tool geometry precisely tailored to stainless steel with increased clearance angle
- Extra homogeneous cutting edge rounding for a high process reliability and longer service life compared to comparable machine taps

Thread type	Metric thread
Material to be processed	Steel, Stainless steel
Hole type	Blind hole $\leq 2.5 \times D$
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Plain
Form	C
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2 (6H)
Service life (points system)	●●○○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●●○○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●○○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0655 03	1/10
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0655 04	1/10
M5	0.8 mm	70 mm	6 mm	4.9 mm	0655 05	1/10
M6	1 mm	80 mm	6 mm	4.9 mm	0655 06	1/10
M8	1.25 mm	90 mm	8 mm	6.2 mm	0655 08	1/10
M10	1.5 mm	100 mm	10 mm	8 mm	0655 010	1/5
M12	1.75 mm	110 mm	9 mm	7 mm	0655 012	1
M14	2 mm	110 mm	11 mm	9 mm	0655 014	1
M16	2 mm	110 mm	12 mm	9 mm	0655 016	1
M20	2.5 mm	140 mm	16 mm	12 mm	0655 020	1

- Sufficient coolant and lubricant must be added when cutting threads.
- For the machine tap/material assignments, see the overview tables

Machine screw tap HSCo yellow ring professional aluminium blind hole DIN 371/376

The professional tool for machining of aluminium and aluminium alloys $\leq 10\%$ silicon. Also suitable for long-chipping plastics, zinc and copper.

- Cutting geometry precisely tailored to aluminium with larger chip space and increased angle of twist
- Optimized micro-geometry
- The smoothed surface in the bare design minimizes material adhesions and guarantees very good chip removal.



Thread type	Metric thread
Material to be processed	Non-ferrous metal
Hole type	Blind hole $\leq 2.5 \times D$
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Plain
Form	C
Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2 (6H)
Service life (points system)	●●●○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●○○○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●●●

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	56 mm	3.5 mm	2.7 mm	0656 03	1
M4	0.7 mm	63 mm	4.5 mm	3.4 mm	0656 04	1
M5	0.8 mm	70 mm	6 mm	4.9 mm	0656 05	1
M6	1 mm	80 mm	6 mm	4.9 mm	0656 06	1
M8	1.25 mm	90 mm	8 mm	6.2 mm	0656 08	1
M10	1.5 mm	100 mm	10 mm	8 mm	0656 010	1
M12	1.75 mm	110 mm	9 mm	7 mm	0656 012	1
M14	2 mm	110 mm	11 mm	9 mm	0656 014	1
M16	2 mm	110 mm	12 mm	9 mm	0656 016	1
M20	2.5 mm	140 mm	16 mm	12 mm	0656 020	1

- When thread cutting, sufficient coolant and lubricant must be added.
- See overview tables for machine tap/material assignments

Machine tap assortment Stainless steel blind hole M3-M12

14 pieces Consisting of precision twist drills and green ring blind hole screws taps for processing alloyed and high-alloyed steels (stainless steels), as well as rust-resistant and acid-resistant steels. Also suitable for processing conventional steel materials up to a strength of 850 N/mm².

Twist drill

- Large chipping space and small core for fast drilling with perfect chip removal
- Very precise point geometry for accurate drill holes, ideal for core drill holes

Machine tap

- Tool geometry precisely tailored to stainless steel with increased clearance angle
- Extra homogeneous cutting edge rounding for a high process reliability and longer service life compared to comparable machine taps



Number of pieces in assortment/set	14 PCS
Material to be processed	Steel, Stainless steel
Quality	ZEBRA-Premium
Hole type	Blind hole $\leq 2.5 \times D$
Cutting material	HSCo
Surface	Plain
Suitable for machine type	Milling/drill center, Pedestal drilling machine

Art. no. 0655 01

P. Qty.: 1

- Sufficient coolant and lubricant must be added for drilling processes and when cutting threads.
- For tool/material assignments, see the overview tables
- For further information, please refer to the individual products.

Machine tap HSCo nuts through hole DIN 357

Long machine nut screw tap with overrun shaft for cutting nuts for metric threads in steel up to a strength of 800 N/mm².

- Very long notch (approx. 2/3 of the thread length) and up to 4x the number of teeth compared to conventional machine taps
- The groove and thread geometry has been designed specifically for processing nuts.



Thread type	Metric thread
Material to be processed	Steel
Hole type	Clearance hole $\leq 1 \times D$
Quality	ZEBRA-Premium
DIN	357
Cutting material	HSCo
Surface	Plain

Shank style	Cylindrical with square drive
Tolerance of screw taps	ISO 2 (6H)
Service life (points system)	●●●○
Trueness to gauge (points system)	●●●●
Versatility (points system)	●○○○
Cutting behaviour (points system)	●●●○
Chip formation (points system)	●●●○

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	70 mm	2.2 mm	1.8 mm	0653 943	1
M4	0.7 mm	90 mm	2.8 mm	2.1 mm	0653 944	1/10
M5	0.8 mm	100 mm	3.5 mm	2.7 mm	0653 945	1/10
M6	1 mm	110 mm	4.5 mm	3.4 mm	0653 946	1/10
M8	1.25 mm	125 mm	6 mm	4.9 mm	0653 948	1/5
M10	1.5 mm	140 mm	7 mm	5.5 mm	0653 941 0	1
M12	1.75 mm	180 mm	9 mm	7 mm	0653 941 2	1

- When thread cutting, sufficient coolant and lubricant must be added.
- For the tool/material assignments, see the overview tables

Combination screw tap HSCo multi performance

Premium combination screw tap for precise drilling, thread cutting and countersinking/deburring in just one operation, now also for thicker workpieces with a material thickness of up to 2xD and for almost all materials, such as conventional steels, stainless steels (e.g. V2A, V4A), titanium, heat-resistant and high-strength steels of up to 1200 N/mm² strength and casting materials. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, bronze and plastics.



- 3 in 1 - Drilling, thread cutting and countersinking/deburring in just one operation
- The first combination screw tap that is not limited to use in materials up to 600 N/mm² strength, but suitable for almost all materials
- Newly developed shaft generation with a combination of polygon and straight shank with square drive

Thread type	Metric thread
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Non-ferrous metal
Hole type	Clearance hole ≤ 2xD
Quality	ZEBRA-Premium
Cutting material	HSCo
Surface	Vaporised
Shank style	Combination of polygonal and cylinder shank with square drive
Tolerance of screw taps	ISO 2 (6H)
Service life (points system)	●●●●

Continuation **Combination screw tap HSCo multi performance**

Trueness to gauge (points system)	●●●●
Versatility (points system)	●●●●
Cutting behaviour (points system)	●●●●
Chip formation (points system)	●●●●
Suitable for tensile strength up to	1200 N/mm ²

Thread type x nominal diameter	Pitch	Length	Shaft diameter	Size of square	Art. no.	P. Qty.
M3	0.5 mm	62 mm	4.5 mm	3.4 mm	0658 500 300	1
M4	0.7 mm	66 mm	5 mm	3.8 mm	0658 500 400	1
M5	0.8 mm	75 mm	6 mm	4.9 mm	0658 500 500	1
M6	1 mm	91 mm	8 mm	6.2 mm	0658 500 600	1
M8	1.25 mm	103 mm	10 mm	8 mm	0658 500 800	1
M10	1.5 mm	125 mm	12 mm	9 mm	0658 501 000	1
M12	1.75 mm	135 mm	12 mm	9 mm	0658 501 200	1

- Countersinks according to DIN74-1 for countersunk head screws (according to DIN 7991) are not possible!
- For use in cordless drills as well as on hand-held, pillar and upright drills.
- Sufficient coolant and lubricant must be added.
- For tool/material assignments, see the overview tables.



Machine tap assortment Steel through hole M3-M12

14 pieces Consisting of precision twist drills and through hole screw taps for machining long-chipping, non-alloyed steels up to a strength of 850 N/mm².

Twist drill

- Optimised cross thinning for 20% lower infeed force compared to conventional drills as well as quicker progress and a more gentle way of working
- Optimised split point for precise spot drilling without centring, even on curved surfaces
- Very precise point geometry for accurate drill holes
- Vaporised surface for excellent adhesive capability of coolant lubricants and reduced tendency for material to build up

Machine tap

- Cutting geometry precisely tailored to steel materials

Number of pieces in assortment/set	14 PCS
Material to be processed	Steel
Quality	ZEBRA-Premium
Hole type	Clearance hole $\leq 3 \times D$
Surface	Plain
Suitable for machine type	Milling/drill center, Pedestal drilling machine



Art. no. 0653 1

P. Qty.: 1

Manual screw tap, third tap HSS, DIN 2181

Third tap with notch shape C for producing metric ISO fine threads according to DIN 13 manually in through holes and blind holes, in steel, non-ferrous metals and cast iron material groups up to a strength of 800 N/mm².



Type description	Third tap
Standards	DIN 2181

Thread type x nominal diameter	Pitch	Length	Thread length (metric thread)	Shaft diameter	Art. no.	P. Qty.
MF4	0.5 mm	45 mm	10 mm	4.5 mm	0642 34 05	1
MF5	0.5 mm	50 mm	12 mm	6 mm	0642 35 05	1
MF6	0.75 mm	56 mm	14 mm	6 mm	0642 36 075	1
MF8	1 mm	63 mm	22 mm	6 mm	0642 38 1	1
MF10	1 mm	63 mm	20 mm	7 mm	0642 310 1	1
MF10	1.25 mm	70 mm	24 mm	7 mm	0642 310 125	1
MF12	1 mm	70 mm	22 mm	9 mm	0642 312 1	1
MF12	1.25 mm	70 mm	22 mm	9 mm	0642 312 125	1
MF12	1.5 mm	70 mm	22 mm	9 mm	0642 312 15	1
MF14	1.25 mm	70 mm	22 mm	11 mm	0642 314 125	1
MF14	1.5 mm	70 mm	22 mm	11 mm	0642 314 15	1
MF16	1.5 mm	70 mm	22 mm	12 mm	0642 316 15	1
MF18	1.5 mm	80 mm	22 mm	14 mm	0642 318 15	1
MF20	1.5 mm	80 mm	22 mm	16 mm	0642 320 15	1
MF22	1.5 mm	80 mm	22 mm	18 mm	0642 322 15	1
MF24	1.5 mm	90 mm	22 mm	18 mm	0642 324 15	1

In order to produce a complete thread, a taper tap is also required.

Manual screw tap, third tap HSS, DIN 352

With trim cut form C for producing metric ISO standard threads by hand in accordance with DIN 13 in through holes and blind holes in the steel, non-ferrous metals and cast iron material groups up to a strength of 800 N/mm²



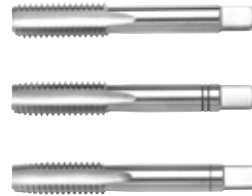
Type description	Third tap
Standards	DIN 352

Thread type x nominal diameter	Pitch	Length	Thread length (metric thread)	Shaft diameter	Art. no.	P. Qty.
M2	0.4 mm	36 mm	8 mm	2.8 mm	0640 3 2	1
M2.5	0.45 mm	40 mm	9 mm	2.8 mm	0640 3 25	1
M3	0.5 mm	40 mm	11 mm	3.5 mm	0640 3 3	1
M4	0.7 mm	45 mm	13 mm	4.5 mm	0640 3 4	1
M5	0.8 mm	50 mm	16 mm	6 mm	0640 3 5	1
M6	1 mm	56 mm	19 mm	6 mm	0640 3 6	1
M7	1 mm	56 mm	19 mm	6 mm	0640 3 7	1
M8	1.25 mm	63 mm	22 mm	6 mm	0640 3 8	1

Thread type x nominal diameter	Pitch	Length	Thread length (metric thread)	Shaft diameter	Art. no.	P. Qty.
M10	1.5 mm	70 mm	24 mm	7 mm	0640 3 10	1
M12	1.75 mm	75 mm	28 mm	9 mm	0640 3 12	1
M14	2 mm	80 mm	30 mm	11 mm	0640 3 14	1
M16	2 mm	80 mm	32 mm	12 mm	0640 3 16	1
M18	2.5 mm	95 mm	34 mm	14 mm	0640 3 18	1
M20	2.5 mm	95 mm	34 mm	16 mm	0640 3 20	1
M22	2.5 mm	100 mm	34 mm	18 mm	0640 3 22	1
M24	3 mm	110 mm	38 mm	18 mm	0640 3 24	1

Manual screw tap set HSS, DIN 352

3 Pieces consisting of a taper tap (form A), a second tap (form D) and third tap (form C) for producing metric ISO standard threads by hand in accordance with DIN13 in through holes and blind holes in the steel, non-ferrous metals and cast iron material groups up to a strength of 800 N/mm²



Number of pieces in assortment/set	3 PCS
Type description	Hand tap set
Standards	DIN 352

Thread type x nominal diameter	Pitch	Length	Thread length (metric thread)	Shaft diameter	Art. no.	P. Qty.
M2	0.4 mm	36 mm	8 mm	2.8 mm	0639 2	1
M2.5	0.45 mm	40 mm	9 mm	2.8 mm	0639 25	1
M3	0.5 mm	40 mm	11 mm	3.5 mm	0639 3	1
M4	0.7 mm	45 mm	13 mm	4.5 mm	0639 4	1
M5	0.8 mm	50 mm	16 mm	6 mm	0639 5	1
M6	1 mm	56 mm	19 mm	6 mm	0639 6	1
M7	1 mm	56 mm	19 mm	6 mm	0639 7	1
M8	1.25 mm	63 mm	22 mm	6 mm	0639 8	1
M10	1.5 mm	70 mm	24 mm	7 mm	0639 10	1
M12	1.75 mm	75 mm	28 mm	9 mm	0639 12	1
M14	2 mm	80 mm	30 mm	11 mm	0639 14	1
M16	2 mm	80 mm	32 mm	12 mm	0639 16	1
M18	2.5 mm	95 mm	34 mm	14 mm	0639 18	1
M20	2.5 mm	95 mm	34 mm	16 mm	0639 20	1
M22	2.5 mm	100 mm	34 mm	18 mm	0639 22	1
M24	3 mm	110 mm	38 mm	18 mm	0639 24	1

Hand tap cassette HSS, DIN 352

21 pieces. Consisting of a taper tap (form A), a second tap (form D) and third tap (form C) in the dimensions M3-M12 for producing metric ISO standard threads by hand in accordance with DIN13 in through holes and blind holes in the steel, non-ferrous metals and cast iron material groups up to a strength of 800 N/mm²



Number of pieces in assortment/set	21 PCS
Standards	DIN 352

Art. no. 0639 01

P. Qty.: 1

Contents for art. no. 0639 01

Designation	Art. no.	Quantity
Manual screw tap, taper tap HSS, DIN 352 M3 x 0.5	0640 1 3	1
Manual screw tap, taper tap HSS, DIN 352 M4 x 0.7	0640 1 4	1
Manual screw tap, taper tap HSS, DIN 352 M5 x 0.8	0640 1 5	1
Manual screw tap, taper tap HSS, DIN 352 M6 x 1.0	0640 1 6	1
Manual screw tap, taper tap HSS, DIN 352 M8 x 1.25	0640 1 8	1
Manual screw tap, taper tap HSS, DIN 352 M10 x 1.5	0640 1 10	1
Manual screw tap, taper tap HSS, DIN 352 M12 x 1.75	0640 1 12	1
Manual screw tap, second tap HSS, DIN 352 M3 x 0.5	0640 2 3	1
Manual screw tap, second tap HSS, DIN 352 M4 x 0.7	0640 2 4	1
Manual screw tap, second tap HSS, DIN 352 M5 x 0.8	0640 2 5	1
Manual screw tap, second tap HSS, DIN 352 M6 x 1.0	0640 2 6	1
Manual screw tap, second tap HSS, DIN 352 M8 x 1.25	0640 2 8	1
Manual screw tap, second tap HSS, DIN 352 M10 x 1.5	0640 2 10	1
Manual screw tap, second tap HSS, DIN 352 M12 x 1.75	0640 2 12	1
Manual screw tap, third tap HSS, DIN 352 M3 x 0.5	0640 3 3	1
Manual screw tap, third tap HSS, DIN 352 M4 x 0.7	0640 3 4	1
Manual screw tap, third tap HSS, DIN 352 M5 x 0.8	0640 3 5	1
Manual screw tap, third tap HSS, DIN 352 M6 x 1	0640 3 6	1
Manual screw tap, third tap HSS, DIN 352 M8 x 1.25	0640 3 8	1
Manual screw tap, third tap HSS, DIN 352 M10 x 1.5	0640 3 10	1
Manual screw tap, third tap HSS, DIN 352 M12 x 1.75	0640 3 12	1

Manual hand tap set, HSS

2 pieces. Set consisting of a taper tap (shape A) and third tap (shape C) for producing metric ISO fine threads by hand in accordance with DIN 13 in through holes and blind holes in the steel, non-ferrous metals and cast iron material groups up to a strength of 800 N/mm².



- 1 pcs second tap, 5-6 trim cuts
- 1 pcs plug tap, 2-3 trim cuts
- Tolerance: 6H

Number of pieces in assortment/set	2 PCS
Standards	DIN 2181

Type description	Thread type x nominal diameter	Pitch	Length	Thread length (metric thread)	Art. no.	P. Qty.
Hand tap	MF8	1 mm	63 mm	22 mm	0640 8 1	1
Hand tap	MF10	1.25 mm	70 mm	24 mm	0640 10 125	1
Hand tap	MF12	1.25 mm	70 mm	22 mm	0640 12 125	1
Hand tap	MF12	1.5 mm	70 mm	22 mm	0640 12 15	1
Hand tap	MF14	1.25 mm	70 mm	22 mm	0640 14 125	1
Hand tap MF	MF10	1 mm	63 mm	20 mm	0640 10 1	1
Hand tap set	MF4	0.5 mm	45 mm	10 mm	0640 405	1
Hand tap set	MF5	0.5 mm	50 mm	12 mm	0640 505	1
Hand tap set	MF6	0.75 mm	56 mm	14 mm	0640 607 5	1
Hand tap set	MF12	1 mm	70 mm	22 mm	0640 12 1	1
Hand tap set	MF14	1.5 mm	70 mm	22 mm	0640 14 15	1
Hand tap set	MF16	1.5 mm	70 mm	22 mm	0640 16 15	1
Hand tap set	MF20	1.5 mm	80 mm	22 mm	0640 20 15	1
Hand tap set	MF22	1.5 mm	80 mm	22 mm	0640 22 15	1
Hand tap set	MF24	1.5 mm	90 mm	22 mm	0640 24 15	1

Manual screw tap, taper tap HSS, DIN 2181

Taper tap with notch shape A for producing metric ISO fine threads according to DIN 13 manually in through holes and blind holes, in steel, non-ferrous metals and cast iron material groups up to a strength of 800 N/mm².



Type description	Taper tap
Standards	DIN 2181

Thread type x nominal diameter	Pitch	Length	Thread length (metric thread)	Shaft diameter	Art. no.	P. Qty.
MF4	0.5 mm	45 mm	10 mm	4.5 mm	0642 14 05	1
MF5	0.5 mm	50 mm	12 mm	6 mm	0642 15 05	1
MF6	0.75 mm	56 mm	14 mm	6 mm	0642 16 075	1
MF8	1 mm	63 mm	22 mm	6 mm	0642 18 1	1
MF10	1 mm	63 mm	20 mm	7 mm	0642 110 1	1

Continuation **Manual screw tap, taper tap HSS, DIN 2181**

Thread type x nominal diameter	Pitch	Length	Thread length (metric thread)	Shaft diameter	Art. no.	P. Qty.
MF10	1.25 mm	70 mm	24 mm	7 mm	0642 110 125	1
MF12	1 mm	70 mm	22 mm	9 mm	0642 112 1	1
MF12	1.25 mm	70 mm	22 mm	9 mm	0642 112 125	1
MF12	1.5 mm	70 mm	22 mm	9 mm	0642 112 15	1
MF14	1.25 mm	70 mm	22 mm	11 mm	0642 114 125	1
MF14	1.5 mm	70 mm	22 mm	11 mm	0642 114 15	1
MF16	1.5 mm	70 mm	22 mm	12 mm	0642 116 15	1
MF18	1.5 mm	80 mm	22 mm	14 mm	0642 118 15	1
MF20	1.5 mm	80 mm	22 mm	16 mm	0642 120 15	1
MF22	1.5 mm	80 mm	22 mm	18 mm	0642 122 15	1
MF24	1.5 mm	90 mm	22 mm	18 mm	0642 124 15	1

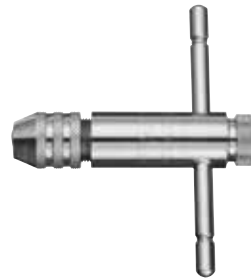
In order to produce a complete thread, a third tap is also required.

Tool holder with ratchet

Short design

For right-and left-handed threads

Material	Steel
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Suitable for	Length	Art. no.	P. Qty.
Screw tap M3 - M8 square drive 2.4 -5.5 mm	85 mm	0715 42 01	1
Screw tap M5 - M12 square drive 4.5 -8 mm	100 mm	0715 42 02	1

Tool holder with ratchet

Long design

For right-and left-handed threads

Material	Steel
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Suitable for	Length	Art. no.	P. Qty.
Screw tap M3 - M8 square drive 2.4 -5.5 mm	250 mm	0715 42 03	1
Screw tap M5 - M12 square drive 4.5 -8 mm	300 mm	0715 42 04	1

Tap wrench DIN 1814 Performance, adjustable

Performance tap wrench for mounting tools with square shank according to DIN 10 with redesigned reinforced body as well as knurled handles for very high loads.

- Pinpoint accuracy
- Comfortable operation
- Safe work even using high forces



Material	Die-cast zinc
DIN	1814

Size	Length	Min./max. thread-cutting area, metric	Suitable for min./max. square socket size	Min./max. thread-cutting area Whitworth pipe thread BSP (G-thread), imperial	Art. no.	P. Qty.
0	130 mm	1-8 mm	2-5 mm		0657 800 000	1
1	180 mm	1-10 mm	2-6.3 mm	1/8-1/8 in	0657 800 100	1
1.5	180 mm	1-12 mm	2-8 mm	1/8-1/8 in	0657 800 150	1
2	280 mm	4-12 mm	3-9 mm	1/8-1/8 in	0657 800 200	1
3	380 mm	5-20 mm	4.9-12 mm	1/8-1/2 in	0657 800 300	1
4	515 mm	9-27 mm	5.5-16 mm	1/4-3/4 in	0657 800 400	1
5	700 mm	12-33 mm	7-20 mm	1/4-1 in	0657 800 500	1
6	1000 mm	18-42 mm	11-24 mm	1/2-1-1/4 in	0657 800 600	1

Die holder for drill drivers

6 pieces. Innovative, high-quality steel adapter including appropriate die guides M3–M8 for quick, optimal cutting and repairing of male threads with cordless drill screwdrivers and lathes in conjunction with HSS performance and HSCO multi performance dies in size 25x9 mm.

- Including die guides M3–M8 for a perfect, vertical cut of the thread
- Integrated chip container to collect the largest chips and ensure a clean, safe process
- 3-face shank



Number of pieces in assortment/set	6 PCS
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Art. no. 0659 999 001

P. Qty.: 1



Tool holder

With 1/4-inch hexagonal drive

- Small size
- The total length does not increase when a ratchet spanner is used
- Suitable for use with various tools



External drive	WS13
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Suitable for	Length	Art. no.	P. Qty.
Screw tap M3 - M8 square drive 2.4 -5.5 mm	36 mm	0715 42 001	1
Screw tap M5 - M12 square drive 4.5 -8 mm	40 mm	0715 42 002	1

Die holder DIN EN 22568 Performance

Performance thread-cutting die holder made from die-cast zinc for mounting round thread-cutting dies in accordance with DIN EN 22568, DIN EN 24231 and factory standard with newly designed, reinforced body, as well as black coated handles made of steel for very high loads.



Standards	EN 22568
Material	Die-cast zinc

Internal diameter x height	Length	Min./max. thread-cutting area, metric	Min./max. thread-cutting area, metric fine	Min./Max. thread-cutting area Whitworth (W-thread), imperial	Art. no.	P. Qty.
16 x 5 mm	160 mm	1-2.6 mm	1-2.6 mm	1/6-3/32 in	0659 800 000	1
20 x 5 mm	175 mm	3-4 mm	3-4 mm	1/8-5/32 in	0659 800 100	1
20 x 7 mm	175 mm	4.5-6 mm	4.5-6 mm	3/16-1/4 in	0659 800 200	1
25 x 9 mm	210 mm	7-9 mm	7-9 mm	5/16-5/16 in	0659 800 300	1
30 x 11 mm	260 mm	10-11 mm	10-11 mm	3/8-7/16 in	0659 800 400	1
38 x 10 mm	310 mm		12-15 mm		0659 800 550	1
38 x 14 mm	310 mm	12-14 mm		1/2-9/16 in	0659 800 500	1
45 x 14 mm	440 mm		16-20 mm		0659 800 650	1
45 x 18 mm	440 mm	16-20 mm		5/8-13/16 in	0659 800 600	1
55 x 16 mm	495 mm		22-26 mm		0659 800 750	1
55 x 22 mm	495 mm	22-24 mm		7/8-1 in	0659 800 700	1

Thread die HSS DIN EN 22568 for standard metric ISO threads

Round die in accordance with DIN EN 22568 in closed, pre-slotted design (shape B) for the production of standard metric ISO threads according to DIN 13 in steel up to 850 N/mm² strength and in cast iron.

- Usable on both sides
- Threads can be cut in one process
- Easy cutting and excellent chip removal in cutting direction
- High edge retention



Type description	For metric ISO thread DIN 13
Cutting material	HSS
Surface	Plain
Thread type	Metric thread
Form	B
Tolerance class	6g
Material to be processed	Steel, Cast iron

Thread type x nominal diameter	Pitch	Outer diameter	Height	Art. no.	P. Qty.
M2	0.4 mm	16 mm	5 mm	0652 2	1
M2.5	0.45 mm	16 mm	5 mm	0652 25	1
M3	0.5 mm	20 mm	5 mm	0652 3	1
M4	0.7 mm	20 mm	5 mm	0652 4	1
M5	0.8 mm	20 mm	7 mm	0652 5	1
M6	1 mm	20 mm	7 mm	0652 6	1
M7	1 mm	25 mm	9 mm	0652 7	1
M8	1.25 mm	25 mm	9 mm	0652 8	1
M10	1.5 mm	30 mm	11 mm	0652 10	1
M12	1.75 mm	38 mm	14 mm	0652 12	1
M14	2 mm	38 mm	14 mm	0652 14	1
M16	2 mm	45 mm	18 mm	0652 16	1
M18	2.5 mm	45 mm	18 mm	0652 18	1
M20	2.5 mm	45 mm	18 mm	0652 20	1
M22	2.5 mm	55 mm	22 mm	0652 22	1
M24	3 mm	55 mm	22 mm	0652 24	1

Thread die HSS DIN EN 22568 for metric ISO fine threads

Round die in accordance with DIN EN 22568 in closed, pre-slotted design (shape B) for the production of metric ISO fine threads according to DIN 13 in steel up to 850 N/mm² strength and in cast iron.

- Usable on both sides
- Threads can be cut in one process
- Easy cutting and excellent chip removal in cutting direction
- High edge retention



Type description	For metric ISO fine thread DIN 13
Cutting material	HSS
Surface	Plain

Continuation Thread die HSS DIN EN 22568 for metric ISO fine threads

Thread type	Metric fine thread
Form	B
Tolerance class	6g
Material to be processed	Steel, Cast iron

Thread type x nominal diameter	Pitch	Outer diameter	Height	Art. no.	P. Qty.
MF4	0.5 mm	20 mm	5 mm	0652 04 05	1
MF5	0.5 mm	20 mm	5 mm	0652 05 05	1
MF6	0.75 mm	20 mm	7 mm	0652 06 075	1
MF8	1 mm	25 mm	9 mm	0652 8 1	1
MF10	1 mm	30 mm	11 mm	0652 10 1	1
MF10	1.25 mm	30 mm	11 mm	0652 10 125	1
MF12	1 mm	38 mm	10 mm	0652 12 1	1
MF12	1.25 mm	38 mm	10 mm	0652 12 125	1
MF12	1.5 mm	38 mm	10 mm	0652 12 15	1
MF14	1.25 mm	38 mm	10 mm	0652 14 125	1
MF14	1.5 mm	38 mm	10 mm	0652 14 15	1
MF16	1.5 mm	45 mm	14 mm	0652 16 15	1
MF18	1.5 mm	45 mm	14 mm	0652 18 15	1
MF20	1.5 mm	45 mm	14 mm	0652 20 15	1
MF22	1.5 mm	55 mm	16 mm	0652 22 15	1
MF24	1.5 mm	55 mm	16 mm	0652 24 15	1

Thread repair set TIME-SERT®

**42 pcs, complete set for repairing defective threads
M6, M8, M10.**

- Standard metric thread
- Bushings and tools for 3 sizes each with 2 bush lengths

Number of pieces in assortment/set	42 PCS
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Art. no. 0964 961 6

P. Qty.: 1



Contents for art. no. 0964 961 6		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 101 50	1
Thread cutter TIME-SERT® M10	0661 101 51	1
TIME-SERT® screw-in tool M10 x 1.5	0661 101 53	1
Seat cutter TIME-SERT®	0661 102	1
Drill Time-Sert®	0661 610	1
Thread cutter TIME-SERT® M6	0661 611	1
Seat cutter TIME-SERT®	0661 612	1
TIME-SERT® screw-in tool M6 x 1	0661 613	1
Seat cutter TIME-SERT®	0661 812	1

Designation	Art. no.	Quantity
Drill Time-Sert®	0661 812 50	1
Thread cutter TIME-SERT® M8	0661 812 51	1
TIME-SERT® screw-in tool M8 x 1.25	0661 812 53	1
Insert nut TIME-SERT® M10 x 1.5; 14.0 mm	0663 101 514	5
Insert nut TIME-SERT® M10 x 1.5; 20.0 mm	0663 101 520	5
Insert nut TIME-SERT® M6 x 1; 12.0 mm	0663 6 120	5
Insert nut TIME-SERT® M6 x 1; 9.4 mm	0663 6 94	5
Insert nut TIME-SERT® M8 x 1.25; 11.7 mm	0663 812 511	5
Insert nut TIME-SERT® M8 x 1.25; 16.2 mm	0663 812 516	5

TIME-SERT® thread repair assortment

70-piece assortment for perfect thread repair and reinforcement in steel, light metals, non-ferrous base metals, cast metals and hard plastics

- Bushings and tools for standard metric threads M5/M6/M8/M10/M12 each with 2 bushing lengths are included
- Highly resilient thread repair impermeable to media

Number of pieces in assortment/set	70 PCS
Suitable for screw thread	M5-M12



Art. no. 5964 096 171

P. Qty.: 1

ORSY

TIME-SERT® screw-in tool



Design	Thread type x nominal diameter x pitch	Art. no.	P. Qty.
Metric fine thread	M7 x 1	0661 713	1
Metric fine thread	M8 x 1	0661 813	1
Metric fine thread	M9 x 1.25	0661 912 53	1
Metric fine thread	M10 x 1	0661 103	1
Metric fine thread	M10 x 1.25	0661 102 53	1
Metric fine thread	M12 x 1.25	0661 012 152	1
Metric fine thread	M12 x 1.5	0661 121 53	1
Metric fine thread	M14 x 1.25	0661 014 252	1
Metric fine thread	M14 x 1.5	0661 141 54	1
Metric nominal thread	M4 x 0.7	0661 408 3	1
Metric nominal thread	M5 x 0.8	0661 508 3	1
Metric nominal thread	M6 x 1	0661 613	1
Metric nominal thread	M8 x 1.25	0661 812 53	1
Metric nominal thread	M10 x 1.5	0661 101 53	1
Metric nominal thread	M12 x 1.75	0661 121 753	1
Metric nominal thread	M16 x 2	0661 162 3	1

Thread cutter TIME-SERT®

HSS



Design	Suitable for screw thread	Art. no.	P. Qty.
Metric fine thread	M7 x 1	0661 711	1
Metric fine thread	M8 x 1	0661 811	1
Metric fine thread	M9 x 1.25	0661 912 51	1
Metric fine thread	M10 x 1	0661 101	1
Metric fine thread	M10 x 1.25	0661 101 251	1
Metric fine thread	M11 x 1.25	0661 111 251	1
Metric fine thread	M12 x 1.25	0661 012 150	1
Metric fine thread	M12 x 1.5	0661 121 51	1
Metric fine thread	M14 x 1.5	0661 141 53	1
Metric fine thread	M16 x 1.5	0661 161 51	1
Metric fine thread	M18 x 1.5	0661 181 51	1
Metric nominal thread	M4	0661 408 1	1
Metric nominal thread	M5	0661 508 1	1
Metric nominal thread	M6	0661 611	1
Metric nominal thread	M8	0661 812 51	1
Metric nominal thread	M10	0661 101 51	1
Metric nominal thread	M12	0661 121 751	1
Metric nominal thread	M16	0661 162 1	1

UNC threaded bushing TIME-SERT®

For repairing defective threads.

Surface	Zinc phosphated
Material	Steel



Nominal diameter x number of thread starts per inch (My)	Length in inches (L)	Art. no.	P. Qty.
1/2 x 13	0.65 in	0663 201 211	25
1/2 x 13	1 in	0663 201 213	25
1/4 x 20	0.38 in	0663 201 401	25
1/4 x 20	0.5 in	0663 201 403	25
3/8 x 16	0.52 in	0663 203 811	25
3/8 x 16	0.75 in	0663 203 815	25
5/8 x 11	0.85 in	0663 205 911	25
5/16 x 8	0.62 in	0663 205 513	25
5/16 x 18	0.45 in	0663 205 511	25
7/16 x 14	0.6 in	0663 207 711	25
7/16 x 14	0.87 in	0663 207 713	25
9/16 x 12	1.12 in	0663 209 615	25
10 x 24	0.3 in	0663 200 241	25

Tear-out strength

The tear-out strength may vary subject to application (edge areas etc.) and material. As a result, no general information can be provided on this topic. Tests in the Würth laboratory have shown that the Time-Sert thread repairs are equivalent to the original threads in most cases.



Insert nut TIME-SERT®

For repairing defective threads.

- Reliable processing, even with weak walls
- Can also be used in thin-walled materials
- Pressure-sealed for water, oil, other liquids and compressed gases
- Self-locking
- Precise positioning in the workpiece

Surface	Zinc plated
Material	Steel

Thread type x nominal diameter x pitch (My)	Length (L)	Design	Art. no.	P. Qty.
M4 x 0.7	6 mm	Metric nominal thread	0663 4 60	25
M4 x 0.7	8 mm	Metric nominal thread	0663 4 80	25
M5 x 0.8	7.6 mm	Metric nominal thread	0663 5 76	25
M5 x 0.8	10 mm	Metric nominal thread	0663 5 100	25
M6 x 1	9.4 mm	Metric nominal thread	0663 6 94	25/100
M6 x 1	12 mm	Metric nominal thread	0663 6 120	25
M7 x 1	10 mm	Metric fine thread	0663 7 100	25
M7 x 1	14 mm	Metric fine thread	0663 7 140	25
M8 x 1	11.7 mm	Metric fine thread	0663 8 117	25
M8 x 1.25	11.7 mm	Metric nominal thread	0663 812 511	25
M8 x 1.25	16.2 mm	Metric nominal thread	0663 812 516	25
M9 x 1.25	13 mm	Metric fine thread	0663 912 513	25

Thread type x nominal diameter x pitch (My)	Length (L)	Design	Art. no.	P. Qty.
M9 x 1.25	18 mm	Metric fine thread	0663 912 518	25
M10 x 1	6.2 mm	Metric fine thread	0663 101	25
M10 x 1	9 mm	Metric fine thread	0663 101 90	25
M10 x 1	15 mm	Metric fine thread	0663 10 150	25
M10 x 1.25	9 mm	Metric fine thread	0663 101 250	25
M10 x 1.25	15 mm	Metric fine thread	0663 101 251	25
M10 x 1.25	20 mm	Metric fine thread	0663 101 252	25
M10 x 1.5	14 mm	Metric nominal thread	0663 101 514	25
M10 x 1.5	20 mm	Metric nominal thread	0663 101 520	25
M11 x 1.25	22 mm	Metric fine thread	0663 111 122	25
M11 x 1.5	16 mm	Metric fine thread	0663 111 516	25
M11 x 1.5	22 mm	Metric fine thread	0663 111 522	25
M12 x 1.5	6.7 mm	Metric fine thread	0663 121 567	25
M12 x 1.5	9.3 mm	Metric fine thread	0663 121 593	25
M12 x 1.5	16.3 mm	Metric fine thread	0663 121 516	25
M12 x 1.5	24 mm	Metric fine thread	0663 121 524	25
M12 x 1.75	16.2 mm	Metric nominal thread	0663 121 751	25
M12 x 1.75	24 mm	Metric nominal thread	0663 121 752	25
M14 x 1.5	6.5 mm	Metric fine thread	0663 141 565	25
M14 x 1.5	9.3 mm	Metric fine thread	0663 141 593	25
M14 x 1.5	12.8 mm	Metric fine thread	0663 141 512	25
M14 x 1.5	16 mm	Metric fine thread	0663 141 516	25
M14 x 1.5	26 mm	Metric fine thread	0663 141 526	25
M16 x 1.5	12.7 mm	Metric fine thread	0663 161 512	25
M16 x 1.5	24 mm	Metric fine thread	0663 161 524	25
M16 x 2	24 mm	Metric nominal thread	0663 16 240	25
M16 x 2	32 mm	Metric nominal thread	0663 16 320	25
M18 x 1.5	10 mm	Metric fine thread	0663 181 610	25
M18 x 1.5	18.3 mm	Metric fine thread	0663 181 518	25
M18 x 1.5	27 mm	Metric fine thread	0663 181 527	25

Thread repair single set TIME-SERT®

14 pcs For metric threads with bushings and tools.

Number of pieces in assortment/set	14 PCS
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Suitable for screw thread	Art. no.	P. Qty.
M4	0661 4	1
M5	0661 5	1
M6	0661 6	1
M7 x 1	0661 7	1
M8	0661 812 5	1
M8 x 1	0661 8	1
M9 x 1.25	0661 912 5	1

Continuation Thread repair single set TIME-SERT®

Suitable for screw thread	Art. no.	P. Qty.
M10	0661 101 5	1
M10 x 1	0661 10	1
M10 x 1.25	0661 101 25	1
M11 x 1.5	0661 111 5	1
M12	0661 121 75	1
M12 x 1.5	0661 121 5	1
M14 x 1.5	0661 141 59	1
M16	0661 162	1
M16 x 1.5	0661 161 5	1
M18 x 1.5	0661 181 5	1

Contents for art. no. 0661 4		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 408 0	1
Thread cutter TIME-SERT® M4	0661 408 1	1
Seat cutter TIME-SERT® M4	0661 408 2	1
TIME-SERT® screw-in tool M4 x 0.7	0661 408 3	1
Insert nut TIME-SERT® M4 x 0.7; 6.0 mm	0663 4 60	5
Insert nut TIME-SERT® M4 x 0.7; 8.0 mm	0663 4 80	5
Contents for art. no. 0661 5		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 508 0	1
Thread cutter TIME-SERT® M5	0661 508 1	1
Seat cutter TIME-SERT® M5	0661 508 2	1
TIME-SERT® screw-in tool M5 x 0.8	0661 508 3	1
Insert nut TIME-SERT® M5 x 0.8; 10.0 mm	0663 5 100	5
Insert nut TIME-SERT® M5 x 0.8; 7.6 mm	0663 5 76	5
Contents for art. no. 0661 6		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 610	1
Thread cutter TIME-SERT® M6	0661 611	1
Seat cutter TIME-SERT® M6	0661 612	1
TIME-SERT® screw-in tool M6 x 1	0661 613	1
Insert nut TIME-SERT® M6 x 1; 12.0 mm	0663 6 120	5
Insert nut TIME-SERT® M6 x 1; 9.4 mm	0663 6 94	5
Contents for art. no. 0661 7		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 710	1
Thread cutter TIME-SERT® M7 x 1	0661 711	1
Seat cutter TIME-SERT® M7 x 1	0661 712	1
TIME-SERT® screw-in tool M7 x 1	0661 713	1
Insert nut TIME-SERT® M7 x 1; 10.0 mm	0663 7 100	5
Insert nut TIME-SERT® M7 x 1; 14.0 mm	0663 7 140	5

Contents for art. no. 0661 8		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 810	1
Thread cutter TIME-SERT® M8 x 1	0661 811	1
Seat cutter TIME-SERT® M8 x 1	0661 812	1
TIME-SERT® screw-in tool M8 x 1	0661 813	1
Insert nut TIME-SERT® M8 x 1; 11.7 mm	0663 8 117	10
Contents for art. no. 0661 10		
Designation	Art. no.	Quantity
Thread cutter TIME-SERT® M10 x 1	0661 101	1
Drill Time-Sert®	0661 101 0	1
Seat cutter TIME-SERT® M10 x 1.5	0661 102	1
TIME-SERT® screw-in tool M10 x 1	0661 103	1
Insert nut TIME-SERT® M10 x 1; 15.0 mm	0663 10 150	10
Contents for art. no. 0661 101 5		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 101 50	1
Thread cutter TIME-SERT® M10	0661 101 51	1
TIME-SERT® screw-in tool M10 x 1.5	0661 101 53	1
Seat cutter TIME-SERT® M10 x 1.5	0661 102	1
Insert nut TIME-SERT® M10 x 1.5; 14.0 mm	0663 101 514	5
Insert nut TIME-SERT® M10 x 1.5; 20.0 mm	0663 101 520	5
Contents for art. no. 0661 101 25		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 101 250	1
Thread cutter TIME-SERT® M10 x 1.25	0661 101 251	1
Seat cutter TIME-SERT® M10 x 1.5	0661 102	1
TIME-SERT® screw-in tool M10 x 1.25	0661 102 53	1
Insert nut TIME-SERT® M10 x 1.25; 15.0 mm	0663 101 251	5
Insert nut TIME-SERT® M10 x 1.25; 20.0 mm	0663 101 252	5
Contents for art. no. 0661 111 5		
Designation	Art. no.	Quantity
Seat cutter TIME-SERT® M11 x 1.5		1
Drill Time-Sert®		1
Thread cutter TIME-SERT® M11 x 1.5		1
TIME-SERT® screw-in tool M11 x 1.5		1
Insert nut TIME-SERT® M11 x 1.5; 16.0 mm	0663 111 516	5
Insert nut TIME-SERT® M11 x 1.5; 22.0 mm	0663 111 522	5
Contents for art. no. 0661 121 5		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 121 50	1
Thread cutter TIME-SERT® M12 x 1.5	0661 121 51	1
Seat cutter TIME-SERT® M12 x 1.5	0661 121 52	1
TIME-SERT® screw-in tool M12 x 1.5	0661 121 53	1
Insert nut TIME-SERT® M12 x 1.5; 16.3 mm	0663 121 516	5
Insert nut TIME-SERT® M12 x 1.5; 24.0 mm	0663 121 524	5

Continuation Thread repair single set TIME-SERT®

Contents for art. no. 0661 121 75		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 121 750	1
Thread cutter TIME-SERT® M12	0661 121 751	1
Seat cutter TIME-SERT® M12	0661 121 752	1
TIME-SERT® screw-in tool M12 x 1.75	0661 121 753	1
Insert nut TIME-SERT® M12 x 1.75; 16.2 mm	0663 121 751	5
Insert nut TIME-SERT® M12 x 1.75; 24.0 mm	0663 121 752	5
Contents for art. no. 0661 141 59		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 141 51	1
Seat cutter TIME-SERT® M14 x 1.5	0661 141 52	1
Thread cutter TIME-SERT® M14 x 1.5	0661 141 53	1
TIME-SERT® screw-in tool M14 x 1.5	0661 141 54	1
Insert nut TIME-SERT® M14 x 1.5; 16.0 mm	0663 141 516	5
Insert nut TIME-SERT® M14 x 1.5; 26.0 mm	0663 141 526	5
Contents for art. no. 0661 161 5		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 161 50	1
Thread cutter TIME-SERT® M16 x 1.5	0661 161 51	1
Seat cutter TIME-SERT® M16 x 1.5		1
TIME-SERT® screw-in tool M16 x 1.5		1
Insert nut TIME-SERT® M16 x 1.5; 12.7 mm	0663 161 512	5
Insert nut TIME-SERT® M16 x 1.5; 24.0 mm	0663 161 524	5
Contents for art. no. 0661 162		
Designation	Art. no.	Quantity
Drill Time-Sert®	0661 162 0	1
Thread cutter TIME-SERT® M16	0661 162 1	1
Seat cutter TIME-SERT® M16	0661 162 2	1
TIME-SERT® screw-in tool M16 x 2	0661 162 3	1
Insert nut TIME-SERT® M16 x 2; 24.0 mm	0663 16 240	5
Insert nut TIME-SERT® M16 x 2; 32.0 mm	0663 16 320	5
Contents for art. no. 0661 181 5		
Designation	Art. no.	Quantity
Drill Time-Sert®		1
Thread cutter TIME-SERT® M18 x 1.5	0661 181 51	1
Seat cutter TIME-SERT® M18 x 1.5		1
TIME-SERT® screw-in tool M18 x 1.5		1
Insert nut TIME-SERT® M18 x 1.5; 18.3 mm	0663 181 518	5
Insert nut TIME-SERT® M18 x 1.5; 27.0 mm	0663 181 527	5
Contents for art. no. 0661 812 5		
Designation	Art. no.	Quantity
Seat cutter TIME-SERT® M8 x 1	0661 812	1
Drill Time-Sert®	0661 812 50	1
Thread cutter TIME-SERT® M8	0661 812 51	1

Designation	Art. no.	Quantity
TIME-SERT® screw-in tool M8 x 1.25	0661 812 53	1
Insert nut TIME-SERT® M8 x 1.25; 11.7 mm	0663 812 511	5
Insert nut TIME-SERT® M8 x 1.25; 16.2 mm	0663 812 516	5
Contents for art. no. 0661 912 5		
Designation	Art. no.	Quantity
Seat cutter TIME-SERT® M9 x 1.25		1
Drill Time-Sert®	0661 912 50	1
Thread cutter TIME-SERT® M9 x 1.25	0661 912 51	1
TIME-SERT® screw-in tool M9 x 1.25	0661 912 53	1
Insert nut TIME-SERT® M9 x 1.25; 13.0 mm	0663 912 513	5
Insert nut TIME-SERT® M9 x 1.25; 18.0 mm	0663 912 518	5

Seat cutter TIME-SERT®



Design	Suitable for screw thread	Art. no.	P. Qty.
Metric fine thread	M7 x 1	0661 712	1
Metric fine thread	M8 x 1	0661 812	1
Metric fine thread	M10 x 1.5	0661 102	1
Metric fine thread	M12 x 1.5	0661 121 52	1
Metric fine thread	M14 x 1.5	0661 141 52	1
Metric nominal thread	M4	0661 408 2	1
Metric nominal thread	M5	0661 508 2	1
Metric nominal thread	M6	0661 612	1
Metric nominal thread	M12	0661 121 752	1
Metric nominal thread	M16	0661 162 2	1

Threaded bushing for car spark plug repairs TIME-SERT®

For flat or conical sealing seat

- Reliable processing, even with weak walls
- Can also be used in thin-walled materials
- Media-tight
- Self-locking
- Precise positioning in the workpiece



Material	Steel
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Thread type x nominal diameter x pitch (My)	Length (L)	Design	Surface	Art. no.	P. Qty.
M10 x 1	9 mm	For flat seal	Copper plated	0662 101 09	25
M10 x 1	15 mm	For flat seal	Copper plated	0662 101 015	25
M12 x 1.25	9 mm	For flat seal	Copper plated	0662 121 250	25
M12 x 1.25	15 mm	For flat seal	Copper plated	0662 121 251	25
M14 x 1.25	7 mm	For flat seal	Copper plated	0662 141 250	25

Continuation Threaded bushing for car spark plug repairs

TIME-SERT®

Thread type x nominal diameter x pitch (My)	Length (L)	Design	Surface	Art. no.	P. Qty.
M14 x 1.25	8 mm	For flat seal	Copper plated	0662 141 251	25
M14 x 1.25	9.4 mm	For flat seal	Copper plated	0662 141 252	25
M14 x 1.25	11 mm	For flat seal	Copper plated	0662 141 253	25
M14 x 1.25	15 mm	For flat seal	Copper plated	0662 141 254	25
M14 x 1.25	15.8 mm	For cone seal	Silver plated	0662 914 125	25
M14 x 1.25	16.8 mm	For flat seal	Copper plated	0662 141 255	25

Spark plug repair set M12 x 1.25 TIME-SERT®

15 pieces, for flat sealing seat

High thermal conductivity

Copper or silver coating

Compression sealed, cannot be removed

Bushings are pressed in with the workpiece.

Thread type	Metric fine thread
Nominal diameter	12 mm
Pitch	1.25 mm
Number of pieces in assortment/set	15 PCS



Art. no. 0661 012 125

P. Qty.: 1

Contents for art. no. 0661 012 125

Designation	Art. no.	Quantity
Thread cutter TIME-SERT®	0661 012 150	1
Seat cutter for spark-plug thread M12 x 1.25	0661 012 151	1
TIME-SERT® screw-in tool M12 x 1.25	0661 012 152	1
Threaded bushing for car spark plug repairs TIME-SERT® M12 x 1.25; 9 mm	0662 121 250	5
Threaded bushing for car spark plug repairs TIME-SERT® M12 x 1.25; 15 mm	0662 121 251	5

Screw-in tool, self-tapping

Use

Type E is intended for smaller quantities that can be screwed in manually.



Type	E
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Thread type x nominal diameter	Art. no.	P. Qty.
M3	0660 300 006	1
M4	0660 300 008	1
M5	0660 300 010	1
M6	0660 300 011	1
M8	0660 300 012	1

Thread type x nominal diameter	Art. no.	P. Qty.
M10	0660 300 013	1
M12	0660 300 014	1
M14	0660 300 015	1
M16	0660 300 016	1

Tool size according to female thread of the bushing.

Die assortment HSCo multi-performance M3–M12 for standard metric ISO threads

7 pieces HSCo high performance, nitrated die for the manufacture and repair of standard metric ISO threads according to DIN 13 with cordless drill screwdrivers or manually in the die holder in almost all materials, such as steel up to 1400 N/mm² strength, stainless steel, cast iron and non-ferrous metals (e.g. aluminium, aluminium alloys and magnesium alloys).

- Flexible use with cordless drill screwdrivers and on the lathe
- Economic manual use
- Up to three times longer service life and excellent chip removal



Number of pieces in assortment/set	7 PCS
Material	High-speed steel with 5% cobalt content



Art. no. 0652 556 001

P. Qty.: 1

Contents for art. no. 0652 556 001		
Designation	Art. no.	Quantity
Die for standard metric ISO thread HSCo multi performance 3 mm	0652 556 030	1
Die for standard metric ISO thread HSCo multi performance 4 mm	0652 556 040	1
Die for standard metric ISO thread HSCo multi performance 5 mm	0652 556 050	1
Die for standard metric ISO thread HSCo multi performance 6 mm	0652 556 060	1
Die for standard metric ISO thread HSCo multi performance 8 mm	0652 556 080	1
Die for standard metric ISO thread HSCo multi performance 10 mm	0652 556 100	1
Die for standard metric ISO thread HSCo multi performance 12 mm	0652 556 120	1

Die assortment HSS Performance M3–M12 for standard metric ISO threads

7 pieces. HSS high-performance, nitrated die for the manufacture and repair of standard metric ISO threads according to DIN 13 with cordless drill screwdrivers or manually in the die holder in steel up to 900 N/mm² strength, cast iron and non-ferrous metals (e.g. aluminium, aluminium alloys and magnesium alloys)



- Flexible use with cordless drill screwdrivers and on the lathe
- Economic manual use
- Outstanding performance



Number of pieces in assortment/set	7 PCS
Material	HSS

Art. no. 0652 536 001

P. Qty.: 1

Extension

For screw taps and reamers

- DIN 377
- Square in accordance with DIN 10
- Square internally and externally, hardened
- Extension has same square dimensions both internally and externally



Suitable for	Length	Art. no.	P. Qty.
Screw tap M4 square 3.4 mm	95 mm	0658 34	1
Screw tap M5 - M8 square 4.9 mm	110 mm	0658 49	1
Screw tap M9 - M10 square 5.5 mm	115 mm	0658 55	1
Screw tap M12 square 7 mm	125 mm	0658 7	1
Screw tap M14 - M16 square 9 mm	135 mm	0658 9	1



Electrode manual welding inverter ESI 160

Digital electrode welding inverter. Your entry level device for all e-hand applications.

- MicorBoost technology facilitates the welding of all electrodes, including cellulose
- Switchable to TIG welding with ContacTIG ignition
- Optimal for assembly application thanks to IP23 and S sign

Marking: CE, S

Nominal voltage	230 V/AC
Weldable electrodes	1.5 - 4 mm
Weldable TIG welding rods	1 - 2.4 mm
Min./max. electrode welding current	10-150 A
Min./max. TIG welding current	15-160 A
ON time at max. current (40°C)	30 %
Welding current at ED 100%	110 A
Welding current at ED 60%	120 A
Weldable material thickness	Steel up to 10 mm, TIG welding steel/stainless steel 1 - 6 mm, Copper 1 - 3 mm
Product weight (per item)	11824 g
Height	211 mm
Width	130 mm
Length	337 mm
IP protection class	IP 23

Art. no. 5952 000 162

P. Qty.: 1

Electrode manual welding inverter ESI 200

Small, powerful electrode welding inverter for all power jobs

- MicorBoost technology facilitates the welding of all electrodes, including cellulose
- Simple switching to electrode types
- 80 cm drop safety (min. 25 cm according to standard)
- Switchable to TIG welding with ContacTIG ignition
- Smooth and uniform arc (arc force regulation)
- No sticking of electrode (anti-stick system)
- Hot start
- Power supply (400 V) or generator - optimal welding properties, including with long wires or in the case of mains voltage fluctuations.
- Light and compact (5.5 kg at 200 A (30% ED))
- Optimal for assembly application thanks to IP23 and S sign



Nominal voltage	400 V/AC
Min./max. current	10-200 A
Weldable electrodes	1.5 - 5 mm
Weldable TIG welding rods	1 - 3.2 mm
Min./max. electrode welding current	10-200 A
Min./max. TIG welding current	15-200 A
ON time at max. current (40°C)	30 %
Welding current at ED 100%	130 A
Welding current at ED 60%	150 A
Weldable material thickness	Steel up to 10 mm, Steel/stainless steel 1-8 mm, Copper 1 - 3 mm
Product weight (per item)	6 kg
Height	211 mm
Width	130 mm
Length	337 mm
IP protection class	IP 23

Art. no. 5952 000 202

P. Qty.: 1

Marking: CE, S

- Arc force: Increases the arc voltage in critical situations. Prevents slag from running into the molten bath and extinguishing the arc. As a result, even difficult-to-weld electrodes can be processed.
- Hot Start: Ensures reliable ignition of the electrode. The hot start energy is automatically adjusted to the selected welding current.
- Anti-stick: Prevents the electrode from sticking to the work piece by automatically reducing the current. As a result, the electrode does not glow out and evaporation of alloy elements is prevented.

Spare part documentation in accordance with (EU) 2019/1784 – Requirements for the ecological design of welding systems. The relevant documentation is stored in the Würth Parts Manager (<https://pm.wuerth.com/index.php>). For further questions, please contact the appropriate sales representative or product and application.

TIG welding system 180DC

The compact professional device, extremely easy to control and preset welding parameters facilitate your professional introduction into TIG welding.

- Touch-free HF ignition possible via push button, switchable to conventional contact ignition
- Switchable to electrode welding
- Tungsten electrode and seam are optimally protected against oxidation thanks to automatic gas management
- Fan standby function, modern performance electronics
- Two welding jobs per electrode and TIG can be stored
- Special coating of PCB
- Light and compact (6.5 kg at 180 A (30% ED))
- Optimal for assembly application thanks to IP23 and S sign
- 80 cm drop safety (min. 25 cm according to standard)



Nominal voltage	230 V/AC
Weldable electrodes	1.5 - 4 mm
Weldable TIG welding rods	1 - 3.2 mm
Min./max. electrode welding current	10-150 A
Min./max. TIG welding current	15-180 A
ON time at max. current (40°C)	30 %
Welding current at ED 100%	130 A
Welding current at ED 60%	150 A
Weldable material thickness	Copper 1 - 3 mm, Steel up to 10 mm, TIG welding steel/stainless steel 1 - 6 mm
Product weight (per item)	16700 g
Height	211 mm
Width	130 mm
Length	337 mm
IP protection class	IP 23

Art. no. 5952 000 182

P. Qty.: 1

Marking: CE, S

- Arc force: Increases the arc voltage in critical situations. Prevents slag from running into the molten bath and extinguishing the arc. As a result, even difficult-to-weld electrodes can be processed.
- Hot Start: Ensures reliable ignition of the electrode. The hot start energy is automatically adjusted to the selected welding current.
- Anti-stick: Prevents the electrode from sticking to the work piece by automatically reducing the current. As a result, the electrode does not glow out and evaporation of alloy elements is prevented.

Spare part documentation in accordance with (EU) 2019/1784 – Requirements for the ecological design of welding systems. The relevant documentation is stored in the Würth Parts Manager (<https://pm.wuerth.com/index.php>). For further questions, please contact the appropriate sales representative or product and application.

WIG welding system 180 AC/DC

Easy to operate WIG full professional system. Whether on a construction site or in the workshop, you enjoy the full convenience of the system.



- Aluminium welding also possible with AC/DC
- Touch-free HF ignition possible via push button, switchable to conventional contact ignition
- Switchable to electrode welding
- Tungsten electrode and seam are optimally protected against oxidation thanks to automatic gas management
- Fan standby function, modern performance electronics
- Two welding jobs per electrode and TIG can be stored
- Special coating of PCB
- Light and compact (13.3 kg at 180 A (35% ED))
- Optimal for assembly application thanks to IP23 and S sign
- 60 cm drop safety (min. 25 cm according to standard)

Nominal voltage	230 V/AC
Weldable electrodes	1.5 - 4 mm
Weldable TIG welding rods	1 - 3.2 mm
Min./max. electrode welding current	10-150 A
Min./max. TIG welding current	3-180 A
ON time at max. current (40°C)	35 %
Welding current at ED 100%	130 A
Welding current at ED 60%	150 A
Weldable material thickness	Aluminium 1 - 5 mm, Copper 1 - 3 mm, Steel up to 10 mm, Steel/stainless steel 1-8 mm
Product weight (per item)	13.3 kg
Height	390 mm
Width	191 mm
Length	493 mm
IP protection class	IP 23

Art. no. 5952 000 181

P. Qty.: 1

Marking: CE, S

Spare part documentation in accordance with (EU) 2019/1784 – Requirements for the ecological design of welding systems. The relevant documentation is stored in the Würth Parts Manager (<https://pm.wuerth.com/index.php>). For further questions, please contact the appropriate sales representative or product and application.



MIG/MAG welding system MM 230

Welding system with 2-roller wire feed unit for welding aluminium, steel and stainless steel welding wire.

- Adjustable switching mechanism using step switch with 7 levels
- Automatic control of welding current, post-purge gas flow and spot welding time
- Wire feed automatically adjusts to the selected level

Nominal voltage	400 V/AC
Weldable wires	Aluminium, diameter 1 - 1.2 mm, Steel, diameter 0.6-1 mm
Min./max. current	30-230 A
ON time at max. current (40°C)	20 %
Cable length	3 m
Weight of machine	66 kg
Equipped wire diameter	1 mm
Wire feed roll for stainless steel	1 mm
Wire feed roll for steel	0.8 mm

Art. no. 0702 352 0

P. Qty.: 1

MIG/MAG welding system MM 350

Welding system with 4-roller wire feed unit for welding aluminium, steel and stainless steel welding wire

- Finely-adjustable switching mechanism using 2 x 12 level coarse/fine switches
- Overload protection
- Can be used for long periods thanks to fan cooling
- Automatic control of welding current, post-purge gas flow and spot welding time
- Wire feed automatically adjusts to the selected settings
- Can be switched between 2/4-cycle spot welding



Nominal voltage	400 V/AC
Weldable wires	Aluminium, diameter 0.8 - 1.6 mm, Steel/stainless steel, diameter 1 - 1.6 mm
Min./max. current	25-350 A
ON time at max. current (40°C)	30 %
Cable length	5 m
Weight of machine	104 kg
Equipped wire diameter	1 mm
Width	390 mm
Height	690 mm
Length	830 mm
Main fuse	25A

Art. no. 5952 352 350

P. Qty.: 1

Standard value for flow rate in l/min: Wire dia. x 10 = l/min

A conversion of PTFE seams on the hose pack is required for processing aluminium and stainless steel welding wires

- Aluminium torch set 098430005
- Stainless steel torch set 098430006
- Stainless steel torch set 098430007

Spare part documentation in accordance with (EU) 2019/1784 – Requirements for the ecological design of welding systems. The relevant documentation is stored in the Würth Parts Manager (<https://pm.wuerth.com/index.php>). For further questions, please contact the appropriate sales representative or product and application.

Oxyacetylene high-pressure hose

Fabricated with grommets and union nuts

9 x 3.5 + 6 x 5 mm



Length	Art. no.	P. Qty.
5 m	0984 017 905	1
10 m	0984 017 910	1

Butane gas

High-quality butane gas for re-filling gas soldering units, lighters etc.

For refilling the WGLG 100 mains-independent gas soldering device, as well as all other applications that can be refilled with universal gas (lighters, etc.)

Contents	100 ml
Colour	Colourless
Smell/fragrance	Odourless
Chemical basis	Butane
Shelf life from production	24 Month



Art. no. 0893 250 001

P. Qty.: 1/24

Aerosols, category 1

Continuous soldering tip

Long-life, internally heated continuous soldering tip

- Base material of highly heat-conductive electrolyte copper
- Chrome coating prevents corrosion and the acceptance of solder in undesirable places



Material	Product weight (per item)	Art. no.	P. Qty.
Electrolytic copper	2 g	0715 94 02	3
Electrolytic copper	5.5 g	0715 94 16	2
Electrolytic copper	6 g	0715 94 15	2
Electrolytic copper	6.5 g	0715 94 14	2
Electrolytic copper	6.5 g	0715 94 17	2
Electrolytic copper	7 g	0715 94 18	2
Electrolytic copper	18 g	0715 94 19	2

Pressure regulator

With integrated hose-break prevention

- Used specifically in welding work
- Continuously adjustable from 1.0–4.0 bar
- Rotatable connection prevents hose twisting
- Connection: DIN/combination x R 3/8 inch left
- Flow: 12 kg/h



Connection thread	DIN/Combi x ET R 3/8 inch
Gas consumption per hour	12 kg

Art. no. 0984 898 2

P. Qty.: 1

Electronic solder no. 1

Low soldering temperature due to fast-flowing solder

- Flux residues may have a corrosive action
- Active soft-soldering wire containing halogen



Wire diameter	Weight of content	Art. no.	P. Qty.
1 mm	1 kg	0987 112	1/10
1 mm	250 g	0987 111	1/20
1.5 mm	1 kg	0987 114	1/10
1.5 mm	250 g	0987 113	1/20

S-Sn60Pb40 in accordance with DIN EN ISO 9453. Flux in accordance with DIN EN 29454-1/1.1.2.B

Electric soldering iron

With nickel-plated copper tip and Schuko plug for fine soldering work

Nominal voltage	230 V/AC
Frequency	50 Hz
Heat-up time	1.5 min
Material of the grip handle	Plastic
Cable length	1.5 m



Power rating	Soldering-tip temperature	Art. no.	P. Qty.
15 W	370 °C	0715 940 03	1
30 W	410 °C	0715 940 04	1

Electronic solder no. 10

Ideally suited for PCBs

- S-Sn60Pb40 in accordance with DIN EN ISO 9453
- Flux compliant with DIN EN 29454-1/1.1.3.B
- Processing temperature: 240-260 °C
- Melting range: 183-190 °C
- Flux residues do not have a corrosive action
- Low soldering temperature due to fast-flowing flux
- Halogen-free active soft soldering wire



Wire diameter	Weight of content	Art. no.	P. Qty.
0.7 mm	250 g	0987 105	1/20
1 mm	1 kg	0987 108	1/10
1 mm	250 g	0987 107	1/20
1.5 mm	1 kg	0987 109 0	1/10

Wire diameter	Weight of content	Art. no.	P. Qty.
1.5 mm	250 g	0987 109	1/20
2 mm	1 kg	0987 110 1	1/10
2 mm	250 g	0987 110 0	1/20

Fitting solder no. 3

- S-Sn97Cu3 in accordance with DIN EN ISO 9453
- Processing temperature: 270-300 °C
- Melting range: 230-250 °C

Spool diameter	44 mm
Weight of content	250 g
Min./max. melting temperature	230 to 250 °C



Wire diameter	Art. no.	P. Qty.
2 mm	0987 132	1/20
3 mm	0987 13	1/20

Bottle Pressure Reducer

In accordance with DIN EN ISO 2503

Shielding gas	Oxygen
Manometer display	10/16 bar
Hose connection diameter	1/4 in
Working pressure	200 bar
Product weight (per item)	1339 g



Art. no. 0984 018 01

P. Qty.: 1

Flow rate is regulated on shut-off valve.

Replacement cartridge for Turbojet soldering gun

Disposable gas cartridge with self-closing valve

Weight of content	210 g
Chemical basis	Butane/propane/acetone

Art. no. 0984 900 12

P. Qty.: 4



Replacement cartridge for Powerjet soldering gun

Disposable gas cartridge with self-closing valve

Weight of content	175 g
Chemical basis	Butane/propane

Art. no. 0984 900 02

P. Qty.: 3/12



Welding Outfit Back-Pressure Valve

For connection to pressure reducer model GVX 10

Oxygen:

- P1 = 5 bar
- P2 = 3.5 bar
- = 24 m³/h throughput

Combustible gas:

- P1 = 1.5 bar
- P2 = 0.9 bar
- = 6.5 m³/h throughput



Shielding gas	Type description	Hose connection diameter	Art. no.	P. Qty.
All-gas	GVA 10	3/8 in	0984 017 930	1
Oxygen	GVO 10	1/4 in	0984 017 920	1

Welding outfit back pressure valves must be tested annually by law, in accordance with BGV D1, § 49

Hard and soft soldering set

In wooden case, with ergonomic Piezo handle

- Easy to use in all positions
- Bayonet mount: Change burner without tools
- Easy, continuous flame regulation
- Gas supply is stopped if no burner is mounted
- Gas supply only when button is pressed
- Piezo ignition in seconds
- With refillable small gas bottle
- Stable wooden case reinforced on all sides with steel angle pieces



Scope of delivery

- Piezo handle
- Pointed burner Ø 9 mm
- Turbo cyclone torch Ø 18 mm
- Small gas bottle with base, valve and hook, 425 g
- Pressure regulator 2 bar fixed setting R 3/8" left-hand thread x R 3/8" left-hand thread
- 2 open-end spanner 17 x 19
- Hose set 2 m
- Wooden case

Art. no. 0984 8

P. Qty.: 1

Small gas bottle is supplied unfilled.

Brazing solder no. 15

DIN EN 1044, ISO 3677, B-Cu80AgP

- For brazing of copper pipes in refrigeration and air-conditioning technology
- Working temperature: 710°C
- Melting range: 650-800°C



Wire diameter x length	2 x 500 mm
Weight of content	1 kg
Min./max. melting temperature	650 to 800 °C
Product weight (per item)	1048 g

Art. no. 0987 515

P. Qty.: 1

Does not contain flux.

Copper brazing solder no. 94

DIN EN 1044, ISO 3677, B-Cu94P

- For the flux-free soldering of copper/copper connections in oil, gas and liquid gas installations and in heating and drinking water installations with pipe dimensions greater than 28 x 1.5 mm. When soldering brass or red bronze, an additional flux must be used.
- Working temperature: 730°C
- Melting range: 710-880°C



Weight of content	1 kg
Min./max. melting temperature	710 to 880 °C

Wire diameter x length	Product weight (per item)	Art. no.	P. Qty.
2 x 500 mm	1053 g	0987 594	1
3 x 500 mm	1030 g	0987 594 3	1

Solder does not contain flux.

Soldering gun Powerjet

Supplied in a metal case

- Piezo ignition
- Adjustable gas supply
- Button lock for continuous operation
- Simple torch replacement due to bayonet quick-release lock
- Automatic lock for gas supply when no torch is fitted



Power rating	0.9 kW
Working pressure	1 bar
Gas consumption per hour	70 g

Art. no. 0984 900 01

P. Qty.: 1

Contents for art. no. 0984 900 01		
Designation	Art. no.	Quantity
Spare parts, hand tools, others Handgriff Powerjet		1
Replacement cartridge for Powerjet soldering gun	0984 900 02	1
Standard burner for Powerjet soldering gun	0984 900 5	1

Soldering gun assortment Turbojet

5 pieces in system case 8.4.2

- Start/stop function for maximum safety and comfort
- Bayonet quick-action fastener
- Precise flame regulation
- Works in all positions (including overhead)

System dimensions	8.4.2
Power rating	2.2 kW



Working pressure	2 bar
Gas consumption per hour	165 g



Art. no. 5964 098 490

P. Qty.: 1

Soldering tip for WGLG 100 self-igniting gas soldering unit



Form	Product weight (per item)	Art. no.	P. Qty.
Chisel type	0.006 kg	0984 990 120	3
Conical	4.666 g	0984 990 110	3

Analogue soldering station

60 watt

- Electronic temperature-controlled soldering station
- Ergonomically designed soldering iron
- Equipotential bonding liner (high-resistance connected to soldering tip) for component safety
- Multifunctional storage stand with swivelling sponge holder for right and left-handers
- Fully insulated
- Highly flexible, heat-resistant soldering-iron connection cable (1.5 m)
- Supply voltage 230 V AC, 50–60 Hz
- Soldering iron 24 V AC



Power rating	60 W
Min./max. soldering-tip temperature	150 to 450 °C
Heat-up time	60 s
Max. frequency	60 Hz

Art. no. 0715 94 50

P. Qty.: 1



Soldering fluid brush

For soldering fluid no. 41

Width	12 mm
Length	130 mm



Art. no. 0987 141 0

P. Qty.: 3

MIG/MAG hose pack MB 15 AK

Air-cooled, with Bikox hose pack and KZ-2 central connector

- Ideal for all apparatus, vehicle, machine and steel construction
- Original Bikox hose package is highly flexible, compact, robust and has a long service life
- The hose pack has a central connection system, also called „Euro connection“
- Load: 180 A CO₂; 150 A mixed gas M21 in accordance with EN 439, 60% switch-on time



Scope of delivery:

One each of push button, torch neck, gas nozzle holder, contact nozzle Ø 0.8 mm, aluminium wire contact nozzle 1 mm, conical gas nozzle, cylindrical gas nozzle, spot gas nozzle, retaining spring

Suitable for min./max. wire diameter	0.6-1 mm
--------------------------------------	----------

Hose length	Art. no.	P. Qty.
3 m	0984 160 130	1
4 m	0984 160 140	1

The individual parts of the MB 15 also fit in models of the same design; use the dimensioned drawings as a comparison.

MIG/MAG hose pack MB 25 AK

Air-cooled, with Bikox hose pack and KZ-2 central connector

- Ideal for all apparatus, vehicle, machine and steel construction
- Original Bikox hose package is highly flexible, compact, robust and has a long service life
- The hose pack has a central connection system, also called „Euro connection“
- Load: 230 A CO₂; 200 A mixed gas M 21 in accordance with EN 439, 60% switch-on time



Scope of delivery:

One each of push button, torch neck, nozzle block, contact nozzle Ø 0.8 mm, aluminium wire contact nozzle 1.2 mm, conical gas nozzle, cylindrical gas nozzle, spot gas nozzle, retaining spring

Suitable for min./max. wire diameter	0.8-1.2 mm
--------------------------------------	------------

Hose length	Art. no.	P. Qty.
3 m	0984 260 130	1
4 m	0984 260 140	1

Piezo handle

With suspension hook and storage studs on the side

- Hose connection with left-handed thread R 3/8"
- Operating pressure 1–4 bar

Max. working pressure	4 bar
Connection thread	R 3/8 inch
Product weight (per item)	257 g



Art. no. 0984 80

P. Qty.: 1

Professional pre-heating set for propane

The professional heating burner set consists of a powerful weld torch, a construction-grade propane hose and a fixed 4-bar pressure regulator (DIN combi bottle connection) with hose break protection.

Included in delivery

- Propane handle
- Low-pressure regulator with combi-connection
- Connection pipe 600 mm
- Cutting head 60 mm
- Storage device
- HP hose 3/8" LH at both ends x 5000 mm
- Hose-break protection 12 kg/h



Art. no. 0984 898 50

P. Qty.: 1

Propane soldering set

Ideal for roof and plumbing work, for soft soldering of eaves, gutters, flashings etc.

- Robust soldering iron with wooden handle
- Very handy, ease to use, low weight
- Easy, continuous flame regulation

Art. no. 0984 88

P. Qty.: 1

Small gas bottle is supplied unfilled.



High-Pressure Hose Line

For welding burners

- Max. pressure: 4 bar
- PB 30 – 6.3 x 5
- In accordance with DIN 4815 – rubber with fabric insert
- Connections: Left-handed thread R 3/8" x left-handed thread R 3/8".



Length	Art. no.	P. Qty.
5 m	0984 898 05	1
10 m	0984 898 10	1

Shielding-Gas Welding Wire Stainless steel

For MIG welding of stainless steel according to DIN 8556

Layer-coiled	Yes
Weight	15 kg
Type of coil	Basket coil
Material	Stainless steel, 1.4430 X2CrNiMo19-13
Standards	DIN 8556
Min. longitudinal elongation	30 %
Min. elasticity limit (Rp 0.2 value)	350 N/mm ²
Min. tensile strength	600 N/mm ²
Shielding gas	Argon



Wire diameter (Ø)	Art. no.	P. Qty.
0.8 mm	0982 030 08	15
1 mm	0982 030 10	15
1.2 mm	0982 030 12	15

With wet corrosion:

- Highest operating temperature +400°C
- Heat and scale resistant to approx. +800°C

Welding wire Steel SG 2

For MIG welding of steel

Layer-coiled	Yes
Weight	15 kg
Type of coil	Basket coil
Material	Low alloy steel, 1.5125, 11MnSi6
Surface	Copper plated
Standards	EN 440 DIN 8559
Type description	G 3 Si 1/SG 2

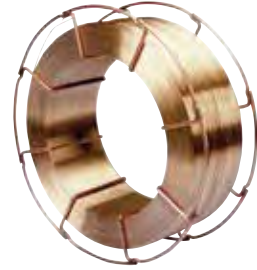


Wire diameter (Ø)	Max. nominal current	Min. nominal current	Art. no.	P. Qty.
0.8 mm	120 A	70 A	0982 008 01	15
1 mm	180 A	120 A	0982 010 01	15
1.2 mm	300 A	170 A	0982 012 01	15

Welding wire Steel SG 3

For welding of steel according to DIN 8559 (SG 3) / EN 440 (G 4 Si1)

Layer-coiled	Yes
Weight	15 kg
Type of coil	Basket coil
Material	Low alloy steel, 1.5130, 10MnSi7
Surface	Copper plated
Standards	EN 440 DIN 8559
Type description	G 4 Si 1/SG 3
Shielding gas	Argon/CO2



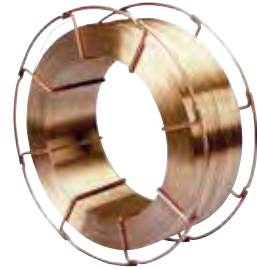
Wire diameter (Ø)	Art. no.	P. Qty.
0.8 mm	0982 008 013	15
1 mm	0982 010 013	15
1.2 mm	0982 012 013	15

MIG welding wire

For MIG/MAG welding

- Chrome alloyed solid wire electrodes for wear-resistant coatings in case of combined rubbing wear and impact stress.
- Processing with clamp tension only in annealed state, otherwise sanding only.
- For excavator teeth and blades, coatings for wearing parts made of high-manganese steel in case of abrasion, augers, hammer drill tools, cutting tools for cold work, rolls, cams, impact plates etc.

Layer-coiled	Yes
Weight	15 kg
Type of coil	Basket coil
Standards	EN 440 DIN 8559



Wire diameter (Ø)	Art. no.	P. Qty.
0.8 mm	0982 088	15
1 mm	0982 090	15

Inert gas welding wire

For MIG soldering

- Connection welding of copper, copper-silicon and copper-zinc alloys
- Decreased spatter
- Minimal pore formation



Layer-coiled	Yes
Weight	15 kg
Type of coil	Basket coil
Standards	DIN 1733

Wire diameter (Ø)	Material	Art. no.	P. Qty.
0.8 mm	Steel	0982 050 08	15
1 mm		0982 050 10	15

Welding and cutting torch set

For acetylene/oxygen

- Shank Ø 17 mm
- Set in steel sheet box

Art. no. 0984 017

P. Qty.: 1



* 9–14 mm welding attachments and 40–100 mm cutting nozzles are not included, but can be ordered as accessories.

Welding spray Perfect

Biological welding protection spray for aluminium, structural steel, non-ferrous base metals, stainless steels and welding torch nozzles.

- Prevents the burning-on of weld splatter on metals, VA materials and on welding torch nozzles.
- Weld spray residues are easy to remove
- Harmless when subsequently zinc-plating and painting
- Corrosion protection

Contents	400 ml
Colour	White
Container	Aerosol can
Chemical basis	Rapeseed oil emulsion
Shelf life from production	24 Month



Art. no. 0893 102 100

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Release agents must always be applied sparingly. This is necessary to prevent the possibility of pores forming in the welded material or hydrogen-induced cracks occurring in sensitive steels under critical stresses.

Before galvanizing, thoroughly clean the work pieces using a hot water high-pressure cleaner or solvent-containing degreaser.

Welding spray Plus

Biological welding protection spray for aluminium, structural steel, non-ferrous metals, stainless steel

- Prevents burning-on of weld splatter on metals, VA materials and on welding torch nozzles
- Cooling effect
- Weld spray residues are easy to remove
- Silicone-free
- Solvent-free

Free from CHCs and other solvents



Colour	Colourless
Container	Canister
Chemical basis	Water tenside
Shelf life from production	12 Month

Contents	Art. no.	P. Qty.
5 l	0893 102 005	1
20 l	0893 102 020	1

Please consider the legal instruction at the beginning of this chapter.

Release agents must always be applied sparingly. This is necessary to prevent the possibility of pores forming in the welded material or hydrogen-induced cracks occurring in sensitive steel under critical stresses.

Before galvanising, welding spray residues on the workpieces must be thoroughly removed with high-power assembly cleaner or a high-pressure cleaner.

Self-igniting gas soldering unit WGLG 100

A handy all-rounder: can be used as a soldering iron or a hot-air gun

- Convenient piezo ignition
- Continuously adjustable power level
- Includes protective cap
- Includes accessories

Min./max. power	30-100 W
Gas intake capacity	20 ml
Length x width x height	235 x 30 x 35 mm
Colour	Black



Art. no. 0984 990 100

P. Qty.: 1

Supplied unfilled (without gas)

Soft felt pad

For ICSS 300-P cleaning device



Design	Angle	Art. no.	P. Qty.
Narrow	60 Degree	0984 800 006	10
Narrow	90 Degree	0984 800 005	10
Standard	60 Degree	0984 800 008	10
Standard	90 Degree	0984 800 007	10



Rod electrode Universal blue

Good weldability in all positions, particularly in descending position.

- Suitable for steel-to-steel connections zinc plated/bare
- Good gap closure
- Easy slag removal

Approvals, suitability tests: DB

Standards	ISO 2560-A
American Welding Society (AWS)	A5.1: E 6013
Coating of welding electrode	Rutile cellulose
Type description	E 38 0 RC 11
Min. tensile strength	510 N/mm ²
Min. longitudinal elongation	22 %

Wire diameter (Ø)	Length	Min./max. current	Weight	Art. no.	P. Qty.
2 mm	300 mm	50-70 A	4.6 kg	0982 21	480
2.5 mm	350 mm	70-100 A	5.1 kg	0982 251	300
3.2 mm	350 mm	90-150 A	5.4 kg	0982 325 1	190
4 mm	350 mm	110-200 A	5.2 kg	0982 41	120

Rod electrode Inox 2 purple

Particularly suitable for A2 stainless steel

- Very good weldability
- Low spray losses
- Easy slag removal

Wire diameter (Ø)	3.2 mm
Length	350 mm
Min./max. current	70-130 A
Weight	2 kg
Standards	ISO 3581
American Welding Society (AWS)	A5.4: E 308L-17
Coating of welding electrode	Rutile
Material	Stainless steel, 1.4316 X1CrNi19-9
Type description	E19 9 LR 1 2
Min. tensile strength	520 N/mm ²
Min. longitudinal elongation	33 %

Art. no. 0982 325 3

P. Qty.: 55

Approvals, suitability tests: DB, TÜV

The electrode can be welded with direct current +pole and alternating current.

Rod electrode Inox 4 red

Particularly suitable for A4 stainless steel

- Very good weldability
- Smooth, even weld texture
- Good re-ignition
- Few splash losses
- Easy slag removal

Standards	ISO 3581
American Welding Society (AWS)	A5.4: E 3162-17
Coating of welding electrode	Rutile
Material	Stainless steel, 1.4430 X2CrNiMo19-13
Type description	E19 12 3 LR 1 2
Min. tensile strength	520 N/mm ²
Min. longitudinal elongation	27 %

Wire diameter (Ø)	Length	Min./max. current	Weight	Art. no.	P. Qty.
2.5 mm	300 mm	45-90 A	1.7 kg	0982 254	87
3.2 mm	350 mm	60-125 A	2 kg	0982 325 4	53

Approvals, suitability tests: DB, TÜV

The electrode can be welded with direct current +pole and alternating current.

Rod electrode Standard green

Good weldability in all positions, including in gently descending position (10–20°).

- Particularly suitable for galvanised steel on galvanised steel
- Good re-ignition
- Few splash losses
- Easy slag removal
- Even weld texture

Standards	ISO 2560-A
American Welding Society (AWS)	A5.1: E 6013
Coating of welding electrode	Rutile
Type description	E 42 0 RR 12
Min. tensile strength	500 N/mm ²
Min. longitudinal elongation	20 %

Wire diameter (Ø)	Length	Min./max. current	Weight	Art. no.	P. Qty.
2 mm	300 mm	40-80 A	4 kg	0982 2	360
2.5 mm	350 mm	50-110 A	4.7 kg	0982 25	220
3.2 mm	350 mm	80-150 A	4.7 kg	0982 325	130

Approvals, suitability tests: DB, TÜV

The electrode can be welded with direct current -pole (+pole) and alternating current.

Rod electrode Special white

Best weldability in awkward positions and for root welding.

- Basic-coated, chalk-based AC/DC special electrode, also suitable for welding on miniature welding transformers
- In contrast to the welding properties of chalk-based electrodes that were previously claimed as characteristic, special white flows very smoothly with only slight splash losses.
- Notch-free seam transitions for fillet welds
- Even weld texture
- Good slag coverage
- Easy slag removal

Length	350 mm
Standards	ISO 2560-A
American Welding Society (AWS)	A5.1: E 7016
Coating of welding electrode	Basic
Type description	E 38 2 B 32 H 10
Min. tensile strength	490 N/mm ²
Min. longitudinal elongation	22 %

Wire diameter (Ø)	Min./max. current	Weight	Art. no.	P. Qty.
2.5 mm	50-90 A	4.2 kg	0982 252	200
3.2 mm	90-150 A	4.6 kg	0982 325 2	130

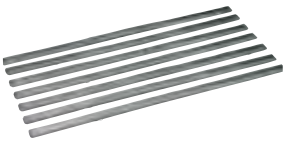
Approvals, suitability tests: DB, TÜV

The electrode can be welded with direct current +pole and alternating current.

Soft solder

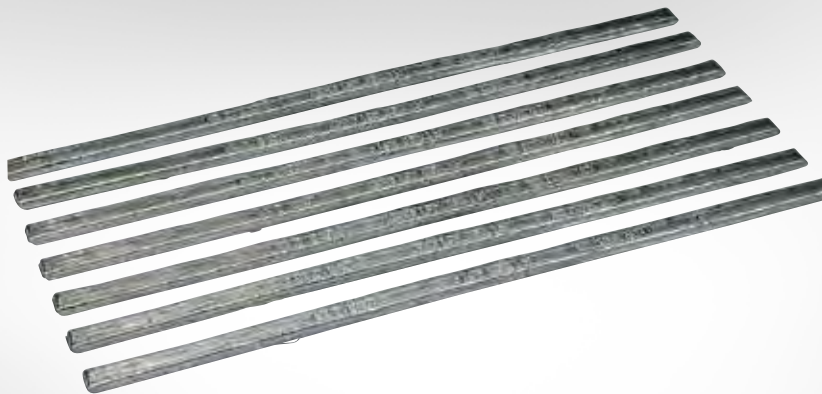
Lead-free in accordance with DIN EN ISO 9453

Form	Flat
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Material designation	Min. melting temperature	Max. melting temperature	Art. no.	P. Qty.
S-Sn90Zn7Cu3	200 °C	280 °C	0982 111 30	5/20
S-Sn92Cu8	230 °C	350 °C	0982 111 20	5/20

Always use soft solder in conjunction with lead-free tinning paste



Soft solder

Lead-containing in accordance with DIN EN ISO 9453

Material designation	Min. melting temperature	Max. melting temperature	Form	Art. no.	P. Qty.
S-Pb50Sn50	185 °C	216 °C	Triangular bar	0982 50	5
S-Pb60Sn40	183 °C	235 °C	Triangular bar	0982 3	25
S-Pb65Sn35	183 °C	245 °C	Triangular bar	0982 35	25
S-Pb70Sn30	183 °C	255 °C	Triangular bar	0982 30	25
S-Pb74Sn25Sb1	185 °C	263 °C	Flat bar	0982 111	5/25
S-Sn60Pb40	183 °C	190 °C	Triangular bar	0982 36	5
S-Sn63Pb37	182 °C	184 °C	Triangular bar	0982 63	5

Contact tip MB 15 AK

For welding torch MB 15 AK

Length	19 mm
Tip diameter	6.3 mm
Connection thread	M6



Continuation **Contact tip MB 15 AK**

Suitable for welding wire	Suitable for wire diameter	Art. no.	P. Qty.
Aluminium	0.8 mm	0984 160 115	5
Aluminium	1 mm	0984 160 116	5
Steel	0.6 mm	0984 160 106	5
Steel	0.8 mm	0984 160 108	5
Steel	1 mm	0984 160 110	5

Contact tip MB 25 AK

For welding torch MB 25 AK

Length	20 mm
Tip diameter	8 mm
Connection thread	M6



Suitable for welding wire	Suitable for wire diameter	Art. no.	P. Qty.
Aluminium	0.8 mm	0984 260 115	5
Aluminium	1 mm	0984 260 116	5
Aluminium	1.2 mm	0984 260 117	5
Steel	0.8 mm	0984 260 108	5
Steel	1 mm	0984 260 110	5
Steel	1.2 mm	0984 260 112	5

Contact tip

For steel wire

Length	20 mm
Suitable for welding wire	Steel
Connection thread	M8



Suitable for wire diameter	Material	Art. no.	P. Qty.
0.8 mm		0984 380 208	5
1 mm	Copper	0984 380 210	5
1.2 mm	Copper	0984 380 212	5

Titanium welding burner

For drying, thawing and laying bituminous welding sheets

- Max. 1 m long high-pressure working flame
- Burner made of TA2 titanium – therefore very robust and stable
- 60% lighter than conventional welding burners made of steel and brass
- Ergonomic burner design relieves strain on the operator
- Includes stand-up base for burner
- Pre-set 7 cm pilot flame; can be adjusted with a screwdriver if necessary
- Quick switchover from pilot flame to working flame via switching lever on handle
- Good fine regulation of the working flame
- Connection: Left-handed thread R 3/8"



Length	Max power	Art. no.	P. Qty.
400 mm	26 kW	0984 898 14	1
850 mm	86 kW	0984 898 16	1
850 mm	114 kW	0984 898 18	1

Soft lead-free solder Electronic solder no. 1

RoHS-compliant

- RoHS-compliant
- S-Sn99,3Cu0,7 in accordance with DIN EN ISO 9453
- Fluxing composition in accordance with DIN EN 29454.1, 1.1.2.B with organic, halogen-free activation additives
- Processing temperature: 350-450°C
- Melting range: 227°C



Weight of content	250 g
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Wire diameter	Art. no.	P. Qty.
1 mm	0987 111 3	1/20
1.5 mm	0987 113 3	1/20

Soft lead-free solder Electronic solder no. 10

- RoHS-compliant
- S-Sn99,3Cu0,7 in accordance with DIN EN ISO 9453
- Fluxing composition in accordance with DIN EN 29454.1, 1.1.2.B with organic, halogen-free activation additives
- Processing temperature: 350-450°C
- Melting range: 227°C



Weight of content	250 g
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Continuation **Soft lead-free solder Electronic solder no. 10**

Wire diameter	Art. no.	P. Qty.
0.7 mm	0987 105 3	1/20
1 mm	0987 107 3	1/20
1.5 mm	0987 109 3	1/20
2 mm	0987 110 03	1/20

Soft solder paste No. 30

With brush

- Flux DIN EN 29454-1/3.1.1.C
- Solder S-Sn 97 Cu 3 DIN EN ISO 9453 (content 60% by weight)
- Residues are soluble in cold water



Weight of content	250 g
Colour	Grey
Material designation	S-Sn97Cu3
Shelf life from production	24 Month

Art. no. 0987 130

P. Qty.: 1/20

TIG welding rod for stainless steel welding

- SG X2 CrNiMo 1912, DIN 8556
- Designation in accordance with AWS A 5.9: ER 316 L-Si
- Material number 1.4430



Length	1000 mm
Weight	5 kg
Material	Stainless steel, 1.4430 X2CrNiMo19-13
Min. elasticity limit (Rp 0.2 value)	350 N/mm ²
Cr composition of the brazing solder (weight-%)	18.5 %
Composition of the solder component (weight %) of C	0.025 %
Mo composition of the brazing solder (weight-%)	2.7 %
Ni composition of the brazing solder (weight-%)	12 %
Shielding gas	Argon

Wire diameter	Art. no.	P. Qty.
1 mm	0982 711 0	5
1.6 mm	0982 711 6	5
2 mm	0982 712 0	5
2.4 mm	0982 712 4	5
3.2 mm	0982 713 2	5

Welding rods are welded with DC pole.

TIG welding rod for steel welding WSG 2

- Designation in accordance with EN 440: W3Si1
- Designation in accordance with EN ISO 636-A: W3Si1

Length	1000 mm
Weight	5 kg
Material	Low alloy steel, 1.5125, 11MnSi6
Breaking elongation A5	27 %
Min. elasticity limit (Rp 0.2 value)	510 N/mm ²
Tensile strength Rm	580 N/mm ²
Composition of the solder component (weight %) of C	0.1 %
Mn composition of the brazing solder (weight-%)	1.5 %
Si composition of the brazing solder (weight-%)	0.8 %

Wire diameter	Art. no.	P. Qty.
1 mm	0982 771 0	5
1.6 mm	0982 771 6	5
2 mm	0982 772 0	5
2.4 mm	0982 772 4	5
3 mm	0982 773 0	5

Tungsten electrode, gold

For WLVI7/WLT17K/WLT26 TIG torch

- Good ignition characteristics and long service life
- Suitable for DC and AC

Length	175 mm
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Diameter (Ø)	Min./max. current	Identification colour	Art. no.	P. Qty.
1 mm	3-40 A		0984 150 110	10
1.6 mm	15-130 A	Gold	0984 150 116	10

Angled magnet

Magnetic angle fixer for fast holding and fixing during welding and soldering work and as a work aid

- Accurate joining of flat, curved or round metal components
- Replaces „second man“ during assembly, saving working time and costs
- Simple removal by tilting to the side.
- The magnetic angle fixer offers the following angles: 30°, 45°, 75° and 90° (see picture). Other options: 105°, 120° and 180°



Length	96 mm
Width	64 mm

Continuation **Angled magnet**

Art. no. 0691 180

P. Qty.: 1



Segmented Grinding Disc For Stainless Steel

Zirconia alumina, especially suitable for machining stainless steel

- For freehand grinding with electric or pneumatic angle grinders
- Circumferential speed max. 80 m/s
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)
- Robust polyester-cotton mixed fabric
- Glass fabric backing disc
- Abrasive cloth (zirconia alumina)

Complies with the most demanding safety requirements of European Standard EN 13743 and the OSA (Organization for Safety of Grinding Tools)

Drill hole	22.23 mm
Material of the carrier disc	Glass fabric
Material of abrasive medium	Zirconium conrundum

Diameter (Ø)	Grid size	Design	Max. rotation speed	Art. no.	P. Qty.
115 mm	40	Domed	13300 rpm	0579 430 314	10
115 mm	40	Domed	13300 rpm	0579 430 315	100
115 mm	40	Straight	13300 rpm	0579 430 514	10
115 mm	40	Straight	13300 rpm	0579 430 515	100
115 mm	60	Domed	13300 rpm	0579 430 316	10
115 mm	60	Domed	13300 rpm	0579 430 317	100
115 mm	60	Straight	13300 rpm	0579 430 516	10
115 mm	60	Straight	13300 rpm	0579 430 517	100

Continuation **Segmented Grinding Disc For Stainless Steel**

Diameter (Ø)	Grid size	Design	Max. rotation speed	Art. no.	P. Qty.
115 mm	80	Domed	13300 rpm	0579 430 318	10
115 mm	80	Domed	13300 rpm	0579 430 319	100
115 mm	80	Straight	13300 rpm	0579 430 518	10
115 mm	120	Domed	13300 rpm	0579 430 311	10
125 mm	40	Domed	12250 rpm	0579 430 324	10
125 mm	40	Domed	12250 rpm	0579 430 325	100
125 mm	40	Straight	12250 rpm	0579 430 524	10
125 mm	40	Straight	12250 rpm	0579 430 525	100
125 mm	60	Domed	12250 rpm	0579 430 326	10
125 mm	60	Domed	12250 rpm	0579 430 327	100
125 mm	60	Straight	12250 rpm	0579 430 526	10
125 mm	60	Straight	12250 rpm	0579 430 527	100
125 mm	80	Domed	12250 rpm	0579 430 328	10
125 mm	80	Domed	12250 rpm	0579 430 329	100
125 mm	80	Straight	12250 rpm	0579 430 528	10
125 mm	80	Straight	12250 rpm	0579 430 529	100
125 mm	120	Domed	12250 rpm	0579 430 321	10
178 mm	40	Domed	8600 rpm	0579 430 374	10
178 mm	60	Domed	8600 rpm	0579 430 376	10
178 mm	80	Domed	8600 rpm	0579 430 378	10

Segmented Grinding Disc For Stainless Steel Long-life

With specially encased, grinding-active ceramic grain specifically designed for stainless steel and high-alloy steels.

- For freehand grinding with electric or pneumatic angle grinders.
- Circumferential speed max. 80 m/s
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)
- High-performance abrasive cloth (robust polyester fabric) with additional active-grinding coating layer (Topsize coating)
- Specially coated active-grinding ceramic abrasive grain
- Robust glass fabric backing disc
- Up to 4x longer service life
- Extremely high rate of material removal
- Finer and more uniform surface quality
- High-performance abrasive cloth (ceramic abrasive grain with grinding-active topcoat)



Drill hole	22.23 mm
Design	Domed
Material of the carrier disc	Glass fabric
Material of abrasive medium	Ceramic grain

Diameter (Ø)	Grid size	Max. rotation speed	Art. no.	P. Qty.
115 mm	40	13300 rpm	0578 430 314	10
115 mm	60	13300 rpm	0578 430 316	10
115 mm	80	13300 rpm	0578 430 318	10
115 mm	120	13300 rpm	0578 430 311	10

Diameter (Ø)	Grid size	Max. rotation speed	Art. no.	P. Qty.
125 mm	40	12250 rpm	0578 430 324	10
125 mm	60	12250 rpm	0578 430 326	10
125 mm	80	12250 rpm	0578 430 328	10
125 mm	120	12250 rpm	0578 430 321	10

Complies with the most demanding safety requirements of European Standard EN 13743 and the OSA (Organization for Safety of Grinding Tools).

Use appropriate protective clothing, e.g. safety goggles, gloves, work shoes and dust mask when working. Always use an appropriate protective hood when performing grinding work. Using damaged discs increases the risk of accidents. Work only with undamaged discs. The permissible circumferential speed may not be exceeded.

For freehand grinding with electric or pneumatic angle grinders.

Clear and correct disc storage

Dry, at +20°C room temperature.

Segmented Grinding Disc for Steel / Stainless Steel Long-life

Segmented grinding disc with patented segment shape and arrangement. Extremely long service life coupled with very high degree of material removal. Specially suitable for grinding edges.

- For freehand grinding with electric or pneumatic angle grinders
- Circumferential speed max. 80 m/s
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)
- High-performance abrasive cloth with additional grinding-active coating layer (Topsize coating)
- Robust glass fabric backing disc
- New, patented flap shape and arrangement
- High-performance abrasive cloth (zirconia alumina with grinding-active topcoat)
- Minimal vibrations in comparison to conventional rough grinding discs



Drill hole	22.23 mm
Design	Straight
Material of the carrier disc	Glass fabric
Material of abrasive medium	Zirconium conrundum

Diameter (Ø)	Grid size	Max. rotation speed	Max. recommended rotation speed	Art. no.	P. Qty.
115 mm	40	13300 rpm		0578 480 514	10
115 mm	60	13300 rpm		0578 480 516	10
115 mm	80	13300 rpm		0578 480 518	10
125 mm	40	12250 rpm	7500 rpm	0578 480 524	10
125 mm	60	12250 rpm	7500 rpm	0578 480 526	10
125 mm	80	12250 rpm	7500 rpm	0578 480 528	10

Complies with the most demanding safety requirements of European Standard EN 13743 and the OSA (Organization for Safety of Grinding Tools)

Use appropriate protective clothing, e.g. safety glasses, gloves, work shoes and dust mask when working. Always use an appropriate protective hood when performing grinding work. Using damaged discs increases the risk of accidents. Work only with undamaged discs. The permissible circumferential speed may not be exceeded.

Clear and correct disc storage

Dry, at +20°C room temperature

Longlife ser. flap disc

**The fillet welding professional for steel/stainless steel.
For machining hard-to-reach areas such as radii and
fillet welds.**

- Comfortable and secure operation
- Extremely long service life, very high material removal with limited material heating and finest surface roughness
- Highly flexible abrasive flaps, quick and easy disc assembly



Diameter (Ø)	125 mm
Tool holding device	M14
Design	Straight
Material of the carrier disc	Plastic
Max. rotation speed	12250 rpm
Min./max. recommended rotation speed	7500-10000 rpm
Max. recommended rotation speed	10000 rpm
Material of abrasive medium	Ceramic grain

Grid size	Art. no.	P. Qty.
40	0578 881 524	10
60	0578 881 526	10
80	0578 881 528	10

Segmented grinding disc CERALINE Longlife & Speed

**For extremely high and fast material removal at low
contact pressure for steel, stainless steel and aluminium.**

- Extremely high and very fast material removal rate with cool grinding
- Very long service life and low contact pressure



Diameter (Ø)	125 mm
Drill hole	22.23 mm
Design	Straight
Material of the carrier disc	Glass fabric
Max. rotation speed	12250 rpm
Max. recommended rotation speed	7500 rpm
Material of abrasive medium	Ceramic grain

Grid size	Art. no.	P. Qty.
40	0578 510 524	10
60	0578 510 526	10
80	0578 510 528	10
120	0578 510 521	10

Complies with the most demanding safety requirements of European Standard EN 13743 and the OSA (Organization for Safety of Grinding Tools)

- Max. circumferential speed 80 m/s
- Recommended speed 7,500 rpm

- Only use with appropriate protective equipment such as safety goggles, gloves, hearing protection etc.
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)

Segmented see-through grinding disc CERALINE Longlife & Speed

For optimum view when machining workpieces made from steel, stainless steel and aluminium.

- See-through segmentation allows for a clear view of the work-piece to be machined
- Extremely high and very fast material removal rate with cool grinding, very long service life and low contact pressure



Diameter (Ø)	125 mm
Drill hole	22.23 mm
Design	Domed
Material of the carrier disc	Glass fabric
Max. rotation speed	9650 rpm
Max. recommended rotation speed	7500 rpm
Material of abrasive medium	Ceramic grain

Grid size	Art. no.	P. Qty.
40	0578 810 324	10
60	0578 810 326	10
80	0578 810 328	10
120	0578 810 321	10

Complies with the most demanding safety requirements of European Standard EN 13743 and the OSA (Organization for Safety of Grinding Tools)

- Max. circumferential speed 63 m/s
- Recommended rotation speed 7,500 rpm
- The disc becomes softer at lower speeds to adapt perfectly to the contour of the workpiece.
- Work only with appropriate protective equipment, such as safety goggles, gloves, hearing protection etc.
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)

Segmented Grinding Disc Speed

With grinding-active multi-connection specifically designed for stainless steel and high-alloy steels (surface pro).

- Free of iron, chlorine and sulphur ($\leq 0.1\%$)
- High-performance abrasive cloth with additional grinding-active coating layer (Topsize coating)
- Robust glass fabric backing disc
- In comparison to conventional segmented discs:
- High-performance abrasive cloth (zirconia alumina with grinding-active topcoat)



Drill hole	22.23 mm
Design	Domed
Material of the carrier disc	Glass fabric
Material of abrasive medium	Zirconium conrundum

Continuation **Segmented Grinding Disc Speed**

Diameter (Ø)	Grid size	Max. rotation speed	Max. recommended rotation speed	Art. no.	P. Qty.
115 mm	40	13300 rpm		0578 930 314	10
115 mm	60	13300 rpm		0578 930 316	10
115 mm	80	13300 rpm		0578 930 318	10
125 mm	40	12250 rpm	7500 rpm	0578 930 324	10
125 mm	40	12250 rpm	7500 rpm	0578 930 325	100
125 mm	60	12250 rpm	7500 rpm	0578 930 326	10
125 mm	60	12250 rpm	7500 rpm	0578 930 327	100
125 mm	80	12250 rpm	7500 rpm	0578 930 328	10

Segmented Grinding Disc for Steel

Synthetic corundum, especially suitable for machining alloyed and non-alloyed steel.

For freehand grinding with electric or pneumatic angle grinders

Circumferential speed max. 80 m/s

Cotton fabric

Glass fabric backing disc

Abrasive cloth (synthetic corundum)

- Long service life
- High rate of material removal



Drill hole	22.23 mm
Material of the carrier disc	Glass fabric
Material of abrasive medium	Normal corundum

Diameter (Ø)	Grid size	Design	Max. rotation speed	Max. recommended rotation speed	Art. no.	P. Qty.
115 mm	40	Domed	13300 rpm		0579 400 314	10
115 mm	40	Straight	13300 rpm		0579 400 514	10
115 mm	60	Domed	13300 rpm		0579 400 316	10
115 mm	60	Straight	13300 rpm		0579 400 516	10
115 mm	80	Domed	13300 rpm		0579 400 318	10
115 mm	80	Straight	13300 rpm		0579 400 518	10
125 mm	40	Domed	12200 rpm	7500 rpm	0579 400 324	10
125 mm	40	Straight	12200 rpm	7500 rpm	0579 400 524	10
125 mm	60	Domed	12200 rpm	7500 rpm	0579 400 326	10
125 mm	60	Straight	12200 rpm	7500 rpm	0579 400 526	10
125 mm	80	Domed	12200 rpm	7500 rpm	0579 400 328	10
125 mm	80	Straight	12200 rpm	7500 rpm	0579 400 528	10

Complies with the most demanding safety requirements of European Standard EN 13743 and the OSA (Organization for Safety of Grinding Tools)

Slotted See-Through Disc

Good view „through the disc“ and therefore of the material being processed. Ideal for processing thin metal sheets.

- Clear view of the workpiece to be processed
- Better surface quality through targeted work
- Reduction of temperature on the surface prevents undesired blue colouring of the workpiece
- Good, smooth guidance



Drill hole	22.23 mm
Design	Domed
Material of the carrier disc	Glass fabric
Material of abrasive medium	Zirconium conrundum



Diameter (Ø)	Grid size	Max. rotation speed	Max. recommended rotation speed	Art. no.	P. Qty.
115 mm	40	13300 rpm		0578 811 540	10
115 mm	60	13300 rpm		0578 811 560	10
115 mm	80	13300 rpm		0578 811 580	10
125 mm	40	12250 rpm	7500 rpm	0578 812 540	10
125 mm	60	12250 rpm	7500 rpm	0578 812 560	10
125 mm	80	12250 rpm	7500 rpm	0578 812 580	10

When only wood or plastics are ground, the disc must be cleaned by grinding on a sharp-edged iron tool.

Segmented Grinding Disc OSF® (one-step finish)

The pipe professional is ideal for removing weld seams and providing finishing touches in one work step. For direct use on speed-controllable angle and fillet seam grinders, offering a combination of fast material removal and perfect surface quality on piping.

- 3 in 1 (welding seam grinding, matching, finish sanding)
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)
- Nylon abrasive fleece made from „surface conditioning“ material
- Aluminium oxide with top size abrasive cloth
- Robust fibre glass backing disc
- Enormous amount of time saved (significant reduction in work steps)
- Grinding welding seams and finishing in one step
- Constant and low Ra value (high surface quality)
- No changes in shape during grinding
- Cooler grinding (low working temperature)
- No clogging
- No additional support plate required



Drill hole	22.23 mm
Grid size	Medium
Design	Domed

Continuation **Segmented Grinding Disc OSF® (one-step finish)**

Material of the carrier disc	Glass fabric
Material of abrasive medium	Aluminium oxide

Diameter (Ø)	Max. rotation speed	Min./max. recommended rotation speed	Max. recommended rotation speed	Art. no.	P. Qty.
115 mm	13200 rpm	2700-3700 rpm	3700 rpm	0585 580 318	1/10
125 mm	12200 rpm	2500-3500 rpm	3500 rpm	0585 580 328	1/10

The surface quality is an expression of the roughness (Ra value)

Mini-Disc

Zirconium corundum. Compatible with 3M Roloc system.

- Flexible mini segmented grinding disc with quick-change mounting for use on pneumatic rod grinders (angled), flexible shafts.
- 76 mm Ø discs can also be used on 115 mm pneumatic or electric angle grinders in conjunction with an M14 holder.
- Sturdy plastic disc with quick-change mounting
- Rugged, flexible cotton fabric with high tear resistance
- Service life comparison: Conventional fibre disc: Mini-Disc = 20: 1



Tool holding device	3M Roloc system
Design	Straight
Material of the carrier disc	Plastic
Material of abrasive medium	Zirconium corundum

Diameter (Ø)	Grid size	Max. rotation speed	Art. no.	P. Qty.
50 mm	36	30000 rpm	0578 605 036	10
50 mm	40	30000 rpm	0578 605 040	10
50 mm	60	30000 rpm	0578 605 060	10
50 mm	80	30000 rpm	0578 605 080	10
50 mm	120	30000 rpm	0578 605 012	10
76 mm	36	20000 rpm	0578 607 636	10
76 mm	40	20000 rpm	0578 607 640	10
76 mm	60	20000 rpm	0578 607 660	10
76 mm	80	20000 rpm	0578 607 680	10
76 mm	120	20000 rpm	0578 607 612	10

Segmented Grinding Disc Flexi-Disc

Zirconium corundum. Compatible with 3M Roloc system.

Ø 50 and 76 mm:

- Flexible mini segmented grinding discs with quick-change mounting for use on pneumatic axial grinders

Ø 115 mm:

- Flexible segmented grinding discs with 22.23 mm mounting for pneumatic or electric angle grinders
- Design:
 - Ø 50 and 76 mm with robust plastic disc and rapid-change mount
 - Ø 115 mm with multi-layer glass fabric disc and 22.23-mm hole
 - Robust and flexible cotton fabric with a high level of tear resistance



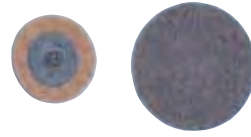
Design	Straight
Material of abrasive medium	Zirconium corundum

Diameter (Ø)	Drill hole	Tool holding device	Grid size	Material of the carrier disc	Art. no.	P. Qty.
50 mm		3M Roloc system	40	Plastic	0578 705 040	10
50 mm		3M Roloc system	60	Plastic	0578 705 060	10
50 mm		3M Roloc system	80	Plastic	0578 705 080	10
50 mm		3M Roloc system	120	Plastic	0578 705 012	10
76 mm		3M Roloc system	40	Plastic	0578 707 640	10
76 mm		3M Roloc system	60	Plastic	0578 707 660	10
76 mm		3M Roloc system	80	Plastic	0578 707 680	10
76 mm		3M Roloc system	120	Plastic	0578 707 612	10
115 mm	22.23 mm		36	Glass fabric	0578 711 536	10
115 mm	22.23 mm		40	Glass fabric	0578 711 540	10
115 mm	22.23 mm		60	Glass fabric	0578 711 560	10
115 mm	22.23 mm		80	Glass fabric	0578 711 580	10
115 mm	22.23 mm		120	Glass fabric	0578 711 512	10

Small abrasives Mini fleece disc

With quick-change mounting. Compatible with 3M Roloc system.

- Grain coarse, medium and fine: Aluminium oxide
- Very fine grain: Silicon carbide
- Open, flexible disc structure
- Free of corrosive metals
- For use on pneumatic rod grinders (angled down) and flexible shafts
- 76 mm dia. discs can also be used on 115 mm pneumatic or electric angle grinders in conjunction with an M14 holder



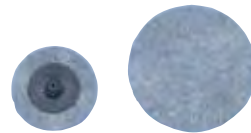
Design	Compatible with 3M Roloc system
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Diameter (Ø)	Colour	Grid size	Max. rotation speed	Material of abrasive medium	Art. no.	P. Qty.
50 mm	Brown	100/coarse	23000 rpm	Aluminium oxide	0673 205 010	25
50 mm	Red brown	180/medium	23000 rpm	Aluminium oxide	0673 205 018	25
50 mm	Blue	280/fine	23000 rpm	Silicon carbide	0673 205 028	25
50 mm	Grey	400/very fine	23000 rpm	Silicon carbide	0673 205 040	25
75 mm	Brown	100/coarse	18000 rpm	Aluminium oxide	0673 207 510	25
75 mm	Red brown	180/medium	18000 rpm	Aluminium oxide	0673 207 518	25
75 mm	Blue	280/fine	18000 rpm	Silicon carbide	0673 207 528	25
75 mm	Grey	400/very fine	18000 rpm	Silicon carbide	0673 207 540	25

Small Abrasives Mini Compact Fleece Disc

With quick-change mounting

- Abrasive grain: Silicon carbide
- Very long service life in comparison to conventional fleece discs.
- Open, flexible and pliant fleece structure
- Free of corrosive metals
- Flexible to use: 75 mm dia. disc can also be used with small holder for 50 mm discs
- For use on pneumatic rod grinders (angled down) and flexible shafts.
- 76 mm dia. discs can also be used on 115 mm pneumatic or electric angle grinders in conjunction with an M14 holder.



Colour	Grey
Design	Compatible with 3M Roloc system
Grid size	400-600
Material of abrasive medium	Silicon carbide

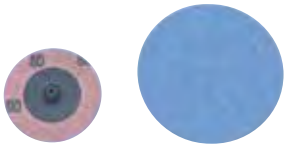
Diameter (Ø)	Max. rotation speed	Art. no.	P. Qty.
50 mm	22000 rpm	0673 215 040	10
75 mm	15000 rpm	0673 217 540	10

Reduce contact pressure!

Small abrasive mini fibre disc

Zirconia alumina, with quick-change mounting

- Robust polyester fabric
- Special manufacturing process: An additional ply of a special fleece material is applied (laminated) to the back of the discs under pressure and heat
- For use on pneumatic rod grinders (angled down) and flexible shafts.
- 76 mm Ø discs can also be used on 115 mm pneumatic or electric angle grinders in conjunction with an M14 holder.



Design	Compatible with 3M Roloc system
Material of abrasive medium	Zirconium conrundum

Diameter (Ø)	Grid size	Max. rotation speed	Recommended rotation speed	Art. no.	P. Qty.
50 mm	36	30000 rpm	20000 rpm	0580 005 036	50
50 mm	40	30000 rpm	20000 rpm	0580 005 040	50
50 mm	60	30000 rpm	20000 rpm	0580 005 060	50
50 mm	80	30000 rpm	20000 rpm	0580 005 080	50
50 mm	120	30000 rpm	20000 rpm	0580 005 012	50
75 mm	36	20000 rpm	12000 rpm	0580 007 536	50
75 mm	40	20000 rpm	12000 rpm	0580 007 540	50
75 mm	60	20000 rpm	12000 rpm	0580 007 560	50
75 mm	80	20000 rpm	12000 rpm	0580 007 580	50
75 mm	120	20000 rpm	12000 rpm	0580 007 512	50

Hook and loop fastener Support Plate M6

Special support plate with M6 receptacle for use with compressed air polishers and grinding machines.

Soft layer

- Allows the user to gain a good feel for the surface
- Increased safety during polishing work

Hook and loop fastener mount



Adhesive system	Hook and loop
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Diameter (Ø)	Art. no.	P. Qty.
50 mm	0586 585 050	1
75 mm	0586 585 075	1

Mini Nylon Fleece Disc

Compatible with 3M Roloc System

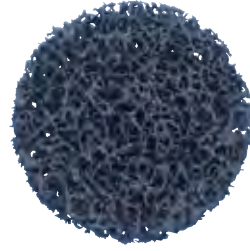
Abrasive grain: Silicon carbide

Flexible, open fleece structure

- Ideal adjustment to the geometry of the workpiece
- No clogging due to surface abrasion

Free of corrosive metals

No contamination of material surfaces



Colour	Black
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Diameter (Ø)	Max. rotation speed	Recommended rotation speed	Art. no.	P. Qty.
50 mm	13000 rpm	12000 rpm	0673 22 50	10
75 mm	11000 rpm	10000 rpm	0673 22 75	10

The small abrasives should be used with a contact angle of 10 to 15°.

The maximum permissible speeds may not be exceeded.

Work only with appropriate protective equipment, such as protective goggles, gloves, ear protectors etc.

Please observe application and safety instructions

Holder

For small abrasives

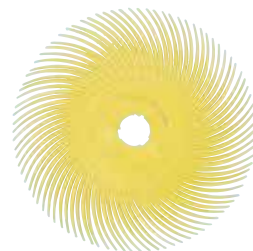


Washer diameter	Shaft diameter	Connection thread	Length	Art. no.	P. Qty.
50 mm	6 mm		65 mm	0586 578 01	1
75 mm		M14	30 mm	0586 578 03	1
75 mm	6 mm		65 mm	0586 578 02	1

Radial bristle disc

For easy and rapid cleaning of hard-to-reach places such as on door rebates. For use on pneumatic axial grinders and flexible shafts.

- Cast from one piece
- Individual segments
- Unique, tough Cubitron (ceramic abrasive grain)
- High level of consistent efficiency right until the entire segment is completely worn



Diameter (Ø)	75 mm
Max. rotation speed	20000 rpm



Colour	Grid size	Art. no.	P. Qty.
White	120	0673 010 751	10
Yellow	80	0673 010 758	10

Holder

For radial bristle disc

Length	65 mm
Shaft diameter	6 mm

Art. no. 0673 976

P. Qty.: 1



Bristle disc

For cleaning and removing coatings or dirt on metals, concrete, natural stone, wood and plastic

- Cast from a single piece and uniquely tough, „CUBITRON“ (ceramic abrasive grain)
- Suitable for up to 25,000 rpm, allows a higher and more uniform level of use until the entire disc is worn out.
- Tool-free quick-change mount system for diameters 50 mm and 75 mm, integrated M14 thread for 115 mm diameter



Diameter (Ø)	Tool holding device	Colour	Grid size	Max. rotation speed	Art. no.	P. Qty.
50 mm	3M Roloc system	Green	50	25000 rpm	0673 000 505	10
50 mm	3M Roloc system	Yellow	80	25000 rpm	0673 000 508	10
50 mm	3M Roloc system	White	120	25000 rpm	0673 000 501	10
75 mm	3M Roloc system	Green	50	18000 rpm	0673 000 755	5
115 mm	M14	Green	50	12000 rpm	0673 001 155	1/5
115 mm	M14	Yellow	80	12000 rpm	0673 001 158	1/5
115 mm	M14	White	120	12000 rpm	0673 001 151	1/5

Synthetic corundum vulcanised fibre disc

Tear-resistant, tough-elastic sanding discs

22 mm hole with cross recess

Backing material made of vulcanised fibre

- Grain size 16–50: 0.8 mm
- Grain size 60–120: 0.6 mm

Bore diameter	22.23 mm
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Continuation **Synthetic corundum vulcanised fibre disc**

Diameter (Ø)	Grid size	Max. rotation speed	Recommended rotation speed	Art. no.	P. Qty.
115 mm	16	13300 rpm		0580 115 16	50
115 mm	24	13300 rpm		0580 115 24	50
115 mm	30	13300 rpm		0580 115 30	50
115 mm	36	13300 rpm		0580 115 36	50
115 mm	40	13300 rpm		0580 115 40	50
115 mm	40	13300 rpm		0580 115 400	1000
115 mm	50	13300 rpm		0580 115 50	50
115 mm	60	13300 rpm		0580 115 60	50
115 mm	80	13300 rpm		0580 115 80	50
115 mm	100	13300 rpm		0580 115 100	50
115 mm	120	13300 rpm		0580 115 120	50
125 mm	16	12250 rpm	7500 rpm	0580 125 16	50
125 mm	24	12250 rpm	7500 rpm	0580 125 24	50
125 mm	30	12250 rpm	7500 rpm	0580 125 30	50
125 mm	36	12250 rpm	7500 rpm	0580 125 36	50
125 mm	40	12250 rpm	7500 rpm	0580 125 40	50
125 mm	50	12250 rpm	7500 rpm	0580 125 50	50
125 mm	60	12250 rpm	7500 rpm	0580 125 60	50
125 mm	80	12250 rpm	7500 rpm	0580 125 80	50
125 mm	100	12250 rpm	7500 rpm	0580 125 100	50
125 mm	120	12250 rpm	7500 rpm	0580 125 120	50
180 mm	16	8500 rpm		0580 180 16	50
180 mm	24	8500 rpm		0580 180 24	50
180 mm	30	8500 rpm		0580 180 30	50
180 mm	36	8500 rpm		0580 180 36	50
180 mm	40	8500 rpm		0580 180 40	50
180 mm	50	8500 rpm		0580 180 50	50
180 mm	60	8500 rpm		0580 180 60	50
180 mm	80	8500 rpm		0580 180 80	50
180 mm	100	8500 rpm		0580 180 100	50
180 mm	120	8500 rpm		0580 180 120	50

General working and safety instructions

- Only use fibre discs with approved, undamaged support plates
- The diameter of the fibre disc must not be more than 15 mm greater than the diameter of the support plate
- Plunge-cut grinding is not permitted
- Always wear appropriate protective equipment, e.g. safety glasses, gloves, hearing protection, etc.
- Store out of direct sunlight and away from heat sources. Do not store in damp environments or on the floor
- Store in original packaging at 18-22°C and 45-60% relative air humidity

Vulcanised fibre discs, Topsize zirconia alumina

Tear-resistant, tough-elastic sanding disc

- 22 mm hole with cross slot
- Carrier material made from vulcanised fibre
- Consistent removal rates
- Topsize coating (= specialised zirconia alumina with cooling multi-bonding and active grinding fillers) and highly elastic fully synthetic resin bonding



Bore diameter	22.23 mm
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Diameter (Ø)	Grid size	Art. no.	P. Qty.
115 mm	36	0580 511 536	50
115 mm	40	0580 511 540	50
115 mm	60	0580 511 560	50
115 mm	80	0580 511 580	50
115 mm	120	0580 511 512	50
125 mm	36	0580 512 536	50
125 mm	40	0580 512 540	50
125 mm	60	0580 512 560	50
125 mm	80	0580 512 580	50
125 mm	120	0580 512 512	50

General working and safety instructions

- Only use fibre discs with approved, undamaged support plates
- The diameter of the fibre disc must not be more than 15 mm greater than the diameter of the support plate
- Plunge-cut grinding is not permitted
- Always wear appropriate protective equipment, e.g. safety glasses, gloves, hearing protection, etc.
- Store out of direct sunlight and away from heat sources. Do not store in damp environments or on the floor
- Store in original packaging at 18-22°C and 45-60% relative air humidity

Longlife & Speed ceramic abrasive grain vulcanised fibre disc

Blue/green for steel and stainless steel (professional stainless steel).

- Lowest roughness and perfect surface finish due to precision-shaped uniform abrasive grain
- Extremely high removal rate with cool sanding
- Low contact pressure required
- Extremely long service life
- Free from iron, chlorine and sulphur ($\leq 0.1\%$)



Bore diameter	22.23 mm
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Continuation **Longlife & Speed ceramic abrasive grain vulcanised fibre disc**

Diameter (Ø)	Grid size	Max. rotation speed	Recommended rotation speed	Art. no.	P. Qty.
125 mm	36+	12000 rpm	7500 rpm	0580 712 536	25
125 mm	60+	12000 rpm	7500 rpm	0580 712 560	25
125 mm	80+	12000 rpm	7500 rpm	0580 712 580	25
178 mm	36+	8500 rpm		0580 717 836	25
178 mm	60+	8500 rpm		0580 717 860	25
178 mm	80+	8500 rpm		0580 717 880	25

Precision-shaped, fully uniform Cubitron® II grain does not correspond to any of the numerous global grain standards (e.g. FEPA). For this reason, the grain size is shown with a + sign and empirically assigned to known grain series (e.g. 36+).

3M® and Cubitron® are brand names of the 3M Company

Support plate

Complete with clamping nut



Diameter (Ø)	Suitable machines	Art. no.	P. Qty.
115 mm	Pneumatic angle grinder	0586 580 115	1
125 mm	Würth EWS 17-125 Power, Würth EWS 12-125 Solid, Würth EWS 10-125, Würth EWS 10-125 Compact	0586 580 125	1
150 mm		0586 580 150	1
180 mm	Würth SWS 180 Power	0586 580 180	1

Support plate with cooling grooves for vulcanised fibre discs

Long service life and perfect surface results.

- Long service life
- Optimal surface results with minimal heat generation

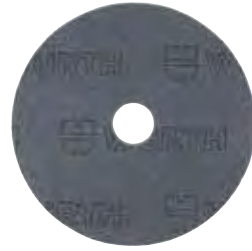


Diameter (Ø)	Art. no.	P. Qty.
115 mm	0586 580 215	1
125 mm	0586 580 225	1
178 mm	0586 580 280	1

Hard-pressed compact fleece disc

For direct use on speed-controllable angle and fillet seam grinders; offers a uniform finish without damaging the surface at a defined roughness.

- High removal rate at lowest roughness depth
- Achieves a consistently high quality surface
- Rapid achievement of high-quality surfaces without changing the shape of the workpiece



Suitable for	Fillet weld grinder, Angle grinder
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Diameter (Ø)	Drill hole	Thickness	Hardness	Design	Art. no.	P. Qty.
125 mm	22.23 mm	3 mm	7 (medium hard)	Fein	0585 012 163	6
125 mm	22.23 mm	3 mm	8 (hard)	Medium	0585 012 173	6
125 mm	22.23 mm	6 mm	5 (soft)	Very fine	0585 012 243	6
125 mm	22.23 mm	6 mm	7 (medium hard)	Fein	0585 012 273	6
150 mm	25.4 mm	3 mm	7 (medium hard)	Fein	0585 915 163	6
150 mm	25.4 mm	3 mm	8 (hard)	Medium	0585 915 172	6
150 mm	25.4 mm	6 mm	5 (soft)	Very fine	0585 915 243	6
150 mm	25.4 mm	6 mm	7 (medium hard)	Fein	0585 915 263	6

The surface quality is an expression of the roughness (Ra value).

Hard-pressed compact fleece disc

With fabric plate for direct use on speed-controllable angle grinders, offers a uniform finish without damaging the surface at a defined roughness.

- High removal rate at the lowest roughness
- Achieve constant surface quality
- Quickly achieve high-quality services without modifying the workpiece geometry
- Achieve the lowest roughness in one work step, e.g. Ra 1.4301 becomes 0.02 f
- Resists clogging
- Long service life and comfortable working



Drill hole	22.23 mm
Hardness	5 (soft)
Design	Very fine
Grid size	Very fine
Suitable for	Angle grinder

Continuation **Hard-pressed compact fleece disc**

Diameter (Ø)	Min./max. rotation speed	Recommended rotation speed	Art. no.	P. Qty.
115 mm	5300-10000 rpm	5300 rpm	0585 011 348	5
125 mm	4500-8000 rpm	4500 rpm	0585 012 348	1/5

The surface quality is an expression of the roughness (Ra value).

Hook-and-loop fabric disc Trizact®

For sanding, polishing (finish sanding) and removing rolling skin.

- Aggressive sanding, extremely fine grinding finish, long service life with constant surface quality (roughness)

Diameter	125 mm
Adhesive system	Hook and loop
Backing material	Semi-flexible X-base



Grid size	Art. no.	P. Qty.
120	0573 412 012	10
220	0573 412 022	10
280	0573 412 028	10
400	0573 412 040	10
600	0573 412 060	10
1200	0573 412 120	10

Please consider the legal instruction at the beginning of this chapter.

- Recommended speed 1,000 rpm to 2,500 rpm
- Work only with appropriate protective equipment, such as safety goggles, gloves, hearing protection etc.
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)

Hook-and-loop fabric disc CERALINE

Used for grinding surfaces, dressing, smoothing, deburring and for welding seam machining.

- Extremely high and very fast material removal with a cool grind
- Very long service life and low contact pressure

Diameter	125 mm
Adhesive system	Hook and loop
Backing material	Mesh
Material to be processed	Steel, Stainless steel, Aluminium



Grid size	Art. no.	P. Qty.
60	0573 512 506	10
80	0573 512 508	10
120	0573 512 512	10

- Recommended speed 2,500 rpm - 5,300 rpm
- Use only with appropriate protective equipment, such as safety goggles, gloves, hearing protection etc.
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)

Support Plate for Velcro Disc

For optimal sanding results. The sanding plates are matched to the application.

- Colour-coding system for quick and easy identification of the right support plate
- Highly heat-resistant adhesive and Velcro
- Rubber intermediate layer
- M14 direct mounting



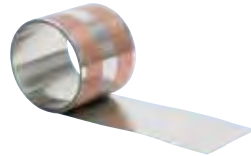
Diameter (Ø)	123 mm
Connection thread	M14

Design	Colour	Art. no.	P. Qty.
Hard	Black	0586 643 125	1
Medium	Red	0586 642 125	1
Soft	Grey	0586 641 125	1

Stainless Steel Tape

Self-adhesive

- Uniform sanding pattern on both frame parts
- Allows fast, simple and precise taping off
- Simple to cut to size with ordinary household scissors
- Simple and economical solution
- Reusable



Width	100 mm
Thickness	0.15 mm
Material	Stainless steel A4, 1.4404

Length	Art. no.	P. Qty.
1 m	0672 101 001	1
3 m	0672 101 003	1

Velcro fabric discs

Diameter: 115 mm

- Heavy, robust fabric on hook-and-loop pad
- Based on a solid synthetic resin bond
- Because of dense corundum scattering (aluminium oxide)



Diameter	115 mm
Adhesive system	Hook and loop

Grid size	Art. no.	P. Qty.
P40	0573 115 40	25
P60	0573 115 60	25
P80	0573 115 80	25
P100	0573 115 100	25
P120	0573 115 120	25

Abrasive cloth

Highly flexible hand abrasive cloth for sanding metal by hand.

Sheet material

Extremely flexible J-fabric

Excellent tearing properties. Effortless, clean and completely straight tearing in all desired widths and lengths.

Full synthetic resin bonding

Long service life. Excellent grain adhesion under extreme loads even in the edge zones.



Length	280 mm
Width	230 mm

Grid size	Art. no.	P. Qty.
40	0674 000 40	50
60	0674 000 60	50
80	0674 000 80	50
100	0674 000 100	50
120	0674 000 120	50
180	0674 000 180	50
240	0674 000 240	50
320	0674 000 320	50
400	0674 000 400	50

Abrasive cloth Rolls

Highly flexible hand abrasive cloth for sanding metal by hand

Extremely flexible J-fabric

Excellent tearing behaviour. Effortless, clean and completely straight tearing in all desired widths and lengths.

Full synthetic resin bonding

Long service life. Excellent grain adhesion under extreme loads even in the edge zones.



Length	50 m
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Width	Grid size	Art. no.	P. Qty.
40 mm	40	0674 010 40	1
40 mm	60	0674 010 60	1
40 mm	80	0674 010 80	1
40 mm	100	0674 010 100	1
40 mm	120	0674 010 120	1
40 mm	180	0674 010 180	1
40 mm	240	0674 010 240	1
40 mm	320	0674 010 320	1
40 mm	400	0674 010 400	1
50 mm	40	0674 011 40	1
50 mm	60	0674 011 60	1
50 mm	80	0674 011 80	1
50 mm	100	0674 011 100	1
50 mm	120	0674 011 120	1
50 mm	180	0674 011 180	1
50 mm	240	0674 011 240	1
50 mm	320	0674 011 320	1
50 mm	400	0674 011 400	1
100 mm	40	0674 012 40	1
100 mm	60	0674 012 60	1
100 mm	80	0674 012 80	1
100 mm	100	0674 012 100	1
100 mm	120	0674 012 120	1
100 mm	180	0674 012 180	1
100 mm	240	0674 012 240	1
100 mm	320	0674 012 320	1
100 mm	400	0674 012 400	1
120 mm	40	0674 013 40	1
120 mm	60	0674 013 60	1
120 mm	80	0674 013 80	1
120 mm	100	0674 013 100	1
120 mm	120	0674 013 120	1
120 mm	180	0674 013 180	1
120 mm	240	0674 013 240	1
120 mm	320	0674 013 320	1
120 mm	400	0674 013 400	1

Abrasive cloth roll

For ORSY®10 dispenser system

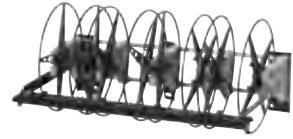


Width	Length	Grid size	Art. no.	P. Qty.
30 mm	19 m	40	0674 830 40	1
30 mm	21 m	60	0674 830 60	1
30 mm	25 m	80	0674 830 80	1
30 mm	26 m	100	0674 830 100	1
30 mm	28 m	120	0674 830 120	1
30 mm	28 m	180	0674 830 180	1
30 mm	28 m	240	0674 830 240	1
30 mm	28 m	320	0674 830 320	1
30 mm	28 m	400	0674 830 400	1
40 mm	19 m	40	0674 840 40	1
40 mm	21 m	60	0674 840 60	1
40 mm	25 m	80	0674 840 80	1
40 mm	26 m	100	0674 840 100	1
40 mm	28 m	120	0674 840 120	1
40 mm	28 m	180	0674 840 180	1
40 mm	28 m	240	0674 840 240	1
40 mm	28 m	320	0674 840 320	1
40 mm	28 m	400	0674 840 400	1
50 mm	19 m	40	0674 850 40	1
50 mm	21 m	60	0674 850 60	1
50 mm	25 m	80	0674 850 80	1
50 mm	26 m	100	0674 850 100	1
50 mm	28 m	120	0674 850 120	1
50 mm	28 m	180	0674 850 180	1
50 mm	28 m	240	0674 850 240	1
50 mm	28 m	320	0674 850 320	1
50 mm	28 m	400	0674 850 400	1
115 mm	19 m	40	0674 899 40	1
115 mm	21 m	60	0674 899 60	1
115 mm	25 m	80	0674 899 80	1
115 mm	26 m	100	0674 899 100	1
115 mm	28 m	120	0674 899 120	1
115 mm	28 m	180	0674 899 180	1
115 mm	28 m	240	0674 899 240	1
115 mm	28 m	320	0674 899 320	1
115 mm	28 m	400	0674 899 400	1

Universal dispenser system

Dispenser system with eight large reel stars

Length	365 mm
Width	535 mm
Height	143 mm
Included in delivery (Lieferumfang)	5 x reel holders/8 x reel cores



Art. no. 0956 109 0

P. Qty.: 1

Fleece Flap Disc

For direct use on speed-controlled angle grinders

Design:

- Fleece
- Synthetic corundum (aluminium oxide)
- Fabric plate

Diameter (Ø)	115 mm
Recommended rotation speed	2500 rpm
Suitable for	Angle grinder



Design	Grid size	Art. no.	P. Qty.
Coarse	100	0585 500 100	10
Fein	280	0585 500 280	10
Medium	180	0585 500 180	10

Fleece Flap Disc Combined

For direct use on speed-controlled angle grinders

Design:

- Fleece/linen
- Synthetic corundum/synthetic corundum (aluminium oxide/aluminium oxide)
- Fabric plate

Diameter (Ø)	115 mm
Recommended rotation speed	2500 rpm
Suitable for	Angle grinder



Design	Grid size	Art. no.	P. Qty.
Coarse	100	0585 501 100	10
Fein	P280	0585 501 280	10
Medium	P180	0585 501 180	10

The combination with grinding cloth enhances the sanding effect of the fleece. Not suited for radial use.

Sanding Blade Roller

With 6 mm wedge taper and size 19 hole for surface sanding machines.

- Medium hardness
- Synthetic corundum
- Synthetic resin-bound sanding discs
- Circumferential speed: Specified by the machine used, but no more than approx. 30 m/s = 3,700 rpm



Design	With wedge taper 6 mm
Max. circumferential speed	30 m/s
Material of abrasive medium	Normal corundum

Diameter x width x drill hole	Grid size	Art. no.	P. Qty.
100 x 50 x 19 mm	40	0672 901 40	1
100 x 50 x 19 mm	60	0672 901 60	1
100 x 50 x 19 mm	80	0672 901 80	1
100 x 50 x 19 mm	120	0672 901 120	1
100 x 100 x 19 mm	40	0672 900 40	1
100 x 100 x 19 mm	60	0672 900 60	1
100 x 100 x 19 mm	80	0672 900 80	1
100 x 100 x 19 mm	120	0672 900 120	1
100 x 100 x 19 mm	150	0672 900 150	1
100 x 100 x 19 mm	240	0672 900 240	1
100 x 100 x 19 mm	320	0672 900 320	1

General working instructions: At high speeds a coarse grain acts like a finer grain and at low speeds a fine grain acts like a coarser one.

Use tools with a low contact pressure; high contact pressure leads to premature wear.

With insufficient chip removal, do not increase the contact pressure, but instead use a coarser grain.

Attention: Pay attention to the running direction! Tools are only suitable for clockwise rotation.

Burnishing roller

Sanding Fleece/Linen Combined

- With 6 mm wedge taper and size 19 hole for surface sanding machines
- Medium harness
- Normal corundum
- Synthetic resin-bound grinding segments
- Circumferential speed: Specified by the machine used, but no more than 30 m/s = 3700 rpm



Design	With wedge taper 6 mm
Material of abrasive medium	Normal corundum
Max. circumferential speed	30 m/s

Diameter x width x drill hole	Fleece grid size	Linen grid size	Material to be processed	Art. no.	P. Qty.
100 x 50 x 19 mm	100	80	Forged steel, Malleable cast iron, Grey cast iron, C-steel, Deep-drawn steel, Steels bands, Injection-moulded zinc, Non-ferrous metal, Cr-Ni and other stainless steels, Wood	0672 810 80	1
100 x 50 x 19 mm	180	150	Forged steel, Malleable cast iron, Grey cast iron, C-steel, Deep-drawn steel, Steels bands, Injection-moulded zinc, Non-ferrous metal, Cr-Ni and other stainless steels, Wood	0672 818 150	1
100 x 50 x 19 mm	280	240	Forged steel, Malleable cast iron, Grey cast iron, C-steel, Cr-Ni and other stainless steels, Wood, Deep-drawn steel, Steels bands, Injection-moulded zinc, Non-ferrous metal	0672 828 240	1
100 x 100 x 19 mm	100	80	Cr-Ni and other stainless steels, C-steel, Grey cast iron, Wood, Non-ferrous metal, Forged steel, Malleable cast iron, Deep-drawn steel, Injection-moulded zinc, Steels bands	0672 910 80	1
100 x 100 x 19 mm	180	150	Forged steel, Malleable cast iron, Grey cast iron, C-steel, Cr-Ni and other stainless steels, Steels bands, Deep-drawn steel, Injection-moulded zinc, Non-ferrous metal, Wood	0672 918 150	1

General working instructions: At high speeds a coarse grain acts like a finer grain and at low speeds a fine grain acts like a coarser one.

Use tools with a low contact pressure; high contact pressure leads to premature wear.

With insufficient chip removal, do not increase the contact pressure, but instead use a coarser grain.

Attention: Pay attention to the running direction! Tools are only suitable for clockwise rotation.

Serrated grinding sleeve

Replaces sanding sleeves, flap wheels, sanding tips and even carbide burrs. Makes it possible to achieve perfect surface results.

Comfortable and rapid work

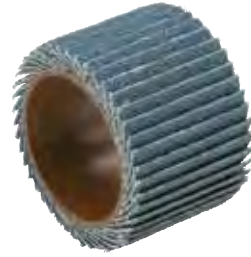
Extremely soft operation with a very high rate of material removal, outstanding service life and the lowest possible surface roughness, with a perfect surface finish thanks to the abrasive flaps.

Less vibration and noise

compared to sanding tips and carbide milling cutters thanks to the abrasive flaps

The ideal solution to many problems

The serrated grinding sleeve ensures an extremely high rate of material removal, even in the most confined of spaces.



Outer diameter	Width	Internal diameter	Grid size	Min./max. recommended rotation speed	Art. no.	P. Qty.
35 mm	20 mm	22 mm	36	5500-18500 rpm	0589 502 023	10
35 mm	20 mm	22 mm	40	5500-18500 rpm	0589 502 024	10
35 mm	20 mm	22 mm	60	5500-18500 rpm	0589 502 026	10
35 mm	20 mm	22 mm	80	5500-18500 rpm	0589 502 028	10
35 mm	20 mm	22 mm	120	5500-18500 rpm	0589 502 021	10
45 mm	20 mm	30 mm	36	5500-8700 rpm	0589 503 023	10
45 mm	20 mm	30 mm	40	5500-8700 rpm	0589 503 024	10
45 mm	20 mm	30 mm	60	5500-8700 rpm	0589 503 026	10
45 mm	20 mm	30 mm	80	5500-8700 rpm	0589 503 028	10
45 mm	20 mm	30 mm	120	5500-8700 rpm	0589 503 021	10
45 mm	30 mm	30 mm	36	5500-8700 rpm	0589 503 033	10
45 mm	30 mm	30 mm	40	5500-8700 rpm	0589 503 034	10
45 mm	30 mm	30 mm	60	5500-8700 rpm	0589 503 036	10
45 mm	30 mm	30 mm	80	5500-8700 rpm	0589 503 038	10
45 mm	30 mm	30 mm	120	5500-8700 rpm	0589 503 031	10
60 mm	30 mm	45 mm	36	4000-8700 rpm	0589 504 533	10
60 mm	30 mm	45 mm	40	4000-8700 rpm	0589 504 534	10
60 mm	30 mm	45 mm	60	4000-8700 rpm	0589 504 536	10
60 mm	30 mm	45 mm	80	4000-8700 rpm	0589 504 538	10
60 mm	30 mm	45 mm	120	4000-8700 rpm	0589 504 531	10
75 mm	30 mm	60 mm	36	4000-7000 rpm	0589 506 033	10

Outer diameter	Width	Internal diameter	Grid size	Min./max. recommended rotation speed	Art. no.	P. Qty.
75 mm	30 mm	60 mm	40	4000-7000 rpm	0589 506 034	10
75 mm	30 mm	60 mm	60	4000-7000 rpm	0589 506 036	10
75 mm	30 mm	60 mm	80	4000-7000 rpm	0589 506 038	10
75 mm	30 mm	60 mm	120	4000-7000 rpm	0589 506 031	10

For optimum service life results, work only with a low contact pressure. The recommended rotation speed depends on the application and the material to be processed. The maximum permitted circumferential speed is 30 m/s, which is not the same as the recommended rotation speed. Do not allow grinding sleeves to protrude beyond the sanding belt mount. Follow general working and safety precautions.

Synthetic corundum flap wheels

Ideal for grinding in confined spaces e.g. in mould-making, container and apparatus engineering and pipeline construction.

- Supple, soft abrasive flaps for gentle working with high material removal
- Easily resettable synthetic resin core facilitates optimal operation in confined spaces without damaging the work piece



Material of abrasive medium	Aluminium oxide
Material to be processed	C-steel, Grey cast iron, Forged steel, Steels bands, Cr-Ni and other stainless steels, Non-ferrous metal, Deep-drawn steel, Cast metal, Malleable cast iron, Injection-moulded zinc, Stainless steel

Diameter x width x shaft diameter	Grid size	Recommended rotation speed	Max. rotation speed	Art. no.	P. Qty.
10 x 10 x 3 mm	80	38000 rpm	75000 rpm	0672 000 108	5
10 x 10 x 3 mm	120	38000 rpm	75000 rpm	0672 000 101	5
10 x 10 x 3 mm	150	38000 rpm	75000 rpm	0672 000 105	5
20 x 10 x 3 mm	80	19000 rpm	38100 rpm	0672 000 208	5
20 x 10 x 3 mm	120	19000 rpm	38100 rpm	0672 000 201	5
20 x 10 x 3 mm	150	19000 rpm	38100 rpm	0672 000 205	5
20 x 15 x 6 mm	40	19000 rpm	38100 rpm	0672 010 214	5
20 x 15 x 6 mm	60	19000 rpm	38100 rpm	0672 010 216	5
20 x 15 x 6 mm	80	19000 rpm	38100 rpm	0672 010 218	5
20 x 15 x 6 mm	120	19000 rpm	38100 rpm	0672 010 211	5
20 x 15 x 6 mm	150	19000 rpm	38100 rpm	0672 010 215	5
20 x 15 x 6 mm	240	19000 rpm	38100 rpm	0672 010 217	5
20 x 15 x 6 mm	320	19000 rpm	38100 rpm	0672 010 219	5
30 x 10 x 3 mm	40	12000 rpm	25400 rpm	0672 000 304	5
30 x 10 x 3 mm	60	12000 rpm	25400 rpm	0672 000 306	5
30 x 10 x 3 mm	80	12000 rpm	25400 rpm	0672 000 308	5
30 x 10 x 3 mm	120	12000 rpm	25400 rpm	0672 000 301	5
30 x 10 x 3 mm	150	12000 rpm	25400 rpm	0672 000 305	5
30 x 10 x 3 mm	240	12000 rpm	25400 rpm	0672 000 307	5
30 x 10 x 3 mm	320	12000 rpm	25400 rpm	0672 000 309	5
30 x 10 x 6 mm	40	12000 rpm	25400 rpm	0672 010 304	5

Continuation Synthetic corundum flap wheels

Diameter x width x shaft diameter	Grid size	Recommended rotation speed	Max. rotation speed	Art. no.	P. Qty.
30 x 10 x 6 mm	60	12000 rpm	25400 rpm	0672 010 306	5
30 x 10 x 6 mm	80	12000 rpm	25400 rpm	0672 010 308	5
30 x 10 x 6 mm	120	12000 rpm	25400 rpm	0672 010 301	5
30 x 10 x 6 mm	150	12000 rpm	25400 rpm	0672 010 305	5
30 x 10 x 6 mm	240	12000 rpm	25400 rpm	0672 010 307	5
30 x 10 x 6 mm	320	12000 rpm	25400 rpm	0672 010 309	5
30 x 15 x 6 mm	40	12000 rpm	25400 rpm	0672 010 314	5
30 x 15 x 6 mm	60	12000 rpm	25400 rpm	0672 010 316	5
30 x 15 x 6 mm	80	12000 rpm	25400 rpm	0672 010 318	5
30 x 15 x 6 mm	120	12000 rpm	25400 rpm	0672 010 311	5
30 x 15 x 6 mm	150	12000 rpm	25400 rpm	0672 010 315	5
30 x 15 x 6 mm	240	12000 rpm	25400 rpm	0672 010 317	5
30 x 15 x 6 mm	320	12000 rpm	25400 rpm	0672 010 319	5
40 x 15 x 6 mm	40	9600 rpm	19100 rpm	0672 010 414	5
40 x 15 x 6 mm	60	9600 rpm	19100 rpm	0672 010 416	5
40 x 15 x 6 mm	80	9600 rpm	19100 rpm	0672 010 418	5
40 x 15 x 6 mm	120	9600 rpm	19100 rpm	0672 010 411	5
40 x 15 x 6 mm	150	9600 rpm	19100 rpm	0672 010 415	5
40 x 15 x 6 mm	240	9600 rpm	19100 rpm	0672 010 417	5
40 x 15 x 6 mm	320	9600 rpm	19100 rpm	0672 010 419	5
40 x 20 x 6 mm	40	9600 rpm	19100 rpm	0672 010 424	5
40 x 20 x 6 mm	60	9600 rpm	19100 rpm	0672 010 426	5
40 x 20 x 6 mm	80	9600 rpm	19100 rpm	0672 010 428	5
40 x 20 x 6 mm	120	9600 rpm	19100 rpm	0672 010 421	5
40 x 20 x 6 mm	150	9600 rpm	19100 rpm	0672 010 425	5
40 x 20 x 6 mm	240	9600 rpm	19100 rpm	0672 010 427	5
40 x 20 x 6 mm	320	9600 rpm	19100 rpm	0672 010 429	5
50 x 20 x 6 mm	40	7000 rpm	15200 rpm	0672 010 524	5
50 x 20 x 6 mm	60	7000 rpm	15200 rpm	0672 010 526	5
50 x 20 x 6 mm	80	7000 rpm	15200 rpm	0672 010 528	5
50 x 20 x 6 mm	120	7000 rpm	15200 rpm	0672 010 521	5
50 x 20 x 6 mm	150	7000 rpm	15200 rpm	0672 010 525	5
50 x 20 x 6 mm	240	7000 rpm	15200 rpm	0672 010 527	5
50 x 20 x 6 mm	320	7000 rpm	15200 rpm	0672 010 529	5
50 x 30 x 6 mm	40	7000 rpm	15200 rpm	0672 010 534	5
50 x 30 x 6 mm	60	7000 rpm	15200 rpm	0672 010 536	5
50 x 30 x 6 mm	80	7000 rpm	15200 rpm	0672 010 538	5
50 x 30 x 6 mm	120	7000 rpm	15200 rpm	0672 010 531	5
60 x 15 x 6 mm	40	6300 rpm	12700 rpm	0672 010 614	5
60 x 15 x 6 mm	60	6300 rpm	12700 rpm	0672 010 616	5
60 x 15 x 6 mm	80	6300 rpm	12700 rpm	0672 010 618	5
60 x 15 x 6 mm	120	6300 rpm	12700 rpm	0672 010 611	5
60 x 20 x 6 mm	40	6300 rpm	12700 rpm	0672 010 624	5
60 x 20 x 6 mm	60	6300 rpm	12700 rpm	0672 010 626	5
60 x 20 x 6 mm	80	6300 rpm	12700 rpm	0672 010 628	5
60 x 20 x 6 mm	120	6300 rpm	12700 rpm	0672 010 621	5
60 x 20 x 6 mm	150	6300 rpm	12700 rpm	0672 010 625	5
60 x 20 x 6 mm	240	6300 rpm	12700 rpm	0672 010 627	5
60 x 20 x 6 mm	320	6300 rpm	12700 rpm	0672 010 629	5
60 x 30 x 6 mm	40	6300 rpm	12700 rpm	0672 010 634	5
60 x 30 x 6 mm	60	6300 rpm	12700 rpm	0672 010 636	5
60 x 30 x 6 mm	80	6300 rpm	12700 rpm	0672 010 638	5

Diameter x width x shaft diameter	Grid size	Recommended rotation speed	Max. rotation speed	Art. no.	P. Qty.
60 x 30 x 6 mm	120	6300 rpm	12700 rpm	0672 010 631	5
60 x 30 x 6 mm	240	6300 rpm	12700 rpm	0672 010 637	5
60 x 30 x 6 mm	320	6300 rpm	12700 rpm	0672 010 639	5
60 x 40 x 6 mm	40	6300 rpm	12700 rpm	0672 010 644	5
60 x 40 x 6 mm	60	6300 rpm	12700 rpm	0672 010 646	5
60 x 40 x 6 mm	80	6300 rpm	12700 rpm	0672 010 648	5
60 x 40 x 6 mm	120	6300 rpm	12700 rpm	0672 010 641	5
60 x 50 x 6 mm	40	6300 rpm	12700 rpm	0672 010 654	5
60 x 50 x 6 mm	60	6300 rpm	12700 rpm	0672 010 656	5
60 x 50 x 6 mm	80	6300 rpm	12700 rpm	0672 010 658	5
60 x 50 x 6 mm	120	6300 rpm	12700 rpm	0672 010 651	5
60 x 50 x 6 mm	240	6300 rpm	12700 rpm	0672 010 657	5
80 x 30 x 6 mm	40	4800 rpm	9500 rpm	0672 010 834	5
80 x 30 x 6 mm	60	4800 rpm	9500 rpm	0672 010 836	5
80 x 30 x 6 mm	80	4800 rpm	9500 rpm	0672 010 838	5
80 x 30 x 6 mm	120	4800 rpm	9500 rpm	0672 010 831	5
80 x 30 x 6 mm	240	4800 rpm	9500 rpm	0672 010 837	5
80 x 30 x 6 mm	320	4800 rpm	9500 rpm	0672 010 839	5
80 x 50 x 6 mm	40	4800 rpm	9500 rpm	0672 010 854	5
80 x 50 x 6 mm	60	4800 rpm	9500 rpm	0672 010 856	5
80 x 50 x 6 mm	80	4800 rpm	9500 rpm	0672 010 858	5
80 x 50 x 6 mm	120	4800 rpm	9500 rpm	0672 010 851	5
80 x 50 x 6 mm	150	4800 rpm	9500 rpm	0672 010 855	5
80 x 50 x 6 mm	240	4800 rpm	9500 rpm	0672 010 857	5
80 x 50 x 6 mm	320	4800 rpm	9500 rpm	0672 010 859	5

Please consider the legal instruction at the beginning of this chapter.

Flap wheels achieve optimal performance at a recommended cutting speed of 15–20 m/s. An ideal compromise between the removal rate, surface quality and temperature load of the work piece and the service life of the flap wheel. The maximum permissible rotation speed (min-1) must never be exceeded for safety reasons. Flexible shafts, electric and pneumatic straight grinders can be used as tool drives.

Service life and heat development:

The low contact pressure and circumferential speed increase the service life of the flap wheel and minimise the temperate load on the work piece.

Material removal:

Increasing the removal rate should be achieved by switching to a rougher grain rather than increasing the contact pressure.

Surface quality:

High cutting speeds with low contact pressure produce fine roughness. Increasing the contact pressure with low cutting speed increases the depth of roughness. The softer the material to be machined, the greater the depth of roughness (when using the same grain size).

Ceramic abrasive grain flap wheel

Ideal for grinding in tight spaces and for decorating surfaces.

- Creating decorative surfaces
- High material removal rate and the lowest surface roughness with high service life
- Ideal in confined spaces thanks to the slightly set-back resin core



Material of abrasive medium	Ceramic grain
Material to be processed	Stainless steel, Hardened steel, Cast metal, Higher strength steel, Zinc, Injection-moulded zinc



Diameter x width x shaft diameter	Grid size	Recommended rotation speed	Max. rotation speed	Art. no.	P. Qty.
20 x 15 x 6 mm	60	15000 rpm	30500 rpm	0672 210 216	5
20 x 15 x 6 mm	80	15000 rpm	30500 rpm	0672 210 218	5
20 x 15 x 6 mm	120	15000 rpm	30500 rpm	0672 210 211	5
30 x 15 x 6 mm	60	12000 rpm	25400 rpm	0672 210 316	5
30 x 15 x 6 mm	80	12000 rpm	25400 rpm	0672 210 318	5
30 x 15 x 6 mm	120	12000 rpm	25400 rpm	0672 210 311	5
40 x 20 x 6 mm	60	9600 rpm	19100 rpm	0672 210 426	5
40 x 20 x 6 mm	80	9600 rpm	19100 rpm	0672 210 428	5
40 x 20 x 6 mm	120	9600 rpm	19100 rpm	0672 210 421	5
50 x 20 x 6 mm	60	7000 rpm	15200 rpm	0672 210 526	5
50 x 20 x 6 mm	80	7000 rpm	15200 rpm	0672 210 528	5
50 x 20 x 6 mm	120	7000 rpm	15200 rpm	0672 210 521	5
60 x 15 x 6 mm	60	6300 rpm	12700 rpm	0672 210 616	5
60 x 15 x 6 mm	80	6300 rpm	12700 rpm	0672 210 618	5
60 x 15 x 6 mm	120	6300 rpm	12700 rpm	0672 210 611	5
60 x 30 x 6 mm	60	6300 rpm	12700 rpm	0672 210 636	5
60 x 30 x 6 mm	80	6300 rpm	12700 rpm	0672 210 638	5
60 x 30 x 6 mm	120	6300 rpm	12700 rpm	0672 210 631	5
80 x 50 x 6 mm	60	4800 rpm	9500 rpm	0672 210 856	5
80 x 50 x 6 mm	80	4800 rpm	9500 rpm	0672 210 858	5
80 x 50 x 6 mm	120	4800 rpm	9500 rpm	0672 210 851	5

Please consider the legal instruction at the beginning of this chapter.

Flap wheels achieve optimal performance at a recommended cutting speed of 15–20 m/s. An ideal compromise between the removal rate, surface quality and temperature load of the work piece and the service life of the flap wheel. The maximum permissible rotation speed (min-1) must never be exceeded for safety reasons. Flexible shafts, electric and pneumatic straight grinders can be used as tool drives.

Service life and heat development:

The low contact pressure and circumferential speed increase the service life of the flap wheel and minimise the temperate load on the work piece.

Material removal:

Increasing the removal rate should be achieved by switching to a rougher grain rather than increasing the contact pressure.

Surface quality:

High cutting speeds with low contact pressure produce fine roughness. Increasing the contact pressure with low cutting speed increases the depth of roughness. The softer the material to be machined, the greater the depth of roughness (when using the same grain size).

Abrasive fleece matting body

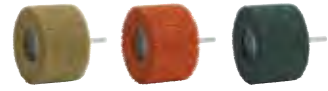
Specially designed for processing stainless steel. Virtually shoulder-free matting and burnishing and for matching „pre-sanded“ metal sheets. For effective surfaces, cleaning oxide coatings and removing discolouration.

Quick and shoulder-free

Double-impregnated abrasive fleece achieves the required sanding pattern with quick and shoulder-free results.

Easy to assign fineness structure

Colour coding to prevent the different versions from being mixed up.



Diameter x width x shaft diameter	Design	Colour	Max. rotation speed	Max. recommended rotation speed	Art. no.	P. Qty.
40 x 25 x 6 mm	Extra-coarse	Orange	9000 rpm	7500 rpm	0672 304 080	10
40 x 25 x 6 mm	Medium	Yellow	9000 rpm	7500 rpm	0672 304 018	10
40 x 25 x 6 mm	Fein	Green	9000 rpm	7500 rpm	0672 304 028	10
50 x 25 x 6 mm	Extra-coarse	Orange	8000 rpm	6000 rpm	0672 305 080	10
50 x 25 x 6 mm	Medium	Yellow	8000 rpm	6000 rpm	0672 305 018	10
50 x 25 x 6 mm	Fein	Green	8000 rpm	6000 rpm	0672 305 028	10
60 x 40 x 6 mm	Extra-coarse	Orange	7000 rpm	5000 rpm	0672 306 080	5
60 x 40 x 6 mm	Medium	Yellow	7000 rpm	5000 rpm	0672 306 018	5
60 x 40 x 6 mm	Fein	Green	7000 rpm	5000 rpm	0672 306 028	5
80 x 50 x 6 mm	Extra-coarse	Orange	6000 rpm	4000 rpm	0672 308 080	5
80 x 50 x 6 mm	Medium	Yellow	6000 rpm	4000 rpm	0672 308 018	5
80 x 50 x 6 mm	Fein	Green	6000 rpm	4000 rpm	0672 308 028	5

- At high rotation speeds, coarse grain acts finer, and at low speeds fine grain acts coarser
- Use tools with a low contact pressure; heavy contact pressure causes premature wear
- If there is insufficient chip removal, do not increase the contact pressure. Instead, use coarser grains

Abrasive fleece matting body

For effective surfaces, cleaning oxide coatings and removing discolouration.



Diameter x width x shaft diameter	Art. no.	P. Qty.
40 x 20 x 6 mm	0672 954 210	5
40 x 30 x 6 mm	0672 954 310	5
50 x 30 x 6 mm	0672 955 310	5
60 x 40 x 6 mm	0672 956 410	5

- At high rotation speeds, coarse grain acts finer, and at low speeds fine grain acts coarser
- Use tools with a low contact pressure; heavy contact pressure causes premature wear
- If there is insufficient chip removal, do not increase the contact pressure. Instead, use coarser grains

Combined abrasive fleece/cloth matting body (mixed corundum)

For shoulder-free matting, line matting, satin finish and removal of dirt and oxide layers on metal.

- High sanding effect owing to the additional abrasive cloths between the abrasive fleece



Colour	Red brown
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Diameter x width x shaft diameter	Art. no.	P. Qty.
40 x 20 x 6 mm	0672 964 218	5
40 x 30 x 6 mm	0672 964 318	5
50 x 30 x 6 mm	0672 965 318	5
60 x 40 x 6 mm	0672 966 418	5

- At high rotation speeds, coarse grain acts finer, and at low speeds fine grain acts coarser
- Use tools with a low contact pressure; heavy contact pressure causes premature wear
- If there is insufficient removal, do not increase the contact pressure. Instead, use coarser grains

Matting body CERALINE

For the removal of minor scratches, virtually seamless matting and burnishing and for matching „pre-sanded“ sheet metal. For impressive surfaces, cleaning oxide coatings and removing discolouration.



- Effective and very long-lasting
- Quick and seamless
- Simple assignment of fineness structure



Diameter x width x shaft diameter	Design	Colour	Max. rotation speed	Max. recommended rotation speed	Art. no.	P. Qty.
40 x 25 x 6 mm	Extra-coarse	Orange	9000 rpm	7500 rpm	0672 404 066	10
40 x 25 x 6 mm	Medium	Yellow	9000 rpm	7500 rpm	0672 404 061	10
40 x 25 x 6 mm	Fein	Green	9000 rpm	7500 rpm	0672 404 062	10
50 x 25 x 6 mm	Extra-coarse	Orange	8000 rpm	6000 rpm	0672 405 066	10
50 x 25 x 6 mm	Medium	Yellow	8000 rpm	6000 rpm	0672 405 061	10
50 x 25 x 6 mm	Fein	Green	8000 rpm	6000 rpm	0672 405 062	10
60 x 40 x 6 mm	Extra-coarse	Orange	7000 rpm	5000 rpm	0672 406 066	5
60 x 40 x 6 mm	Medium	Yellow	7000 rpm	5000 rpm	0672 406 061	5
60 x 40 x 6 mm	Fein	Green	7000 rpm	5000 rpm	0672 406 062	5
80 x 50 x 6 mm	Extra-coarse	Orange	7000 rpm	5000 rpm	0672 408 066	5
80 x 50 x 6 mm	Medium	Yellow	7000 rpm	5000 rpm	0672 408 061	5
80 x 50 x 6 mm	Fein	Green	7000 rpm	5000 rpm	0672 408 062	5

- At high rotation speeds, coarse grain acts finer, and at low speeds fine grain acts coarser
- Use tools with a low contact pressure; heavy contact pressure causes premature wear
- If there is insufficient removal, do not increase the contact pressure. Instead, use coarser grains

Sanding sleeve Trizact®

For sanding, polishing (finish sanding) and removing rolling skin.

- Semi-flexible X-layer for high adaptation and uniform surface quality on profiled workpieces
- Uniform grain structure in three-dimensional pyramid structure
- Low sanding temperature due to active additional materials



Diameter x width	Grid size	Art. no.	P. Qty.
90 x 100 mm	120	0672 908 012	10
90 x 100 mm	220 (A100)	0672 908 022	10
90 x 100 mm	280 (A65)	0672 908 028	10
90 x 100 mm	400 (A45)	0672 908 040	10
90 x 100 mm	600 (A30)	0672 908 060	10
100 x 100 mm	120	0672 918 012	10
100 x 100 mm	220	0672 918 022	10
100 x 100 mm	280	0672 918 028	10
100 x 100 mm	400	0672 918 040	10
100 x 100 mm	600	0672 918 060	10

Please consider the legal instruction at the beginning of this chapter.

Rubber Eraser

For removing adhesive residues and films on metallic surfaces.

Outer diameter	90 mm
Can be used with adapter	Yes

Art. no. 0585 93

P. Qty.: 1



- Operate only with slow-running machines (max. 2000 rpm).
- Do not use the film rubber on plastic parts and painted plastics (e. g. bumpers, motorcycle trim etc.)!
- Note direction of rotation (opposite of working direction): Do not work too long in one place because excessive heat generation can harm sheet metal and paint. Always use safety goggles, hearing protection and gloves when working.
- In some cases, may lead to discolouration when used on water-based paint. In this case we recommend preliminary tests in non-visible places.

Fabric sanding belt Synthetic corundum for electric grinding file

For sanding of pipes, pipe elbows and closed pipe structures, sanding welding seams, removing tempering colour, removing rust and scale.



- High and fast material removal rate and long service life

Material of abrasive medium	Normal corundum
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Width x length	Grid size	Art. no.	P. Qty.
6 mm x 520 mm	40	0672 985 40	20
6 mm x 520 mm	60	0672 985 60	20
6 mm x 520 mm	80	0672 985 80	20
6 mm x 520 mm	120	0672 985 120	20
12 mm x 520 mm	40	0672 986 40	20
12 mm x 520 mm	60	0672 986 60	20
12 mm x 520 mm	80	0672 986 80	20
12 mm x 520 mm	120	0672 986 120	20
16 mm x 520 mm	40	0672 987 40	20
16 mm x 520 mm	60	0672 987 60	20
16 mm x 520 mm	80	0672 987 80	20
16 mm x 520 mm	120	0672 987 120	20

- Work only with appropriate protective equipment, such as safety goggles, gloves, hearing protection etc.
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)

Ceramic abrasive grain sanding belt

For electrical abrasive file

Special micro-fragmentation

Considerably more sharp grinding edges, resulting in extremely high material removal without high grinding pressure, finer and more uniform surface quality, up to four times longer service life compared with zirconia alumina.

Grinding additives

Very cool cut, no material discolouration



Width x length	12 mm x 330 mm
Material of abrasive medium	Ceramic grain

Grid size	Art. no.	P. Qty.
40	0672 416 004	20
80	0672 416 008	20

Fabric sanding belt Trizact® for electric grinding file

For refining (polishing) and finishing pipes, pipe bends and closed pipe structures.

- Aggressive sanding, extremely fine grinding finish, long service life with constant surface quality (roughness)



Material of abrasive medium	Aluminium oxide
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Width x length	Design	Grid size	Art. no.	P. Qty.
6 mm x 520 mm	A160	120	0672 508 012	20
6 mm x 520 mm	A100	220	0672 508 022	20
6 mm x 520 mm	A65	280	0672 508 028	20
6 mm x 520 mm	A45	400	0672 508 040	20
6 mm x 520 mm	A30	600	0672 508 060	20
12 mm x 520 mm	A160	120	0672 510 012	20
12 mm x 520 mm	A100	220	0672 510 022	20
12 mm x 520 mm	A65	280	0672 510 028	20
12 mm x 520 mm	A45	400	0672 510 040	20
12 mm x 520 mm	A30	600	0672 510 060	20
6 mm x 533 mm	A160	120	0672 512 012	20
6 mm x 533 mm	A100	220	0672 512 022	20
6 mm x 533 mm	A45	400	0672 512 040	20
6 mm x 533 mm	A30	600	0672 512 060	20
9 mm x 533 mm	A160	120	0672 513 012	20
9 mm x 533 mm	A100	220	0672 513 022	20
9 mm x 533 mm	A65	280	0672 513 028	20
9 mm x 533 mm	A45	400	0672 513 040	20
9 mm x 533 mm	A30	600	0672 513 060	20
12 mm x 533 mm	A160	120	0672 514 012	20
12 mm x 533 mm	A100	220	0672 514 022	20
12 mm x 533 mm	A65	280	0672 514 028	20

Continuation **Fabric sanding belt Trizact® for electric grinding file**

Width x length	Design	Grid size	Art. no.	P. Qty.
12 mm x 533 mm	A45	400	0672 514 040	20
12 mm x 533 mm	A30	600	0672 514 060	20

Please consider the legal instruction at the beginning of this chapter.

- Work only with appropriate protective equipment, such as safety goggles, gloves, hearing protection etc.
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)

Fleece sanding belt for stationary contact grinding machines

For matting, polishing and smoothing

Reinforced nylon sanding fleece with needled-through fabric carrier

High tear resistance, uniform grinding finish, waterproof and stretch-resistant



Width x length	Design	Colour	Art. no.	P. Qty.
75 mm x 2000 mm	Coarse	Brown	0585 706 100	2
75 mm x 2000 mm	Fein	Blue	0585 706 280	2
75 mm x 2000 mm	Medium	Red brown	0585 706 180	2
150 mm x 2000 mm	Coarse	Brown	0585 707 100	2
150 mm x 2000 mm	Fein	Blue	0585 707 280	2
150 mm x 2000 mm	Medium	Red brown	0585 707 180	2

Sanding belts, zirconia alumina for stationary contact grinding machines

Robust polyester fabric

High tear resistance

Full synthetic resin bond

Long service life

Open, double zirconium alumina scattering (electrostatic)

High, aggressive cutting capacity, cool grinding and self-sharpening effect even under medium loads.



Material of abrasive medium	Zirconium corundum
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Width x length	Grid size	Art. no.	P. Qty.
50 mm x 2000 mm	40	0672 750 40	10
50 mm x 2000 mm	60	0672 750 60	10
50 mm x 2000 mm	80	0672 750 80	10
75 mm x 2000 mm	36	0672 775 36	10
75 mm x 2000 mm	40	0672 775 40	10
75 mm x 2000 mm	60	0672 775 60	10
75 mm x 2000 mm	80	0672 775 80	10
100 mm x 2000 mm	40	0672 710 40	10
100 mm x 2000 mm	60	0672 710 60	10
100 mm x 2000 mm	80	0672 710 80	10

Width x length	Grid size	Art. no.	P. Qty.
150 mm x 2000 mm	40	0672 715 40	10
150 mm x 2000 mm	60	0672 715 60	10
150 mm x 2000 mm	80	0672 715 80	10

Fleece sanding belt for tube belt sander

For matting, polishing and smoothing pipes, pipe elbows and closed pipe structures

High tear resistance, uniform grinding finish, water-proof and stretch-resistant

Reinforced nylon sanding fleece with needled-through fabric carrier



Width x length	Design	Colour	Art. no.	P. Qty.
20 mm x 820 mm	Coarse	Brown	0673 601 010	5
20 mm x 820 mm	Medium	Red brown	0673 601 018	5
30 mm x 533 mm	Coarse	Brown	0673 602 010	5
30 mm x 533 mm	Fein	Blue	0673 602 028	5
30 mm x 533 mm	Medium	Red brown	0673 602 018	5
30 mm x 533 mm	Very fine	Grey	0673 602 040	5
30 mm x 610 mm	Coarse	Brown	0673 603 010	5
30 mm x 610 mm	Fein	Blue	0673 603 028	5
30 mm x 610 mm	Medium	Red brown	0673 603 018	5
30 mm x 610 mm	Very fine	Grey	0673 603 040	5
35 mm x 650 mm	Coarse	Brown	0673 608 010	5
35 mm x 650 mm	Fein	Blue	0673 608 028	5
35 mm x 650 mm	Medium	Red brown	0673 608 018	5
35 mm x 650 mm	Very fine	Grey	0673 608 040	5
40 mm x 618 mm	Coarse	Brown	0673 604 010	5
40 mm x 618 mm	Fein	Blue	0673 604 028	5
40 mm x 618 mm	Medium	Red brown	0673 604 018	5
40 mm x 618 mm	Very fine	Grey	0673 604 040	5
40 mm x 675 mm	Coarse	Brown	0673 605 010	5
40 mm x 675 mm	Fein	Blue	0673 605 028	5
40 mm x 675 mm	Medium	Red brown	0673 605 018	5
40 mm x 675 mm	Very fine	Grey	0673 605 040	5
40 mm x 760 mm	Coarse	Brown	0673 606 010	5
40 mm x 760 mm	Fein	Blue	0673 606 028	5
40 mm x 760 mm	Medium	Red brown	0673 606 018	5
40 mm x 760 mm	Very fine	Grey	0673 606 040	5
40 mm x 820 mm	Coarse	Brown	0673 607 010	5
40 mm x 820 mm	Fein	Blue	0673 607 028	5
40 mm x 820 mm	Medium	Red brown	0673 607 018	5
40 mm x 820 mm	Very fine	Grey	0673 607 040	5

Sanding belt KGX

For woodworking and metalworking

For hand sanders

Aggressive abrasive grain for

- Maximum material removal
- Minimal clogging
- Long service life
- Uniform grinding finish

Design:

- X-fabric
- Aluminium oxide (corundum)
- Synthetic resin bond
- Open scattering
- Special wave-shaped closure



Width x length	Grid size	Suitable machines	Material of abrasive medium	Art. no.	P. Qty.
65 mm x 410 mm	P60	AEG HBS 65, AEG HBS-E 65, Black & Decker DN 83 (E), Black & Decker DN 85 (E), Holz-Her 2405, Holz-Her 2406, Holz-Her 2288, Holz-Her 2410, Metabo BA 0665, Metabo BA E 0666, Kress CBS 6800, Kress 600 HTEB	Aluminium oxide (corundum)	0675 060 410	20
65 mm x 410 mm	P80	AEG HBS 65, AEG HBS-E 65, Black & Decker DN 83 (E), Black & Decker DN 85 (E), Holz-Her 2405, Holz-Her 2406, Holz-Her 2288, Holz-Her 2410, Metabo BA 0665, Metabo BA E 0666, Kress CBS 6800, Kress 600 HTEB	Aluminium oxide (corundum)	0675 080 410	20
65 mm x 410 mm	P100	AEG HBS 65, AEG HBS-E 65, Black & Decker DN 83 (E), Black & Decker DN 85 (E), Holz-Her 2405, Holz-Her 2406, Holz-Her 2288, Holz-Her 2410, Metabo BA 0665, Metabo BA E 0666, Kress CBS 6800, Kress 600 HTEB	Aluminium oxide (corundum)	0675 100 410	20
65 mm x 410 mm	P120	AEG HBS 65, AEG HBS-E 65, Black & Decker DN 83 (E), Black & Decker DN 85 (E), Holz-Her 2405, Holz-Her 2406, Holz-Her 2288, Holz-Her 2410, Metabo BA 0665, Metabo BA E 0666, Kress CBS 6800, Kress 600 HTEB	Aluminium oxide (corundum)	0675 120 410	20

Width x length	Grid size	Suitable machines	Material of abrasive medium	Art. no.	P. Qty.
75 mm x 480 mm	P40	ELU MHB 157 (E)	Aluminium oxide (corundum)	0675 040 480	20
75 mm x 480 mm	P60	ELU MHB 157 (E)	Aluminium oxide (corundum)	0675 060 480	20
75 mm x 480 mm	P80	ELU MHB 157 (E)	Aluminium oxide (corundum)	0675 080 480	20
75 mm x 480 mm	P100	ELU MHB 157 (E)	Aluminium oxide (corundum)	0675 100 480	20
75 mm x 480 mm	P120	ELU MHB 157 (E)	Aluminium oxide (corundum)	0675 120 480	20
75 mm x 480 mm	P150	ELU MHB 157 (E)	Aluminium oxide (corundum)	0675 150 480	20
75 mm x 533 mm	P40	AEG HBS-E 75 S, Bosch 0270, Bosch PBS 75, Bosch PBS 75-E, Hitachi SB 75, Holz-Her 2410, Holz-Her 2411, Holz-Her 2280, Holz-Her 2420, Makita 9900 B, Makita 9901, Metabo BA 0775, Metabo BA E 876, Metabo BA E 087 S, Rockwell 337, Ryobi B-7075, Skil 594, Skil 595, Stanley H 493	Aluminium oxide (corundum)	0675 040 533	20
75 mm x 533 mm	P60	AEG HBS-E 75 S, Bosch 0270, Bosch PBS 75, Bosch PBS 75-E, Hitachi SB 75, Holz-Her 2410, Holz-Her 2411, Holz-Her 2280, Holz-Her 2420, Makita 9900 B, Makita 9901, Metabo BA 0775, Metabo BA E 876, Metabo BA E 087 S, Rockwell 337, Ryobi B-7075, Skil 594, Skil 595, Stanley H 493	Aluminium oxide (corundum)	0675 060 533	20
75 mm x 533 mm	P80	AEG HBS-E 75 S, Bosch 0270, Bosch PBS 75, Bosch PBS 75-E, Hitachi SB 75, Holz-Her 2410, Holz-Her 2411, Holz-Her 2280, Holz-Her 2420, Makita 9900 B, Makita 9901, Metabo BA 0775, Metabo BA E 876, Metabo BA E 087 S, Rockwell 337, Ryobi B-7075, Skil 594, Skil 595, Stanley H 493	Aluminium oxide (corundum)	0675 080 533	20

Continuation **Sanding belt KGX**

Width x length	Grid size	Suitable machines	Material of abrasive medium	Art. no.	P. Qty.
75 mm x 533 mm	P100	AEG HBS-E 75 S, Bosch 0270, Bosch PBS 75, Bosch PBS 75-E, Hitachi SB 75, Holz-Her 2410, Holz-Her 2411, Holz-Her 2280, Holz-Her 2420, Makita 9900 B, Makita 9901, Metabo BA 0775, Metabo BA E 876, Metabo BA E 087 S, Rockwell 337, Ryobi B-7075, Skil 594, Skil 595, Stanley H 493	Aluminium oxide (corundum)	0675 100 533	20
75 mm x 533 mm	P120	AEG HBS-E 75 S, Bosch 0270, Bosch PBS 75, Bosch PBS 75-E, Hitachi SB 75, Holz-Her 2410, Holz-Her 2411, Holz-Her 2280, Holz-Her 2420, Makita 9900 B, Makita 9901, Metabo BA 0775, Metabo BA E 876, Metabo BA E 087 S, Rockwell 337, Ryobi B-7075, Skil 594, Skil 595, Stanley H 493	Aluminium oxide (corundum)	0675 120 533	20
75 mm x 533 mm	P150	AEG HBS-E 75 S, Bosch 0270, Bosch PBS 75, Bosch PBS 75-E, Hitachi SB 75, Holz-Her 2410, Holz-Her 2411, Holz-Her 2280, Holz-Her 2420, Makita 9900 B, Makita 9901, Metabo BA 0775, Metabo BA E 876, Metabo BA E 087 S, Rockwell 337, Ryobi B-7075, Skil 594, Skil 595, Stanley H 493	Aluminium oxide (corundum)	0675 150 533	20
100 mm x 560 mm	P40	AEG HBS 100, AEG HBS-E 100, Black & Decker 405, ELU MHB 50, ELU MHB 90, Festo BUZ-S, Haffner HBU 552, Ryobi HB-422, Ryobi HBE-422	Aluminium oxide (corundum)	0675 040 560	20
100 mm x 560 mm	P60	AEG HBS 100, AEG HBS-E 100, Black & Decker 405, ELU MHB 50, ELU MHB 90, Festo BUZ-S, Haffner HBU 552, Ryobi HB-422, Ryobi HBE-422	Aluminium oxide (corundum)	0675 060 560	20

Width x length	Grid size	Suitable machines	Material of abrasive medium	Art. no.	P. Qty.
100 mm x 560 mm	P80	AEG HBS 100, AEG HBS-E 100, Black & Decker 405, ELU MHB 50, ELU MHB 90, Festo BUZ-S, Haffner HBU 552, Ryobi HB-422, Ryobi HBE-422	Aluminium oxide (corundum)	0675 080 560	20
100 mm x 560 mm	P100	AEG HBS 100, AEG HBS-E 100, Black & Decker 405, ELU MHB 50, ELU MHB 90, Festo BUZ-S, Haffner HBU 552, Ryobi HB-422, Ryobi HBE-422	Aluminium oxide (corundum)	0675 100 560	20
100 mm x 560 mm	P120	AEG HBS 100, AEG HBS-E 100, Black & Decker 405, ELU MHB 50, ELU MHB 90, Festo BUZ-S, Haffner HBU 552, Ryobi HB-422, Ryobi HBE-422	Aluminium oxide (corundum)	0675 120 560	20
100 mm x 560 mm	P150	AEG HBS 100, AEG HBS-E 100, Black & Decker 405, ELU MHB 50, ELU MHB 90, Festo BUZ-S, Haffner HBU 552, Ryobi HB-422, Ryobi HBE-422	Aluminium oxide (corundum)	0675 150 560	20
100 mm x 610 mm	P40	Hitachi SB 10 T, Hitachi SB 10 V, Makita 9401, Makita 9402, Makita 9924 DB, Ryobi B-7200 A, Stanley H 494	Aluminium oxide (corundum)	0675 040 610	20
100 mm x 610 mm	P60	Hitachi SB 10 T, Hitachi SB 10 V, Makita 9401, Makita 9402, Makita 9924 DB, Ryobi B-7200 A, Stanley H 494	Aluminium oxide (corundum)	0675 060 610	20
100 mm x 610 mm	P80	Hitachi SB 10 T, Hitachi SB 10 V, Makita 9401, Makita 9402, Makita 9924 DB, Ryobi B-7200 A, Stanley H 494	Aluminium oxide (corundum)	0675 080 610	20
100 mm x 610 mm	P100	Hitachi SB 10 T, Hitachi SB 10 V, Makita 9401, Makita 9402, Makita 9924 DB, Ryobi B-7200 A, Stanley H 494	Aluminium oxide (corundum)	0675 100 610	20
100 mm x 610 mm	P120	Hitachi SB 10 T, Hitachi SB 10 V, Makita 9401, Makita 9402, Makita 9924 DB, Ryobi B-7200 A, Stanley H 494	Aluminium oxide (corundum)	0675 120 610	20

Continuation **Sanding belt KGX**

Width x length	Grid size	Suitable machines	Material of abrasive medium	Art. no.	P. Qty.
100 mm x 610 mm	P150	Hitachi SB 10 T, Hitachi SB 10 V, Makita 9401, Makita 9402, Makita 9924 DB, Ryobi B-7200 A, Stanley H 494	Aluminium oxide (corundum)	0675 150 610	20
100 mm x 860 mm	P80	Haffner HBS 6, Mafell, stationary, Scheer MB 2	Aluminium oxide (corundum)	0675 080 860	20
105 mm x 620 mm	P40	Bosch GBS 100-AE, Hitachi SB 110, Holz-Her 2422, Holz-Her 2423, Holz-Her 2424 E, Metabo BA 6100	Aluminium oxide (corundum)	0675 040 620	20
105 mm x 620 mm	P60	Bosch GBS 100-AE, Hitachi SB 110, Holz-Her 2422, Holz-Her 2423, Holz-Her 2424 E, Metabo BA 6100	Aluminium oxide (corundum)	0675 060 620	20
105 mm x 620 mm	P80	Bosch GBS 100-AE, Hitachi SB 110, Holz-Her 2422, Holz-Her 2423, Holz-Her 2424 E, Metabo BA 6100	Aluminium oxide (corundum)	0675 080 620	20
105 mm x 620 mm	P100	Bosch GBS 100-AE, Hitachi SB 110, Holz-Her 2422, Holz-Her 2423, Holz-Her 2424 E, Metabo BA 6100	Aluminium oxide (corundum)	0675 100 620	20
105 mm x 620 mm	P120	Bosch GBS 100-AE, Hitachi SB 110, Holz-Her 2422, Holz-Her 2423, Holz-Her 2424 E, Metabo BA 6100	Aluminium oxide (corundum)	0675 120 620	20
105 mm x 620 mm	P150	Bosch GBS 100-AE, Hitachi SB 110, Holz-Her 2422, Holz-Her 2423, Holz-Her 2424 E, Metabo BA 6100	Aluminium oxide (corundum)	0675 150 620	20
110 mm x 620 mm	P80	AEG HBS 2-110, Bosch 1270, Holz-Her HBS 110, Mafell ZUB 110	Aluminium oxide (corundum)	0675 080 621	20
110 mm x 620 mm	P100			0675 100 621	20

Sanding belt, parquet KGX

For sanding parquet floors.

Width x length	200 mm x 750 mm
Design	Würth wavy seal
Suitable machines	Lägler Hummel, Pallman Cobra
Material of abrasive medium	Special corundum with high cutting performance



Grid size	Art. no.	P. Qty.
P16	0675 750 16	20
P24	0675 750 24	20
P30	0675 750 30	20
P36	0675 750 36	20
P40	0675 750 40	20
P60	0675 750 60	20
P80	0675 750 80	20
P100	0675 750 100	20
P120	0675 750 120	20

With this closure system, the belt can also be tensioned against the running direction. If the belt becomes clogged in one running direction, it is possible to turn it around.

Fabric sanding belt Zirconia alumina electric grinding file

For sanding of pipes, pipe elbows and closed pipe structures, sanding welding seams, removing tempering colour, removing rust and scale.

- High and fast material removal rate with cool grinding



Material of abrasive medium	Zirconium conrundum
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Width x length	Grid size	Art. no.	P. Qty.
6 mm x 520 mm	40	0672 988 40	20
6 mm x 520 mm	60	0672 988 60	20
6 mm x 520 mm	80	0672 988 80	20
6 mm x 520 mm	120	0672 988 120	20
9 mm x 533 mm	40	0672 996 40	20
9 mm x 533 mm	60	0672 996 60	20
9 mm x 533 mm	80	0672 996 80	20
9 mm x 533 mm	120	0672 996 120	20
12 mm x 520 mm	40	0672 989 40	20
12 mm x 520 mm	60	0672 989 60	20
12 mm x 520 mm	80	0672 989 80	20
12 mm x 520 mm	120	0672 989 120	20
12 mm x 533 mm	40	0672 997 40	20
12 mm x 533 mm	60	0672 997 60	20
12 mm x 533 mm	120	0672 997 120	20
16 mm x 520 mm	40	0672 990 40	20
16 mm x 520 mm	60	0672 990 60	20
16 mm x 520 mm	80	0672 990 80	20
16 mm x 520 mm	100	0672 990 100	20
16 mm x 520 mm	120	0672 990 120	20

- Work only with appropriate protective equipment, such as safety goggles, gloves, hearing protection etc.
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)

Fabric sanding belt CERALINE tube belt sander

For sanding of pipes, pipe elbows and closed pipe structures, sanding welding seams, removing tempering colour, removing rust and scale.



- Extremely high and very fast material removal rate with cool grinding
- Very long service life and low contact pressure

Material of abrasive medium	Ceramic grain
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Width x length	Grid size	Art. no.	P. Qty.
15 mm x 650 mm	80	0673 709 008	20
15 mm x 650 mm	120	0673 709 012	20
20 mm x 820 mm	40	0673 701 004	10
20 mm x 820 mm	60	0673 701 006	10
20 mm x 820 mm	80	0673 701 008	10
20 mm x 820 mm	120	0673 701 012	10
30 mm x 533 mm	40	0673 702 004	10
30 mm x 533 mm	60	0673 702 006	10
30 mm x 533 mm	80	0673 702 008	10
30 mm x 533 mm	120	0673 702 012	10
30 mm x 610 mm	60	0673 703 006	10
30 mm x 610 mm	80	0673 703 008	10
35 mm x 650 mm	40	0673 708 004	10
35 mm x 650 mm	60	0673 708 006	10
35 mm x 650 mm	80	0673 708 008	10
35 mm x 650 mm	120	0673 708 012	10
40 mm x 618 mm	40	0673 704 004	10
40 mm x 618 mm	60	0673 704 006	10
40 mm x 618 mm	80	0673 704 008	10
40 mm x 618 mm	120	0673 704 012	10
40 mm x 675 mm	40	0673 705 004	10
40 mm x 675 mm	60	0673 705 006	10
40 mm x 675 mm	80	0673 705 008	10
40 mm x 675 mm	120	0673 705 012	10
40 mm x 760 mm	40	0673 706 004	10
40 mm x 760 mm	60	0673 706 006	10
40 mm x 760 mm	80	0673 706 008	10
40 mm x 760 mm	120	0673 706 012	10
40 mm x 820 mm	60	0673 707 006	10
40 mm x 820 mm	80	0673 707 008	10
40 mm x 820 mm	120	0673 707 012	10

- Work only with appropriate protective equipment, such as safety goggles, gloves, hearing protection etc.
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)

Sanding belt CERALINE For stationary contact grinding machines

Extremely high and very fast removal rate with cool grinding.

- Very long service life and low contact pressure
- High-performance sanding grain and active grinding top layer

Material of abrasive medium	Ceramic grain
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Width x length	Grid size	Art. no.	P. Qty.
75 mm x 2000 mm	K40	0672 975 004	5
75 mm x 2000 mm	K60	0672 975 006	5
75 mm x 2000 mm	K80	0672 975 008	5
75 mm x 2250 mm	K60	0672 976 006	5
150 mm x 2000 mm	K40	0672 915 004	5
150 mm x 2000 mm	K60	0672 915 006	5
150 mm x 2000 mm	K80	0672 915 008	5

- Work only with appropriate protective equipment, such as safety goggles, gloves, hearing protection etc.
- Free from iron, chlorine and sulphur ($\leq 0.1\%$)

Wheel Hub Grinder Type A

Special grinder for cleaning the wheel centring apparatus and the contact surface between the wheel and the hub.

- Grinding bell with nylon sanding fleece disc
- Fast removal of rust and deposits on wheel hubs
- Optimal processing quality
- Use in connection with commercially available electric or battery-powered drills
- Cost savings owing to replaceable nylon sanding fleece disc



Diameter	160 mm
Diameter 2	60 mm
Max. rotation speed	1500 rpm

Art. no. 0585 190 1

P. Qty.: 1

Wheel Hub Grinder Type A with 1/2" drive

Special grinder for cleaning the wheel centring apparatus and the contact surface between the wheel and the hub.

- Grinding bell with nylon sanding fleece disc
- Fast removal of rust and deposits on wheel hubs
- Optimal processing quality
- Use in connection with commercially available electric or battery-powered drills
- Cost savings owing to replaceable nylon sanding fleece disc



Diameter	150 mm
Max. rotation speed	1500 rpm

Art. no. 0585 190 4

P. Qty.: 1

Use for wheel hub of max. 70 mm diameter. Cleaning is carried out through rotation speed and not through maximum downforce.

Nylon Sanding Fleece Disc

For wheel hub grinders



Type description	Diameter (Ø)	Art. no.	P. Qty.
Type A	160 mm	0585 190 10	3
Type A with 1/2 inch drive	150 mm	0585 190 40	3
Type B	200 mm	0585 190 20	2
Type C	40 mm	0585 190 30	5
Type C	53 mm	0585 190 31	5

Longlife Mini coarse nylon abrasive fleece disc

Extremely fast cleaning and maximum service life when removing welding seams, scale, corrosion and coatings.

- Ceramic abrasive grain for a very high rate of material removal and very long service life
- Improved synthetic resin bonding and open fleece structure prevent the disc from smearing the surface



Colour	Red, Dark red
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Diameter (Ø)	Max. rotation speed	Recommended rotation speed	Art. no.	P. Qty.
50 mm	13000 rpm	12000 rpm	0673 222 50	10
75 mm	11000 rpm	10000 rpm	0673 222 75	10

Observe maximum rpm

Vehicle finishing disc

For removing dust inclusions, paint runs, and orange peeling, as well as for fine sanding before polishing and matting of paint surfaces.

- Significantly shorter grinding and polishing times
- Full-surface extraction
- Pressure-equalising, absorbent and permeable
- Safe working



Form	Washer
Adhesive system	Hook and loop

Diameter (Ø)	Grinding pattern	Art. no.	P. Qty.
50 mm	1000	0587 400 100	25
50 mm	2000	0587 400 200	25
50 mm	4000	0587 400 400	25
75 mm	2000	0587 841 200	20
75 mm	3000	0587 841 300	20
150 mm	500	0587 843 050	20
150 mm	1000	0587 843 100	20
150 mm	2000	0587 843 200	20
150 mm	3000	0587 843 300	20

Vehicle sanding pad

Sanding in hard-to-reach areas such as door handle knobs, bumpers and radiator grilles.

Safe method of working

- Sanding pad can be folded without kinks owing the foam material
- The foam material prevents pointed pressure on the surface -> The risk of sanding through on edges, beading and curves is reduced to a minimum



Pressure-equalising, absorbent and permeable, guarantees the controlled absorption and release of water.

Length x width x height	140 x 115 x 5 mm
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Grid size	Art. no.	P. Qty.
280	0587 001	20
500	0587 002	20
1000	0587 003	20
1500	0587 004	20

Vehicle dry sandpaper Arizona® Perfect soft

For all paint repair work with intermediate and fine sanding. For fast, convenient sanding of hard-to-reach areas, e.g. edges and curves in addition to dry sanding.

Quick, flexible and secure

- Highly flexible finishing paper on foam
- Optimum adjustment to tight radii, curvatures and recesses
- No sanding through on edges and curves



Form	Roll
Width x length	115 mm x 25 m
Backing material	A-weight paper

Grid size	Art. no.	P. Qty.
150	5506 442 115	1
180	5506 442 118	1
220	5506 442 122	1
240	5506 442 124	1
320	5506 442 132	1
400	5506 442 140	1
500	5506 442 150	1
600	5506 442 160	1
800	5506 442 180	1

Packing unit 1 = 1 roll with 200 hand pads = 25 meters

Sanding disc

For edge sanders with hook-and-loop attachment

- KPE = E-paper carrier material, grain size 40, 60, 80, 100
- KPC = C-paper carrier material, grain size 120
- Synthetic resin bond
- Grain: Aluminium oxide
- Used for sanding parquet and floorboards in problem areas such as radiators and stairs
- The sanding discs have a slotted central hole, which allows them to be attached to larger flanges



Form	Washer
Diameter (Ø)	178 mm
Hole pattern	Unpunched
Adhesive system	Hook and loop
Suitable machines	Pallmann Spider, Bona Edge, Bona Edge XL, Lägler Unico, Pallmann Gecko Flex, Pallmann Gecko Star, Janser Puma, Roll ROMO 180

Grid size	Art. no.	P. Qty.
40	0583 561 40	50
60	0583 561 60	50
80	0583 561 80	50
100	0583 561 100	50
120	0583 561 120	50

Vehicle dry sandpaper strip Arizona® perfect

For sanding old paint, fillers, plastics, factory primers on new parts and matting of paintwork.

Up to 20% higher material removal and service life increased by over 90%

- P40-80: Ceramic abrasive grain in the coarse range
- From P220: Newly developed stearate concept

Short sanding time and efficient work



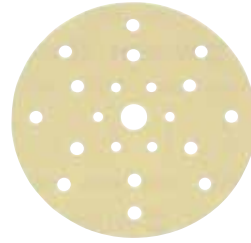
Form	Strip
Adhesive system	Hook and loop

Width x length	Hole pattern	Grid size	Art. no.	P. Qty.
70 mm x 125 mm	8 hole	40	5506 128 004	50
70 mm x 125 mm	8 hole	60	5506 128 006	50
70 mm x 125 mm	8 hole	80	5506 128 008	100
70 mm x 125 mm	8 hole	100	5506 128 010	100
70 mm x 125 mm	8 hole	120	5506 128 012	100
70 mm x 125 mm	8 hole	150	5506 128 015	100
70 mm x 125 mm	8 hole	180	5506 128 018	100
70 mm x 125 mm	8 hole	220	5506 128 022	100
70 mm x 125 mm	8 hole	240	5506 128 024	100
70 mm x 125 mm	8 hole	320	5506 128 032	100
70 mm x 125 mm	8 hole	400	5506 128 040	100
70 mm x 198 mm	8 hole	40	5506 129 004	50
70 mm x 198 mm	8 hole	60	5506 129 006	50
70 mm x 198 mm	8 hole	80	5506 129 008	100
70 mm x 198 mm	8 hole	100	5506 129 010	100
70 mm x 198 mm	8 hole	120	5506 129 012	100
70 mm x 198 mm	8 hole	180	5506 129 018	100
70 mm x 198 mm	8 hole	220	5506 129 022	100
70 mm x 198 mm	8 hole	240	5506 129 024	100
70 mm x 198 mm	8 hole	320	5506 129 032	100
70 mm x 198 mm	8 hole	500	5506 129 050	100
70 mm x 420 mm	14-hole	40	5506 157 004	50
70 mm x 420 mm	14-hole	60	5506 157 006	50
70 mm x 420 mm	14-hole	80	5506 157 008	100
70 mm x 420 mm	14-hole	100	5506 157 010	100
70 mm x 420 mm	14-hole	120	5506 157 012	100
70 mm x 420 mm	14-hole	150	5506 157 015	100
70 mm x 420 mm	14-hole	180	5506 157 018	100
70 mm x 420 mm	14-hole	220	5506 157 022	100
70 mm x 420 mm	14-hole	240	5506 157 024	100
70 mm x 420 mm	14-hole	500	5506 157 050	100
115 mm x 230 mm	10-hole	24	5506 132 024	100
115 mm x 230 mm	10-hole	40	5506 132 004	50
115 mm x 230 mm	10-hole	80	5506 132 008	100
115 mm x 230 mm	10-hole	100	5506 132 010	100
115 mm x 230 mm	10-hole	120	5506 132 012	100
115 mm x 230 mm	10-hole	150	5506 132 015	100
115 mm x 230 mm	10-hole	180	5506 132 018	100
115 mm x 230 mm	10-hole	220	5506 132 022	100

Vehicle dry sandpaper disc Arizona® Perfect

For sanding old paint, fillers, plastics, factory primers on new parts and matting of paintwork.

- Up to 20% higher material removal and service life increased by over 90%
- Short sanding time and efficient work



Form	Washer
Diameter (Ø)	150 mm
Adhesive system	Hook and loop

Grid size	Hole pattern	Art. no.	P. Qty.
40	Multiple perforations	5506 353 004	50
40	Unpunched	5506 343 004	50
60	Multiple perforations	5506 353 006	50
60	Unpunched	5506 343 006	50
80	Multiple perforations	5506 353 008	100
80	Unpunched	5506 343 008	100
100	Multiple perforations	5506 353 010	100
100	Unpunched	5506 343 010	100
120	Multiple perforations	5506 353 012	100
120	Unpunched	5506 343 012	100
150	Multiple perforations	5506 353 015	100
150	Unpunched	5506 343 015	100
180	Multiple perforations	5506 353 018	100
180	Unpunched	5506 343 018	100
220	Multiple perforations	5506 353 022	100
220	Unpunched	5506 343 022	100
240	Multiple perforations	5506 353 024	100
240	Unpunched	5506 343 024	100
320	Multiple perforations	5506 353 032	100
320	Unpunched	5506 343 032	100
400	Multiple perforations	5506 353 040	100
400	Unpunched	5506 343 040	100
500	Multiple perforations	5506 353 050	100
500	Unpunched	5506 343 050	100
600	Multiple perforations	5506 353 060	100

Vehicle dry sandpaper roll Arizona® Perfect

For sanding old paint, fillers, plastics, factory primers on new parts and matting of paintwork.

- Up to 20% higher material removal and service life increased by over 90%
- Short sanding time and efficient work



Form	Roll
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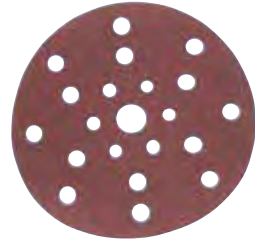
Width x length	Grid size	Backing material	Art. no.	P. Qty.
115 mm x 25 m	40	D-paper	5506 247 104	1
115 mm x 25 m	60	D-paper	5506 247 106	1
115 mm x 50 m	80	D-paper	5506 247 108	1
115 mm x 50 m	100	D-paper	5506 247 110	1

Width x length	Grid size	Backing material	Art. no.	P. Qty.
115 mm x 50 m	120	C-weight paper	5506 247 112	1
115 mm x 50 m	150	C-weight paper	5506 247 115	1
115 mm x 50 m	180	C-weight paper	5506 247 118	1
115 mm x 50 m	240	C-weight paper	5506 247 124	1
115 mm x 50 m	320	D-paper	5506 247 132	1

Vehicle dry sandpaper disc RED PERFECT®

Used to sand fillers and filler compounds, old paints, HS top-coat paints, water-based paints, factory primers on new parts, plastic parts and composite fibre materials (e.g. GFRP).

- No tearing or fraying of disc around edges and extraction holes
- Quicker sanding times and effective operation with very positive results
- Very high material removal and long service life



Form	Washer
Hole pattern	Multiple perforations
Adhesive system	Hook and loop



Diameter (Ø)	Grid size	Art. no.	P. Qty.
150 mm	P80	0581 353 008	100
150 mm	P100	0581 353 010	100
150 mm	P120	0581 353 012	100
150 mm	P150	0581 353 015	100
150 mm	P180	0581 353 018	100
150 mm	P220	0581 353 022	100
150 mm	P240	0581 353 024	100
150 mm	P320	0581 353 032	100
150 mm	P400	0581 353 040	100
150 mm	P500	0581 353 050	100
150 mm	P600	0581 353 060	100
150 mm	P800	0581 353 080	100
150 mm	P1000	0581 353 100	100
150 mm	P1200	0581 353 120	100
150 mm	P1500	0581 353 150	100
150 mm	P2000	0581 353 200	100
150 mm	P2500	0581 353 250	100
150 mm	P3000	0581 353 300	100

Vehicle dry sandpaper strip red perfect®

Used to sand fillers, old paints, HS top-coat paints, water-based paints, new-part factory primers, plastic parts and composite fibre materials (e.g. GFRP).

No tearing or fraying of disc around edges and extraction holes

Quicker grinding times and effective operation with very positive results

- 21-hole pattern for thorough all-over vacuuming of sanding dust
- Suitable for all commercially available adhesive discs

Extremely high rate of material removal and long service life



Form	Strip
Adhesive system	Hook and loop

Width x length	Hole pattern	Grid size	Art. no.	P. Qty.
70 mm x 125 mm	8 hole	P120	0581 128 012	100
70 mm x 125 mm	8 hole	P150	0581 128 015	100
70 mm x 125 mm	8 hole	P180	0581 128 018	100
70 mm x 125 mm	8 hole	P220	0581 128 022	100
70 mm x 125 mm	8 hole	P240	0581 128 024	100
70 mm x 125 mm	8 hole	P320	0581 128 032	100
70 mm x 125 mm	8 hole	P400	0581 128 040	100
70 mm x 198 mm	8 hole	P80	0581 129 008	50
70 mm x 198 mm	8 hole	P100	0581 129 010	100
70 mm x 198 mm	8 hole	P120	0581 129 012	100
70 mm x 198 mm	8 hole	P150	0581 129 015	100
70 mm x 198 mm	8 hole	P180	0581 129 018	100
70 mm x 198 mm	8 hole	P220	0581 129 022	100
70 mm x 198 mm	8 hole	P240	0581 129 024	100
70 mm x 198 mm	8 hole	P400	0581 129 040	100
70 mm x 400 mm	14-hole	P80	0581 157 008	50
70 mm x 400 mm	14-hole	P100	0581 157 010	100
70 mm x 400 mm	14-hole	P120	0581 157 012	100
70 mm x 400 mm	14-hole	P150	0581 157 015	100
70 mm x 400 mm	14-hole	P180	0581 157 018	100
70 mm x 400 mm	14-hole	P220	0581 157 022	100
70 mm x 400 mm	14-hole	P240	0581 157 024	100
70 mm x 400 mm	14-hole	P320	0581 157 032	100
70 mm x 400 mm	14-hole	P400	0581 157 040	100
115 mm x 230 mm	10-hole	P80	0581 132 008	50
115 mm x 230 mm	10-hole	P100	0581 132 010	100
115 mm x 230 mm	10-hole	P120	0581 132 012	100
115 mm x 230 mm	10-hole	P150	0581 132 015	100
115 mm x 230 mm	10-hole	P180	0581 132 018	100
115 mm x 230 mm	10-hole	P220	0581 132 022	100
115 mm x 230 mm	10-hole	P240	0581 132 024	100
115 mm x 230 mm	10-hole	P320	0581 132 032	100
115 mm x 230 mm	10-hole	P400	0581 132 040	100

Vehicle Nylon Sanding Fleece

Highly flexible nylon hand sanding fleece for cleaning surfaces (rust removal) and matting new parts, old paint and aluminium. For optimum use in critical areas like folds, corners, recesses or other sharp corners and edges and on interior body parts.

Highly flexible nylon sanding fleece

- Optimum adjustment to tight radii, curvatures and recesses.
- Fast, convenient sanding of hard-to-reach areas.

Contains no metallic components

No danger of soiling or rusting



Width	115 mm
Length	10 m
Material	Fleece

Grid size	Colour	Art. no.	P. Qty.
A-280	Red	0585 804 280	1
S 1200	Grey	0585 804 600	1

Dust-free sanding system Useit® Superpad SG

The finishing disc for finishing and polish sanding

- The sanding dust is vacuumed away completely from the entire surface
- Quicker grinding times and effective operation at a grinding performance up to six times higher compared with conventional abrasives
- Can achieve very high gloss without polishing paste
- Removes dust inclusions



Form	Washer
Adhesive system	Hook and loop
Suitable machines	Random orbit sander D 150



Diameter (Ø)	Grinding pattern	Art. no.	P. Qty.
136 mm	600	0587 786 060	25
136 mm	1800	0587 786 180	25
156 mm	600	0587 787 060	25
156 mm	1800	0587 787 180	25
210 mm	600	0587 788 060	25
210 mm	1800	0587 788 180	25

Suitable for wet and dry sanding.

Sanding disc Useit Superpad, vehicles

The perforated sanding disc for filler and filler compounds, HS top-coat paints and water-based paints, as well as plastics and composite fibre materials (e.g. GFRP).



- Sanding disc perforated over entire surface
- Dust and shadow-free operation
- Saves time and money.
- No clogging of sanding disc
- Foam insulation
- The risk of sanding through on edges, beading and curves is reduced to a minimum.



Form	Washer
Hole pattern	Multiple perforations
Adhesive system	Hook and loop

Diameter (Ø)	Grid size	Art. no.	P. Qty.
50 mm	180	0581 300 180	25
50 mm	220	0581 300 220	25
50 mm	240	0581 300 240	25
50 mm	320	0581 300 320	25
50 mm	400	0581 300 400	25
50 mm	500	0581 300 500	25
50 mm	600	0581 300 600	25
75 mm	180	0581 301 180	25
75 mm	220	0581 301 220	25
75 mm	240	0581 301 240	25
75 mm	320	0581 301 320	25
75 mm	400	0581 301 400	25
75 mm	500	0581 301 500	25
75 mm	600	0581 301 600	25
125 mm	40	0581 302 40	25
125 mm	60	0581 302 60	25
125 mm	80	0581 302 80	25
125 mm	100	0581 302 100	25
125 mm	120	0581 302 120	25
125 mm	150	0581 302 150	25
125 mm	180	0581 302 180	25
125 mm	220	0581 302 220	25
125 mm	240	0581 302 240	25
125 mm	320	0581 302 320	25
125 mm	400	0581 302 400	25
125 mm	500	0581 302 500	25
125 mm	600	0581 302 600	25
150 mm	40	0581 303 40	25
150 mm	60	0581 303 60	25
150 mm	80	0581 303 80	25
150 mm	100	0581 303 100	25
150 mm	120	0581 303 120	25
150 mm	150	0581 303 150	25
150 mm	180	0581 303 180	25
150 mm	220	0581 303 220	25
150 mm	240	0581 303 240	25

Diameter (Ø)	Grid size	Art. no.	P. Qty.
150 mm	320	0581 303 320	25
150 mm	400	0581 303 400	25
150 mm	500	0581 303 500	25
150 mm	600	0581 303 600	25

The following factors can affect the sanding results:

- 1. The condition of the surface (type of filler, spraying pattern, degree of drying through).
- 2. The processor (sanding pressure, feed rate, sanding technique).
- 3. The sanding plate (design, e.g. shape and hardness).
- 4. The processing machine (rotation speed, drive, stroke, suction etc.).

Sandpaper strip Useit® Superpad, vehicles

The perforated sanding strip for fillers, HS top-coat paints and water-based paints, as well as plastics and composite fibre materials (e.g. GFRP).

- Sanding strip perforated over entire surface
- Dust and shadow-free operation
- Saves time and money.
- No clogging of sanding disc
- Foam insulation
- The risk of sanding through on edges, beading and curves is reduced to a minimum



Form	Strip
Hole pattern	Multiple perforations
Adhesive system	Hook and loop

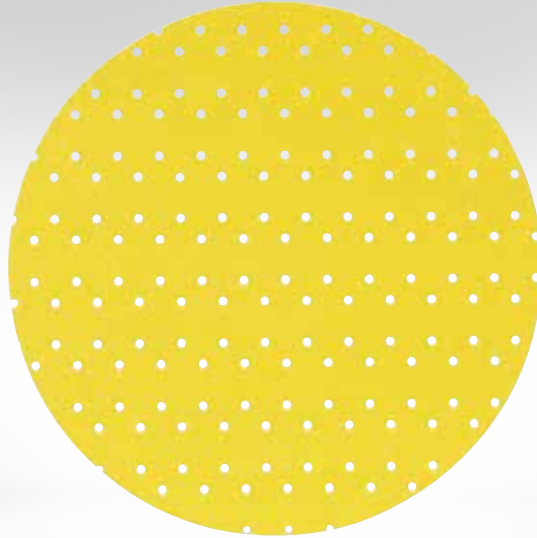
Width x length	Grid size	Art. no.	P. Qty.
70 mm x 120 mm	40	0581 310 40	25
70 mm x 120 mm	60	0581 310 60	25
70 mm x 120 mm	80	0581 310 80	25
70 mm x 120 mm	100	0581 310 100	25
70 mm x 120 mm	120	0581 310 120	25
70 mm x 120 mm	150	0581 310 150	25
70 mm x 120 mm	180	0581 310 180	25
70 mm x 120 mm	220	0581 310 220	25
70 mm x 120 mm	240	0581 310 240	25
70 mm x 420 mm	40	0581 311 40	25
70 mm x 420 mm	60	0581 311 60	25
70 mm x 420 mm	80	0581 311 80	25
70 mm x 420 mm	100	0581 311 100	25
70 mm x 420 mm	120	0581 311 120	25
70 mm x 420 mm	150	0581 311 150	25
70 mm x 420 mm	180	0581 311 180	25
70 mm x 420 mm	220	0581 311 220	25
70 mm x 420 mm	240	0581 311 240	25
93 mm x 178 mm	120	0581 313 120	25
115 mm x 228 mm	P40	0581 315 40	25
115 mm x 228 mm	P60	0581 315 60	25
115 mm x 228 mm	P80	0581 315 80	25
115 mm x 228 mm	P100	0581 315 100	25
115 mm x 228 mm	P120	0581 315 120	25

Continuation **Sandpaper strip Useit® Superpad, vehicles**

Width x length	Grid size	Art. no.	P. Qty.
115 mm x 228 mm	P150	0581 315 150	25
115 mm x 228 mm	P180	0581 315 180	25
115 mm x 228 mm	P220	0581 315 220	25
115 mm x 228 mm	P240	0581 315 240	25

The following factors can affect the sanding results:

- 1. The condition of the surface (type of filler, spraying pattern, degree of drying through).
- 2. The processor (sanding pressure, feed rate, sanding technique).
- 3. The sanding plate (design, e.g. shape and hardness).
- 4. The processing machine (rotation speed, drive, stroke, suction etc.).



Sanding disc Useit® Superpad, wood

For treated and untreated hardwood and softwood, fillers, plastics, plasterboards, paints, hard and soft paint systems and mineral materials (artificial stone).

- The sanding dust is vacuumed away completely from the entire surface
- Shorter sanding time and effective working with a sanding performance up to four times that of conventional perforated abrasives
- In contrast to conventional perforated abrasives, the hole pattern of the Würth Useit Superpad Wood has been optimised for the material and the amount of dust produced

Form	Washer
Hole pattern	Multiple perforations
Adhesive system	Hook and loop



Diameter (Ø)	Grid size	Art. no.	P. Qty.
125 mm	40	0581 202 40	25
125 mm	60	0581 202 60	25
125 mm	80	0581 202 80	25
125 mm	100	0581 202 100	25
125 mm	120	0581 202 120	25
125 mm	150	0581 202 150	25
125 mm	180	0581 202 180	25
125 mm	220	0581 202 220	25
125 mm	240	0581 202 240	25
125 mm	320	0581 202 320	25
125 mm	400	0581 202 400	25

Continuation **Sanding disc Useit® Superpad, wood**

Diameter (Ø)	Grid size	Art. no.	P. Qty.
150 mm	40	0581 203 40	25
150 mm	60	0581 203 60	25
150 mm	80	0581 203 80	25
150 mm	100	0581 203 100	25
150 mm	120	0581 203 120	25
150 mm	150	0581 203 150	25
150 mm	180	0581 203 180	25
150 mm	220	0581 203 220	25
150 mm	240	0581 203 240	25
150 mm	320	0581 203 320	25
150 mm	400	0581 203 400	25
150 mm	500	0581 203 500	25
150 mm	600	0581 203 600	25
200 mm	220	0581 204 220	25
200 mm	400	0581 204 400	25
225 mm	40	0581 205 40	25
225 mm	60	0581 205 60	25
225 mm	80	0581 205 80	25
225 mm	100	0581 205 100	25
225 mm	120	0581 205 120	25
225 mm	150	0581 205 150	25
225 mm	180	0581 205 180	25
225 mm	220	0581 205 220	25

Sandpaper strip Useit® Superpad, wood

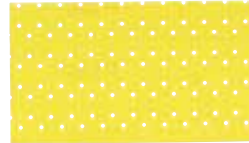
The perforated sanding strip for treated and untreated hardwood and softwood, fillers, plastics, plasterboards, paints, hard and soft paint systems and mineral materials (artificial stone).

The sanding dust is vacuumed away completely from the entire surface

- No clogging, high sanding performance, long service life, uniform grinding finish
- Dust and shadow-free operation

Saves time and money

No clogging of abrasive



Form	Strip
Hole pattern	Multiple perforations
Adhesive system	Hook and loop

Width x length	Grid size	Art. no.	P. Qty.
70 mm x 120 mm	40	0581 210 40	25
70 mm x 120 mm	60	0581 210 60	25
70 mm x 120 mm	80	0581 210 80	25
70 mm x 120 mm	100	0581 210 100	25
70 mm x 120 mm	120	0581 210 120	25
70 mm x 120 mm	150	0581 210 150	25
70 mm x 120 mm	180	0581 210 180	25
70 mm x 120 mm	220	0581 210 220	25

Width x length	Grid size	Art. no.	P. Qty.
70 mm x 120 mm	240	0581 210 240	25
81 mm x 133 mm	40	0581 212 40	25
81 mm x 133 mm	60	0581 212 60	25
81 mm x 133 mm	80	0581 212 80	25
81 mm x 133 mm	100	0581 212 100	25
81 mm x 133 mm	120	0581 212 120	25
81 mm x 133 mm	150	0581 212 150	25
81 mm x 133 mm	180	0581 212 180	25
81 mm x 133 mm	220	0581 212 220	25
81 mm x 133 mm	240	0581 212 240	25
115 mm x 228 mm	40	0581 215 40	25
115 mm x 228 mm	60	0581 215 60	25
115 mm x 228 mm	80	0581 215 80	25
115 mm x 228 mm	100	0581 215 100	25
115 mm x 228 mm	120	0581 215 120	25
115 mm x 228 mm	150	0581 215 150	25
115 mm x 228 mm	180	0581 215 180	25
115 mm x 228 mm	220	0581 215 220	25
115 mm x 228 mm	240	0581 215 240	25
115 mm x 280 mm	40	0581 216 40	25
115 mm x 280 mm	60	0581 216 60	25
115 mm x 280 mm	80	0581 216 80	25
115 mm x 280 mm	100	0581 216 100	25
115 mm x 280 mm	120	0581 216 120	25
115 mm x 280 mm	150	0581 216 150	25
115 mm x 280 mm	180	0581 216 180	25
115 mm x 280 mm	220	0581 216 220	25
115 mm x 280 mm	240	0581 216 240	25

Sandpaper triangle Useit® Superpad, wood

For treated and untreated hardwood and softwood, fillers, plastics, plasterboards, paints, hard and soft paint systems and mineral materials (artificial stone).

- The sanding dust is vacuumed away completely from the entire surface
- Saves time and money
- No clogging of abrasive



Form	Triangular
Hole pattern	Multiple perforations
Adhesive system	Hook and loop



Dimensions of triangle-shaped sandpaper	Grid size	Art. no.	P. Qty.
93 x 93 x 93 mm	40	0581 220 40	25
93 x 93 x 93 mm	60	0581 220 60	25
93 x 93 x 93 mm	80	0581 220 80	25
93 x 93 x 93 mm	100	0581 220 100	25
93 x 93 x 93 mm	120	0581 220 120	25
93 x 93 x 93 mm	150	0581 220 150	25
93 x 93 x 93 mm	180	0581 220 180	25

Continuation **Sandpaper triangle Useit® Superpad, wood**

Dimensions of triangle-shaped sandpaper	Grid size	Art. no.	P. Qty.
93 x 93 x 93 mm	220	0581 220 220	25
93 x 93 x 93 mm	240	0581 220 240	25
100 x 147 mm	40	0581 221 40	25
100 x 147 mm	60	0581 221 60	25
100 x 147 mm	80	0581 221 80	25
100 x 147 mm	100	0581 221 100	25
100 x 147 mm	120	0581 221 120	25
100 x 147 mm	150	0581 221 150	25
100 x 147 mm	180	0581 221 180	25
100 x 147 mm	220	0581 221 220	25
100 x 147 mm	240	0581 221 240	25

Sandpaper roll Useit® Superpad, wood

The perforated sanding roll for treated and untreated hardwood and softwood, fillers, plastics, plasterboards, paints, hard and soft paint systems and mineral materials (artificial stone).

The sanding dust is vacuumed away completely from the entire surface

- No clogging, high sanding performance, long service life, uniform grinding finish
- Dust and shadow-free operation

Saves time and money

No clogging of abrasive



Form	Roll
Width x length	115 mm x 18 m

Grid size	Backing material	Art. no.	P. Qty.
40	D-paper	0581 230 40	1
60	D-paper	0581 230 60	1
80	D-paper	0581 230 80	1
100	D-paper	0581 230 100	1
120	D-paper	0581 230 120	1
150	D-paper	0581 230 150	1
180	D-paper	0581 230 180	1
220	D-paper	0581 230 220	1
240	D-paper	0581 230 240	1
320	C-weight paper	0581 230 320	1
400	C-weight paper	0581 230 400	1
500	C-weight paper	0581 230 500	1
600	C-weight paper	0581 230 600	1

Dry abrasive paper strips, wood KP perfect

Dry abrasive paper for pre-sanding of untreated soft and hardwoods, MDF, OSB (oriented strand board) and veneered panels and plywood.



Form	Strip
Adhesive system	Hook and loop

Width x length	Hole pattern	Grid size	Art. no.	P. Qty.
70 mm x 120 mm	Unpunched	P80	0583 570 80	50
70 mm x 120 mm	Unpunched	P100	0583 570 100	50
70 mm x 120 mm	Unpunched	P120	0583 570 120	50
70 mm x 120 mm	Unpunched	P150	0583 570 150	50
70 mm x 120 mm	Unpunched	P180	0583 570 180	50
81 mm x 133 mm	8 hole	P40	0583 575 40	50
81 mm x 133 mm	8 hole	P60	0583 575 60	50
81 mm x 133 mm	8 hole	P80	0583 575 80	50
81 mm x 133 mm	8 hole	P100	0583 575 100	50
81 mm x 133 mm	8 hole	P120	0583 575 120	50
81 mm x 133 mm	8 hole	P150	0583 575 150	50
93 mm x 178 mm	8 hole	P40	0583 580 40	50
93 mm x 178 mm	8 hole	P60	0583 580 60	50
93 mm x 178 mm	8 hole	P80	0583 580 80	50
93 mm x 178 mm	8 hole	P100	0583 580 100	50
93 mm x 178 mm	8 hole	P120	0583 580 120	50
115 mm x 228 mm	10-hole	P40	0583 585 40	50
115 mm x 228 mm	10-hole	P60	0583 585 60	50
115 mm x 228 mm	10-hole	P80	0583 585 80	50
115 mm x 228 mm	10-hole	P100	0583 585 100	50
115 mm x 228 mm	10-hole	P120	0583 585 120	50
115 mm x 228 mm	10-hole	P150	0583 585 150	50

Wood dry sandpaper triangle KP perfect

Dry abrasive paper for pre-sanding of untreated soft and hardwoods, MDF, OSB (oriented strand board) and veneered panels and plywood.



Form	Triangular
Dimensions of triangle-shaped sandpaper	90 x 90 x 90 mm
Hole pattern	6 hole
Adhesive system	Hook and loop

Grid size	Art. no.	P. Qty.
P40	0583 598 40	50
P60	0583 598 60	50
P80	0583 598 80	50
P100	0583 598 100	50
P120	0583 598 120	50
P150	0583 598 150	50

Dry abrasive paper roll, wood KP perfect

For pre-sanding untreated softwood and hardwood, MDF, OSB (oriented strand board), veneered panels and plywood.



Form	Roll
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Width x length	Grid size	Backing material	Art. no.	P. Qty.
115 mm x 25 m	P40	E-paper	0583 115 40	1
115 mm x 50 m	P60	E-paper	0583 115 60	1
115 mm x 50 m	P80	E-paper	0583 115 80	1
115 mm x 50 m	P100	E-paper	0583 115 100	1
115 mm x 50 m	P120	E-paper	0583 115 120	1
115 mm x 50 m	P120	C-weight paper	0583 215 120	1
115 mm x 50 m	P150	E-paper	0583 115 150	1
115 mm x 50 m	P150	C-weight paper	0583 215 150	1
115 mm x 50 m	P180	C-weight paper	0583 215 180	1
115 mm x 50 m	P220	C-weight paper	0583 215 220	1
115 mm x 50 m	P240	C-weight paper	0583 215 240	1

Dry sandpaper roll wood, SPS quality

Dust-repelling features, hence no premature clogging due to stearate coating

- Paper weight/m² = 75-85 gr. = A-paper
- Synthetic resin bond
- Silicon grain
- Stearate coating



Form	Roll
Width x length	115 mm x 50 m
Backing material	A-weight paper

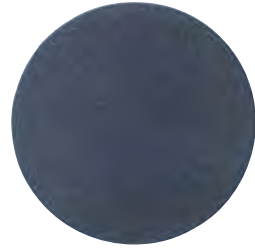
Grid size	Art. no.	P. Qty.
P150	0582 115 150	1
P180	0582 115 180	1

SPS (silicon paper stearate) quality

Finishing disc Useit® Superpad SG

The finishing disc for finishing and polish sanding.

- The sanding dust is vacuumed away completely from the entire surface
- Quicker grinding times and effective operation at a grinding performance up to six times higher compared with conventional abrasives
- Can achieve very high gloss without polishing paste
- Removes dust inclusions



Form	Washer
Adhesive system	Hook and loop



Diameter (Ø)	Grinding pattern	Suitable machines	Art. no.	P. Qty.
50 mm	1500		0587 400 150	25
75 mm	500		0587 401 050	20
75 mm	1000		0587 401 100	25
75 mm	1500		0587 401 150	25
75 mm	2000		0587 401 200	25
75 mm	4000		0587 401 400	25
150 mm	600	Random orbit sander D 150	0587 403 060	25
150 mm	800	Random orbit sander D 150	0587 403 080	25
150 mm	1200	Random orbit sander D 150	0587 403 120	25
150 mm	1500	Random orbit sander D 150	0587 403 150	25
150 mm	2000	Random orbit sander D 150	0587 403 200	25
150 mm	2500	Random orbit sander D 150	0587 403 250	25
150 mm	3000	Random orbit sander D 150	0587 403 300	25
200 mm	600	Random orbit sander D 200, Random orbit sander D 150	0587 404 060	25
200 mm	1200	Random orbit sander D 200, Random orbit sander D 150	0587 404 120	25

Sanding disc NET PERFECT

Net sanding disc for high material removal for sanding plasterboard, hard and soft woods, varnish, fillers, plastics and non-ferrous metals.

- The open structure of the net sanding disc enables sanding dust to be extracted thoroughly and over the whole area.
- Adapts to any grinding plate, regardless of holes
- Higher material removal as well as a considerably longer service life compared to conventional perforated sanding discs



Adhesive system	Hook and loop
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Continuation **Sanding disc NET PERFECT**

Diameter (Ø)	Grid size	Art. no.	P. Qty.
150 mm	80	5506 393 008	50
150 mm	100	5506 393 010	50
150 mm	120	5506 393 012	50
150 mm	150	5506 393 015	50
150 mm	180	5506 393 018	50
150 mm	220	5506 393 022	50
150 mm	240	5506 393 024	50
150 mm	320	5506 393 032	50
150 mm	400	5506 393 040	50
225 mm	80	5506 395 008	25
225 mm	100	5506 395 010	25
225 mm	120	5506 395 012	25
225 mm	150	5506 395 015	25
225 mm	180	5506 395 018	25
225 mm	220	5506 395 022	25
225 mm	240	5506 395 024	25
225 mm	320	5506 395 032	25
225 mm	400	5506 395 040	25

Use of the matching protective attachment is required to protect the adhesive disc.

Sanding roll

- Backing material: J cotton fabric/super-flexible
- Bond: Synthetic resin bond
- Grain: Aluminium oxide
- Suitable for ORSY 10 unrolling dispenser
- Close and even scattering for even grinding finish
- Super-flexible design
- No grain breakout, even with tight radii and curvatures



Width	115 mm
Length	25 m



Grid size	Art. no.	P. Qty.
60	0675 115 60	1
80	0675 115 80	1
100	0675 115 100	1
120	0675 115 120	1
150	0675 115 150	1
180	0675 115 180	1

Ceramic abrasive grain sanding belt for tube belt sander

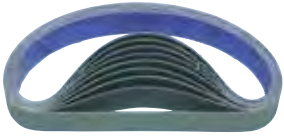
For sanding of pipes, pipe elbows and closed pipe structures, sanding welding seams, removing tempering colour, removing rust and scale

Special micro-fragmentation

Considerably more sharp grinding edges, resulting in extremely high material removal without high grinding pressure, finer and more uniform surface quality, up to four times longer service life compared with zirconia alumina.

Grinding additives

Very cool cut, no material discolouration



Material of abrasive medium	Ceramic grain
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Width x length	Grid size	Suitable machines	Art. no.	P. Qty.
30 mm x 533 mm	40	Rüggeberg UBS 5/70 Si-R, Suhner UTC 7-R	0673 402 004	10
30 mm x 533 mm	60	Rüggeberg UBS 5/70 Si-R, Suhner UTC 7-R	0673 402 006	10
30 mm x 533 mm	80	Rüggeberg UBS 5/70 Si-R, Suhner UTC 7-R	0673 402 008	10
30 mm x 533 mm	120	Rüggeberg UBS 5/70 Si-R, Suhner UTC 7-R	0673 402 012	10
30 mm x 610 mm	80	Rüggeberg UBS 11/90 Si-R, Suhner UTG 9-R	0673 403 008	10
40 mm x 618 mm	60	Flex LBR 1506 VRA	0673 404 006	10
40 mm x 618 mm	80	Flex LRP 1503 VRA	0673 404 008	10
40 mm x 618 mm	120	Flex LBR 1506 VRA	0673 404 012	10
40 mm x 675 mm	40	Cibo FiniTube	0673 405 004	10
40 mm x 675 mm	60	Cibo FiniTube	0673 405 006	10
40 mm x 675 mm	120	Cibo FiniTube	0673 405 012	10
40 mm x 820 mm	40	Fein RS 12-70, Poly-Romy Poly-Romy/1	0673 407 004	10
40 mm x 820 mm	120	Fein RS 12-70, Poly-Romy Poly-Romy/1	0673 407 012	10

Please consider the legal instruction at the beginning of this chapter.

Sanding belt for tube belt sander

- Trizact® sanding belt
- Design: Aluminium oxide
- Uniform surface quality for profiled workpieces
- Uniform grain structure in a three-dimensional pyramid structure
- Grinding additives



Material of abrasive medium	Aluminium oxide
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Continuation **Sanding belt for tube belt sander**

Width x length	Design	Grid size	Suitable machines	Art. no.	P. Qty.
20 mm x 820 mm	A100	P220	Fein RS 12-70	0673 501 022	10
30 mm x 533 mm	A30	600	Rüggeberg UBS 5/70 Si-R, Suhner UTC 7-R	0673 502 060	10
30 mm x 533 mm	A45	400	Rüggeberg UBS 5/70 Si-R, Suhner UTC 7-R	0673 502 040	10
30 mm x 533 mm	A65	280	Rüggeberg UBS 5/70 Si-R, Suhner UTC 7-R	0673 502 028	10
30 mm x 533 mm	A100	220	Rüggeberg UBS 5/70 Si-R, Suhner UTC 7-R	0673 502 022	10
30 mm x 533 mm	A160	120	Rüggeberg UBS 5/70 Si-R, Suhner UTC 7-R	0673 502 012	10
30 mm x 610 mm	A30	600	Rüggeberg UBS 11/90 Si-R, Suhner UTG 9-R	0673 503 060	10
30 mm x 610 mm	A45	400	Rüggeberg UBS 11/90 Si-R, Suhner UTG 9-R	0673 503 040	10
30 mm x 610 mm	A65	280	Rüggeberg UBS 11/90 Si-R, Suhner UTG 9-R	0673 503 028	10
30 mm x 610 mm	A100	220	Rüggeberg UBS 11/90 Si-R, Suhner UTG 9-R	0673 503 022	10
30 mm x 610 mm	A160	120	Rüggeberg UBS 11/90 Si-R, Suhner UTG 9-R	0673 503 012	10
35 mm x 650 mm	A30	600	Würth RBS 650	0673 508 060	10
35 mm x 650 mm	A45	400	Würth RBS 650	0673 508 040	10
35 mm x 650 mm	A65	280	Würth RBS 650	0673 508 028	10
35 mm x 650 mm	A100	220	Würth RBS 650	0673 508 022	10
35 mm x 650 mm	A160	120	Würth RBS 650	0673 508 012	10
40 mm x 618 mm	A30	600	Flex LBR 1506 VRA	0673 504 060	10
40 mm x 618 mm	A45	400	Flex LBR 1506 VRA	0673 504 040	10
40 mm x 618 mm	A65	280	Flex LRP 1503 VRA	0673 504 028	10
40 mm x 618 mm	A100	220	Flex LBR 1506 VRA	0673 504 022	10
40 mm x 618 mm	A160	120	Flex LBR 1506 VRA	0673 504 012	10
40 mm x 675 mm	A30	600	Cibo FiniTube	0673 505 060	10
40 mm x 675 mm	A45	400	Cibo FiniTube	0673 505 040	10
40 mm x 675 mm	A65	280	Cibo FiniTube	0673 505 028	10
40 mm x 675 mm	A100	220	Cibo FiniTube	0673 505 022	10
40 mm x 675 mm	A160	120	Cibo FiniTube	0673 505 012	10
40 mm x 760 mm	A30	600	Flex LRP 1503 VRA	0673 506 060	10
40 mm x 760 mm	A45	400	Flex LRP 1503 VRA	0673 506 040	10
40 mm x 760 mm	A65	280	Flex LRP 1503 VRA	0673 506 028	10
40 mm x 760 mm	A100	220	Flex LRP 1503 VRA	0673 506 022	10
40 mm x 760 mm	A160	120	Flex LRP 1503 VRA	0673 506 012	10
40 mm x 820 mm	A30	600	Fein RS 12-70, Poly-Romy Poly-Romy/1	0673 507 060	10
40 mm x 820 mm	A45	400	Fein RS 12-70, Poly-Romy Poly-Romy/1	0673 507 040	10
40 mm x 820 mm	A65	280	Fein RS 12-70, Poly-Romy Poly-Romy/1	0673 507 028	10
40 mm x 820 mm	A100	220	Fein RS 12-70, Poly-Romy Poly-Romy/1	0673 507 022	10
40 mm x 820 mm	A160	120	Fein RS 12-70, Poly-Romy Poly-Romy/1	0673 507 012	10

Trizact®: Brand name of 3M

Fleece sanding belt for electric grinding file

Reinforced nylon sanding fleece with needled-th-rough fabric carrier

High tear resistance, uniform grinding finish, waterproof and stretch-resistant.



Width x length	Design	Colour	Art. no.	P. Qty.
6 mm x 520 mm	Coarse	Brown	0585 700 100	10
6 mm x 520 mm	Fein	Blue	0585 700 280	10
6 mm x 520 mm	Medium	Red brown	0585 700 180	10
6 mm x 520 mm	Very fine	Grey	0585 700 400	10
6 mm x 533 mm	Coarse	Brown	0585 710 100	10
6 mm x 533 mm	Fein	Blue	0585 710 280	10
6 mm x 533 mm	Medium	Red brown	0585 710 180	10
6 mm x 533 mm	Very fine	Grey	0585 710 400	10
9 mm x 533 mm	Coarse	Brown	0585 715 100	10
9 mm x 533 mm	Fein	Blue	0585 715 280	10
9 mm x 533 mm	Medium	Red brown	0585 715 180	10
9 mm x 533 mm	Very fine	Grey	0585 715 400	10
12 mm x 520 mm	Coarse	Brown	0585 701 100	10
12 mm x 520 mm	Fein	Blue	0585 701 280	10
12 mm x 520 mm	Medium	Red brown	0585 701 180	10
12 mm x 520 mm	Very fine	Grey	0585 701 400	10
12 mm x 533 mm	Coarse	Brown	0585 711 100	10
12 mm x 533 mm	Fein	Blue	0585 711 280	10
12 mm x 533 mm	Medium	Red brown	0585 711 180	10
12 mm x 533 mm	Very fine	Grey	0585 711 400	10
16 mm x 520 mm	Coarse	Brown	0585 702 100	10
16 mm x 520 mm	Fein	Blue	0585 702 280	10
16 mm x 520 mm	Medium	Red brown	0585 702 180	10
16 mm x 520 mm	Very fine	Grey	0585 702 400	10
40 mm x 600 mm	Coarse	Brown	0585 704 100	5
40 mm x 600 mm	Medium	Red brown	0585 704 180	5
40 mm x 600 mm	Very fine	Grey	0585 704 400	5

Folded Sanding Fleece Ring

Burnishing roller made of folded sanding fleece for virtually shoulder-free line matting. With 6 mm wedge taper and size 19 hole for surface sanding machines and polishing machine with clamping mandrel.

- Suitable for use with polishing machine or with infinitely variable, adjustable angle grinder or fillet seam grinder thanks to M14 thread
- Folded abrasive fleece for virtually shoulder-free line matting
- Long service life owing to double impregnation
- Easy to assign thanks to colour coding



Diameter (Ø)	125 mm
Width	50 mm
Connection thread	M14
Max. rotation speed	3200 rpm



Design	Grid size	Colour	Art. no.	P. Qty.
Coarse	100	Red	0672 911 100	1/2
Extra-coarse	80	Orange	0672 911 080	1/2
Medium	180	Yellow	0672 911 180	1/2

The circumferential speed is specified by the machine used, though max. 3,200 rpm. At high rotation speeds a coarse grain acts like a finer grain and at low rotation speeds a fine grain acts like a coarser one. Use tools with a low contact pressure; high contact pressure leads to premature wear. With insufficient chip removal, do not increase the contact pressure, but instead use a coarser grain.

Fold Roller Sanding Fleece

Burnishing roller made of folded sanding fleece for virtually shoulder-free line matting. With 6 mm wedge taper and size 19 hole for surface sanding machines and polishing machine with clamping mandrel.

Folded abrasive fleece

Virtually shoulder-free line matting on all materials

Double impregnation

Extremely long service life compared with ordinary burnishing rollers

Colour coding

Easy to assign fineness structure

Circumferential speed

Specified by the machine used, but no more than 3700 rpm.



Diameter x width x drill hole	100 x 100 x 19 mm
Max. rotation speed	3700 rpm

Design	Grid size	Colour	Art. no.	P. Qty.
Coarse	100	Red	0672 919 100	1
Extra-coarse	80	Orange	0672 919 080	1
Fein	280	Green	0672 919 280	1
Medium	180	Yellow	0672 919 180	1
Very fine	400	Purple	0672 919 400	1

Burnishing roller

Sanding Fleece

- With 6 mm keyway and 19 hole for surface grinding machines
- Medium hardness
- Synthetic corundum
- Synthetic resin-bound sanding segments
- Produces impressive surfaces on stainless steel, copper, aluminium, brass etc. Also for cleaning oxide coatings and for smoothing plastics and wood.
- Circumferential speed: Specified by the machine used, but no more than 30 m/s = 3700 rpm



Diameter x width x drill hole	Grid size	Art. no.	P. Qty.
100 x 50 x 19 mm	100	0672 902 100	1
100 x 50 x 19 mm	180	0672 902 180	1
100 x 50 x 19 mm	280	0672 902 280	1
100 x 100 x 19 mm	100	0672 910 0	1
100 x 100 x 19 mm	180	0672 918 0	1

General working instructions: At high speeds a coarse grain acts like a finer grain and at low speeds a fine grain acts like a coarser one.

Use tools with a low contact pressure; high contact pressure leads to premature wear.

With insufficient chip removal, do not increase the contact pressure, but instead use a coarser grain.

Attention: Pay attention to the running direction! Tools are only suitable for clockwise rotation.

Edge Sanding Belt

F-paper base with aluminium oxide grain, half-open scattering, for extremely high loads (e.g. calibration).

- Extremely long service life due to minimal clogging behaviour as a result of antistatic finish
- F-weight paper, half-open scattering with anti-static finish to prevent the sanding belt from clogging up too soon, for extremely high load bearing capacity of the sanding belts (e.g. calibration), an optimal grinding finish and low impact from grinding dust (fine dust).



Antistatic	Yes
Scattering	Half-open scattering
Backing material	F-weight paper
Material of abrasive medium	Aluminium oxide

Width x length	Grid size	Art. no.	P. Qty.
150 mm x 2000 mm	P60	0583 360 200	20
150 mm x 2000 mm	P80	0583 380 200	20
150 mm x 2000 mm	P100	0583 310 200	20
150 mm x 2000 mm	P120	0583 312 200	20
150 mm x 2000 mm	P150	0583 315 200	20
150 mm x 2000 mm	P180	0583 318 200	20
150 mm x 2170 mm	P60	0583 360 217	20
150 mm x 2170 mm	P80	0583 380 217	20
150 mm x 2170 mm	P100	0583 310 217	20
150 mm x 2170 mm	P120	0583 312 217	20
150 mm x 2170 mm	P150	0583 315 217	20

Continuation **Edge Sanding Belt**

Width x length	Grid size	Art. no.	P. Qty.
150 mm x 2170 mm	P180	0583 318 217	20
150 mm x 2250 mm	P60	0583 360 225	20
150 mm x 2250 mm	P80	0583 380 225	20
150 mm x 2250 mm	P100	0583 310 225	20
150 mm x 2250 mm	P120	0583 312 225	20
150 mm x 2250 mm	P150	0583 315 225	20
150 mm x 2250 mm	P180	0583 318 225	20
150 mm x 2280 mm	P60	0583 360 228	20
150 mm x 2280 mm	P80	0583 380 228	20
150 mm x 2280 mm	P100	0583 310 228	20
150 mm x 2280 mm	P120	0583 312 228	20
150 mm x 2280 mm	P150	0583 315 228	20
150 mm x 2280 mm	P180	0583 318 228	20
150 mm x 2600 mm	P60	0583 360 260	20
150 mm x 2600 mm	P80	0583 380 260	20
150 mm x 2600 mm	P100	0583 310 260	20
150 mm x 2600 mm	P120	0583 312 260	20
150 mm x 2600 mm	P150	0583 315 260	20
150 mm x 2600 mm	P180	0583 318 260	20
150 mm x 3000 mm	P60	0583 360 301	20
150 mm x 3000 mm	P80	0583 380 301	20
150 mm x 3000 mm	P100	0583 310 301	20
150 mm x 3000 mm	P120	0583 312 301	20
150 mm x 3000 mm	P150	0583 315 301	20
150 mm x 3000 mm	P180	0583 318 301	20
200 mm x 1500 mm	P60	0583 360 150	20
200 mm x 1500 mm	P80	0583 380 150	20
200 mm x 1500 mm	P100	0583 310 150	20
200 mm x 1500 mm	P120	0583 312 150	20
200 mm x 1500 mm	P150	0583 315 150	20
200 mm x 1500 mm	P180	0583 318 150	20
200 mm x 1600 mm	P60	0583 360 160	20
200 mm x 1600 mm	P80	0583 380 160	20
200 mm x 1600 mm	P100	0583 310 160	20
200 mm x 1600 mm	P120	0583 312 160	20
200 mm x 1600 mm	P150	0583 315 160	20
200 mm x 1600 mm	P180	0583 318 160	20
200 mm x 1800 mm	P60	0583 360 180	20
200 mm x 1800 mm	P80	0583 380 180	20
200 mm x 1800 mm	P100	0583 310 180	20
200 mm x 1800 mm	P120	0583 312 180	20
200 mm x 1800 mm	P150	0583 315 180	20
200 mm x 1800 mm	P180	0583 318 180	20
200 mm x 2350 mm	P60	0583 360 235	20
200 mm x 2350 mm	P80	0583 380 235	20
200 mm x 2350 mm	P100	0583 310 235	20
200 mm x 2350 mm	P120	0583 312 235	20
200 mm x 2350 mm	P150	0583 315 235	20
200 mm x 2350 mm	P180	0583 318 235	20
200 mm x 3000 mm	P60	0583 360 300	20
200 mm x 3000 mm	P80	0583 380 300	20
200 mm x 3000 mm	P100	0583 310 300	20

Width x length	Grid size	Art. no.	P. Qty.
200 mm x 3000 mm	P120	0583 312 300	20
200 mm x 3000 mm	P150	0583 315 300	20
200 mm x 3000 mm	P180	0583 318 300	20

The belts should be stored in dry, frost-free rooms. Do not store near heaters, cold or damp walls, doors or windows and not directly on the floor. Storage temperatures between 18°C and 22°C at a relative humidity between 45% and 65% are recommended. Protect belts from exposure to direct sunlight. If possible, store sanding belts in the original packaging until used. Store sanding belts that have been removed from the packaging in such a way that deformations are prevented.

KPF edge sanding belt, individual

The edge sanding belt is available in various dimensions and can be tailored to your requirements. Simply ask your Würth sales representative.



Backing material	F-weight paper
Material of abrasive medium	Aluminium oxide

Grid size	Art. no.	P. Qty.
P60	0583 360 010	1
P60	0583 360 012	1
P60	0583 360 015	1
P60	0583 360 020	1
P60	0583 360 030	1
P80	0583 380 010	1
P80	0583 380 012	1
P80	0583 380 015	1
P80	0583 380 020	1
P80	0583 380 030	1
P100	0583 310 010	1
P100	0583 310 012	1
P100	0583 310 015	1
P100	0583 310 020	1
P100	0583 310 030	1
P120	0583 312 010	1
P120	0583 312 012	1
P120	0583 312 015	1
P120	0583 312 020	1
P120	0583 312 030	1
P150	0583 315 010	1
P150	0583 315 012	1
P150	0583 315 015	1
P150	0583 315 020	1
P150	0583 315 030	1
P180	0583 318 010	1
P180	0583 318 012	1
P180	0583 318 015	1
P180	0583 318 020	1
P180	0583 318 030	1

The belts should be stored in dry, frost-free rooms. Do not store near heaters, cold or damp walls, doors or windows or directly on the floor. Storage temperatures between 18°C and 22°C at a relative humidity between 45% and 65% are recommended. Protect belts from exposure to direct sunlight. If possible, store sanding belts in the original packaging until used. Store sanding belts that have been removed from the packaging in such a way that deformation is prevented.

Long sanding belt

F-paper base with aluminium oxide grain, half-open scattering, for extremely high loads (e.g. calibration).

Minimal clogging thanks to the anti-static equipment.

This results in an extremely long service life

F-paper, half-open scattering with anti-static finish

- Extremely high load-bearing capacity of sanding belts (e.g. calibration)
- Prevents the sanding belt from clogging up too soon
- Optimum grinding finish
- Low impact from grinding dust (fine dust)



Antistatic	Yes
Scattering	Half-open scattering
Backing material	F-weight paper
Material of abrasive medium	Aluminium oxide

Width x length	Grid size	Art. no.	P. Qty.
150 mm x 6500 mm	P60	0583 460 650	10
150 mm x 6500 mm	P80	0583 480 650	10
150 mm x 6500 mm	P100	0583 410 650	10
150 mm x 6500 mm	P120	0583 412 650	10
150 mm x 6500 mm	P150	0583 415 650	10
150 mm x 6500 mm	P180	0583 418 650	10
150 mm x 6630 mm	P60	0583 460 663	10
150 mm x 6630 mm	P80	0583 480 663	10
150 mm x 6630 mm	P100	0583 410 663	10
150 mm x 6630 mm	P120	0583 412 663	10
150 mm x 6630 mm	P150	0583 415 663	10
150 mm x 6630 mm	P180	0583 418 663	10
150 mm x 6700 mm	P60	0583 460 670	10
150 mm x 6700 mm	P80	0583 480 670	10
150 mm x 6700 mm	P100	0583 410 670	10
150 mm x 6700 mm	P120	0583 412 670	10
150 mm x 6700 mm	P150	0583 415 670	10
150 mm x 6700 mm	P180	0583 418 670	10
150 mm x 6800 mm	P60	0583 460 680	10
150 mm x 6800 mm	P80	0583 480 680	10
150 mm x 6800 mm	P100	0583 410 680	10
150 mm x 6800 mm	P120	0583 412 680	10
150 mm x 6800 mm	P150	0583 415 680	10
150 mm x 6800 mm	P180	0583 418 680	10
150 mm x 6880 mm	P60	0583 460 688	10
150 mm x 6880 mm	P80	0583 480 688	10
150 mm x 6880 mm	P100	0583 410 688	10
150 mm x 6880 mm	P120	0583 412 688	10
150 mm x 6880 mm	P150	0583 415 688	10
150 mm x 6880 mm	P180	0583 418 688	10
150 mm x 6900 mm	P60	0583 460 690	10
150 mm x 6900 mm	P80	0583 480 690	10
150 mm x 6900 mm	P100	0583 410 690	10
150 mm x 6900 mm	P120	0583 412 690	10
150 mm x 6900 mm	P150	0583 415 690	10
150 mm x 6900 mm	P180	0583 418 690	10

Width x length	Grid size	Art. no.	P. Qty.
150 mm x 7000 mm	P60	0583 460 700	10
150 mm x 7000 mm	P80	0583 480 700	10
150 mm x 7000 mm	P100	0583 410 700	10
150 mm x 7000 mm	P120	0583 412 700	10
150 mm x 7000 mm	P150	0583 415 700	10
150 mm x 7000 mm	P180	0583 418 700	10
150 mm x 7100 mm	P60	0583 460 710	10
150 mm x 7100 mm	P80	0583 480 710	10
150 mm x 7100 mm	P100	0583 410 710	10
150 mm x 7100 mm	P120	0583 412 710	10
150 mm x 7100 mm	P150	0583 415 710	10
150 mm x 7100 mm	P180	0583 418 710	10
150 mm x 7200 mm	P60	0583 460 720	10
150 mm x 7200 mm	P80	0583 480 720	10
150 mm x 7200 mm	P100	0583 410 720	10
150 mm x 7200 mm	P120	0583 412 720	10
150 mm x 7200 mm	P150	0583 415 720	10
150 mm x 7200 mm	P180	0583 418 720	10
150 mm x 7250 mm	P60	0583 460 725	10
150 mm x 7250 mm	P80	0583 480 725	10
150 mm x 7250 mm	P100	0583 410 725	10
150 mm x 7250 mm	P120	0583 412 725	10
150 mm x 7250 mm	P150	0583 415 725	10
150 mm x 7250 mm	P180	0583 418 725	10
150 mm x 7300 mm	P60	0583 460 730	10
150 mm x 7300 mm	P80	0583 480 730	10
150 mm x 7300 mm	P100	0583 410 730	10
150 mm x 7300 mm	P120	0583 412 730	10
150 mm x 7300 mm	P150	0583 415 730	10
150 mm x 7300 mm	P180	0583 418 730	10
150 mm x 7400 mm	P60	0583 460 740	10
150 mm x 7400 mm	P80	0583 480 740	10
150 mm x 7400 mm	P100	0583 410 740	10
150 mm x 7400 mm	P120	0583 412 740	10
150 mm x 7400 mm	P150	0583 415 740	10
150 mm x 7400 mm	P180	0583 418 740	10
150 mm x 7500 mm	P60	0583 460 750	10
150 mm x 7500 mm	P80	0583 480 750	10
150 mm x 7500 mm	P100	0583 410 750	10
150 mm x 7500 mm	P120	0583 412 750	10
150 mm x 7500 mm	P150	0583 415 750	10
150 mm x 7500 mm	P180	0583 418 750	10
150 mm x 7700 mm	P60	0583 460 770	10
150 mm x 7700 mm	P80	0583 480 770	10
150 mm x 7700 mm	P100	0583 410 770	10
150 mm x 7700 mm	P120	0583 412 770	10
150 mm x 7700 mm	P150	0583 415 770	10
150 mm x 7700 mm	P180	0583 418 770	10
150 mm x 7800 mm	P60	0583 460 780	10
150 mm x 7800 mm	P80	0583 480 780	10
150 mm x 7800 mm	P100	0583 410 780	10
150 mm x 7800 mm	P120	0583 412 780	10
150 mm x 7800 mm	P150	0583 415 780	10
150 mm x 7800 mm	P180	0583 418 780	10

The belts should be stored in dry, frost-free rooms. Do not store near heaters, cold or damp walls, doors or

Continuation Long sanding belt

windows and not directly on the floor. Storage temperatures between 18°C and 22°C at a relative humidity between 45% and 65% are recommended. Protect belts from exposure to direct sunlight. If possible, store sanding belts in the original packaging until used. Store sanding belts that have been removed from the packaging in such a way that deformations are prevented.

Wide sanding belt

F-paper base with aluminium oxide grain, half-open scattering, for extremely high loads (e.g. calibration).

Can be used universally for all types of wood as well as for grinding melamine-coated boards.

Minimal clogging thanks to the anti-static equipment

Results in extremely long service life.

F-paper, half-open scattering with anti-static equipment

- Extremely high load-bearing capacity of sanding belts (e.g. calibration)
- Prevents the sanding belt from clogging up too soon
- Optimum grinding finish
- Low impact from grinding dust (fine dust)



Antistatic	Yes
Scattering	Half-open scattering
Backing material	F-weight paper
Material of abrasive medium	Aluminium oxide

Width x length	Grid size	Art. no.	P. Qty.
930 mm x 1525 mm	P60	0583 260 152	10
930 mm x 1525 mm	P80	0583 280 152	10
930 mm x 1525 mm	P100	0583 210 152	10
930 mm x 1525 mm	P120	0583 212 152	10
930 mm x 1525 mm	P150	0583 215 152	10
930 mm x 1525 mm	P180	0583 218 152	10
930 mm x 1900 mm	P60	0583 260 190	10
930 mm x 1900 mm	P80	0583 280 190	10
930 mm x 1900 mm	P100	0583 210 190	10
930 mm x 1900 mm	P120	0583 212 190	10
930 mm x 1900 mm	P150	0583 215 190	10
930 mm x 1900 mm	P180	0583 218 190	10
970 mm x 1700 mm	P60	0583 260 170	10
970 mm x 1700 mm	P80	0583 280 170	10
970 mm x 1700 mm	P100	0583 210 170	10
970 mm x 1700 mm	P120	0583 212 170	10
970 mm x 1700 mm	P150	0583 215 170	10
970 mm x 1700 mm	P180	0583 218 170	10
1100 mm x 1900 mm	P60	0583 260 191	10
1100 mm x 1900 mm	P80	0583 280 191	10
1100 mm x 1900 mm	P100	0583 210 191	10
1100 mm x 1900 mm	P120	0583 212 191	10
1100 mm x 1900 mm	P150	0583 215 191	10
1100 mm x 1900 mm	P180	0583 218 191	10
1110 mm x 1900 mm	P60	0583 260 192	10

Width x length	Grid size	Art. no.	P. Qty.
1110 mm x 1900 mm	P80	0583 280 192	10
1110 mm x 1900 mm	P100	0583 210 192	10
1110 mm x 1900 mm	P120	0583 212 192	10
1110 mm x 1900 mm	P150	0583 215 192	10
1110 mm x 1900 mm	P180	0583 218 192	10
1120 mm x 1900 mm	P60	0583 260 193	10
1120 mm x 1900 mm	P80	0583 280 193	10
1120 mm x 1900 mm	P100	0583 210 193	10
1120 mm x 1900 mm	P120	0583 212 193	10
1120 mm x 1900 mm	P150	0583 215 193	10
1120 mm x 1900 mm	P180	0583 218 193	10
1120 mm x 2000 mm	P60	0583 260 200	10
1120 mm x 2000 mm	P80	0583 280 200	10
1120 mm x 2000 mm	P100	0583 210 200	10
1120 mm x 2000 mm	P120	0583 212 200	10
1120 mm x 2000 mm	P150	0583 215 200	10
1120 mm x 2000 mm	P180	0583 218 200	10
1120 mm x 2150 mm	P60	0583 260 215	10
1120 mm x 2150 mm	P80	0583 280 215	10
1120 mm x 2150 mm	P100	0583 210 215	10
1120 mm x 2150 mm	P120	0583 212 215	10
1120 mm x 2150 mm	P150	0583 215 215	10
1120 mm x 2150 mm	P180	0583 218 215	10
1130 mm x 1900 mm	P60	0583 260 194	10
1130 mm x 1900 mm	P80	0583 280 194	10
1130 mm x 1900 mm	P100	0583 210 194	10
1130 mm x 1900 mm	P120	0583 212 194	10
1130 mm x 1900 mm	P150	0583 215 194	10
1130 mm x 1900 mm	P180	0583 218 194	10
1300 mm x 1900 mm	P60	0583 260 195	10
1300 mm x 1900 mm	P80	0583 280 195	10
1300 mm x 1900 mm	P100	0583 210 195	10
1300 mm x 1900 mm	P120	0583 212 195	10
1300 mm x 1900 mm	P150	0583 215 195	10
1300 mm x 1900 mm	P180	0583 218 195	10
1350 mm x 2150 mm	P60	0583 260 216	10
1350 mm x 2150 mm	P80	0583 280 216	10
1350 mm x 2150 mm	P100	0583 210 216	10
1350 mm x 2150 mm	P120	0583 212 216	10
1350 mm x 2150 mm	P150	0583 215 216	10
1350 mm x 2150 mm	P180	0583 218 216	10
1360 mm x 1900 mm	P60	0583 260 196	10
1360 mm x 1900 mm	P80	0583 280 196	10
1360 mm x 1900 mm	P100	0583 210 196	10
1360 mm x 1900 mm	P120	0583 212 196	10
1360 mm x 1900 mm	P150	0583 215 196	10
1360 mm x 1900 mm	P180	0583 218 196	10

The belts should be stored in dry, frost-free rooms. Do not store near heaters, cold or damp walls, doors or windows and not directly on the floor. Storage temperatures between 18°C and 22°C at a relative humidity between 45% and 65% are recommended. Protect belts from exposure to direct sunlight. If possible, store sanding belts in the original packaging until used. Store sanding belts that have been removed from the packaging in such a way that deformations are prevented.

KPF wide sanding belt, individual

The wide sanding belt is available in various dimensions and can be tailored to your requirements. Simply ask your Würth sales representative.

Antistatic	Yes
Scattering	Half-open scattering
Backing material	F-weight paper
Material of abrasive medium	Aluminium oxide



Grid size	Art. no.	P. Qty.
P60	0583 260 001	1
P60	0583 260 002	1
P60	0583 260 003	1
P60	0583 260 004	1
P80	0583 280 001	1
P80	0583 280 002	1
P80	0583 280 003	1
P80	0583 280 004	1
P100	0583 210 001	1
P100	0583 210 002	1
P100	0583 210 003	1
P100	0583 210 004	1
P120	0583 212 001	1
P120	0583 212 002	1
P120	0583 212 003	1
P120	0583 212 004	1
P150	0583 215 001	1
P150	0583 215 002	1
P150	0583 215 003	1
P150	0583 215 004	1
P180	0583 218 001	1
P180	0583 218 002	1
P180	0583 218 003	1
P180	0583 218 004	1

The belts should be stored in dry, frost-free rooms. Do not store near heaters, cold or damp walls, doors or windows or directly on the floor. Storage temperatures between 18°C and 22°C at a relative humidity between 45% and 65% are recommended. Protect belts from exposure to direct sunlight. If possible, store sanding belts in the original packaging until used. Store sanding belts that have been removed from packaging in such a way that deformation is prevented.

Sandpaper, waterproof

Aluminium oxide

- Can be used without soaking, extremely flexible grain carrier
- Sharply contoured working
- Outstanding finish
- Excellent contact with the material and optimum grip
- First-rate initial and long-term grinding performance with a long service life
- Dense scattering



Length x width	280 x 230 mm
Material of abrasive medium	Aluminium oxide
Backing material	B-weight paper
Scattering	Close scattering
Adhesive base	Synthetic resin

Grid size	Art. no.	P. Qty.
P180	0584 01 180	50
P220	0584 01 220	50
P240	0584 01 240	50
P280	0584 01 280	50
P320	0584 01 320	50
P360	0584 01 360	50
P400	0584 01 400	50
P500	0584 01 500	50
P600	0584 01 600	50
P800	0584 01 800	50
P1000	0584 011 000	50
P1200	0584 011 200	50

Sandpaper, waterproof

Silicon carbide

- Can be used without soaking, extremely flexible grain carrier
- Sharply contoured working
- Outstanding finish
- Excellent contact with the material and optimum grip
- First-rate initial and long-term grinding performance with a long service life
- Dense scattering



Length x width	280 x 230 mm
Material of abrasive medium	Silicon carbide
Scattering	Close scattering
Adhesive base	Synthetic resin

Grid size	Backing material	Art. no.	P. Qty.
P60	C-weight paper	0584 11 60	50
P80	C-weight paper	0584 11 80	50
P100	C-weight paper	0584 11 100	50
P120	C-weight paper	0584 11 120	50
P150	C-weight paper	0584 11 150	50

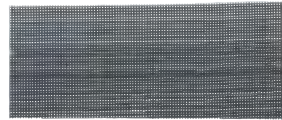
Continuation **Sandpaper, waterproof**

Grid size	Backing material	Art. no.	P. Qty.
P180	B-weight paper	0584 11 180	50
P220	B-weight paper	0584 11 220	50
P240	B-weight paper	0584 11 240	50
P280	B-weight paper	0584 11 280	50
P320	B-weight paper	0584 11 320	50
P360	B-weight paper	0584 11 360	50
P400	B-weight paper	0584 11 400	50
P500	B-weight paper	0584 11 500	50
P600	B-weight paper	0584 11 600	50
P800	B-weight paper	0584 11 800	50
P1000	B-weight paper	0584 111 000	50
P1200	B-weight paper	0584 111 200	50
P2000	B-weight paper	0584 112 000	50

Abrasive Mesh Silicon carbide

For manual and machine processing

- Aggressive abrasive grain
- No clogging thanks to large chip spaces



Width x length	115 mm x 280 mm
Adhesive system	Without

Grid size	Art. no.	P. Qty.
60	0585 600 60	25
80	0585 600 80	25
100	0585 600 100	25
120	0585 600 120	25
150	0585 600 150	25
180	0585 600 180	25
240	0585 600 240	25

Plastic hand sanding block

Robust plastic sanding block with two sandpaper holders and an abrasive pad with soft plastic backing.

Length x width x height	212 x 105 x 105 mm
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Art. no. 0899 700 321

P. Qty.: 1

Sanding Block

Made of cork

Length x width x height	100 x 60 x 40 mm
Adhesive system	Without

Art. no. 0715 64 06

P. Qty.: 1



Longlife coarse nylon abrasive fleece disc with cloth plate

Extremely fast cleaning and maximum service life when removing welding seams, scale, corrosion and coatings.

- Ceramic abrasive grain for a very high rate of material removal and very long service life
- Improved synthetic resin bonding and open fleece structure prevent the disc from smearing the surface

Drill hole	22.23 mm
Colour	Red, Dark red
Grid size	Very coarse
Material of abrasive medium	Ceramic grain



Diameter (Ø)	Max. rotation speed	Art. no.	P. Qty.
115 mm	12000 rpm	0585 333 115	10
125 mm	11000 rpm	0585 333 125	10

Observe maximum rpm

Fleece Segmented Grinding Disc

For direct use on angle grinders. For cleaning and polishing non-alloyed and high-alloy steels, aluminium and non-ferrous metals.

- Free of iron, chlorine and sulphur ($\leq 0.1\%$)
- Extra-reinforced nylon sanding fleece with needled-through fabric carrier
- Robust glass fabric carrier disc
- Long service life thanks to segment arrangement
- Compact design for intensive grinding
- No change in shape during grinding
- No clogging
- Cooler grinding (low working temperature)
- No additional support plate required

Drill hole	22.23 mm
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Continuation **Fleece Segmented Grinding Disc**

Diameter (Ø)	Colour	Design	Grid size	Max. rotation speed	Art. no.	P. Qty.
115 mm	Blue	Fein	280	13300 rpm	0585 311 524	10
115 mm	Brown	Coarse	100	13300 rpm	0585 311 510	10
115 mm	Grey	Very fine	400	13300 rpm	0585 311 540	10
115 mm	Red brown	Medium	180	13300 rpm	0585 311 518	10
125 mm	Blue	Fein	280	12200 rpm	0585 312 524	10
125 mm	Brown	Coarse	100	12200 rpm	0585 312 510	10
125 mm	Grey	Very fine	400	12200 rpm	0585 312 540	10
125 mm	Red brown	Medium	180	12200 rpm	0585 312 518	10

Fleece Sanding Disc

For use on electric and pneumatic angle grinders. Ideal for surface sanding.

Extra-reinforced nylon sanding fleece with needled-through fabric carrier

- More compact version for more intensive sanding (considerably higher edge strength)
- High tear resistance, uniform grinding finish, waterproof
- No change in shape during grinding
- No clogging
- No sanding through when machining bodywork parts
- Cooler grinding (low working temperature)



Diameter (Ø)	Colour	Design	Grid size	Max. rotation speed	Art. no.	P. Qty.
115 mm	Blue	Fein	280	4150 rpm	0585 461 280	10
115 mm	Brown	Coarse	80	4150 rpm	0585 461 80	10
115 mm	Grey	Very fine	400	4150 rpm	0585 461 400	10
115 mm	Red brown	Medium	100	4150 rpm	0585 461 100	10
125 mm	Blue	Fein	280	3800 rpm	0585 471 280	10
125 mm	Brown	Coarse	80	3800 rpm	0585 471 80	10
125 mm	Grey	Very fine	400	3800 rpm	0585 471 400	10
125 mm	Red brown	Medium	100	3800 rpm	0585 471 100	10

The discs should only be used with suitable support plates.

At high speeds a coarse grain acts like a finer grain and at low speeds a fine grain acts like a coarser one.

Use tools with a low contact pressure; higher contact pressure leads to premature wearing.

With insufficient chip removal, do not increase the contact pressure, but instead use a coarser grain.

Nylon Sanding Fleece

With shank

- Coarsely structured, elastic, abrasive cleaning sanding fleece made of a special combination of synthetic fibres and evenly embedded abrasive grains (silicon carbide).
- Free of metals susceptible to corrosion
- For use on electric drills, straight grinders and flexible shafts
- Plastic support flanges can be broken off in steps
- Round shank: 6 x 40 mm



Diameter (Ø)	60 mm
Max. rotation speed	10000 rpm
Recommended rotation speed	5000 rpm

Art. no. 0585 320

P. Qty.: 5

General working and safety precautions:

The maximum permissible speeds may not be exceeded.

Work only with appropriate protective equipment, such as protective goggles, gloves, ear protectors etc.

Attention: Rough-cleaning sanding fleeces are not suitable for edge sanding. Therefore, only sand along and not against material edges!

Observe operating instructions.

Nylon abrasive fleece disc

With cloth plate. Cleaning welding seams, metal surfaces, wood and plastic.

- Coarsely structured, elastic, abrasive cleaning sanding fleece made of a special combination of synthetic fibres and evenly embedded abrasive grains (silicon carbide).
- Continuous exposure of fresh abrasive grain
- Free of metals susceptible to corrosion
- For use on electric drills, straight grinders and flexible shafts
- Plastic support flanges can be broken off in steps
- For direct use on angle grinders
- 150-mm dia. for use on 180-mm angle grinders



Drill hole	22.23 mm
Colour	Black

Diameter (Ø)	Max. rotation speed	Art. no.	P. Qty.
115 mm	11000 rpm	0585 311 5	10
125 mm	10000 rpm	0585 312 5	10
150 mm	8500 rpm	0585 315 0	5

General working and safety precautions:

The maximum permissible speeds may not be exceeded.

Work only with appropriate protective equipment, such as safety goggles, gloves, hearing protection etc.

Caution: Coarse cleaning sanding fleeces are not suitable for edge sanding. Therefore, only sand along and not against material edges!

Observe operating instructions.

Nylon Sanding Fleece Disc

With permanently integrated clamping mandrel

- Coarsely structured, elastic, abrasive cleaning sanding fleece made of a special combination of synthetic fibres and evenly embedded abrasive grains (silicon carbide).
- Flexible, open fleece structure
- Continuous exposure of fresh abrasive grain
- Free of corrosive metals
- For use on electric drills, straight grinders and flexible shafts
- Plastic support flanges can be broken off in steps



Diameter x width x shaft diameter	Min./max. recommended rotation speed	Max. rotation speed	Min./max. rotation speed at nominal load	Art. no.	P. Qty.
100 x 26 x 6 mm	3500-4500 rpm	6000 rpm	3500-4500 rpm	0585 210 0	5
150 x 26 x 8 mm	2500-3000 rpm	4000 rpm	2500-3000 rpm	0585 215 0	3

Caution: Flange diameter \geq half the disc diameter

General working and safety instructions:

The maximum permissible speeds may not be exceeded.

Work only with appropriate protective equipment, such as protective goggles, gloves, ear protectors etc.

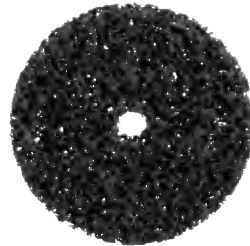
Attention: Rough-cleaning sanding fleeces are not suitable for edge sanding. Therefore, only sand along and not against material edges!

Observe operating instructions.

Nylon Sanding Fleece Disc

For use with reusable clamping mandrel

- Coarsely structured, elastic, abrasive cleaning sanding fleece made of a special combination of synthetic fibres and evenly embedded abrasive grains (silicon carbide).
- Flexible, open fleece structure
- Easy-to-handle sanding power
- Continuous exposure of fresh abrasive grain
- Free of corrosive metals
- For use on electric drills, straight grinders and flexible shafts



Colour	Black
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Diameter x width x shaft diameter	Min./max. recommended rotation speed	Max. rotation speed	Art. no.	P. Qty.
100 x 13 x 6 mm	3500-4500 rpm	6000 rpm	0585 110 0	10
150 x 13 x 8 mm	2500-3000 rpm	4000 rpm	0585 115 0	5

Only for use with suitable clamping mandrels and support flanges

Caution: Flange diameter \geq half the disc diameter

General working and safety instructions:

The maximum permissible speeds may not be exceeded.

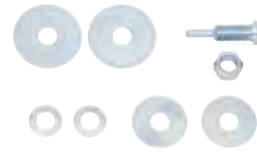
Work only with appropriate protective equipment, such as protective goggles, gloves, ear protectors etc.

Attention: Rough-cleaning sanding fleeces are not suitable for edge sanding. Therefore, only sand along and not against material edges!

Observe operating instructions.

Clamping Mandrel

For 1 or 2 nylon sanding fleece discs



Length	Shaft diameter	Art. no.	P. Qty.
52 mm	6 mm	0585 110 01	1
70 mm	8 mm	0585 115 01	1

Hook and loop support plate

For fastening polishing pads, lambskins etc. with hook and loop mounting

- Foam intermediate layer allows user to get a good feel for the surface for an optimal result
- Hook-and-loop mounting for fast pad replacement



Adhesive system	Hook and loop
Material	Polyurethane foam
Colour	Black

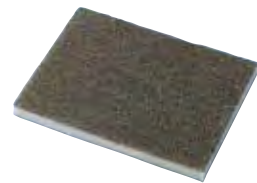
Diameter (Ø)	Art. no.	P. Qty.
80 mm	0586 01 80	1
125 mm	0586 01 125	1
150 mm	0586 01 150	1

Please consider the legal instruction at the beginning of this chapter.

Abrasive pad

Universal abrasive pad made from aluminium oxide for woodworking and metalworking.

- Sandpaper and sanding block in one
- For dry sanding
- Adapts to any shape, making it suitable for universal use
- Can be used repeatedly after rinsing with water
- Can be used even in hard-to-reach places
- Particularly suitable for surface sanding



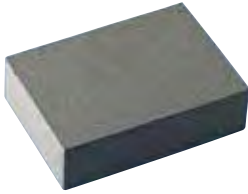
Length x width x height	125 x 100 x 10 mm
Material of abrasive medium	Aluminium oxide (normal corundum)

Grid size	Art. no.	P. Qty.
60	0587 02 60	10/100
80	0587 02 80	10/100
100	0587 02 100	10/100
120	0587 02 120	10/100
220	0587 02 220	10/100

Sanding sponge

Universal sanding sponge made from aluminium oxide for woodworking and metalworking.

- Sandpaper and sanding block in one
- For dry sanding
- Adapts to any shape, making it suitable for universal use
- Can be used repeatedly after rinsing with water



Length x width x height	100 x 68 x 25 mm
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Grid size	Art. no.	P. Qty.
60	0587 01 60	10/100
80	0587 01 80	10/100
100	0587 01 100	10/100
120	0587 01 120	10/100
160	0587 01 160	10/100
180	0587 01 180	10/100
220	0587 01 220	10/100

Nylon Sanding Fleece

Suitable for hand and machine use



Width	Length	Grid size	Art. no.	P. Qty.
81 mm	153 mm	100	0585 44 100	10
81 mm	153 mm	180	0585 44 180	10
81 mm	153 mm	280	0585 44 280	10
81 mm	153 mm	1000	0585 44 600	10
115 mm	230 mm	100	0585 41 100	10
115 mm	230 mm	180	0585 41 180	10
115 mm	230 mm	280	0585 41 280	10
115 mm	230 mm	1000	0585 41 600	10
152 mm	230 mm	100	0585 45 100	10
152 mm	230 mm	180	0585 45 180	20
152 mm	230 mm	280	0585 45 280	20
152 mm	230 mm	1000	0585 45 600	20

Grain size 1000 (art. no. 058541 600, 058544 600, 058545 600) adheres to riptape without riptape coating.

Nylon abrasive fleece grain 100 Coarse A

Pre-treatment for painting galvanised steel

Length	5 m
Grid size	P100



Width	Art. no.	P. Qty.
35 mm	0585 835 100	1
70 mm	0585 870 100	1
115 mm	0585 805 100	1

A degreasing process is also necessary for oily dirt

Nylon abrasive fleece Fine A

Pre-treatment for painting galvanised steel

Length	5 m
Grid size	P180



Width	Art. no.	P. Qty.
35 mm	0585 835 180	1
70 mm	0585 870 180	1
115 mm	0585 805 180	1

A degreasing process is also necessary for oily dirt.

Nylon abrasive fleece Very Fine A

For cleaning, degreasing and roughening

Width	115 mm
Length	5 m
Grid size	P280



Art. no. 0585 805 280

P. Qty.: 1

Nylon abrasive fleece Ultra-Fine S

Highly flexible nylon hand sanding fleece for cleaning surfaces (rust removal) and matting new parts, old paint and aluminium. For optimum use in critical areas like folds, corners, recesses or sharp corners and edges and on interior body parts.



Length	5 m
Grid size	P1000

Width	Art. no.	P. Qty.
35 mm	0585 835 600	1
70 mm	0585 870 600	1
115 mm	0585 805 600	1

Nylon Sanding Disc

For derusting, burnishing, matting and creating decorative surfaces with a random orbital sander, or for finishing by hand.



Diameter (Ø)	Design	Adhesive system	Grid size	Suitable for	Art. no.	P. Qty.
115 mm	Reinforced nylon abrasive pad	Hook and loop	100	Angle grinder	0585 46 100	10
150 mm		Hook and loop	100	Random orbit sanders, Manual work	0585 42 100	10
150 mm		Hook and loop	180	Random orbit sanders, Manual work	0585 42 180	10
150 mm		Hook and loop	280	Random orbit sanders, Manual work	0585 42 280	10
150 mm		Without	1000	Random orbit sanders, Manual work	0585 42 600	10

Grain size 1000 (art. no. 058542 600) adheres to riptape without riptape coating.

Vulcanised fibre disc CERALINE

For a high removal rate with low contact pressure for steel, stainless steel and aluminium.

- Extremely high and very fast material removal rate with cool grinding
- Very long service life and low contact pressure

Bore diameter	22.23 mm
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Diameter (Ø)	Grid size	Max. rotation speed	Recommended rotation speed	Art. no.	P. Qty.
115 mm	36+	13300 rpm	8300 rpm	0580 911 537	25
115 mm	60	13300 rpm	8300 rpm	0580 911 560	25
115 mm	80	13300 rpm	8300 rpm	0580 911 580	25
115 mm	120	13300 rpm	8300 rpm	0580 911 512	25
125 mm	36+	12250 rpm	7500 rpm	0580 912 537	25
125 mm	60	12250 rpm	7500 rpm	0580 912 560	25
125 mm	80	12250 rpm	7500 rpm	0580 912 580	25
125 mm	120	12250 rpm	7500 rpm	0580 912 512	25
178 mm	36+	8500 rpm	5300 rpm	0580 917 837	25
178 mm	60	8500 rpm	5300 rpm	0580 917 860	25
178 mm	80	8500 rpm	5300 rpm	0580 917 880	25
178 mm	120	8500 rpm	5300 rpm	0580 917 812	25

- Use fibre discs only with approved support plates that are in proper working condition.
- Work only with appropriate protective equipment, such as safety glasses, gloves, hearing protection etc.
- Do not store in sunlight, near heat sources, in damp places or on floors.
- Store in the original packaging at 18 - 22°C and 45 - 60% relative humidity.
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)

Mini vulcanised fibre disc CERALINE

For use on offset compressed air angle grinders and flexible shafts in hard-to-reach places.

- Extremely high and very fast material removal rate with cool grinding
- Very long service life and low contact pressure

Design	Compatible with 3M Roloc system
Material of abrasive medium	Ceramic grain



Diameter (Ø)	Grid size	Max. rotation speed	Recommended rotation speed	Art. no.	P. Qty.
50 mm	36	30000 rpm	20000 rpm	0580 005 236	50
50 mm	60	30000 rpm	20000 rpm	0580 005 260	50
50 mm	80	30000 rpm	20000 rpm	0580 005 280	50
50 mm	120	30000 rpm	20000 rpm	0580 005 212	50

Continuation **Mini vulcanised fibre disc CERALINE**

Diameter (Ø)	Grid size	Max. rotation speed	Recommended rotation speed	Art. no.	P. Qty.
76 mm	36	20000 rpm	12000 rpm	0580 007 236	50
76 mm	60	20000 rpm	12000 rpm	0580 007 260	50
76 mm	80	20000 rpm	12000 rpm	0580 007 280	50
76 mm	120	20000 rpm	12000 rpm	0580 007 212	50

- 76 mm dia. discs can also be used on 115 mm pneumatic or electric angle grinders in conjunction with an M14 holder.
- Work only with appropriate protective equipment, such as safety goggles, gloves, hearing protection etc.
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)

Vehicle dry sandpaper disc red perfect® non-perforated

For preparation of surface treatment of metallic substrates

- No tearing or fraying of disc around edges
- Very high material removal and long service life

Form	Washer
Diameter (Ø)	150 mm
Hole pattern	Unpunched
Adhesive system	Hook and loop



Grid size	Art. no.	P. Qty.
P80	0581 343 008	100
P100	0581 343 010	100
P120	0581 343 012	100
P150	0581 343 015	100
P180	0581 343 018	100
P220	0581 343 022	100
P240	0581 343 024	100
P320	0581 343 032	100
P400	0581 343 040	100
P500	0581 343 050	100
P600	0581 343 060	100
P800	0581 343 080	100
P1000	0581 343 100	100
P1200	0581 343 120	100
P1500	0581 343 150	100
P2000	0581 343 200	100
P2500	0581 343 250	100
P3000	0581 343 300	100

Sanding disc NET PERFECT assortment

Extensive assortment consisting of net sanding discs for high material removal for sanding plasterboard, hard and soft woods, varnish, fillers, plastics and non-ferrous metals.



- The open structure of the net sanding disc enables sanding dust to be extracted thoroughly and over the whole area.
- Adapts to any grinding plate, regardless of holes
- Higher material removal as well as a considerably longer service life compared to conventional perforated sanding discs

Adhesive system	Hook and loop
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Diameter	Number of pieces in assortment/set	Art. no.	P. Qty.
150 mm	51 PCS	5506 393 001	1
225 mm	26 PCS	5506 395 001	1

Sanding disc

For edge sanders

KGX = X-cloth backing material

Resin bond

Grain: Aluminium oxide

Used for sanding parquet and floorboards in problem areas such as radiators and stairs

The sanding discs have a slotted central hole, which allows them to be attached to larger flanges

- 150 mm disc = 12 mm centre hole
- 178 mm disc = 22 mm centre hole



Backing material	X-cloth
Material of abrasive medium	Aluminium oxide

Diameter (Ø)	Diameter of centre hole	Grid size	Art. no.	P. Qty.
150 mm	12 mm	16	0675 555 16	25
150 mm	12 mm	24	0675 555 24	50
150 mm	12 mm	30	0675 555 30	50
150 mm	12 mm	36	0675 555 36	50
178 mm	22 mm	16	0675 560 16	25
178 mm	22 mm	24	0675 560 24	50
178 mm	22 mm	30	0675 560 30	50
178 mm	22 mm	36	0675 560 36	50

Double-sided sanding disc SGY and SPE

For rotary disc sanders

Grain: Silicon carbide, highly effective chipping

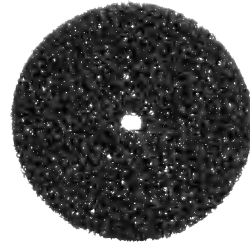
Bond: Resin bond

Backing: SGY: Heavyweight polyester fabric

SPE backing: E-paper

Sanding discs Ø:

- 375 mm = centre hole Ø 40 mm
- 406 mm = centre hole Ø 25 mm



Material of abrasive medium	Silicon carbide
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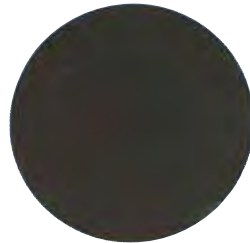
Diameter (Ø)	Diameter of centre hole	Grid size	Backing material	Art. no.	P. Qty.
375 mm	40 mm	12	Y-tissue	0675 375 12	10
375 mm	40 mm	16	Y-tissue	0675 375 16	10
375 mm	40 mm	24	Y-tissue	0675 375 24	10
375 mm	40 mm	36	E-paper	0675 375 36	10
375 mm	40 mm	40	E-paper	0675 375 40	10
375 mm	40 mm	60	E-paper	0675 375 60	10
406 mm	25 mm	12	Y-tissue	0675 406 12	10
406 mm	25 mm	16	Y-tissue	0675 406 16	10
406 mm	25 mm	24	Y-tissue	0675 406 24	10
406 mm	25 mm	36	E-paper	0675 406 36	10
406 mm	25 mm	40	E-paper	0675 406 40	10
406 mm	25 mm	60	E-paper	0675 406 60	10

Mesh Sanding Disc

For rotary disc sanders

- For fine sanding and intermediate varnish sanding of all floor-board and parquet floors.
- The linen mesh disc is attached via a black floor pad.

Diameter (Ø)	406 mm
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Grid size	Art. no.	P. Qty.
60	0585 406 60	20
80	0585 406 80	20
100	0585 406 100	20
120	0585 406 120	20
150	0585 406 150	20

Floor pad

For rotary disc sanders

- Material: Nylon
- The darker the discs, the harder and more inflexible they are

Diameter (Ø)	406 mm
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Thickness	Colour	Suitable for	Art. no.	P. Qty.
10 mm	Black	Cleaning	0675 010 4	10
10 mm	Brown	Oiling/waxing	0675 010 3	10
10 mm	Green	Cleaning	0675 010 2	10
10 mm	White	Polishing	0675 010 1	10
20 mm	Black	Cleaning	0675 020 4	5
20 mm	Brown	Oiling/waxing	0675 020 3	5
20 mm	Green	Cleaning	0675 020 2	5
20 mm	White	Polishing	0675 020 1	5

Brush

With stainless steel wire for processing stainless steel surfaces with straight grinders and drills

Shaft diameter	6 mm
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Diameter (D)	Usable length of wire (H)	Effective width (A)	Wire diameter	Max. rotation speed	Art. no.	P. Qty.
40 mm	9 mm	10 mm	0.2 mm	18000 rpm	0714 692 300	1
60 mm	14 mm	14 mm	0.3 mm	15000 rpm	0714 692 301	1

Always wear safety glasses and protective gloves when working with machine brushes!

Spindle-mounted round wheel brush

With sanding brushes made of polyamide fibres impregnated with silicon carbide abrasive grain.

- Grinding bristles work not just at the tips but at the flanks
- Low contact pressure means low heat generation
- Elastic polyamide fibres adjust to suit the surface contour
- The best surface result is achieved at a speed of between 8000 and 10,000 rpm

Shaft diameter	6 mm
Max. rotation speed	15000 rpm



Continuation **Spindle-mounted round wheel brush**

Diameter (D)	Grid size	Usable length of wire (H)	Effective width (A)	Art. no.	P. Qty.
50 mm	120	12 mm	10 mm	0714 692 603	1
50 mm	320	12 mm	10 mm	0714 692 605	1
70 mm	120	20 mm	12 mm	0714 692 610	1
70 mm	320	20 mm	12 mm	0714 692 615	1

Always wear safety glasses and protective gloves when working with machine brushes!

Shank brush/paint brush

End brushes feature especially high-quality wire

The brush opens more or less depending on the rotation speed and allows you to work in hard-to-reach areas, e.g. drilled holes and housing parts.



Usable length of wire (H)	30 mm
Length (L)	72 mm
Shaft diameter	6 mm
Max. rotation speed	20000 rpm

Diameter (D1)	Sleeve diameter (D2)	Wire diameter	Art. no.	P. Qty.
20 mm	19 mm	0.25 mm	0714 692 119	1
20 mm	19 mm	0.35 mm	0714 69 04	1
30 mm	29 mm	0.5 mm	0714 69 05	1

Always wear safety goggles and safety gloves when working with machine brushes!

End brush

With shaft and corrugated wire for brushing in hard to reach places



Shaft diameter	6 mm
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Diameter (D1)	Sleeve diameter (D2)	Usable length of wire (H)	Length (L)	Wire diameter	Art. no.	P. Qty.
12 mm	10 mm	20 mm	60 mm	0.2 mm	0714 692 204	1
12 mm	10 mm	20 mm	60 mm	0.3 mm	0714 69 200	1
12 mm	10 mm	20 mm	60 mm	0.3 mm	0714 692 200	1
23 mm	22 mm	25 mm	68 mm	0.3 mm	0714 69 201	1
23 mm	22 mm	25 mm	68 mm	0.3 mm	0714 692 205	1

Always wear safety goggles and safety gloves when working with machine brushes!

Shank round brush (braided steel wire)

For light and medium-heavy deburring and rust removal work

- Hardened steel wire, braided clockwise

Diameter (D)	75 mm
Usable length of wire (H)	15 mm
Effective width (A)	12 mm
Wire diameter	0.5 mm
Shaft diameter	6 mm
Max. rotation speed	20000 rpm



Art. no. 0714 69 06

P. Qty.: 1

Always wear safety goggles and safety gloves when working with machine brushes!

Braided cup brush (steel)

For pre-treating metallic surfaces that must be painted or coated.

- Hardened steel wire, braided clockwise
- Can be used on all common angle grinders.

Diameter (D)	70 mm
Usable length of wire (H)	20 mm
Tool holding device (d)	M14
Wire diameter	0.5 mm
Max. rotation speed	12500 rpm



Art. no. 0714 69 01

P. Qty.: 1

Always wear safety goggles and safety gloves when working with machine brushes!

Cup brush (stainless steel wire)

For treating rust-free surfaces (stainless steel)

Material: Rust-free wire, braided clockwise

Diameter (D)	65 mm
Usable length of wire (H)	20 mm
Tool holding device (d)	M14
Wire diameter	0.35 mm
Max. rotation speed	12500 rpm



Art. no. 0714 692 01

P. Qty.: 1

Always wear safety goggles and safety gloves when working with machine brushes!

Cup brushes (steel)

For pre-treating metallic surfaces that must be painted or coated.

- With support ring, which is simply removed after free wire has worn down. Another 20 mm of wire is then available.
- Hardened steel wire, braided clockwise
- Can be used on all common angle grinders



Tool holding device (d)	M14
Wire diameter	0.5 mm
Max. rotation speed	9000 rpm

Diameter (D)	Usable length of wire (H)	Art. no.	P. Qty.
80 mm	25 mm	0714 691 310	1
100 mm	23 mm	0993 579 110	1

Always wear safety goggles and safety gloves when working with machine brushes!

Cup brush made from wavy steel wire

For angle grinders

Diameter (D)	60 mm
Usable length of wire (H)	20 mm
Tool holding device (d)	M14
Wire diameter	0.35 mm
Max. rotation speed	12000 rpm



Art. no. 0714 691 340

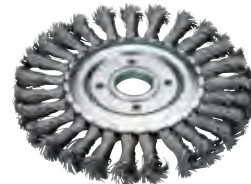
P. Qty.: 1

Always wear safety goggles and safety gloves when working with machine brushes!

Round brushes (steel)

For angle grinders

- Made from hardened steel wire, braided counter clockwise
- Especially suited for cleaning fillet welds and welding seams due to its slim design.



Internal diameter (d)	22.23 mm
Effective width (A)	12 mm
Wire diameter	0.5 mm

Diameter (D)	Usable length of wire (H)	Max. rotation speed	Art. no.	P. Qty.
115 mm	20 mm	12500 rpm	0714 69 02	1
125 mm	23 mm	12500 rpm	0714 691 512	1
150 mm	32 mm	9500 rpm	0714 69 03	1

Always wear safety goggles and safety gloves when working with machine brushes!

Round brushes — rust-free wire

For angle grinders

Rust-free wire, braided counter clockwise

Internal diameter (d)	22.2 mm
Effective width (A)	12 mm
Max. rotation speed	12500 rpm



Diameter (D)	Usable length of wire (H)	Wire diameter	Art. no.	P. Qty.
115 mm	24 mm	0.35 mm	0714 692 02	1
125 mm	29 mm	0.5 mm	0714 692 512	1

Always wear safety goggles and safety gloves when working with machine brushes!

Conical brush

For angle grinders

Thanks to their special shape, these brushes can be used to machine hard-to-reach places.

Steel

Hardened steel wire, braided counterclockwise.

Diameter (D)	115 mm
Usable length of wire (H)	20 mm
Tool holding device (d)	M14
Effective width (A)	12 mm
Wire diameter	0.5 mm
Max. rotation speed	12500 rpm



Art. no. 0714 691 411

P. Qty.: 1

Always wear safety goggles and safety gloves when working with machine brushes!

Surface brush

With shaft and hardened, crimped steel wire for processing large areas with straight grinders and drills

Wire diameter	0.3 mm
Shaft diameter	6 mm
Max. rotation speed	4500 rpm



Diameter (D)	Usable length of wire (H)	Ring width (A)	Art. no.	P. Qty.
50 mm	20 mm	10 mm	0714 69 12	1
75 mm	25 mm	15 mm	0714 69 13	1

Always wear safety glasses and protective gloves when working with machine brushes!

Shank round brush

With crimped steel wire for easy rust removal and deburring with straight grinders and drills

Shaft diameter	6 mm
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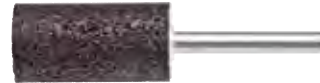


Diameter (D)	Usable length of wire (H)	Effective width (A)	Wire diameter	Max. rotation speed	Art. no.	P. Qty.
40 mm	9 mm	6 mm	0.2 mm	18000 rpm	0714 69 100	2
40 mm	9 mm	10 mm	0.2 mm	18000 rpm	0714 69 10	1
60 mm	14 mm	14 mm	0.3 mm	15000 rpm	0714 69 11	1

Always wear safety glasses and protective gloves when working with machine brushes!

Synthetic corundum sanding tip

Professional tool made from synthetic corundum in synthetic resin bond for processing stainless steels (e.g. V2A, V4A). Also suitable for use on alloyed and tempered steels, tool steels, hard non-ferrous metals (e.g. aluminium, magnesium and copper alloys) and bronze.



- Precise concentricity ensures low-vibration sanding.
- Especially suited to use on temperature-sensitive materials thanks to cool sanding action.

Shaft length	40 mm
Shaft diameter	6 mm
Material of abrasive medium	Normal corundum
Binding	Ceramically bound
Material to be processed	Stainless steel

Diameter	Working length	Length	Grid size	Type description	Art. no.	P. Qty.
10 mm	20 mm	60 mm	46	NK ZY 1020 6	0681 101 020	10
13 mm	32 mm	72 mm	24	NK ZY 1332 6	0681 101 332	10
20 mm	40 mm	80 mm	24	NK ZY 2040 6	0681 102 040	10
25 mm	6 mm	46 mm	24	NK ZY2 2506 6	0681 102 525	10
25 mm	25 mm	65 mm	24	NK KU 2525 6	0681 202 525	10
25 mm	32 mm	72 mm	24	NK ZY 2532 6	0681 102 532	10
32 mm	32 mm	72 mm	24	NK ZY 3232 6	0681 103 232	10
40 mm	20 mm	60 mm	24	NK ZY 4020 6	0681 104 020	10

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection, a dust mask and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. When using the drive spindle extensions, the specified rotation speeds and cutting speeds must be significantly reduced to prevent the shaft from bending. This is a matter of safety. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Regardless of the length of the shaft on the tool, the clamping length must be at least 10 mm.

To use sanding tools safely, please note the following information:

- The sanding tips are approved for a maximum peripheral speed of 50 m/s. The maximum permitted rotation speeds for various shaft lengths and diameters are specified in DIN 69170, which is based on EN 12413. Each packaging unit comes with an accompanying sheet that specifies the maximum permitted rotation speeds of the tool. This must be strictly observed in order to prevent the shaft from bending during use.
- The tools are fragile and must therefore be handled and transported with care. The tools must be stored in such a way that prevents them from being exposed to mechanical loads and harmful environmental influences.
- Do not use damaged or broken sanding tips.
- When using sanding tools, please observe the FEPA safety recommendations. Download: <http://www.fepa-abrasives.org>

Specially fused alumina sanding tip, pink

The professional tool made from specially fused pink alumina for universal use on steel and cast steel.

- Long service life and low tool wear thanks to a wear-resistant grain and a tough bond that retains its shape.
- High edge stability for economic use on low-speed drive motors.



Shaft length	40 mm
Shaft diameter	6 mm
Material of abrasive medium	Fused aluminium oxide
Binding	Ceramically bound
Material to be processed	Steel

Diameter	Working length	Length	Grid size	Type description	Art. no.	P. Qty.
10 mm	10 mm	50 mm	60	KU 1010	0680 30	10
10 mm	13 mm	53 mm	60	ZY 1013	0680 71	10
13 mm	20 mm	60 mm	36	ZY 1320	0680 72	10
13 mm	20 mm	60 mm	46	SP 1320	0680 41	10
16 mm	16 mm	56 mm	46	KU 1616	0680 31	10
16 mm	32 mm	72 mm	46	KE 1632	0680 20	10
20 mm	6 mm	46 mm	46	ZY2 2006	0680 73	10
20 mm	12 mm	52 mm	36	ZY 2012	0680 74	10
20 mm	20 mm	60 mm	36	KE 2020	0680 21	10
20 mm	25 mm	65 mm	36	WK 2025	0680 51	10
20 mm	25 mm	65 mm	36	WR 2025	0680 61	10
20 mm	30 mm	70 mm	36	ZY 2030	0680 75	10
20 mm	32 mm	72 mm	36	SP 2032	0680 42	10
25 mm	25 mm	65 mm	36	ZY 2525	0680 76	10
32 mm	16 mm	56 mm	30	ZY 3216	0680 77	5
40 mm	20 mm	60 mm	30	ZY 4020	0680 78	5

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection, a dust mask and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. When using the drive spindle extensions, the specified rotation speeds and cutting speeds must be significantly reduced to prevent the shaft from bending. This is a matter of safety. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Regardless of the length of the shaft on the tool, the clamping length must be at least 10 mm.

To use sanding tools safely, please note the following information:

- The sanding tips are approved for a maximum peripheral speed of 50 m/s. The maximum permitted rotation speeds for various shaft lengths and diameters are specified in DIN 69170, which is based on

Continuation **Specially fused alumina sanding tip, pink**

EN 12413. Each packaging unit comes with an accompanying sheet that specifies the maximum permitted rotation speeds of the tool. This must be strictly observed in order to prevent the shaft from bending during use.

- The tools are fragile and must therefore be handled and transported with care. The tools must be stored in such a way that prevents them from being exposed to mechanical loads and harmful environmental influences.
- Do not use damaged or broken sanding tips.
- When using sanding tools, please observe the FEPA safety recommendations. Download: <http://www.fepa-abrasives.org>

Sanding Belt

Aluminium oxide linen sanding belt with a full synthetic resin bonding

- The centrifugal force tension ensures slip-free mounting of the sanding belt
- Extremely resilient sanding belt thanks to the flexibility of the carrier
- Cool sanding action ensures no tarnishing of material
- Even solder can be processed thanks to the flexibility and flexing movement
- Casting resins and fillers can be processed well with an appropriately coarse grain



Diameter (d1)	Width (l1)	Grid size	Art. no.	P. Qty.
12 mm	10 mm	80	0589 112 102	50
12 mm	10 mm	150	0589 112 103	50
12 mm	10 mm	240	0589 112 104	50
22 mm	20 mm	80	0589 122 202	50
22 mm	20 mm	150	0589 122 203	50
22 mm	20 mm	240	0589 122 204	50
30 mm	30 mm	50	0589 130 301	50
30 mm	30 mm	80	0589 130 302	50
30 mm	30 mm	150	0589 130 303	50
45 mm	30 mm	50	0589 145 301	20
45 mm	30 mm	80	0589 145 302	20
45 mm	30 mm	150	0589 145 303	20
60 mm	30 mm	50	0589 160 301	15
60 mm	30 mm	80	0589 160 302	15
60 mm	30 mm	150	0589 160 303	15

Rubber Backing for Sanding Belt

For sanding belts

Shaft diameter (d2)	6 mm
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Diameter (d1)	Sanding-belt carrier width (l1)	Length (l2)	Max. rotation speed	Art. no.	P. Qty.
12 mm	10 mm	50 mm	48000 rpm	0589 112 100	1
22 mm	20 mm	60 mm	23000 rpm	0589 122 200	1
30 mm	30 mm	70 mm	19000 rpm	0589 130 300	1
45 mm	30 mm	70 mm	13000 rpm	0589 145 300	1
60 mm	30 mm	70 mm	9500 rpm	0589 160 300	1

Carbide milling bit Multi-performance TiAlSiN

The premium all-rounder with titanium-aluminium-silicon-nitride coating and unique multi-tooth geometry for efficient roughing and smoothing in a single process on almost all materials, such as steel with a hardness < 65 HRC, cast iron, stainless steel, titanium, special alloys and hard and tough materials (e.g. Hardox). Also suitable for non-ferrous metals, such as aluminium alloys > 10% silicon, magnesium alloys, brass, copper, bronze and plastics.



- Innovative multi-tooth geometry with a combination of staggered and fine toothing for a shiny, smooth surface finish, smooth milling behaviour and excellent handling
- High-end TiAlSiN coating for a service life of up to three times longer than uncoated milling bits with a conventional staggered tooth system
- Up to 50% higher cutting performance compared to conventional staggered tooth system
- Manufactured in accordance with strict quality standards including full inspection of soldered connections

Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Titanium alloy, Special alloy, Hard and tough material, Non-ferrous metal
Suitable for hardnesses up to	65 HRC
Quality	ZEBRA-Premium
Teeth type	Multi Performance
Cutting material	Carbide
Surface	TiAlSiN
Service life (points system)	●●●●
Cutting efficiency (point system)	●●●○
Surface quality/finish (points system)	●●●○
Versatility (points system)	●●●●
Guiding behaviour (point system)	●●●●

Form	Head diameter x cutting edge length	Length	Shaft diameter	Art. no.	P. Qty.
Ball shape	3 x 2.8 mm	38 mm	3 mm	0616 583 030	1
Ball shape	6 x 5 mm	50 mm	6 mm	0616 583 060	1
Ball shape	8 x 7 mm	52 mm	6 mm	0616 583 080	1
Ball shape	10 x 9 mm	54 mm	6 mm	0616 583 100	1
Ball shape	12 x 11 mm	56 mm	6 mm	0616 583 120	1
Cylindrical	3 x 14 mm	38 mm	3 mm	0616 580 030	1

Continuation **Carbide milling bit Multi-performance TiAlSiN**

Form	Head diameter x cutting edge length	Length	Shaft diameter	Art. no.	P. Qty.
Cylindrical	6 x 18 mm	50 mm	6 mm	0616 580 060	1
Cylindrical	8 x 18 mm	63 mm	6 mm	0616 580 080	1
Cylindrical	10 x 20 mm	65 mm	6 mm	0616 580 100	1
Cylindrical	12 x 25 mm	70 mm	6 mm	0616 580 120	1
Cylindrical shape	3 x 14 mm	38 mm	3 mm	0616 582 030	1
Cylindrical shape	6 x 18 mm	50 mm	6 mm	0616 582 060	1
Cylindrical shape	8 x 18 mm	63 mm	6 mm	0616 582 080	1
Cylindrical shape	10 x 20 mm	65 mm	6 mm	0616 582 100	1
Cylindrical shape	12 x 25 mm	70 mm	6 mm	0616 582 120	1
Cylindrical shape with spur cut	3 x 14 mm	38 mm	3 mm	0616 581 030	1
Cylindrical shape with spur cut	6 x 18 mm	50 mm	6 mm	0616 581 060	1
Cylindrical shape with spur cut	8 x 18 mm	63 mm	6 mm	0616 581 080	1
Cylindrical shape with spur cut	10 x 20 mm	65 mm	6 mm	0616 581 100	1
Cylindrical shape with spur cut	12 x 25 mm	70 mm	6 mm	0616 581 120	1
Ogive shape	3 x 13 mm	38 mm	3 mm	0616 587 030	1
Ogive shape	6 x 18 mm	50 mm	6 mm	0616 587 060	1
Ogive shape	8 x 18 mm	63 mm	6 mm	0616 587 080	1
Ogive shape	10 x 20 mm	65 mm	6 mm	0616 587 100	1
Ogive shape	12 x 25 mm	70 mm	6 mm	0616 587 120	1
Semicircular shape	3 x 13 mm	38 mm	3 mm	0616 584 030	1
Semicircular shape	6 x 18 mm	50 mm	6 mm	0616 584 060	1
Semicircular shape	8 x 18 mm	63 mm	6 mm	0616 584 080	1
Semicircular shape	10 x 20 mm	65 mm	6 mm	0616 584 100	1
Semicircular shape	12 x 25 mm	70 mm	6 mm	0616 584 120	1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the extremely high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.

Carbide milling bit INOX teeth

High-performance milling bit with innovative tooth geometry for an outstanding cutting performance when processing stainless steel (INOX).



- Up to 100% higher cutting performance when processing stainless steel compared to milling bits with a conventional staggered tooth system
- High surface quality thanks to optimal chip formation
- Smooth milling behaviour and excellent handling
- Convenient operation with low vibration and very little noise
- The special cutting geometry reduces heat development and prevents discolouration on the workpiece.
- Manufactured in accordance with strict quality standards including full inspection of soldered connections

Material to be processed	Stainless steel
Quality	ZEBRA-Premium
Teeth type	INOX
Cutting material	Carbide
Surface	Plain
Service life (points system)	●●●○
Cutting efficiency (point system)	●●●●
Surface quality/finish (points system)	●●●○
Versatility (points system)	●○○○
Guiding behaviour (point system)	●●●○

Form	Head diameter x cutting edge length	Length	Shaft diameter	Art. no.	P. Qty.
Ball shape	3 x 2.8 mm	38 mm	3 mm	0616 553 030	1
Ball shape	6 x 5 mm	50 mm	6 mm	0616 553 060	1
Ball shape	8 x 7 mm	52 mm	6 mm	0616 553 080	1
Ball shape	10 x 9 mm	54 mm	6 mm	0616 553 100	1
Ball shape	12 x 11 mm	56 mm	6 mm	0616 553 120	1
Cylindrical	3 x 14 mm	38 mm	3 mm	0616 550 030	1
Cylindrical	6 x 18 mm	50 mm	6 mm	0616 550 060	1
Cylindrical	8 x 18 mm	63 mm	6 mm	0616 550 080	1
Cylindrical	10 x 20 mm	65 mm	6 mm	0616 550 100	1
Cylindrical	12 x 25 mm	70 mm	6 mm	0616 550 120	1
Cylindrical shape	3 x 14 mm	38 mm	3 mm	0616 552 030	1
Cylindrical shape	6 x 18 mm	50 mm	6 mm	0616 552 060	1
Cylindrical shape	8 x 18 mm	63 mm	6 mm	0616 552 080	1
Cylindrical shape	10 x 20 mm	65 mm	6 mm	0616 552 100	1
Cylindrical shape	12 x 25 mm	70 mm	6 mm	0616 552 120	1
Ogive shape	3 x 13 mm	38 mm	3 mm	0616 557 030	1
Ogive shape	6 x 18 mm	50 mm	6 mm	0616 557 060	1
Ogive shape	8 x 18 mm	63 mm	6 mm	0616 557 080	1
Ogive shape	10 x 20 mm	65 mm	6 mm	0616 557 100	1
Ogive shape	12 x 25 mm	70 mm	6 mm	0616 557 120	1
Semicircular shape	3 x 13 mm	38 mm	3 mm	0616 554 030	1
Semicircular shape	6 x 18 mm	50 mm	6 mm	0616 554 060	1
Semicircular shape	8 x 18 mm	63 mm	6 mm	0616 554 080	1
Semicircular shape	10 x 20 mm	65 mm	6 mm	0616 554 100	1
Semicircular shape	12 x 25 mm	70 mm	6 mm	0616 554 120	1

Continuation **Carbide milling bit INOX teeth**

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the extremely high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.

Carbide milling bit STEEL teeth

High-performance milling bit with innovative tooth geometry for an outstanding cutting performance when processing steel and cast steel.

- Up to 50% higher cutting performance when processing steel and cast steel compared to milling bits with a conventional staggered tooth system
- Aggressive milling behaviour, large chips, high material removal rate
- Excellent handling
- Workpiece is protected due to significantly lower heat development
- Manufactured in accordance with strict quality standards including full inspection of soldered connections



Shaft diameter	6 mm
Material to be processed	Steel, Cast metal
Quality	ZEBRA-Premium
Teeth type	STEEL
Cutting material	Carbide
Surface	Plain
Service life (points system)	●●●○
Cutting efficiency (point system)	●●●●
Surface quality/finish (points system)	●●○○
Versatility (points system)	●○○○
Guiding behaviour (point system)	●●●○

Form	Head diameter x cutting edge length	Length	Art. no.	P. Qty.
Ball shape	6 x 5 mm	50 mm	0616 533 060	1
Ball shape	8 x 7 mm	52 mm	0616 533 080	1
Ball shape	10 x 9 mm	54 mm	0616 533 100	1
Ball shape	12 x 11 mm	56 mm	0616 533 120	1
Cylindrical shape	6 x 18 mm	50 mm	0616 532 060	1
Cylindrical shape	8 x 18 mm	63 mm	0616 532 080	1
Cylindrical shape	10 x 20 mm	65 mm	0616 532 100	1
Cylindrical shape	12 x 25 mm	70 mm	0616 532 120	1
Cylindrical shape with spur cut	6 x 18 mm	50 mm	0616 531 060	1
Cylindrical shape with spur cut	8 x 18 mm	63 mm	0616 531 080	1

Form	Head diameter x cutting edge length	Length	Art. no.	P. Qty.
Cylindrical shape with spur cut	10 x 20 mm	65 mm	0616 531 100	1
Cylindrical shape with spur cut	12 x 25 mm	70 mm	0616 531 120	1
Ogive shape	6 x 18 mm	50 mm	0616 537 060	1
Ogive shape	8 x 18 mm	63 mm	0616 537 080	1
Ogive shape	10 x 20 mm	65 mm	0616 537 100	1
Ogive shape	12 x 25 mm	70 mm	0616 537 120	1
Semicircular shape	6 x 18 mm	50 mm	0616 534 060	1
Semicircular shape	8 x 18 mm	63 mm	0616 534 080	1
Semicircular shape	10 x 20 mm	65 mm	0616 534 100	1
Semicircular shape	12 x 25 mm	70 mm	0616 534 120	1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the extremely high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.

Carbide milling bit RADIUS teeth

Professional radius tool with a combined cylindrical and round shape for quick and unique rounding of edges in internal and external chamfers in almost all materials, such as steel with a hardness < 60 HRC, cast iron, stainless steel, special alloys, hard and tough materials (e.g. Hardox) and hard non-ferrous metals.



- Special tooth geometry with overlapping teeth in the centre of the milling bit for convenient production of smooth radii.
- The self-centring guide geometry prevents slippage on sharp edges.
- The smooth front of the milling bit prevents the workpiece surface from being damaged.
- Smooth milling behaviour and excellent handling
- Manufactured in accordance with strict quality standards including full inspection of soldered connections

Form	Combination of cylindrical and cylindrical shape
Head diameter x cutting edge length	12.7 x 25 mm
Length	70 mm
Shaft diameter	6 mm
Material to be processed	Steel, Cast metal, Stainless steel, Special alloy, Hard and tough material, Non-ferrous metal
Suitable for hardnesses up to	60 HRC
Quality	ZEBRA-Premium
Teeth type	RADIUS
Cutting material	Carbide
Surface	Plain
Service life (points system)	●●●○

Continuation Carbide milling bit RADIUS teeth

Cutting efficiency (point system)	●●○○
Surface quality/finish (points system)	●●●○
Versatility (points system)	●●●○
Guiding behaviour (point system)	●●●○

Art. no. 0616 590 127

P. Qty.: 1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools

Carbide milling bit MX teeth

Standard milling bit with staggered tooth system for universal machining of steel with a hardness < 60 HRC, cast iron, stainless steel, special alloys, hard and tough materials (e.g. Hardox) and hard non-ferrous metals.



- Produces short chips and a high surface quality
- Manufactured in accordance with strict quality standards including full inspection of soldered connections

Material to be processed	Steel, Cast metal, Stainless steel, Special alloy, Hard and tough material, Non-ferrous metal
Suitable for hardnesses up to	60 HRC
Quality	Würth-Standard
Teeth type	MX
Cutting material	Carbide
Surface	Plain
Service life (points system)	●●○○
Cutting efficiency (point system)	●●○○
Surface quality/finish (points system)	●●○○
Versatility (points system)	●●●○
Guiding behaviour (point system)	●●○○

Form	Head diameter x cutting edge length	Length	Shaft diameter	Art. no.	P. Qty.
Ball shape	3 x 2.5 mm	38 mm	3 mm	0616 003 000	1
Ball shape	6 x 4.7 mm	50 mm	6 mm	0616 003 010	1
Ball shape	8 x 7 mm	52 mm	6 mm	0616 003 021	1
Ball shape	9.6 x 8 mm	54 mm	6 mm	0616 003 031	1
Ball shape	12 x 11 mm	56 mm	6 mm	0616 003 041	1
Cone with rounded end	3 x 13 mm	38 mm	3 mm	0616 009 000	1

Form	Head diameter x cutting edge length	Length	Shaft diameter	Art. no.	P. Qty.
Cone with rounded end	6 x 16 mm	50 mm	6 mm	0616 009 011	1
Cone with rounded end	8 x 22 mm	67 mm	6 mm	0616 009 021	1
Cone with rounded end	10 x 20 mm	65 mm	6 mm	0616 009 031	1
Cone with rounded end	12 x 25 mm	70 mm	6 mm	0616 009 041	1
Conical pointed	3 x 11 mm	38 mm	3 mm	0616 008 000	1
Conical pointed	6 x 20 mm	50 mm	6 mm	0616 008 011	1
Conical pointed	8 x 20 mm	65 mm	6 mm	0616 008 021	1
Conical pointed	10 x 20 mm	65 mm	6 mm	0616 008 031	1
Conical pointed	12 x 25 mm	70 mm	6 mm	0616 008 041	1
Cylindrical	3 x 14 mm	38 mm	3 mm	0616 000 000	1
Cylindrical	6 x 18 mm	50 mm	6 mm	0616 000 011	1
Cylindrical	8 x 18 mm	63 mm	6 mm	0616 000 021	1
Cylindrical	10 x 20 mm	65 mm	6 mm	0616 000 031	1
Cylindrical	12 x 25 mm	70 mm	6 mm	0616 000 041	1
Cylindrical shape	3 x 13 mm	40 mm	3 mm	0616 002 000	1
Cylindrical shape	6 x 18 mm	50 mm	6 mm	0616 002 011	1
Cylindrical shape	8 x 19 mm	64 mm	6 mm	0616 002 021	1
Cylindrical shape	9.6 x 19 mm	64 mm	6 mm	0616 002 031	1
Cylindrical shape	12 x 25 mm	70 mm	6 mm	0616 002 041	1
Cylindrical shape with spur cut	3 x 14 mm	38 mm	3 mm	0616 001 000	1
Cylindrical shape with spur cut	6 x 18 mm	50 mm	6 mm	0616 001 011	1
Cylindrical shape with spur cut	8 x 19 mm	64 mm	6 mm	0616 001 021	1
Cylindrical shape with spur cut	9.6 x 19 mm	64 mm	6 mm	0616 001 031	1
Cylindrical shape with spur cut	12 x 25 mm	70 mm	6 mm	0616 001 041	1
Drop shape	3 x 6 mm	38 mm	3 mm	0616 005 000	1
Drop shape	6 x 10 mm	50 mm	6 mm	0616 005 011	1
Drop shape	8 x 15 mm	60 mm	6 mm	0616 005 021	1
Drop shape	10 x 16 mm	61 mm	6 mm	0616 005 031	1
Drop shape	12 x 21 mm	66 mm	6 mm	0616 005 041	1
Flame configuration	3 x 7 mm	38 mm	3 mm	0616 006 000	1
Flame configuration	6 x 18 mm	50 mm	6 mm	0616 006 011	1
Flame configuration	8 x 19 mm	64 mm	6 mm	0616 006 021	1
Flame configuration	10 x 25 mm	70 mm	6 mm	0616 006 031	1
Flame configuration	12 x 30 mm	75 mm	6 mm	0616 006 041	1
Ogive shape	3 x 14 mm	38 mm	3 mm	0616 007 000	1
Ogive shape	6 x 18 mm	50 mm	6 mm	0616 007 011	1
Ogive shape	8 x 19 mm	64 mm	6 mm	0616 007 021	1
Ogive shape	9.6 x 19 mm	64 mm	6 mm	0616 007 031	1
Ogive shape	12 x 25 mm	70 mm	6 mm	0616 007 041	1
Semicircular shape	3 x 14 mm	38 mm	3 mm	0616 004 000	1
Semicircular shape	6 x 18 mm	50 mm	6 mm	0616 004 011	1
Semicircular shape	8 x 20 mm	65 mm	6 mm	0616 004 021	1
Semicircular shape	10 x 20 mm	65 mm	6 mm	0616 004 031	1
Semicircular shape	12 x 25 mm	70 mm	6 mm	0616 004 041	1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive

Continuation Carbide milling bit MX teeth

works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.

Carbide milling bit 3R teeth

Extremely robust, impact-resistant milling bit for rough cutting in steel with a hardness < 55 HRC, cast iron, stainless steel, special alloys and hard non-ferrous metals.

- High material removal rate in heavy-duty use
- High-performance cutting geometry minimises tooth breakouts, flaking and head breakage.
- Can also be used at low speeds thanks to the innovative 3R toothing.
- Manufactured in accordance with strict quality standards including full inspection of soldered connections



Shaft diameter	6 mm
Material to be processed	Steel, Cast metal, Stainless steel, Special alloy, Non-ferrous metal, Hard and tough material
Suitable for hardnesses up to	55 HRC
Quality	ZEBRA-Premium
Teeth type	3R
Cutting material	Carbide
Surface	Plain
Service life (points system)	●●●○
Cutting efficiency (point system)	●●●○
Surface quality/finish (points system)	●●○○
Versatility (points system)	●●●○
Guiding behaviour (point system)	●●○○

Form	Head diameter x cutting edge length	Length	Art. no.	P. Qty.
Ball shape	12 x 11 mm	56 mm	0616 003 341	1
Cone with rounded end	12 x 25 mm	70 mm	0616 009 341	1
Cylindrical shape	6 x 18 mm	50 mm	0616 002 311	1
Cylindrical shape	8 x 19 mm	64 mm	0616 002 321	1
Cylindrical shape	9.6 x 19 mm	64 mm	0616 002 331	1
Cylindrical shape	12 x 25 mm	70 mm	0616 002 341	1
Cylindrical shape with spur cut	6 x 18 mm	64 mm	0616 000 311	1
Cylindrical shape with spur cut	8 x 19 mm	56 mm	0616 000 321	1
Cylindrical shape with spur cut	9.6 x 19 mm	64 mm	0616 001 331	1
Cylindrical shape with spur cut	12 x 25 mm	70 mm	0616 001 341	1
Drop shape	12 x 21 mm	66 mm	0616 005 341	1
Ogive shape	9.6 x 19 mm	64 mm	0616 007 331	1

Form	Head diameter x cutting edge length	Length	Art. no.	P. Qty.
Ogive shape	12 x 25 mm	70 mm	0616 007 341	1
Semicircular shape	6 x 18 mm	50 mm	0616 004 311	1
Semicircular shape	8 x 20 mm	65 mm	0616 004 321	1
Semicircular shape	9.6 x 19 mm	64 mm	0616 004 331	1
Semicircular shape	12 x 25 mm	70 mm	0616 004 341	1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.

Carbide milling bit MZ teeth

The specialist tool for micro-machining with extremely high surface quality on almost all materials, such as steel with a hardness < 60 HRC, cast iron, stainless steel, special alloys, titanium, hard and tough materials (e.g. Hardox), hard non-ferrous metals and wood.

- No geometric change as a result of wear compared to sanding tips, and very little vibration or noise
- Manufactured in accordance with strict quality standards including full inspection of soldered connections



Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Titanium alloy, Special alloy, Hard and tough material, Non-ferrous metal
Suitable for hardnesses up to	60 HRC
Quality	ZEBRA-Premium
Teeth type	MZ
Cutting material	Carbide
Surface	Plain
Service life (points system)	●●●○
Cutting efficiency (point system)	●○○○
Surface quality/finish (points system)	●●●●
Versatility (points system)	●●●○
Guiding behaviour (point system)	●●●●

Form	Head diameter x cutting edge length	Length	Shaft diameter	Art. no.	P. Qty.
Ball shape	3 x 2.8 mm	38 mm	3 mm	0616 203 200	1
Ball shape	6 x 5 mm	50 mm	6 mm	0616 203 211	1
Ball shape	8 x 7 mm	52 mm	6 mm	0616 203 221	1
Ball shape	10 x 9 mm	54 mm	6 mm	0616 203 231	1
Ball shape	12 x 11 mm	56 mm	6 mm	0616 203 241	1
Cylindrical	6 x 16 mm	50 mm	6 mm	0616 200 211	1
Cylindrical	8 x 18 mm	65 mm	6 mm	0616 200 221	1
Cylindrical	10 x 20 mm	60 mm	6 mm	0616 200 231	1

Continuation Carbide milling bit MZ teeth

Form	Head diameter x cutting edge length	Length	Shaft diameter	Art. no.	P. Qty.
Cylindrical	12 x 25 mm	70 mm	6 mm	0616 200 241	1
Cylindrical shape	6 x 16 mm	50 mm	6 mm	0616 202 211	1
Cylindrical shape	8 x 18 mm	63 mm	6 mm	0616 202 221	1
Cylindrical shape	12 x 25 mm	70 mm	6 mm	0616 202 241	1
Ogive shape	3 x 13 mm	38 mm	3 mm	0616 207 200	1
Ogive shape	6 x 18 mm	50 mm	6 mm	0616 207 211	1
Ogive shape	8 x 19 mm	64 mm	6 mm	0616 207 221	1
Ogive shape	10 x 20 mm	65 mm	6 mm	0616 207 231	1
Ogive shape	12 x 25 mm	70 mm	6 mm	0616 207 241	1
Semicircular shape	6 x 18 mm	50 mm	6 mm	0616 204 211	1
Semicircular shape	8 x 18 mm	63 mm	6 mm	0616 204 221	1
Semicircular shape	10 x 20 mm	60 mm	6 mm	0616 204 231	1
Semicircular shape	12 x 25 mm	70 mm	6 mm	0616 204 241	1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Move the milling bit quickly and synchronously over the workpiece being processed to produce a fine surface. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.

Carbide milling bit assortment MX teeth

10 pieces. Standard milling bits with staggered tooth system for universal machining of steel with a hardness < 60 HRC, cast iron, stainless steel, special alloys, hard and tough materials (e.g. Hardox) and hard non-ferrous metals.

- Produces short chips and a high surface quality
- Manufactured in accordance with strict quality standards including full inspection of soldered connections



Number of pieces in assortment/set	10 PCS
Material to be processed	Steel, Cast metal, Stainless steel, Special alloy, Hard and tough material, Non-ferrous metal
Suitable for hardnesses up to	60 HRC
Quality	Würth-Standard
Teeth type	MX
Cutting material	Carbide
Surface	Plain
Shaft diameter	6 mm

Art. no. 0616 100

P. Qty.: 1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive

works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.

Carbide milling bit assortment MX teeth

5 pieces. Standard milling bits with staggered tooth system for universal machining of steel with a hardness < 60 HRC, cast iron, stainless steel, special alloys, hard and tough materials (e.g. Hardox) and hard non-ferrous metals.

- Produces short chips and a high surface quality
- Manufactured in accordance with strict quality standards including full inspection of soldered connections



Number of pieces in assortment/set	5 PCS
Material to be processed	Steel, Cast metal, Stainless steel, Special alloy, Hard and tough material, Non-ferrous metal
Suitable for hardnesses up to	60 HRC
Quality	Würth-Standard
Teeth type	MX
Cutting material	Carbide
Surface	Plain
Shaft diameter	6 mm

Art. no. 0616 500 000

P. Qty.: 1

Contents for art. no. 0616 500 000		
Designation	Art. no.	Quantity
Carbide milling bit MX teeth Cylindrical shape with spur cut; 9.6 mm	0616 001 031	1
Carbide milling bit MX teeth Cylindrical shape; 9.6 mm	0616 002 031	1
Carbide milling bit MX teeth Ball shape; 9.6 mm	0616 003 031	1
Carbide milling bit MX teeth Ogive shape; 9.6 mm	0616 007 031	1
Carbide milling bit MX teeth Cone with rounded end; 10 mm	0616 009 031	1

Carbide milling bit assortment Multi-performance TiAlSiN

10 pieces. The premium all-rounder with titanium-aluminium-silicon-nitride coating and unique multi-tooth geometry for efficient roughing and smoothing in a single process on almost all materials such as steel with a hardness < 65 HRC, cast iron, stainless steel, titanium, special alloys and hard and tough materials (e.g. Hardox). Also suitable for non-ferrous metals, such as aluminium alloys > 10% silicon, magnesium alloys, brass, copper, bronze and plastics.



- Innovative multi-tooth geometry with a combination of staggered and fine toothing for a shiny, smooth surface finish, smooth milling behaviour and excellent handling
- High-end TiAlSiN coating for a service life of up to three times longer than uncoated milling bits with a conventional staggered tooth system
- Up to 50% higher cutting performance compared to conventional staggered tooth system
- Manufactured in accordance with strict quality standards including full inspection of soldered connections

Number of pieces in assortment/set	10 PCS
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Titanium alloy, Special alloy, Hard and tough material, Non-ferrous metal
Suitable for hardnesses up to	65 HRC
Quality	ZEBRA-Premium
Teeth type	Multi Performance
Cutting material	Carbide
Surface	TiAlSiN
Shaft diameter	6 mm

Art. no. 0616 580 002

P. Qty.: 1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the extremely high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.

Carbide milling bit assortment Multi-performance TiAlSiN

5 pieces. The premium all-rounder with titanium-aluminium-silicon-nitride coating and unique multi-tooth geometry for efficient roughing and smoothing in a single process on almost all materials such as steel with a hardness < 65 HRC, cast iron, stainless steel, titanium, special alloys and hard and tough materials (e.g. Hardox). Also suitable for non-ferrous metals, such as aluminium alloys > 10% silicon, magnesium alloys, brass, copper, bronze and plastics.



- Innovative multi-tooth geometry with a combination of staggered and fine toothing for a shiny, smooth surface finish, smooth milling behaviour and excellent handling
- High-end TiAlSiN coating for a service life of up to three times longer than uncoated milling bits with a conventional staggered tooth system
- Up to 50% higher cutting performance compared to conventional staggered tooth system
- Manufactured in accordance with strict quality standards including full inspection of soldered connections



Number of pieces in assortment/set	5 PCS
Material to be processed	Steel, Cast metal, Stainless steel, Titanium, Titanium alloy, Special alloy, Hard and tough material, Non-ferrous metal
Suitable for hardnesses up to	65 HRC
Quality	ZEBRA-Premium
Teeth type	Multi Performance
Cutting material	Carbide
Surface	TiAlSiN
Shaft diameter	6 mm

Art. no. 0616 580 001

P. Qty.: 1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the extremely high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.

Carbide milling bit assortment STEEL teeth

High-performance milling bits with innovative tooth geometry for outstanding cutting performance when processing steel and cast steel.

- Up to 50% higher cutting performance for machining steel and steel casting compared to milling bits with conventional staggered tooth system
- Aggressive milling behaviour, large chips, high material removal rate, excellent handling
- Workpiece is protected due to significantly lower heat development



Number of pieces in assortment/set	10 PCS
Material to be processed	Steel
Quality	ZEBRA-Premium
Teeth type	STEEL
Cutting material	Carbide
Surface	Plain
Shaft diameter	6 mm



Art. no. 0616 530 002

P. Qty.: 1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the extremely high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.

Carbide milling bit assortment STEEL teeth

High-performance milling bits with innovative tooth geometry for outstanding cutting performance when processing steel and cast steel.

- Up to 50% higher cutting performance for machining steel and steel casting compared to milling bits with conventional staggered tooth system
- Aggressive milling behaviour, large chips, high material removal rate, excellent handling
- Workpiece is protected due to significantly lower heat development



Number of pieces in assortment/set	5 PCS
Material to be processed	Steel
Quality	ZEBRA-Premium
Teeth type	STEEL
Cutting material	Carbide
Surface	Plain
Shaft diameter	6 mm



Art. no. 0616 530 001

P. Qty.: 1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the extremely high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.

Carbide milling bit assortment INOX teeth

10 pieces. High-performance milling bits with innovative tooth geometry for an outstanding cutting performance when processing stainless steel (INOX).

- Up to 100% higher cutting performance when processing stainless steel compared to milling bits with a conventional staggered tooth system
- High surface quality thanks to optimal chip formation
- Smooth milling behaviour and excellent handling
- Convenient operation with low vibration and very little noise
- The special cutting geometry reduces heat development and prevents discolouration on the workpiece.
- Manufactured in accordance with strict quality standards including full inspection of soldered connections



Number of pieces in assortment/set	10 PCS
Material to be processed	Stainless steel
Quality	ZEBRA-Premium
Teeth type	INOX
Cutting material	Carbide
Surface	Plain
Shaft diameter	6 mm

Art. no. 0616 550 002

P. Qty.: 1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the extremely high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.

Carbide milling bit assortment INOX teeth

High-performance milling bits with innovative tooth geometry for outstanding cutting performance when processing stainless steel (INOX).

- Up to 100% higher cutting performance for machining steel and stainless steel compared to milling bits with conventional staggered tooth system
- Convenient operation with low vibration and very little noise
- The special cutting geometry reduces heat development and prevents discolouration on the workpiece



Number of pieces in assortment/set	5 PCS
Material to be processed	Stainless steel
Quality	ZEBRA-Premium
Teeth type	INOX
Cutting material	Carbide
Surface	Plain
Shaft diameter	6 mm



Art. no. 0616 550 001

P. Qty.: 1

Wear appropriate protective equipment when using the sanding tip, such as eye protection, hearing protection and protective gloves. Please note the recommended rotation speed (n) and cutting speed (Vc) for the material being processed as well as the tool/material assignments in the overview tables. Before using the sanding tip, please ensure that the tip rotates properly and that the clamping function on the tool drive works correctly. Do not choose a clamping length that is too small. We recommend a minimum clamping length of approx. 2/3 of the shaft length. Discolouration may occur on the shaft due to the extremely high cutting performance. This discolouration is caused by the extremely high temperature that the tool reaches and does not pose a safety risk. Materials are generally processed in reverse rotation. Suitable tool drives: flexible shaft drives, straight grinders, robots, machine tools.



Cutting disc, Longlife & Speed

The high-tech cutting disc for extreme demands on cutting capacity and versatility with large safety buffer

- Very high safety reserves due to highly tear-resistant special woven fabrics and innovative product design
- Significant clearance cutting and easier cutting due to extremely rough lateral surfaces
- Minimal burr formation means very little reworking required

Complies with the highest safety requirements of European Standard EN 12413.



Versatility (points system)	●●○○
Service life (points system)	●●●●
Cutting ability (point system)	●●●●
Handling/user-friendliness (point system)	●●●●
Cut quality (point system)	●●●●
Drill hole	22.23 mm
Design	Straight
Max. circumferential speed	80 m/s

Diameter x thickness	Max. rotation speed	Art. no.	P. Qty.
115 x 1 mm	13300 rpm	0664 631 150	25
115 x 1 mm	13300 rpm	0664 731 150	100
125 x 0.8 mm	12250 rpm	0664 631 248	25
125 x 1 mm	12250 rpm	0664 631 250	25

Continuation **Cutting disc, Longlife & Speed**

Diameter x thickness	Max. rotation speed	Art. no.	P. Qty.
125 x 1 mm	12250 rpm	0664 731 250	100
125 x 1.3 mm	12250 rpm	0664 631 253	25
230 x 2 mm	6600 rpm	0664 632 302	25

Longlife cutting disc for aluminium/non-ferrous metals

Extremely long service life, optimal cutting capacity in solid and profile material, very high lateral stability.

- Synthetic resin-bonded, fibre-reinforced high-performance cutting discs
- For free-hand cutting with electric or pneumatic angle grinders
- Extremely low susceptibility to breakage

Versatility (points system)	●○○○
Service life (points system)	●●●●
Cutting ability (point system)	●●○○
Handling/user-friendliness (point system)	●●○○
Cut quality (point system)	●●○○
Drill hole	22.23 mm
Max. circumferential speed	80 m/s



Diameter x thickness	Design	Max. rotation speed	Art. no.	P. Qty.
115 x 2.5 mm	Cranked	13300 rpm	0670 121 152	25
125 x 2.5 mm	Cranked	12250 rpm	0670 121 252	25
180 x 2.5 mm	Straight	8500 rpm	0670 121 802	25
230 x 2.5 mm	Straight	6600 rpm	0670 122 302	25

Meets the maximum safety requirements in accordance with the EN 12413 European standard.

- Storage: Dry, at 20°C room temperature
- Work only with appropriate protective clothing
- Always use an appropriate protective hood when performing cutting work
- Work only with undamaged discs
- Do not jam/tilt the discs during cutting – increased risk of breakage!
- Ensure proper contact pressure
- Always clamp cutting discs (straight design) with metal ring towards machine

Longlife cutting disc for steel

Extremely long service life, optimal cutting capacity in solid and shaped material, very high lateral stability.

- Synthetic resin-bonded, fibrous material-reinforced high-performance cutting discs
- For free-hand cutting with electric or pneumatic angle grinders
- Extremely low susceptibility to breakage
- Minimal dimension and imbalance tolerances

Versatility (points system)	●○○○
Service life (points system)	●●●●



Cutting ability (point system)	●●○○
Handling/user-friendliness (point system)	●●○○
Cut quality (point system)	●●○○



Diameter x thickness	Drill hole	Design	Max. rotation speed	Max. circumferential speed	Art. no.	P. Qty.
115 x 2.5 mm	22.23 mm	Cranked	13300 rpm	80 m/s	0670 101 152	25
125 x 2.5 mm	22.23 mm	Cranked	12250 rpm	80 m/s	0670 101 252	25
180 x 2.5 mm	22.23 mm	Straight	8500 rpm	80 m/s	0670 101 802	25
230 x 2.5 mm	22.23 mm	Straight	6600 rpm	80 m/s	0670 102 302	25
300 x 3.5 mm	20 mm	Straight	5100 rpm	80 m/s	0670 103 023	10
350 x 4 mm	20 mm	Straight	5400 rpm	100 m/s	0670 103 524	10

Meets the maximum safety requirements in accordance with the EN 12413 European standard.

- Storage: Dry, at 20°C room temperature
- Work only with appropriate protective clothing
- Always use an appropriate protective hood when performing cutting work
- Work only with undamaged discs
- Do not jam/tilt the discs during cutting – increased risk of breakage!
- Ensure proper contact pressure
- Always clamp cutting discs (straight design) with metal ring towards machine

Cutting disc, Longlife for stone

Extremely long service life, optimal cutting capacity in solid and shaped material, very high lateral stability.

- Synthetic resin-bonded, fibrous material-reinforced high-performance cutting discs
- Extremely low susceptibility to breakage
- For free-hand cutting with electric or pneumatic angle grinders



Versatility (points system)	●○○○
Service life (points system)	●●●●
Cutting ability (point system)	●●○○
Handling/user-friendliness (point system)	●●○○
Cut quality (point system)	●●○○
Drill hole	22.23 mm
Max. circumferential speed	80 m/s



Diameter x thickness	Design	Max. rotation speed	Art. no.	P. Qty.
115 x 2.5 mm	Cranked	13300 rpm	0670 151 152	25
125 x 2.5 mm	Cranked	12250 rpm	0670 151 252	25
180 x 3 mm	Straight	8500 rpm	0670 151 803	25
230 x 3 mm	Straight	6600 rpm	0670 152 303	25

Meets the maximum safety requirements in accordance with the EN 12413 European standard.

- Storage: Dry, at 20°C room temperature
- Work only with appropriate protective clothing
- Always use an appropriate protective hood when performing cutting work
- Work only with undamaged discs

Continuation **Cutting disc, Longlife for stone**

- Do not jam/tilt the discs during cutting – increased risk of breakage!
- Ensure proper contact pressure
- Always clamp cutting discs (straight design) with metal ring towards machine

Cutting disc for steel and stainless steel Ceraline Longlife & Speed

Cutting disc made from high-performance ceramic abrasive grain with an extremely long service life, maximum cutting performance and optimum cutting properties, especially in very hard and demanding workpieces as well as solid materials. Specially designed for steel and stainless steel.

- High-performance ceramic abrasive grain and optimum binding system
- Hardly any reworking necessary
- Considerably less stress on the user



Versatility (points system)	●●●○
Service life (points system)	●●●●
Cutting ability (point system)	●●●●
Handling/user-friendliness (point system)	●●●●
Cut quality (point system)	●●●●
Drill hole	22.23 mm
Design	Straight
Max. circumferential speed	80 m/s

Diameter x thickness	Max. rotation speed	Art. no.	P. Qty.
115 x 1.3 mm	13300 rpm	0664 831 153	10
125 x 1 mm	12250 rpm	0664 831 250	10

Complies with the highest safety requirements of European Standard EN 12413

- Store in a dry place at 20°C room temperature
- Work only with appropriate protective clothing
- Always use an appropriate protective hood when performing cutting work
- Only use undamaged discs
- Do not jam/tilt the discs during cutting – increased risk of breakage!
- Ensure proper contact pressure
- Always clamp cutting discs (straight design) with metal ring towards the machine



Speed cutting disc for steel

Especially for thin-walled pipes and profiles, thin metal sheets, motor vehicle body sheets

- Extreme cutting capacity (very short cutting times) with very long service life
- Extremely thin for precise, virtually burr and chatter-free cuts (very clean and cool cutting surfaces)
- Very comfortable operation available to protect the user and machine
- Low cutting waste and dust formation
- Low noise development and high break resistance

Meets the maximum safety requirements in accordance with the EN 12413 European standard.



Versatility (points system)	●○○○
Service life (points system)	●●●○
Cutting ability (point system)	●●●●
Handling/user-friendliness (point system)	●●●○
Cut quality (point system)	●●●○
Design	Straight
Max. circumferential speed	80 m/s

Diameter x thickness	Drill hole	Max. rotation speed	Art. no.	P. Qty.
50 x 2 mm	6 mm	30500 rpm	0664 100 502	25
60 x 2 mm	6 mm	25000 rpm	0664 100 602	25
115 x 1 mm	22.23 mm	13300 rpm	0664 101 150	25
115 x 1.6 mm	22.23 mm	13300 rpm	0664 101 151	25

Continuation **Speed cutting disc for steel**

Diameter x thickness	Drill hole	Max. rotation speed	Art. no.	P. Qty.
125 x 1 mm	22.23 mm	12250 rpm	0664 101 250	25
125 x 1.6 mm	22.23 mm	12250 rpm	0664 101 251	25
180 x 2 mm	22.23 mm	8500 rpm	0664 101 802	25
230 x 2 mm	22.23 mm	6600 rpm	0664 102 302	25

Cutting disc for steel Longlife & Speed

Specially designed for all types of steel with extremely high service life and cutting performance

- Up to 50% more cuts possible
- Significant clearance cutting and easier separation
- Hardly any reworking necessary



Versatility (points system)	●●○○
Service life (points system)	●●●●
Cutting ability (point system)	●●●●
Handling/user-friendliness (point system)	●●●●
Cut quality (point system)	●●●●
Drill hole	22.23 mm
Design	Straight
Max. circumferential speed	80 m/s



Diameter x thickness	Max. rotation speed	Art. no.	P. Qty.
115 x 0.8 mm	13300 rpm	0664 601 148	25
115 x 1 mm	13300 rpm	0664 601 150	25
115 x 1.3 mm	13300 rpm	0664 601 153	25
125 x 0.8 mm	12250 rpm	0664 601 248	25
125 x 1 mm	12250 rpm	0664 601 250	25
125 x 1.3 mm	12250 rpm	0664 601 253	25
230 x 2 mm	6600 rpm	0664 602 302	25

Complies with the highest safety requirements of European Standard EN 12413

- Store in a dry place at 20°C room temperature
- Work only with appropriate protective clothing
- Always use an appropriate protective hood when performing cutting work
- Only use undamaged discs
- Do not jam/tilt the discs during cutting – increased risk of breakage!
- Ensure proper contact pressure
- Always clamp cutting discs (straight design) with metal ring towards the machine

Cutting disc, carbide-tipped

The disc's specially designed carbide granulate ensures not only excellent durability, but also rapid cuts with the angle grinder.

- Different materials can be cut with a single device. No more time-consuming machine and accessory changes.
- Special disc design for quick, clean cuts.
- The minimum disc thickness and the presence of damping slits facilitates a high circumferential speed of 80 m/s.
- The robust connection between the steel body and carbide granulate ensures durability and safety when cutting (no kick-back effect, e.g. if nails are cut).
- Either rotation direction can be selected.



Diameter	Thickness	Drill hole	Max. rotation speed	Art. no.	P. Qty.
76 mm	1.8 mm	10 mm	20100 rpm	0667 410 076	1
115 mm	2 mm	22.23 mm	13300 rpm	0667 410 112	1
125 mm	2 mm	22.23 mm	12250 rpm	0667 410 122	1
230 mm	2.1 mm	22.23 mm	6600 rpm	0667 410 232	1

Speed cutting disc for non-ferrous metals/aluminium

Especially for thin-walled pipes and profiles, thin metal sheets, bodywork panels etc.

- Extreme cutting capacity (very short cutting times) with very long service life
- Extremely thin for precise, virtually burr and chatter-free cuts (very clean and cool cutting surfaces)
- Very comfortable operation available to protect the user and machine
- Low cutting waste and dust formation
- Low noise development and high break resistance



Versatility (points system)	●○○○
Service life (points system)	●●●○
Cutting ability (point system)	●●●●
Handling/user-friendliness (point system)	●●●○
Cut quality (point system)	●●●○
Drill hole	22.23 mm
Design	Straight

Diameter x thickness	Max. rotation speed	Max. circumferential speed	Art. no.	P. Qty.
115 x 1 mm	13300 rpm	80 m/s	0664 121 150	25
115 x 1.5 mm	13300 rpm		0664 121 151	25
125 x 1 mm	12250 rpm	80 m/s	0664 121 250	25
125 x 1.5 mm	12250 rpm		0664 121 251	25
230 x 1.9 mm	6600 rpm		0664 122 301	25

Meets the maximum safety requirements in accordance with the EN 12413 European standard.

- Storage: Dry, at 20°C room temperature
- Work only with appropriate protective clothing

Continuation **Speed cutting disc for non-ferrous metals/aluminium**

- Always use an appropriate protective hood when performing cutting work
- Work only with undamaged discs
- Do not jam/tilt the discs during cutting – increased risk of breakage!
- Ensure proper contact pressure
- Always clamp cutting discs (straight design) with metal ring towards machine



Cutting disc Speed plus for stainless steel

Especially for thin-walled pipes and profiles, thin metal sheets, bodywork panels etc.

- Extreme cutting capacity (very short cutting times) with very long service life
- Extremely thin for precise, virtually burr and chatter-free cuts (very clean and cool cutting surfaces)
- Very comfortable operation available to protect the user and machine
- Low cutting waste and dust formation
- Low noise development and high break resistance
- Free of iron, chlorine and sulphur (≤ 0.1%)

Suitable for KWU Class II (e.g. pipeline and reactor construction)
Meets the maximum safety requirements in accordance with the EN 12413 European standard.



Versatility (points system)	●●○○
Service life (points system)	●●●○
Cutting ability (point system)	●●●●
Handling/user-friendliness (point system)	●●●○
Cut quality (point system)	●●●○
Max. circumferential speed	80 m/s

Diameter x thickness	Drill hole	Design	Max. rotation speed	Art. no.	P. Qty.
50 x 1 mm	6 mm	Straight	30500 rpm	0664 130 501	50
60 x 1 mm	6 mm	Straight	25000 rpm	0664 130 601	50
76 x 1 mm	10 mm	Straight	20100 rpm	0664 130 761	10/50
100 x 1 mm	10 mm	Straight	15300 rpm	0664 131 000	25

Continuation **Cutting disc Speed plus for stainless steel**

Diameter x thickness	Drill hole	Design	Max. rotation speed	Art. no.	P. Qty.
115 x 0.8 mm	22.23 mm	Cranked	13300 rpm	0664 131 148	25
115 x 1 mm	22.23 mm	Straight	13300 rpm	0664 131 150	25
115 x 1 mm	22.23 mm	Straight	13300 rpm	0664 331 150	100
115 x 1.6 mm	22.23 mm	Straight	13300 rpm	0664 131 151	25
125 x 0.6 mm	22.23 mm	Cranked	12250 rpm	0664 131 246	10
125 x 0.8 mm	22.23 mm	Cranked	12250 rpm	0664 131 248	25
125 x 1 mm	22.23 mm	Straight	12250 rpm	0664 131 250	25
125 x 1 mm	22.23 mm	Straight	12250 rpm	0664 331 250	100
125 x 1.6 mm	22.23 mm	Straight	12250 rpm	0664 131 251	25
180 x 1.6 mm	22.23 mm	Straight	8500 rpm	0664 131 801	25
180 x 2 mm	22.23 mm	Straight	8500 rpm	0664 131 802	25
230 x 1.9 mm	22.23 mm	Straight	6600 rpm	0664 132 301	25
230 x 2.5 mm	22.23 mm	Straight	6600 rpm	0664 132 302	25

Longlife rough grinding disc for steel

Especially long service life combined with high removal rates.

- Synthetic resin-bonded, fibre-reinforced high-performance roughing wheels
- For freehand grinding with electric or pneumatic angle grinders
- Extremely low susceptibility to breakage
- Minimal dimension and imbalance tolerances



Drill hole	22.23 mm
Design	Cranked
Versatility (points system)	●○○○
Service life (points system)	●●●●
Removal speed (points system)	●●●○
Removal performance (points system)	●●●○



Diameter x thickness	Max. rotation speed	Art. no.	P. Qty.
115 x 4 mm	13300 rpm	0670 161 154	25
115 x 7 mm	13300 rpm	0670 161 157	25
125 x 4 mm	12250 rpm	0670 161 254	25
125 x 7 mm	12250 rpm	0670 161 257	25
180 x 8 mm	8500 rpm	0670 161 808	10
230 x 8 mm	6600 rpm	0670 162 308	10

Complies with the highest safety requirements of European Standard EN 12413.

- Storage: dry, at 20°C ambient temperature
- Work only with appropriate protective clothing
- Only use undamaged discs
- Ensure proper contact pressure
- Ensure the proper contact angle of the rough grinding disc as an excessively shallow contact angle causes breakage of the wheel in the peripheral area.

Longlife rough grinding disc for aluminium/non-ferrous metals

Especially long service life combined with high removal rates.

- Synthetic resin-bonded, fibre-reinforced high-performance roughing wheels
- For freehand grinding with electric or pneumatic angle grinders
- Extremely low susceptibility to breakage
- Minimal dimension and imbalance tolerances



Drill hole	22.23 mm
Design	Cranked
Versatility (points system)	●○○○
Service life (points system)	●●●●
Removal speed (points system)	●●●○
Removal performance (points system)	●●●○

Diameter x thickness	Max. rotation speed	Art. no.	P. Qty.
115 x 7 mm	13300 rpm	0670 171 157	25
125 x 7 mm	12250 rpm	0670 171 257	25
180 x 7 mm	8500 rpm	0670 171 807	10

Complies with the highest safety requirements of European Standard EN 12413.

- Storage: dry, at 20°C ambient temperature
- Work only with appropriate protective clothing
- Only use undamaged discs
- Ensure proper contact pressure
- Ensure the proper contact angle of the rough grinding disc as an excessively shallow contact angle causes breakage of the wheel in the peripheral area.

Long-Life Roughing Wheel for Stainless Steel

Especially long service life combined with high removal rates.

- Synthetic resin-bonded, fibre-reinforced high-performance roughing wheels
- For freehand grinding with electric or pneumatic angle grinders
- Extremely low susceptibility to breakage
- Minimal dimension and imbalance tolerances
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)
- Suitable for KWU Class II (e.g. pipeline and reactor construction)



Drill hole	22.23 mm
Design	Cranked
Versatility (points system)	●●○○
Service life (points system)	●●●●
Removal speed (points system)	●●●○
Removal performance (points system)	●●●○

Continuation **Long-Life Roughing Wheel for Stainless Steel**

Diameter x thickness	Max. rotation speed	Art. no.	P. Qty.
115 x 7 mm	13300 rpm	0670 181 157	25
125 x 7 mm	12250 rpm	0670 181 257	25

Complies with the highest safety requirements of European Standard EN 12413.

- Storage: dry, at 20°C ambient temperature
- Work only with appropriate protective clothing
- Only use undamaged discs
- Ensure proper contact pressure
- Ensure the proper contact angle of the rough grinding disc as an excessively shallow contact angle causes breakage of the wheel in the peripheral area.

Speed rough grinding disc for steel

Especially high removal rates combined with long service life.

- Very pleasant and gentle grinding
- Synthetic resin-bonded, fibre-reinforced high-performance roughing wheels
- For freehand grinding with electric or pneumatic angle grinders
- Extremely low susceptibility to breakage



Versatility (points system)	●○○○
Service life (points system)	●●●○
Removal speed (points system)	●●●●
Removal performance (points system)	●●●○



Diameter x thickness	Drill hole	Design	Max. rotation speed	Art. no.	P. Qty.
60 x 6 mm	6 mm	Straight	25000 rpm	0664 160 606	25
115 x 4 mm	22.23 mm	Cranked	13300 rpm	0664 161 154	25
115 x 7 mm	22.23 mm	Cranked	13300 rpm	0664 161 157	25
125 x 4 mm	22.23 mm	Cranked	12250 rpm	0664 161 254	25
125 x 7 mm	22.23 mm	Cranked	12250 rpm	0664 161 257	25

Complies with the highest safety requirements of European Standard EN 12413.

- Storage: Dry, at 20°C room temperature
- Work only with appropriate protective clothing
- Always use an appropriate protective hood when performing cutting work
- Work only with undamaged discs
- Do not jam/tilt the discs during cutting – increased risk of breakage!
- Ensure proper contact pressure
- Always clamp cutting discs (straight design) with metal ring towards machine

Ensure the proper contact angle of the rough grinding disc.

An excessively shallow contact angle causes breakage of the wheel in the peripheral area.

Clamping mandrel for cutting discs and grinding discs

One for all. Clamping mandrel for cutting and grinding discs with 6-mm or 10-mm hole for use on axial or straight grinders.

- Clamping range from 0–8 mm
- Clamping screw is fully countersunk in the clamping mandrel
- Clamping screw with large contact surface and right-hand thread (self-clamping effect)
- Clamping screw with large support surface and lengthwise slit



Shaft diameter	6 mm
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Suitable for bore diameter	Length	Art. no.	P. Qty.
6 mm	54 mm	0664 976	1
10 mm	58 mm	0664 978	1

Speed rough grinding disc for steel and stainless steel

Rough grinding disc with special multi-layer structure for high material removal combined with a long service life.

Free of iron, chlorine and sulphur ($\leq 0.1\%$)

Suitable for KWU Class II (e.g. pipeline and reactor construction)

Black fine-grained layer: support layer (grinding-active)

- Excellent vibration damping

Red coarse-grained layer

Grinding-active layer with specially encased abrasive grain

Special fleece middle woven fabric



Drill hole	22.23 mm
Design	Cranked
Versatility (points system)	●●●○
Service life (points system)	●●●○
Removal speed (points system)	●●●●
Removal performance (points system)	●●●●

Diameter x thickness	Max. rotation speed	Art. no.	P. Qty.
115 x 6 mm	13300 rpm	0664 181 156	25
125 x 6 mm	12250 rpm	0664 181 256	25
180 x 6 mm	8500 rpm	0664 181 806	10

Complies with the highest safety requirements of European Standard EN 12413.

- Storage: Dry, at 20°C room temperature
- Work only with appropriate protective clothing
- Work only with undamaged discs
- Ensure correct contact pressure

Ensure the proper contact angle of the rough grinding disc.

An excessively shallow contact angle causes breakage of the wheel in the peripheral area.

Rough grinding disc for steel and stainless steel

Synthetic resin-bonded, fibre-reinforced standard rough grinding disc with very good performance values.

- High breakage resistance
- Wheel with medium hardness
- Meets the maximum safety requirements in accordance with the EN 12413 European standard



Drill hole	22.23 mm
Design	Cranked
Versatility (points system)	●●○○
Service life (points system)	●●○○
Removal speed (points system)	●●○○
Removal performance (points system)	●●○○

Diameter x thickness	Max. rotation speed	Art. no.	P. Qty.
115 x 6 mm	13300 rpm	0669 381 156	25
125 x 6 mm	12250 rpm	0669 381 256	25
180 x 6 mm	8500 rpm	0669 381 806	10
230 x 6 mm	6600 rpm	0669 382 306	10

- Storage: Dry, at 20°C room temperature
- Work only with appropriate protective clothing
- Work only with undamaged discs
- Ensure correct contact pressure

Rough grinding disc for steel and stainless steel Ceraline Longlife & Speed

Specially designed for steel and stainless steel, consisting of high-performance ceramic abrasive grain with an extremely high service life, maximum removal rate and optimum sanding properties.

- High-performance ceramic abrasive grain and optimum binding system for, among other things, extremely long service life
- Considerably less stress on the user
- Very high safety reserves and extremely low susceptibility to breakage and free of iron, chlorine and sulphur



Drill hole	22.23 mm
Design	Cranked
Versatility (points system)	●●●○
Service life (points system)	●●●●
Removal speed (points system)	●●●●
Removal performance (points system)	●●●●



Diameter x thickness	Max. rotation speed	Art. no.	P. Qty.
125 x 7 mm	12250 rpm	0664 881 257	10
180 x 7 mm	8500 rpm	0664 881 807	10
230 x 7 mm	6600 rpm	0664 882 307	10

Complies with the highest safety requirements of European Standard EN 12413

- Store in a dry place, at 20°C room temperature
- Work only with appropriate protective clothing
- Only use undamaged discs
- Ensure proper contact pressure

Cutting disc for steel

High-performance standard disc with excellent performance values.

- Synthetic resin-bonded, fibrous material-reinforced standard cutting disc
- For free-hand cutting with electric or pneumatic angle grinders
- High break resistance
- Max. circumferential speed 80 m/s



Versatility (points system)	●○○○
Service life (points system)	●●○○
Cutting ability (point system)	●○○○
Handling/user-friendliness (point system)	●●○○
Cut quality (point system)	●●○○
Drill hole	22.23 mm
Max. circumferential speed	80 m/s

Diameter x thickness	Design	Max. rotation speed	Art. no.	P. Qty.
115 x 2.5 mm	Cranked	13300 rpm	0669 101 152	25
125 x 2.5 mm	Cranked	12250 rpm	0669 101 252	25
180 x 3 mm	Straight	8500 rpm	0669 101 803	25
230 x 3 mm	Straight	6600 rpm	0669 102 303	25

Meets the maximum safety requirements in accordance with the EN 12413 European standard.

- Storage: Dry, at 20°C room temperature
- Work only with appropriate protective clothing.
- Always use an appropriate protective hood when performing cutting work.
- Only use undamaged discs.
- Do not jam/tilt the discs during cutting. Increased risk of breakage!
- Ensure correct contact pressure.
- Always clamp cutting discs (straight design) with the metal ring facing towards the machine.

Cutting disc for stainless steel

High-performance standard disc with excellent performance values.

- Synthetic resin-bonded, fibrous material-reinforced standard cutting disc
- For free-hand cutting with electric or pneumatic angle grinders
- High break resistance
- Free of iron, chlorine and sulphur ($\leq 0.1\%$)



Versatility (points system)	●●○○
Service life (points system)	●●○○
Cutting ability (point system)	●●●○
Handling/user-friendliness (point system)	●●○○
Cut quality (point system)	●●●○
Drill hole	22.23 mm
Design	Straight
Max. circumferential speed	80 m/s

Diameter x thickness	Max. rotation speed	Art. no.	P. Qty.
115 x 1 mm	13300 rpm	0669 131 150	100
125 x 1 mm	12250 rpm	0669 131 250	25/100

Meets the maximum safety requirements in accordance with the EN 12413 European standard.

- Storage: Dry, at 20 °C room temperature
- Work only with appropriate protective clothing
- Always use an appropriate protective hood when performing cutting work
- Work only with undamaged discs
- Do not jam/tilt the discs during cutting – increased risk of breakage!
- Ensure proper contact pressure
- Always clamp cutting discs (straight design) with metal ring towards machine

Diamond cutting disc Universal Basic segmented

Very good and versatile standard disc with driver hole for use on construction sites with varying materials.

- Long service life thanks to 15 mm high segments
- Optimised dust removal, cooling and cutting performance



Versatility (points system)	●●●○
Service life (points system)	●●●○
Cutting speed (point system)	●●●○
Cut quality (point system)	●●○○
Diameter (Ø)	350 mm
Drill hole	25.4 mm
Segment height	15 mm
Segment thickness	3.2 mm
Number of segments	24 PCS
Segment connection	Sintered
Max. rotation speed	5400 rpm
Max. circumferential speed	100 m/s

Art. no. 0668 772 355

P. Qty.: 5

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient circumferential speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Separate larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped wrongly or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc Longlife & Speed 3D Extreme

Yellow for construction sites. For angle grinders. With outstanding cutting properties for all construction trades thanks to innovative 3D technology.

- 3D technology
- Protection against undercut especially when working with particularly abrasive materials
- 3x more cutting edges when compared with similar cutting discs
- Optimised cooling with special cooling openings



Versatility (points system)	●●●○
Service life (points system)	●●●●
Cutting speed (point system)	●●●●
Cut quality (point system)	●●●●
Diameter (Ø)	230 mm
Drill hole	22.23 mm
Number of segments x segment height	12 x 12 mm
Number of segments x segment height 2	3 x 15 mm
Segment thickness	2.6 mm
Segment connection	Laser
Max. rotation speed	6600 rpm
Max. circumferential speed	80 m/s



Art. no. 5526 663 230

P. Qty.: 1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds

Continuation **Diamond cutting disc Longlife & Speed 3D Extreme**

- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Separate larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear protective goggles and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting and chamfering disc PLA

Specially developed diamond disc for cutting and chamfering plastic pipes in a single process.

- Cutting edge and chamfering tool with special vacuum diamond coating (BSL)
- Cut depth stop
- Constant, uniform guide



Diameter (Ø)	125 mm
Drill hole	22.23 mm
Segment thickness	2.8 mm
Number of segments	10 PCS
Segment connection	BSL
Max. rotation speed	12250 rpm
Max. circumferential speed	80 m/s

Art. no. 5527 962 128

P. Qty.: 1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient circumferential speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Separate larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation

- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped wrongly or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc Long-life & Speed roof

Super-thin diamond cutting disc with extremely high ease of cutting, very long service life and especially wide range of applications specially developed for the roofing trade.

- The extra-thin, finely toothed closed cutting edge facilitates absolutely precise, rapid cuts and cleanly cut edges
- Disc does not wobble or vibrate owing to corrugated carrier specially reinforced in the centre
- The extremely thin segment focuses the cutting force very precisely
- Special cooling openings with an „arrow arrangement“ provide additional cooling and serve as a captive running direction indicator



Versatility (points system)	●●●●
Service life (points system)	●●●●
Cutting speed (point system)	●●●●
Cut quality (point system)	●●●●
Drill hole	22.23 mm
Segment height	12 mm
Segment connection	Sintered
Max. circumferential speed	80 m/s

Diameter (Ø)	Segment thickness	Max. rotation speed	Art. no.	P. Qty.
125 mm	1.8 mm	13300 rpm	5526 840 125	1/6
230 mm	2.2 mm	6600 rpm	5526 840 230	1/6

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient circumferential speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Separate larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)

Continuation **Diamond cutting disc Long-life & Speed roof**

- If grinding tools are clamped wrongly or used incorrectly or are damaged, they represent a danger and may cause serious injury

Reducing ring Multi-Fix

The reducing ring makes it very easy to adjust the bore hole diameter and thus enables the use of all diamond cutting discs, without time-consuming assembly work.



- Usable on both sides and reusable: Reduction of 25.4 or 22.23 mm bore holes to 20.0 mm or 25.4 mm to 22.23 mm.
- Safe, quick and easy to secure thanks to the extra large contact surface
- Complies with the European Standard EN13236

Diameter	103 mm
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Suitable for bore diameter	Suitable for bore diameter 2	Reduction of/to	Reduction 2 of/to	Art. no.	P. Qty.
25.4 mm	22.23 mm	25.4/20 mm	22.23/20 mm	0668 000 001	1
25.4 mm		25.4/22.23 mm		0668 000 002	1

Speed Omni-Cut diamond cutting disc, construction site

Yellow for construction sites. For angle grinders. Enormously versatile and extremely fast. Specially developed for use in frequently changing materials. Also optimally suited for use by rescue services (fire departments, technical relief organisations etc.).



- Flexible and fast
- Cuts virtually all materials in a special vacuum process (BSL)
- Easy to use
- Considerably cooler cutting due to cooling openings located directly under the segment

Versatility (points system)	●●●●
Service life (points system)	●●○○
Cutting speed (point system)	●●●●
Cut quality (point system)	●●○○
Drill hole	22.23 mm
Segment height	6 mm
Segment connection	BSL
Max. circumferential speed	80 m/s



Diameter (Ø)	Segment thickness	Number of segments	Max. rotation speed	Art. no.	P. Qty.
115 mm	2.5 mm	8 PCS	13300 rpm	5526 860 115	1
125 mm	2.5 mm	10 PCS	12200 rpm	5526 860 125	1
230 mm	2.8 mm	16 PCS	6600 rpm	5526 860 230	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds

- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Speed Omni-Cut diamond cutting disc, construction site

For hand-held/floor saws. The enormously versatile and extremely fast diamond cutting disc for all construction trades. Specially developed for use in frequently changing materials. Also optimally suited for use by rescue services (fire departments, technical relief organisations etc.) for cutting through guard rails, rubber or glass.



- Flexible and fast
- Cuts virtually all materials in a special vacuum process (BSL)
- Easy to use
- Considerably cooler cutting due to cooling openings located directly under the segment



Versatility (points system)	●●●●
Service life (points system)	●●○○
Cutting speed (point system)	●●●●
Cut quality (point system)	●●○○
Segment height	6 mm
Segment thickness	3.1 mm
Segment connection	BSL
Max. circumferential speed	100 m/s

Diameter (Ø)	Drill hole	Number of segments	Max. rotation speed	Art. no.	P. Qty.
300 mm	20 mm	20 PCS	6400 rpm	5526 860 300	1
350 mm	20 mm	24 PCS	5400 rpm	5526 860 350	1
350 mm	25.4 mm	24 PCS	5400 rpm	5526 860 355	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)

Continuation **Speed Omni-Cut diamond cutting disc, construction site**

- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc, speed, tile

For tiles and comparable materials up to 20 mm thick, with closed edge for a quick and clean cut.

- The cooling function of the structured segment sides allows for closure of the compensation slots as a result of heat-induced expansion. This enables an edge with a closed cutting surface.
- The disc is also stabilised with systematic reinforcement around the flange.
- In comparison to conventional tile-cutting discs, the 10-mm-high segment guarantees a considerably longer service life.



Versatility (points system)	●●●○
Service life (points system)	●●●○
Cutting speed (point system)	●●●●
Cut quality (point system)	●●●○
Drill hole	22.23 mm
Segment height	10 mm
Segment thickness	1.4 mm
Segment connection	Sintered
Max. circumferential speed	80 m/s



Diameter (Ø)	Max. rotation speed	Art. no.	P. Qty.
115 mm	13300 rpm	5526 830 116	1
125 mm	12200 rpm	5526 830 126	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!

- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc, tile

Long-lasting, economical diamond cutting disc for tile layers, plumbing companies, stone cutters and similar trades

For material thickness up to approx. 20 mm.

High profitability

The WÜRTH tile disc is an optimal compromise of function and economical operation. A segment height of 7.5 mm ensures a good service life.

Optimized cutting quality

The closed edge and fine segment structure enable a clean cut.



Versatility (points system)	●○○○
Service life (points system)	●●○○
Cutting speed (point system)	●●●○
Cut quality (point system)	●●○○
Drill hole	22.23 mm
Segment height	7.5 mm
Segment thickness	1.6 mm
Segment connection	Sintered
Max. circumferential speed	80 m/s

Diameter (Ø)	Max. rotation speed	Art. no.	P. Qty.
115 mm	13300 rpm	5527 130 115	1
125 mm	12200 rpm	5527 130 125	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood

Continuation **Diamond cutting disc, tile**

- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc, speed, wet cutting for tiles

**Premium diamond cutting disc with very narrow cutting surface and closed edge for a fast and clean cut.
For material up to approx. 20 mm thick.**

- Extremely fine, precise cut
- Improved cutting characteristics
- Protects the bench saw motor
- Reduced steering forces
- Flexible use on machines with 25.4 and 30 mm mount



Versatility (points system)	●●●○
Service life (points system)	●●●○
Cutting speed (point system)	●●●●
Cut quality (point system)	●●●○
Drill hole	30 mm
Reducing-ring internal diameter	25.4 mm
Segment connection	Sintered
Max. circumferential speed	80 m/s

Diameter (Ø)	Segment height	Segment thickness	Max. rotation speed	Art. no.	P. Qty.
180 mm	9 mm	1.4 mm	8500 rpm	5526 870 183	1
200 mm	9 mm	1.4 mm	7650 rpm	5526 870 203	1
230 mm	9 mm	1.4 mm	6600 rpm	5526 870 233	1
250 mm	9 mm	1.4 mm	6150 rpm	5526 870 253	1
300 mm	9.5 mm	1.6 mm	5100 rpm	5526 870 303	1
350 mm	9.5 mm	2 mm	4400 rpm	5526 870 353	1

Diamond disc Cut & Grind, M14

Diamond disc with M14 direct mounting for cutting and grinding (breaking sharp edges)

- M14 direct mounting
- Clean cuts thanks to closed cutting edge
- Ideal for stonemasons, gardeners and landscapers, floor tilers and construction-related industries



Versatility (points system)	●●●○
Service life (points system)	●●○○
Cutting speed (point system)	●●○○
Cut quality (point system)	●●●○
Tool holding device	M14
Segment height	7.5 mm
Design	Closed

Segment connection	Sintered
Max. circumferential speed	80 m/s
EN standard	13236

Diameter (Ø)	Segment thickness	Max. rotation speed	Art. no.	P. Qty.
125 mm	2.5 mm	12250 rpm	5527 963 125	1
230 mm	2.8 mm	6600 rpm	5527 963 230	1

- Diamond cutting discs become dull at excessively high speeds and wear too rapidly at insufficient circumferential speeds
- If the ease of cutting decreases (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts or using an appropriate whetstone
- Separate larger workpiece cross-sections in several sections (swing cut)
- Work without pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Although the tool is safe, always wear safety goggles and clothing while working
- Observe the information on the label (max. speed), restrictions of use and safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc, long-life, asphalt

Diamond cutting disc especially developed for road construction

Long life

Optimised service life with increased ease of cutting.

Particularly high segments: 15 mm

Special protective segments protect the main blade against undercut

Segment height	15 mm
Segment connection	Laser
Max. circumferential speed	100 m/s



Diameter (Ø)	Drill hole	Segment thickness	Number of segments	Max. rotation speed	Art. no.	P. Qty.
300 mm	20 mm	3 mm	18 PCS	6400 rpm	0666 750 300	1
300 mm	25.4 mm	3 mm	18 PCS	6400 rpm	0666 750 301	1
350 mm	20 mm	3.2 mm	21 PCS	5400 rpm	0666 750 350	1
350 mm	25.4 mm	3.2 mm	21 PCS	5400 rpm	0666 750 351	1
400 mm	25.4 mm	3.4 mm	24 PCS	4800 rpm	0666 750 401	1
450 mm	25.4 mm	3.6 mm	28 PCS	4200 rpm	0666 750 451	1
500 mm	25.4 mm	4 mm	30 PCS	3800 rpm	0666 750 501	1
600 mm	25.4 mm	4.5 mm	36 PCS	3200 rpm	0666 750 601	1

Continuation **Diamond cutting disc, long-life, asphalt**

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine’s direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc Construction site, segmented

Very versatile, long-lasting and cost-effective construction site disc, which is also suitable for use on wall slitting cutters.

- Long service life thanks to 10 mm segment height
- The fan segments provide better dissipation of heat and removal of dust in comparison with conventional segments



Versatility (points system)	●●●○
Service life (points system)	●●○○
Cutting speed (point system)	●●●○
Cut quality (point system)	●●○○
Drill hole	22.23 mm
Segment height	10 mm
Segment connection	Laser
Max. circumferential speed	80 m/s

Diameter (Ø)	Segment thickness	Number of segments	Max. rotation speed	Art. no.	P. Qty.
115 mm	2.2 mm	9 PCS	13300 rpm	5527 160 115	1
125 mm	2.2 mm	10 PCS	12250 rpm	5527 160 125	1
130 mm	2.2 mm	10 PCS	11800 rpm	5527 160 130	1
140 mm	2.2 mm	10 PCS	10900 rpm	5527 160 140	1
150 mm	2.4 mm	12 PCS	10200 rpm	5527 160 150	1
180 mm	2.4 mm	14 PCS	8500 rpm	5527 160 180	1
230 mm	2.4 mm	16 PCS	6600 rpm	5527 160 230	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts

- Separate larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear protective goggles and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc Basic construction site, segmented

Very good standard disc for use on construction sites with different materials

- Longer service life than many other standard discs thanks to 10 mm segment height



Versatility (points system)	●●○○
Service life (points system)	●●○○
Cutting speed (point system)	●●○○
Cut quality (point system)	●○○○
Drill hole	22.23 mm
Segment height	10 mm
Segment connection	Laser
Max. circumferential speed	80 m/s

Diameter (Ø)	Segment thickness	Number of segments	Max. rotation speed	Art. no.	P. Qty.
125 mm	2.2 mm	10 PCS	12250 rpm	5527 260 125	6
230 mm	2.4 mm	16 PCS	6600 rpm	5527 260 230	6

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Separate larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear protective goggles and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood

Continuation **Diamond cutting disc Basic construction site, segmented**

- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc Construction site, closed

Highly versatile, long-lasting and cost-effective construction site disc

- Long service life thanks to 10 mm segment height
- Closed cutting edge for clean cut



Versatility (points system)	●●●○
Service life (points system)	●●○○
Cutting speed (point system)	●●○○
Cut quality (point system)	●●●○
Drill hole	22.23 mm
Segment height	10 mm
Segment connection	Sintered
Max. circumferential speed	80 m/s

Diameter (Ø)	Segment thickness	Max. rotation speed	Art. no.	P. Qty.
115 mm	2 mm	13300 rpm	5527 165 115	1
125 mm	2 mm	12250 rpm	5527 165 125	1
180 mm	2.5 mm	8500 rpm	5527 165 180	1
230 mm	2.5 mm	6600 rpm	5527 165 230	1

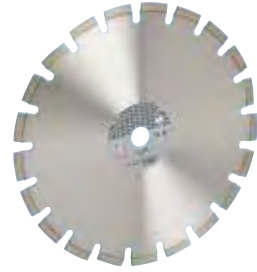
- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Separate larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear protective goggles and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc for asphalt

Diamond cutting disc developed for road construction

- Special protective segments protect the main blade against undercut

Segment height	10 mm
Segment connection	Laser
Max. circumferential speed	100 m/s



Diameter (Ø)	Drill hole	Segment thickness	Number of segments	Max. rotation speed	Art. no.	P. Qty.
300 mm	20 mm	3 mm	18 PCS	6400 rpm	0668 751 300	1
300 mm	25.4 mm	3 mm	18 PCS	6400 rpm	0668 751 301	1
350 mm	20 mm	3.2 mm	21 PCS	5400 rpm	0668 751 350	1
350 mm	25.4 mm	3.2 mm	21 PCS	5400 rpm	0668 751 351	1
400 mm	25.4 mm	3.4 mm	24 PCS	4800 rpm	0668 751 401	1
450 mm	25.4 mm	3.6 mm	28 PCS	4200 rpm	0668 751 451	1
500 mm	25.4 mm	4 mm	30 PCS	3800 rpm	0668 751 501	1
600 mm	25.4 mm	4.5 mm	36 PCS	3200 rpm	0668 751 601	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc, long-life, construction sites

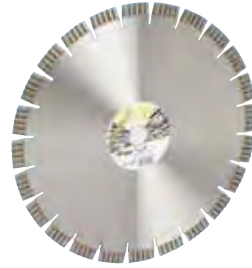
Diamond cutting disc especially developed for use at construction sites, especially in concrete, reinforced concrete, clinker, brick, exposed aggregate concrete etc.

Long life

Optimised service life paired with outstanding ease of cutting

Particularly high segments: 15 mm

Fan segments for better dissipation of heat and removal of dust in comparison with conventional segments



Segment height	15 mm
Segment connection	Laser
Max. circumferential speed	100 m/s

Diameter (Ø)	Drill hole	Segment thickness	Number of segments	Max. rotation speed	Art. no.	P. Qty.
300 mm	20 mm	3 mm	20 PCS	6400 rpm	0666 771 300	1
300 mm	25.4 mm	3 mm	20 PCS	6400 rpm	0666 771 301	1
350 mm	20 mm	3.2 mm	24 PCS	5400 rpm	0666 771 350	1
350 mm	25.4 mm	3.2 mm	24 PCS	5400 rpm	0666 771 351	1
400 mm	25.4 mm	3.5 mm	28 PCS	4800 rpm	0666 771 401	1
450 mm	25.4 mm	3.5 mm	32 PCS	4200 rpm	0666 771 451	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury



Diamond cutting disc Construction site Longlife & Speed RS

Premium diamond cutting disc specially developed for all construction trades with enormous versatility, extremely high service life and maximum cutting speed. The perfect disc for all angle grinders, wall slitting cutters, hand-held and floor saws.

- Special segment shape and innovative segment technology
- Long service life thanks to up to 15-mm-high segments, optimised dust removal and cooling
- Innovative slot geometry reduces uncontrolled vibrations and unpleasant running noises

Versatility (points system)	●●●●
Service life (points system)	●●●●
Cutting speed (point system)	●●●●
Cut quality (point system)	●●●○
Diameter (Ø)	300 mm
Drill hole	20 mm
Segment height	15 mm
Segment thickness	2.8 mm
Number of segments	19 PCS
Segment connection	Laser
Max. rotation speed	6400 rpm
Max. circumferential speed	100 m/s



Art. no. 5526 661 300

P. Qty.: 1

Diamond cutting disc Construction site Longlife & Speed RS Plus

Premium diamond cutting disc specially developed for all construction trades with enormous versatility, extremely high service life and cut quality, maximum cutting speed. The perfect disc for all angle grinders and wall slitting cutters.



- Special wavy, ribbed segment shape and innovative optimised segment technology for a definite increase in cutting speed and cut quality
- Differently sized layers are matched perfectly to one another, diamonds on alternate sides
- Long service life due to segments up to 15 mm high, optimised dust removal and cooling



Versatility (points system)	●●●●
Service life (points system)	●●●●
Cutting speed (point system)	●●●●
Cut quality (point system)	●●●●
Segment connection	Laser

Diameter (Ø)	Drill hole	Segment height	Segment thickness	Number of segments	Art. no.	P. Qty.
115 mm	22.23 mm	12 mm	2.2 mm	8 PCS	5526 664 115	1
125 mm	22.23 mm	12 mm	2.2 mm	9 PCS	5526 664 125	1/6
140 mm	22.23 mm	12 mm	2.2 mm	10 PCS	5526 664 140	1
150 mm	22.23 mm	12 mm	2.2 mm	11 PCS	5526 664 150	1
180 mm	22.23 mm	15 mm	2.4 mm	13 PCS	5526 664 180	1
230 mm	22.23 mm	15 mm	2.4 mm	15 PCS	5526 664 230	1/6
300 mm	20 mm	15 mm	2.8 mm	19 PCS	5526 664 300	1
350 mm	20 mm	15 mm	3 mm	23 PCS	5526 664 350	1
350 mm	25.4 mm	15 mm	3 mm	23 PCS	5526 664 355	1

- Diamond cutting discs become dull at excessively high speeds and wear too rapidly at insufficient circumferential speeds
- If the ease of cutting decreases (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Separate larger workpiece cross-sections in several sections (swing cut)
- Work without pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Although the tool is safe, always wear safety goggles and clothing while working
- Observe the information on the label (max. speed), restrictions of use and safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond mortar raking blade Combined Longlife & Speed RS Plus

For fast cutting and simultaneous milling of cable ducts with wall slitting cutters with at least 1800 W. The laborious and time-consuming removal of the centre bar is no longer necessary.

- Up to 50% time savings through cutting and milling in one operation
- Reduced dust and dirt
- Width 19 mm for 20 mm conduits and width 24 mm for 25 mm conduits



Versatility (points system)	●●●●
Service life (points system)	●●●●
Cutting speed (point system)	●●●●
Cut quality (point system)	●●●○
Diameter (Ø)	125 mm
Drill hole	22.23 mm
Segment height	12 mm
Segment thickness	2.2 mm
Segment connection	Laser
Max. rotation speed	12250 rpm
Max. circumferential speed	80 m/s

Cutting width	Number of segments	Art. no.	P. Qty.
19 mm	27 PCS	5526 961 129	1
24 mm	36 PCS	5526 961 126	1

- Diamond cutting discs become dull at excessively high speeds and wear too rapidly at insufficient circumferential speeds
- If the ease of cutting decreases (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Separate larger workpiece cross-sections in several sections (swing cut)
- Work without pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Although the tool is safe, always wear safety goggles and clothing while working
- Observe the information on the label (max. speed), restrictions of use and safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond mortar raking blade Combined

For fast cutting and simultaneous milling of cable ducts with wall slitting cutters with at least 1800 W. The laborious and time-consuming removal of the centre bar is no longer necessary.



- Special protective segments to protect against undercut
- Reduction of dust and dirt
- Ideal for 20 or 25 mm empty tubes

Versatility (points system)	●●●○
Service life (points system)	●●○○
Cutting speed (point system)	●●●○
Cut quality (point system)	●●○○
Diameter (Ø)	125 mm
Drill hole	22.23 mm
Segment height	10 mm
Segment thickness	2.2 mm
Segment connection	Laser
Max. rotation speed	12250 rpm
Max. circumferential speed	80 m/s

Cutting width	Number of segments	Art. no.	P. Qty.
19 mm	26 PCS	5527 961 129	1
24 mm	36 PCS	5527 961 126	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient circumferential speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Separate larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped wrongly or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc, curved cut

Diamond cutting disc with curved carrier for curved cuts

- Special T-segment to protect the carrier
- Optimised binding matrix for clean and fast cutting
- Ideal for machining granite, natural and artificial stone



Versatility (points system)	●●○○
Service life (points system)	●●○○
Cutting speed (point system)	●●●○
Cut quality (point system)	●●●○
Diameter (Ø)	125 mm
Drill hole	22.23 mm
Segment height	6.5 mm
Segment thickness	3.8 mm
Number of segments	10 PCS
Segment connection	Sintered
Max. rotation speed	12250 rpm
Max. circumferential speed	80 m/s

Art. no. 5527 964 125

P. Qty.: 1

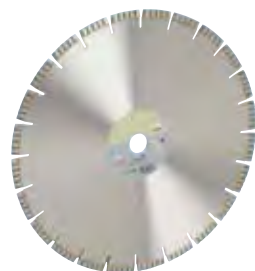
- Diamond cutting discs become dull at excessively high speeds and wear too rapidly at insufficient circumferential speeds
- If the ease of cutting decreases (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts or using an appropriate whetstone
- Separate larger workpiece cross-sections in several sections (swing cut)
- Work without pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Although the tool is safe, always wear safety goggles and clothing while working
- Observe the information on the label (max. speed), restrictions of use and safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc for construction sites

Construction site disc for universal use in concrete, reinforced concrete, clinker, brick etc.

- Fan segments for better dissipation of heat and removal of dust in comparison with conventional segments

Segment height	10 mm
Segment connection	Laser
Max. circumferential speed	100 m/s



Continuation **Diamond cutting disc for construction sites**

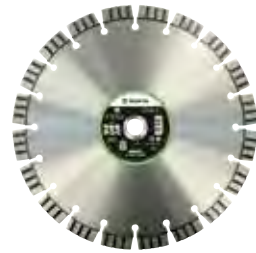
Diameter (Ø)	Drill hole	Segment thickness	Number of segments	Max. rotation speed	Art. no.	P. Qty.
300 mm	20 mm	3 mm	20 PCS	6400 rpm	0668 771 300	1
300 mm	25.4 mm	3 mm	20 PCS	6400 rpm	0668 771 301	1
350 mm	20 mm	3.2 mm	24 PCS	5400 rpm	0668 771 350	1
350 mm	25.4 mm	3.2 mm	24 PCS	5400 rpm	0668 771 351	1
400 mm	25.4 mm	3.5 mm	28 PCS	4800 rpm	0668 771 401	1
450 mm	25.4 mm	3.5 mm	32 PCS	4200 rpm	0668 771 451	1
500 mm	25.4 mm	4 mm	36 PCS	3800 rpm	0668 771 501	1
600 mm	25.4 mm	4.5 mm	42 PCS	3200 rpm	0668 771 601	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Long-life diamond cutting disc for horticulture and landscaping

For hand-held/floor saws. Diamond cutting disc especially developed for use in gardening and landscaping, especially in concrete, reinforced concrete, granite, clinker brick, brick, natural stone, exposed aggregate concrete etc.

- Particularly high segments: 15 mm
- Fan segments for better dissipation of heat and removal of dust in comparison with conventional segments



Segment height	15 mm
Segment connection	Laser
Max. circumferential speed	100 m/s



Diameter (Ø)	Drill hole	Segment thickness	Number of segments	Max. rotation speed	Art. no.	P. Qty.
300 mm	20 mm	3 mm	20 PCS	6400 rpm	0666 723 300	1
300 mm	25.4 mm	3 mm	20 PCS	6400 rpm	0666 723 301	1
350 mm	20 mm	3.2 mm	24 PCS	5400 rpm	0666 723 350	1
350 mm	25.4 mm	3.2 mm	24 PCS	5400 rpm	0666 723 351	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Long-life diamond cutting disc for horticulture and landscaping

For stationary saws/bench saws. Diamond cutting disc especially developed for use in gardening and landscaping, especially in concrete, reinforced concrete, granite, clinker brick, brick, natural stone, exposed aggregate concrete etc.

- Particularly high segments: 15 mm
- Fan segments for better dissipation of heat and removal of dust in comparison with conventional segments
- Design 30/25.4 with additional sandwich carrier (with integrated copper foil) for a reduction in noise of up to 15 dB (subjective perception of the user: half of the noise level)



Drill hole	30 mm
Reducing-ring internal diameter	25.4 mm
Segment height	15 mm
Segment connection	Laser
Max. circumferential speed	100 m/s

Diameter (Ø)	Segment thickness	Number of segments	Max. rotation speed	Art. no.	P. Qty.
300 mm	3 mm	20 PCS	6400 rpm	0666 723 303	1
350 mm	3.2 mm	24 PCS	5400 rpm	0666 723 353	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds

Continuation **Long-life diamond cutting disc for horticulture and landscaping**

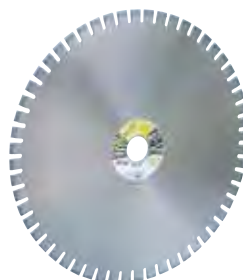
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc, long-life, construction materials, abrasive

For wet cutting.

Universal mounting system with 4 driving holes

Segment height	10 mm
Segment thickness	4.5 mm
Segment connection	Soldered
Max. circumferential speed	100 m/s



Diameter (Ø)	Drill hole	Reducing-ring internal diameter	Number of segments	Max. rotation speed	Art. no.	P. Qty.
600 mm	60 mm	55 mm	56 PCS	3200 rpm	0666 790 600	1
625 mm	60 mm	55 mm	60 PCS	3100 rpm	0666 790 625	1
860 mm	40 mm		64 PCS	2300 rpm	0666 790 860	1
900 mm	60 mm	55 mm	56 PCS	2100 rpm	0666 790 900	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation

- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond milling disc, long-life, for construction sites

The specialised disc for removing old mortar from joints during renovation work (e.g. clinker facades) and for milling joints/slots, for tile and floor layers, facade renovators, electricians, plumbing companies and similar trades. Also used for the installation of thin installation cables and similar jobs.



- Very efficient
- For a precise fit with four different segment thicknesses (4.5-10 mm)
- Extended service life
- Optimised stability when milling



Versatility (points system)	●●●○
Service life (points system)	●●●●
Cutting speed (point system)	●●○○
Cut quality (point system)	●○○○
Drill hole	22.23 mm
Segment height	9 mm
Segment connection	Laser
Max. circumferential speed	80 m/s

Diameter (Ø)	Segment thickness	Number of segments	Max. rotation speed	Art. no.	P. Qty.
115 mm	8 mm	9 PCS	13300 rpm	5526 960 118	1
115 mm	10 mm	9 PCS	13300 rpm	5526 960 110	1
125 mm	6 mm	10 PCS	12200 rpm	5526 960 126	1
125 mm	8 mm	10 PCS	12200 rpm	5526 960 128	1
125 mm	10 mm	10 PCS	12200 rpm	5526 960 120	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood

Continuation **Diamond milling disc, long-life, for construction sites**

- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Diamond cutting disc, joint cutter

For releasing and removing fitted construction elements such as windows and doors

Segment thickness	1.9 mm
Max. circumferential speed	80 m/s



Diameter (Ø)	Drill hole	Segment height	Number of segments	Segment connection	Art. no.	P. Qty.
150 mm	25.4 mm	8 mm	12 PCS	Laser	0666 100 150	1
180 mm	22.23 mm	9 mm	10 PCS	HPS	0666 100 180	1

- Diamond cutting discs become blunt at excessively high rotation speeds and wear too rapidly at insufficient peripheral surface speeds
- If ease of cutting is lost (indicated by heavy sparking), sharpen the disc in abrasive material, e.g. sandstone, with several cuts
- Cut larger workpiece cross-sections into several sections (swing cut)
- Work without applying pressure – the weight of the machine is sufficient. Increased pressure causes increased wear.
- Diamond cutting discs are designed for straight cutting. Cutting curves deforms the blade and results in core cracks and segment tear-offs – risk of injury!
- Despite the level of safety offered by the tool, always wear safety glasses and clothing while working
- Observe the information on the label (max. rotation speed), the restrictions of use and the safety instructions
- The direction arrow on the disc must match the machine's direction of rotation
- Must not be used for lateral grinding
- Use the appropriate protective hood
- Clamping must be performed only by a trained specialist (do not use force, use clean clamping flanges of the same size, perform a test run)
- If grinding tools are clamped or used incorrectly or are damaged, they represent a danger and may cause serious injury

Long-life & Speed diamond cup wheel for hard material

Very versatile premium cup wheel with extremely high removal rate, very long service life. For a very good surface result, thanks to new „Duo Bond“ shaft segment.

- Significantly quicker, more efficient working
- Optimal dust extraction
- Grinds nearly all concrete and stone materials



Versatility (points system)	●●●○
Service life (points system)	●●●●
Removal speed (points system)	●●●●
Surface quality/finish (points system)	●●●○
Problem solver (points system)	●●●○
Segment height	5.5 mm
Drill hole	22.23 mm
Max. circumferential speed	80 m/s



Diameter (Ø)	Max. rotation speed	Art. no.	P. Qty.
125 mm	12250 rpm	0666 501 125	1
180 mm	8500 rpm	0666 501 180	1

Diamond Cup Wheel for Hard Material

Very versatile, economical cup wheel with good removal speed, good service life and a good surface result.

- Very high removal speed and an optimal surface result thanks to enhancement of the proven T-segment developed for cup wheels
- Very good dust extraction thanks to a combination of special open carrier and T-segment
- Grinds nearly all concrete and stone materials



Versatility (points system)	●●●○
Service life (points system)	●●○
Removal speed (points system)	●●○
Surface quality/finish (points system)	●●○
Problem solver (points system)	●●○
Diameter (Ø)	125 mm
Segment height	5.5 mm
Drill hole	22.23 mm
Max. rotation speed	12250 rpm
Max. circumferential speed	80 m/s

Art. no. 0668 501 125

P. Qty.: 1

Longlife & Speed abrasive diamond cup wheel

Premium cup wheel with very high removal speed and very long service life, particularly for abrasive materials.

- Special shaft segment („special binding“) with optimised service life specially developed for abrasive materials.
- Optimal dust extraction thanks to the combination of a special carrier with very large openings and shaft segment.



Versatility (points system)	●●○○
Service life (points system)	●●●●
Removal speed (points system)	●●●○
Surface quality/finish (points system)	●●○○
Problem solver (points system)	●●●●
Diameter (Ø)	125 mm
Segment height	5.5 mm
Drill hole	22.23 mm
Max. rotation speed	12250 rpm
Max. circumferential speed	80 m/s

Art. no. 0666 511 125

P. Qty.: 1

Diamond Cup Wheel, Abrasive

Economical cup wheel with good removal speed and good service life.

- High removal speed and an optimal surface result thanks to enhancement of the proven T-segment developed for cup wheels
- Very good dust extraction thanks to a combination of special open carrier and T-segment
- Grinds nearly all abrasive types of concrete, sand-lime brick and other abrasive materials



Versatility (points system)	●●○○
Service life (points system)	●●○○
Removal speed (points system)	●●○○
Surface quality/finish (points system)	●●○○
Problem solver (points system)	●●●○
Diameter (Ø)	125 mm
Segment height	5.5 mm
Drill hole	22.23 mm
Max. rotation speed	12250 rpm
Max. circumferential speed	80 m/s

Art. no. 0668 511 125

P. Qty.: 1

Diamond cup wheel Long-life & Speed Turbo

Extremely versatile premium cup wheel with long service life, particularly for finishing work

- Very large grinding-active contact surface due to special segment shape, number and arrangement
- Optimal dust extraction thanks to combination of a special carrier and multiple openings between the segments.



Versatility (points system)	●●●●
Service life (points system)	●●●○
Removal speed (points system)	●●●○
Surface quality/finish (points system)	●●●●
Problem solver (points system)	●●○○
Diameter (Ø)	125 mm
Segment height	6 mm
Drill hole	22.23 mm
Max. rotation speed	12250 rpm
Max. circumferential speed	80 m/s

Art. no. 0666 521 125

P. Qty.: 1

Turbo diamond cup wheel

Very versatile, economical cup wheel with good service life, particularly for finishing work.

- Long service life and improved surface result thanks to enhancement of the classic closed sanding edge
- Good extraction thanks to large openings in the carrier
- Grinds nearly all common materials



Versatility (points system)	●●●●
Service life (points system)	●●○○
Removal speed (points system)	●●○○
Surface quality/finish (points system)	●●●○
Problem solver (points system)	●○○○
Diameter (Ø)	125 mm
Segment height	5.5 mm
Drill hole	22.23 mm
Max. rotation speed	12250 rpm
Max. circumferential speed	80 m/s

Art. no. 0668 521 125

P. Qty.: 1

Diamond Cup Wheel Long-life & Speed PKD

Problem solver for optimal removal of epoxy resin adhesive residues and all common carpet adhesives, for example

- Low-vibration working and efficient removal of adhesive residues without clogging thanks to special PKD and support segments arranged in two rows.
- Optimal dust extraction thanks to special carrier with very large openings.



Versatility (points system)	●○○○
Service life (points system)	●●●●
Removal speed (points system)	●●●●
Surface quality/finish (points system)	●●○○
Problem solver (points system)	●●●●
Diameter (Ø)	125 mm
Drill hole	22.23 mm
Max. rotation speed	12250 rpm
Max. circumferential speed	80 m/s



Art. no. 0666 561 125

P. Qty.: 1

Adapter M14/22.23

With internal M14 thread for direct clamping of diamond cup wheels with a 22.23 mm bore to the machine spindle.

Art. no. 0668 590 001

P. Qty.: 1





Bi-metal saw blade HSS

No saw blade offers more cutting performance and flexibility.

- Specialist steels: High-alloyed, high-speed steel on tooth edge, tough tool steel on back.
- Tooth edges of fully hardened material make for unbeatable cutting performance and service life.
- Work faster, longer and more economically with only one saw blade.

Normal tooththing

- More profitability
- More safety
- High cutting performance
- Prolonged service life

Progressive tooththing

- Universally used
- High tooth pitch in the initial cut area for easy initial cuts. Fluttering of thin materials is considerably reduced.
- Low tooth pitch in remaining cutting area for high cutting performance.

Max. material thickness	2 mm
Length (L)	300 mm



Continuation **Bi-metal saw blade HSS**

Teeth per unit of length	Min./max. teeth per unit of length	Width (B)	Thickness (H)	Art. no.	P. Qty.
	18-32 PCS/Inch	13 mm	0.65 mm	0603 301 13	10/50
24 PCS/Inch		12.5 mm	0.63 mm	0603 300 13	10/50/100
32 PCS/Inch		12.5 mm	0.63 mm	0603 300 133	10/50/100

Hand saw blade

Double-sided saw blade made of high-speed steel

- Long service life even with hard, high-alloyed and stainless steel



Teeth per unit of length	22 PCS/Inch
Length (L)	300 mm
Width (B)	25 mm
Thickness (H)	0.8 mm



Art. no. 0603 300 25

P. Qty.: 10/50

Band saw blade

Specially designed for construction steel

- Milled bimetal blade (M42)
- Innovative tooth design for a long service life, precise cuts and a smooth surface.



Length x height x thickness	Teeth type	Art. no.	P. Qty.
2750 x 27 x 0.9 mm	L	0602 502 753	5
2750 x 27 x 0.9 mm	M	0602 502 752	5
2950 x 27 x 0.9 mm	M	0602 502 952	5
3660 x 27 x 0.9 mm	L	0602 503 663	5
3660 x 27 x 0.9 mm	M	0602 503 662	5

Bandsaw blade structural steel individual

The bandsaw blade is available in a range of lengths and heights, individually adapted to your requirements. Simply ask your Würth sales representative.

- Milled bimetal blade (M42)
- Innovative tooth design for a long service life, precise cuts and a smooth surface.
- See also order information for drop shipment items



Min./max. length x height x thickness	Teeth type	Art. no.	P. Qty.
2400-2599 x 27 x 0.9 mm	L	0602 520 073	5
2400-2599 x 27 x 0.9 mm	M	0602 520 072	5
2600-2799 x 27 x 0.9 mm	L	0602 520 083	5
2600-2799 x 27 x 0.9 mm	M	0602 520 082	5
2800-2999 x 27 x 0.9 mm	L	0602 520 093	5
2800-2999 x 27 x 0.9 mm	M	0602 520 092	5
3000-3199 x 27 x 0.9 mm	L	0602 520 103	5
3000-3199 x 27 x 0.9 mm	M	0602 520 102	5
3200-3399 x 27 x 0.9 mm	L	0602 520 113	5
3200-3399 x 27 x 0.9 mm	M	0602 520 112	5
3400-3599 x 27 x 0.9 mm	L	0602 520 123	5
3400-3599 x 27 x 0.9 mm	M	0602 520 122	5
3600-3799 x 27 x 0.9 mm	L	0602 520 133	5
3600-3799 x 27 x 0.9 mm	M	0602 520 132	5
3800-3999 x 27 x 0.9 mm	L	0602 520 143	5
3800-3999 x 27 x 0.9 mm	M	0602 520 142	5
4000-4199 x 27 x 0.9 mm	L	0602 520 153	5
4000-4199 x 27 x 0.9 mm	M	0602 520 152	5
4200-4399 x 27 x 0.9 mm	L	0602 520 163	5
4200-4399 x 27 x 0.9 mm	M	0602 520 162	5
4400-4599 x 27 x 0.9 mm	L	0602 520 173	5
4400-4599 x 27 x 0.9 mm	M	0602 520 172	5
4600-4799 x 27 x 0.9 mm	L	0602 520 183	5
4600-4799 x 27 x 0.9 mm	M	0602 520 182	5
4800-4999 x 27 x 0.9 mm	L	0602 520 193	5
4800-4999 x 27 x 0.9 mm	M	0602 520 192	5

- 24-hour service is not available for these items.
- These items are excluded from exchange and return.
- These items are manufactured individually to the customer's specifications.

Multi-use bandsaw blade

The multi-purpose bandsaw blade is available in a range of lengths and heights, individually adapted to your requirements. Simply ask your Würth sales representative.



- Bi-metal (carrier made of spring steel, teeth made of cobalt steel M42)
- New unique, patented tooth shape made from M42 bi-metal (WO 02/42029 A1)
- Strengthened tooth backs

Min./max. length x height x thickness	Teeth type	Art. no.	P. Qty.
1000-1199 x 13 x 0.6 mm	S	0602 400 001	5
1200-1399 x 13 x 0.6 mm	M	0602 400 012	5
1400-1599 x 13 x 0.6 mm	M	0602 400 022	5
1600-1799 x 13 x 0.6 mm	M	0602 400 032	5
1800-1999 x 13 x 0.6 mm	M	0602 400 042	5
2000-2199 x 13 x 0.6 mm	M	0602 400 052	5
2200-2399 x 13 x 0.6 mm	M	0602 400 062	5
2400-2599 x 13 x 0.6 mm	M	0602 400 072	5
2600-2799 x 13 x 0.6 mm	M	0602 400 082	5

Continuation **Multi-use bandsaw blade**

Min./max. length x height x thickness	Teeth type	Art. no.	P. Qty.
2800-2999 x 13 x 0.6 mm	M	0602 400 092	5
3000-3199 x 13 x 0.6 mm	M	0602 400 102	5
3200-3399 x 13 x 0.6 mm	M	0602 400 112	5
3400-3599 x 13 x 0.6 mm	M	0602 400 122	5
3600-3799 x 13 x 0.6 mm	M	0602 400 133	5
3800-3999 x 13 x 0.6 mm	M	0602 400 143	5
1000-1199 x 20 x 0.9 mm	S	0602 410 001	5
1200-1399 x 20 x 0.9 mm	M	0602 410 012	5
1400-1599 x 20 x 0.9 mm	M	0602 410 022	5
1600-1799 x 20 x 0.9 mm	M	0602 410 032	5
1800-1999 x 20 x 0.9 mm	M	0602 410 042	5
2000-2199 x 20 x 0.9 mm	M	0602 410 052	5
2200-2399 x 20 x 0.9 mm	M	0602 410 062	5
2400-2599 x 20 x 0.9 mm	M	0602 410 072	5
2600-2799 x 20 x 0.9 mm	M	0602 410 082	5
2800-2999 x 20 x 0.9 mm	M	0602 410 092	5
3000-3199 x 20 x 0.9 mm	M	0602 410 102	5
3200-3399 x 20 x 0.9 mm	M	0602 410 112	5
3400-3599 x 20 x 0.9 mm	M	0602 410 122	5
3600-3799 x 20 x 0.9 mm	L	0602 410 133	5
3800-3999 x 20 x 0.9 mm	L	0602 410 143	5
2000-2199 x 27 x 0.9 mm	M	0602 420 052	5
2200-2399 x 27 x 0.9 mm	M	0602 420 062	5
2400-2599 x 27 x 0.9 mm	M	0602 420 072	5
2600-2799 x 27 x 0.9 mm	M	0602 420 082	5
2800-2999 x 27 x 0.9 mm	M	0602 420 092	5
3000-3199 x 27 x 0.9 mm	M	0602 420 102	5
3200-3399 x 27 x 0.9 mm	M	0602 420 112	5
3400-3599 x 27 x 0.9 mm	M	0602 420 122	5
3600-3799 x 27 x 0.9 mm	M	0602 420 132	5
3800-3999 x 27 x 0.9 mm	L	0602 420 143	5
4000-4199 x 27 x 0.9 mm	L	0602 420 153	5
4200-4399 x 27 x 0.9 mm	L	0602 420 163	5
4400-4599 x 27 x 0.9 mm	L	0602 420 173	5
4600-4799 x 27 x 0.9 mm	L	0602 420 183	5
4800-4999 x 27 x 0.9 mm	L	0602 420 193	5
2000-2199 x 34 x 1.1 mm	M	0602 430 052	3
2200-2399 x 34 x 1.1 mm	M	0602 430 062	3
2400-2599 x 34 x 1.1 mm	M	0602 430 072	3
2600-2799 x 34 x 1.1 mm	M	0602 430 082	3
2800-2999 x 34 x 1.1 mm	M	0602 430 092	3
3000-3199 x 34 x 1.1 mm	M	0602 430 102	3
3200-3399 x 34 x 1.1 mm	M	0602 430 112	3
3400-3599 x 34 x 1.1 mm	M	0602 430 122	3
3600-3799 x 34 x 1.1 mm	M	0602 430 132	3
3800-3999 x 34 x 1.1 mm	M	0602 430 143	3
4000-4199 x 34 x 1.1 mm	M	0602 430 153	3
4200-4399 x 34 x 1.1 mm	L	0602 430 163	3
4400-4599 x 34 x 1.1 mm	L	0602 430 173	3
4600-4799 x 34 x 1.1 mm	L	0602 430 183	3
4800-4999 x 34 x 1.1 mm	L	0602 430 193	3

The M42 tooth tips are highly heat resistant and very powerful, regardless of the coolant used.

The ZEBRA multi-use bandsaw blade is an aggressive tool and has a high penetration capacity; for this reason, the user must observe the following points:

- Tension the saw blade well to prevent oscillation at the teeth.
- Carefully guide the saw blade to the material to be cut.
- Apply moderate pressure (approx. 30–40% less than with conventional saw blades), especially when cutting profiles.

24-hour service is not available for these items. These items are excluded from exchange and return. Each order is manufactured individually to the customer's specifications.

Machine saw blade

HSS

- For hacksaws
- Particularly suitable for sawing stainless steel and other materials that are difficult to saw



Length (L)	Width (B)	Thickness (H)	Teeth per unit of length	Art. no.	P. Qty.
300 mm	20 mm	1.25 mm	14 PCS/Inch	0606 300 125	1/10
300 mm	20 mm	1.25 mm	18 PCS/Inch	0606 300 128	1/10
300 mm	25 mm	1.5 mm	10 PCS/Inch	0606 300 210	1
300 mm	25 mm	1.5 mm	14 PCS/Inch	0606 300 214	1/10
400 mm	25 mm	1.25 mm	10 PCS/Inch	0606 400 210	1
400 mm	25 mm	1.25 mm	14 PCS/Inch	0606 400 125	1
400 mm	25 mm	1.25 mm	22 PCS/Inch	0606 400 222	1
400 mm	25 mm	1.5 mm	6 PCS/Inch	0606 400 206	1
400 mm	25 mm	1.5 mm	10 PCS/Inch	0606 400 214	1
400 mm	25 mm	1.5 mm	14 PCS/Inch	0606 400 215	1/10
400 mm	25 mm	1.5 mm	18 PCS/Inch	0606 400 216	1
400 mm	25 mm	1.5 mm	22 PCS/Inch	0606 400 217	1
400 mm	30 mm	1.5 mm	10 PCS/Inch	0606 400 310	1/10
400 mm	30 mm	1.5 mm	14 PCS/Inch	0606 400 15	1/10
400 mm	30 mm	1.5 mm	18 PCS/Inch	0606 400 318	1/10
400 mm	30 mm	1.5 mm	22 PCS/Inch	0606 400 322	1/10
400 mm	30 mm	2 mm	10 PCS/Inch	0606 400 410	1/10
400 mm	30 mm	2 mm	14 PCS/Inch	0606 400 414	1/10
425 mm	30 mm	2 mm	6 PCS/Inch	0606 425 20	1/10
450 mm	25 mm	2 mm	8 PCS/Inch	0606 450 20	1/10

Machine saw blade

HSS bi-metal

- For hacksaws
- Particularly suitable for sawing stainless steel and other materials that are difficult to saw



Length (L)	Width (B)	Thickness (H)	Teeth per unit of length	Art. no.	P. Qty.
300 mm	25 mm	1.25 mm	10 PCS/Inch	0607 300 110	1/10
300 mm	25 mm	1.25 mm	14 PCS/Inch	0607 300 114	1/10
350 mm	25 mm	1.25 mm	14 PCS/Inch	0607 350 114	1/10
350 mm	32 mm	1.6 mm	10 PCS/Inch	0607 350 110	1/10
400 mm	32 mm	1.6 mm	4 PCS/Inch	0607 400 104	1
400 mm	32 mm	1.6 mm	6 PCS/Inch	0607 400 106	1/10

Continuation **Machine saw blade**

Length (L)	Width (B)	Thickness (H)	Teeth per unit of length	Art. no.	P. Qty.
400 mm	32 mm	1.6 mm	10 PCS/Inch	0607 400 110	1/10
400 mm	32 mm	1.6 mm	14 PCS/Inch	0607 400 114	1/10
450 mm	32 mm	1.6 mm	6 PCS/Inch	0607 450 106	1/10
450 mm	32 mm	1.6 mm	10 PCS/Inch	0607 450 110	1/10

Bow saw

- Oval steel pipe, painted
- Clamping lever
- Includes raker tooth blade



Length (L)	Art. no.	P. Qty.
610 mm	0609 310	1
760 mm	0609 311	1

Bow saw blade with raker tothing

- Punched, straight-set, sharpened
- Hardened tooth tips



Length (L)	Art. no.	P. Qty.
610 mm	0609 310 0	1
760 mm	0609 311 0	1

Insulation saw

High-quality insulation saw with 2-component cork handle and special teeth for the precise sawing of insulation materials.

- Two-component cork handle
- 45° and 90° marking angles integrated in handle
- Delivery incl. tooth protection



Sheet length	460 mm
Length	600 mm

Art. no. 5760 031 905

P. Qty.: 1/6

Cellular concrete saw

High-quality carbide-coated saw with 2-component cork handle

- 17 carbide-tipped teeth
- 2-component cork handle
- Marking area for 45° and 90° angles integrated in handle



Sheet length	700 mm
Length	800 mm

Art. no. 5760 031 900

P. Qty.: 1/6

Plasterboard saw

High-quality saw for clean cuts in plasterboard

Extremely clean cut, very long service life

Hardened teeth

Very easy to use

Beech wood handle



Sheet length	150 mm
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Art. no. 5760 041 005

P. Qty.: 1/12

Hand saw

High-quality hand saw

- Special steel saw
- Ground or sharpened, inductively hardened teeth
- Plastic handle for right and left-handed users
- Tooth guard



Teeth per unit of length	7 PCS/Inch
--------------------------	------------

Sheet length	Art. no.	P. Qty.
400 mm	5760 031 005	1/6
450 mm	5760 031 010	1/6
500 mm	5760 031 015	1/6
550 mm	5760 031 020	1/6

Hand saw, 1-C

High-quality hand saw with 1-component plastic handle for precision cuts in wood products.

The handle has integrated marking guides for 45° and 90° angles

Fast and easy marking off of lines and angles

Inductively hardened teeth

- Gives extremely clean cuts and has excellent durability
- Excellent chip removal while sawing (fast penetration depth)

Tooth guard included



Teeth per unit of length	7 PCS/Inch
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Sheet length	Length	Art. no.	P. Qty.
500 mm	580 mm	5760 031 036	1/6
550 mm	630 mm	5760 031 037	1

Hand saw, top

High-quality hand saw with 2-component cork handle for high-precision cuts in wood products

With a two-component cork handle

For comfort of use

The handle has integrated marking guides for 45° and 90° angles

Fast and easy marking off of lines and angles

Inductively hardened teeth

- Gives extremely clean cuts and has excellent durability
- Excellent chip removal while sawing (fast penetration depth)

Tooth guard included



Teeth per unit of length	7 PCS/Inch
--------------------------	------------

Sheet length	Length	Art. no.	P. Qty.
400 mm	495 mm	5760 031 030	1/6
450 mm	545 mm	5760 031 031	1/6
500 mm	595 mm	5760 031 032	1/6
550 mm	645 mm	5760 031 033	1/6

Hand saw, Premium

High-quality hand saw with 2-component cork handle and specially coated blade

- With a two-component cork handle
- Specially coated saw blade
- The handle has integrated marking guides for 45° and 90° angles
- Offers extremely clean cuts and very long service life
- Chip removal in both directions (fast penetration depth)
- Tooth guard included



Sheet length	Length	Teeth per unit of length	Art. no.	P. Qty.
400 mm	495 mm	11 PCS/cm	5760 031 040	1/6
500 mm	595 mm	7 PCS/cm	5760 031 041	1/6

Japanese hand saw 1C

Japanese saw with 1-component plastic pistol grip

Fine-toothed saw, without back

Pistol grip

Excellent guidance, comfortable action

Extremely flexible saw blade

For working in hard-to-reach places

Includes tooth guard



Length	445 mm
Sheet length	250 mm
Sheet width	59 mm
Blade thickness	0.6 mm
Teeth spacing	1.6 mm

Art. no. 5760 051 005

P. Qty.: 1/6

Japanese hand saw 2C

High-quality Japanese saw with 2-component pistol grip

- Fine-toothed saw, without back
- Two-component pistol grip
- Extremely flexible saw blade
- High-quality saw blade guard



Length	430 mm
Sheet length	250 mm
Sheet width	59 mm
Blade thickness	0.6 mm
Teeth spacing	1.6 mm

Art. no. 5760 051 001

P. Qty.: 1/6

Japanese hand saw Douzuki

Backsaw, very fine toothing

Extremely precise and clean cuts

This saw cuts only on the pull stroke. As a result, the saw blade can be considerably thinner and harder.

Long service life

Laser-hardened steel saw blades ground razor-sharp.



Length	540
Sheet length	240
Blade thickness	0.3 mm

Art. no. 0695 932 151

P. Qty.: 1

Japanese hand saw Kataba

Fine saw without backing rib

Extremely precise and clean cuts

This saw cuts only on the pull stroke. As a result, the saw blade can be considerably thinner and harder.

Long service life

Laser-hardened steel saw blades ground razor-sharp.



Working length	250 mm
Blade thickness	0.4 mm

Art. no. 0695 932 152

P. Qty.: 1

Japanese hand saw Ryoba

Combined saw with trapezoidal toothing for cross cuts and triangular toothing for longitudinal cuts

Extremely precise and clean cuts

This saw cuts only on the pull stroke. As a result, the saw blade can be considerably thinner and harder.

Long service life

Laser-hardened steel saw blades ground razor-sharp.



Working length	240 mm
Blade thickness	0.4 mm

Art. no. 0695 932 150

P. Qty.: 1

Folding saw

High-quality folding saw with Japanese tooothing

Three-way sharpened and impulse-hardened teeth

Extremely rapid cutting action and long service life

Non-slip, ergonomically designed handle

Excellent handling, comfortable action

Saw blade folds fully into handle

No risk of injuries

Two-way saw blade adjustment

Length	500 mm
Sheet length	240 mm
Blade thickness	0.8 mm

Art. no. 0695 932 149

P. Qty.: 1



Folding saw Douzuki

Japanese hand saw with high-quality plastic handle

Fine-toothed saw, with back

Folding saw blade

Saves space effectively and protects the tooothing

Inductively hardened teeth

Extremely sharp, high stability

Delivered in plastic case

Sheet length	240 mm
Length (opened out)	567 mm
Blade thickness	0.3 mm
Material of the grip handle	Plastic

Art. no. 5760 051 011

P. Qty.: 1/6



Folding saw Kataba

Japanese hand saw with high-quality plastic handle

Fine-toothed saw, without back

Folding saw blade

Saves space effectively and protects the tooothing

Inductively hardened tooothing

Extremely sharp, high stability

Extremely flexible saw blade

For working in hard-to-reach places

Delivered in plastic case

Sheet length	250 mm
Length (opened out)	580 mm



Continuation **Folding saw Kataba**

Blade thickness	0.5 mm
Material of the grip handle	Plastic

Art. no. 5760 051 008

P. Qty.: 1/6

Folding saw Ryoba

Japanese hand saw with high-quality plastic handle

Saw blade with dual toothing

- Japanese crosscut toothing (finely toothed)
- Rip cut toothing (crosscut/rip cut toothed)

Inductively hardened Japanese toothing

Extremely sharp, high stability

Folding saw blade

Saves space effectively and protects the toothing

Delivered in plastic case with rip cut tooth guard

Sheet length	240 mm
Length (opened out)	567 mm
Blade thickness	0.5 mm
Material of the grip handle	Plastic

Art. no. 5760 051 015

P. Qty.: 1/6



Small saw blade

Length (L)	145 mm
Width (B)	6 mm



Teeth per unit of length	Thickness (H)	Art. no.	P. Qty.
	0.4 mm	0609 3	12
32 PCS/Inch	0.45 mm	0609 2	12

Small saw bow

Length (L)	250 mm
Design	Nickel-plated round steel



Art. no. 0609 1

P. Qty.: 1

With universal small saw blade, 32 teeth per inch, 145 x 6 x 0.45 mm

Metal bow saw

Ergonomic, aluminium die cast metal bow saw

Extremely robust and highly scratch-resistant Prevents hand slipping from saw

Thanks to pistol grip and hand guide made from 2-component plastic

Two saw blade positions (45° and 90°)

Rapid blade tensioning and replacement

Sheet length	300 mm
Length (L)	400 mm
Height	135 mm

Art. no. 5760 071 001

P. Qty.: 1/5



Metal bow saw

Light and manageable metal bow saw with aluminium handle

- Very light, very robust and extremely scratch-resistant
- Pistol grip in powder-coated aluminium
- 6x adjustable saw blade positions
- Saw blade clamped with quick-action clamping system in handle

Sheet length	300 mm
Length (L)	400 mm
Height	140 mm

Art. no. 0714 64 02

P. Qty.: 1



Metal saw blade

Heavy-duty, flat steel saw bow with 2C plastic handle

- Power-coated, flat steel bow 18 x 8 mm
- Automatic saw blade tensioning by turning handle
- Universal use, easy blade replacement

Sheet length	300 mm
Length (L)	530 mm
Height	140 mm

Art. no. 0695 552 892

P. Qty.: 1



Mini universal saw

Can be used with metal and wood saw blade

- Particularly light and manageable thanks to aluminium frame
- 6-way secure blade adjustment



Length (L)	147 mm
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Art. no. 0714 64 03

P. Qty.: 1

Saw blade

For folding saw with Japanese tothing

Thickness	0.8 mm
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Art. no. 0695 932 154

P. Qty.: 1

Saw blade for Japanese hand saw

Ensures fatigue-free cutting without excessive force



Material	Thickness	Art. no.	P. Qty.
		0695 932 155	1
		0695 932 156	1
		0695 932 157	1
Steel	0.6 mm	5760 051 002	1

Saw blade for Kataba folding saw

Material	Steel
Thickness	0.5 mm



Art. no. 5760 051 009

P. Qty.: 1

Universal saw

For sawing in hard-to-reach places.

Handle adjustable by turning

Length (L)	250 mm
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Design	Art. no.	P. Qty.
Fixed handle	0609 11	1
Handle adjustable on all sides	0609 10	1

With universal small saw blade, 32 teeth per inch, 145 x 6 x 0.45 mm

Arbor A2

With centre drill

Suitable for hole-saw diameter	32 - 200 mm
Shaft diameter	11 mm
Drive type	Hexagon



Art. no. 0632 02

P. Qty.: 1

Adapter A4

With centre drill

- For 14–30 mm diameter
- Hexagonal shaft, 6.35 mm diameter

Suitable for hole-saw diameter	14 - 30 mm
Shaft diameter	6.35 mm
Drive type	Outer hexagon
Length	59 mm



Art. no. 0632 04 1

P. Qty.: 1

Construction site circular saw blade

For rough work on construction sites

- Flat tooth with alternating chamfer (FAC)
- For construction site circular saws (Avola, Atika, Scheppach, Elektra Beckum).
- Suitable for solid wood, light building materials, plywood with mortar, pallets and wood with firmly hammered-in nails.

Tooth shape	Flat tooth with alternating chamfer
Side holes	Combi (2/7/42 - 2/9/46 - 2/10/60)
Material to be processed	Wood with metal, Light building boards, Solid wood, Flat panels with woods, Flat panels with mortar, Flat panels with pallets



Diameter x saw cutting width/main blade thickness x drill hole	Number of teeth	Max. rotation speed	Art. no.	P. Qty.
400 x 4/2.8 x 30 mm	28 PCS	4800 rpm	0611 540 028	1
450 x 4/2.8 x 30 mm	32 PCS	4200 rpm	0611 545 032	1
500 x 4/2.8 x 30 mm	36 PCS	3800 rpm	0611 550 036	1

Auxiliary hole 2/7/42 for Striebig/Reich machines.

Auxiliary hole 2/9/46 for Felder and Italian machine manufacturers.

Auxiliary hole 2/10/60 for Martin, Kölle, Altendorf and Panhans.

Guide drill bit A014C

For adapter A2

- Short version
- 6.35 mm (1/4") diameter



Shaft diameter (Ø)	6.35 mm
Drill diameter	6.35 mm
Length	79 mm

Art. no. 0632 014

P. Qty.: 1

Guide drill bit A014D

For adapter A4

- Long version
- 6.35 mm (1/4") diameter



Shaft diameter (Ø)	6.35 mm
Drill diameter	6.35 mm
Length	105 mm

Art. no. 0632 014 1

P. Qty.: 1

Hand-held circular saw blade

Universal for mobile use

Tooth shape	Alternating tooth
Material to be processed	Softwood, Hardwood, Raw sheet material, Plastic-coated sheet material, Veneered sheet material



Diameter x saw cutting width/main blade thickness x drill hole	Number of teeth	Max. rotation speed	Art. no.	P. Qty.
140 x 2.6/1.6 x 20 mm	24 PCS	10900 rpm	0610 140 240	1
160 x 2.6/1.6 x 20 mm	16 PCS	9500 rpm	0610 160 160	1
160 x 2.6/1.6 x 20 mm	24 PCS	9500 rpm	0610 160 240	1
160 x 2.6/1.6 x 20 mm	40 PCS	9500 rpm	0610 160 400	1
170 x 2.8/1.8 x 30 mm	52 PCS	9000 rpm	0610 170 540	1
190 x 2.8/1.8 x 30 mm	24 PCS	10100 rpm	0610 190 243	1
190 x 2.8/1.8 x 30 mm	40 PCS	10100 rpm	0610 190 403	1
210 x 2.8/1.8 x 30 mm	64 PCS	9100 rpm	0610 210 600	1

MBS HW cylinder saw

Multi-range saw for a precise and clean drilling pattern with low tolerances

- Even CNC cut with cutting geometry specifically aligned to reduce cutting pressure
- Offset, optimised centre drill (GS-protected system)
- Precise, optimally embedded seating of the cemented carbide teeth via a unique, fully automatic soldering process
- Ejection spring
- Solid basic body with offset chip grooves
- Separately tempered shank from Ø 32 mm



Width across flats	3/4 inch
Cutting depth	20 mm
Drive type	Triangle

Diameter (Ø)	Connection thread (conduit thread)	Art. no.	P. Qty.
18 mm		0630 120 18	1
19 mm	PG 11	0630 120 19	1
20 mm		0630 120 20	1
21 mm	PG 13	0630 120 21	1
22 mm	PG 16	0630 120 22	1
23 mm		0630 120 23	1
24 mm		0630 120 24	1
25 mm		0630 120 25	1
28 mm		0630 120 28	1
29 mm	PG 21	0630 120 29	1
30 mm		0630 120 30	1
32 mm		0630 120 32	1
33 mm		0630 120 33	1
34 mm		0630 120 34	1
35 mm		0630 120 35	1
36 mm		0630 120 36	1
37 mm	PG 29	0630 120 37	1
38 mm		0630 120 38	1
40 mm		0630 120 40	1
42 mm		0630 120 42	1
43 mm		0630 120 43	1
44 mm		0630 120 44	1
45 mm		0630 120 45	1
48 mm	PG 36	0630 120 48	1
49 mm		0630 120 49	1
50 mm		0630 120 50	1
51 mm		0630 120 51	1
55 mm		0630 120 55	1
60 mm	PG 48	0630 120 60	1
64 mm		0630 120 64	1

Ensure that the cylinder saw is secure in the drill chuck. Avoid using the cylinder saw at an angle. Wear appropriate protective clothing, e.g. safety glasses, gloves etc. when working.

Core drill bit assortment HSCo8 AlCrN

7 pieces High-performance core drill bits with 55-mm cutting depth, AlCrN-multilayer coating and 8% cobalt alloy for high service life and versatile use with almost all materials such as in conventional steels, cast iron, titanium, stainless steels, heat-resistant and high-strength steels up to 1400 N/mm² in strength. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, magnesium alloys, brass, bronze and plastics.



- Significantly higher service life as well as up to 60% higher cutting speed compared to uncoated core drill bits
- Significantly faster drilling progress compared to uncoated core drill bits
- For process reliability in almost all materials

Number of pieces in assortment/set	7
Material to be processed	Steel, Stainless steel, Cast metal, Non-ferrous metal, Hard and tough material
Surface	AlCrN
Cutting material	HSCo8
Cutting depth	55 mm
Length	84.6 mm
Shank style	Weldon
Quality	ZEBRA-Premium
Service life (points system)	●●●●
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●●
Drilling behaviour (point system)	●●●●

Art. no. 0630 942 607

P. Qty.: 1

- Unlike the twist drill, the core drill bit does not machine the entire bore diameter, but rather only a thin material ring. The drill core is ejected by an ejector pin using spring tension; this is included in the scope of delivery. The drilling times of core drill bits are therefore up to ten times shorter than those of twist drills.
- Sufficient continuous cooling during the entire drilling process considerably increases the service life of the core drill. Do not use in a dry state.
- See the overview tables for core drill bits/material assignments as well as cutting values
- Wear appropriate protective equipment when using the sanding tip, such as Eye protection, hearing protection, protective gloves
- Set aside loose clothing or jewellery that could get caught in moving parts
- The core drill bits must not be used manually
- Before use, please ensure that the tool rotates properly and that the clamping function on the tool drive works correctly

Core drill bit HSCo8 AlCrN

High-performance core drill bits with 55-mm cutting depth, AlCrN-multilayer coating and 8% cobalt alloy for high service life and versatile use with almost all materials such as in conventional steels, cast iron, titanium, stainless steels, heat-resistant and high-strength steels up to 1400 N/mm² in strength. Also suitable for non-ferrous metals, such as aluminium, aluminium alloys, magnesium alloys, brass, bronze and plastics.



- Significantly higher service life as well as up to 60% higher cutting speed compared to uncoated core drill bits
- Significantly faster drilling progress compared to uncoated core drill bits
- For process reliability in almost all materials

Quality	ZEBRA-Premium
Cutting depth	55 mm
Length	84.6 mm
Material to be processed	Steel, Stainless steel, Cast metal, Non-ferrous metal, Hard and tough material
Shank style	Weldon
Surface	AlCrN
Cutting material	HSCo8
Service life (points system)	●●●●
Drilling speed (point system)	●●●●
Bore hole quality (point system)	●●●●
Versatility (points system)	●●●●
Drilling behaviour (point system)	●●●●
Type	Longlife

Diameter	Art. no.	P. Qty.
12 mm	0630 942 612	1
13 mm	0630 942 613	1
14 mm	0630 942 614	1
15 mm	0630 942 615	1
16 mm	0630 942 616	1
18 mm	0630 942 618	1
20 mm	0630 942 620	1
22 mm	0630 942 622	1
24 mm	0630 942 624	1
25 mm	0630 942 625	1
26 mm	0630 942 626	1
28 mm	0630 942 628	1
30 mm	0630 942 630	1
32 mm	0630 942 632	1
35 mm	0630 942 635	1
36 mm	0630 942 636	1
40 mm	0630 942 640	1
50 mm	0630 942 650	1

- Unlike the twist drill, the core drill bit does not machine the entire bore diameter, but rather only a thin material ring. The drill core is ejected by an ejector pin using spring tension; this is not included in the scope of delivery. The drilling times of core drill bits are therefore up to ten times shorter than those of twist drills.

Continuation **Core drill bit HSCo8 AlCrN**

- Sufficient continuous cooling during the entire drilling process considerably increases the service life of the core drill. Do not use in a dry state.
- See the overview tables for core drill bits/material assignments as well as cutting values
- Wear appropriate protective equipment when using the sanding tip, such as Eye protection, hearing protection, protective gloves
- Set aside loose clothing or jewellery that could get caught in moving parts
- The core drill bits must not be used manually
- Before use, please ensure that the tool rotates properly and that the clamping function on the tool drive works correctly

Core drill bit HSS

Standard core drill bits made of cemented carbide for drilling large through holes up to Ø 50 mm with mobile magnetic or stationary drills in cutting depths of 30 mm and 50 mm in conventional steels up to 850 N/mm², wood and non-ferrous metals, such as aluminium, aluminium alloys and plastic.



- Powerful performance and fast drilling progress with a long service life
- No predrilling required, no formation of burrs
- Optimised cutting geometry, exact guide, no slippage

Quality	Würth-Standard
Material to be processed	Steel, Aluminium, Wood
Shank style	Weldon
Surface	Plain
Cutting material	HSS
Service life (points system)	●●○○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●○○
Drilling behaviour (point system)	●●●○

Cutting depth	Diameter	Length	Art. no.	P. Qty.
30 mm	12 mm	64.2 mm	0630 930 120	1
30 mm	13 mm	64.2 mm	0630 930 130	1
30 mm	14 mm	64.2 mm	0630 930 140	1
30 mm	15 mm	64.2 mm	0630 930 150	1
30 mm	16 mm	64.2 mm	0630 930 160	1
30 mm	17 mm	64.2 mm	0630 930 170	1
30 mm	18 mm	64.2 mm	0630 930 180	1
30 mm	19 mm	64.2 mm	0630 930 190	1
30 mm	20 mm	64.2 mm	0630 930 200	1
30 mm	21 mm	64.2 mm	0630 930 210	1
30 mm	22 mm	64.2 mm	0630 930 220	1
30 mm	23 mm	64.2 mm	0630 930 230	1
30 mm	24 mm	64.2 mm	0630 930 240	1
30 mm	25 mm	64.2 mm	0630 930 250	1
30 mm	26 mm	64.2 mm	0630 930 260	1

Cutting depth	Diameter	Length	Art. no.	P. Qty.
30 mm	27 mm	64.2 mm	0630 930 270	1
30 mm	28 mm	64.2 mm	0630 930 280	1
30 mm	29 mm	64.2 mm	0630 930 290	1
30 mm	30 mm	64.2 mm	0630 930 300	1
30 mm	31 mm	64.2 mm	0630 930 310	1
30 mm	32 mm	64.2 mm	0630 930 320	1
30 mm	34 mm	64.2 mm	0630 930 340	1
30 mm	35 mm	64.2 mm	0630 930 350	1
30 mm	36 mm	64.2 mm	0630 930 360	1
30 mm	38 mm	64.2 mm	0630 930 380	1
30 mm	40 mm	64.2 mm	0630 930 400	1
30 mm	45 mm	64.2 mm	0630 930 450	1
30 mm	50 mm	64.2 mm	0630 930 500	1
50 mm	12 mm	84.6 mm	0630 940 120	1
50 mm	13 mm	84.6 mm	0630 940 130	1
50 mm	14 mm	84.6 mm	0630 940 140	1
50 mm	15 mm	84.6 mm	0630 940 150	1
50 mm	16 mm	84.6 mm	0630 940 160	1
50 mm	18 mm	84.6 mm	0630 940 180	1
50 mm	20 mm	84.6 mm	0630 940 200	1
50 mm	22 mm	84.6 mm	0630 940 220	1
50 mm	24 mm	84.6 mm	0630 940 240	1
50 mm	25 mm	84.6 mm	0630 940 250	1
50 mm	26 mm	84.6 mm	0630 940 260	1
50 mm	28 mm	84.6 mm	0630 940 280	1
50 mm	30 mm	84.6 mm	0630 940 300	1
50 mm	32 mm	84.6 mm	0630 940 320	1
50 mm	35 mm	84.6 mm	0630 940 350	1
50 mm	36 mm	84.6 mm	0630 940 360	1
50 mm	40 mm	84.6 mm	0630 940 400	1
50 mm	50 mm	84.6 mm	0630 940 500	1

- Unlike the twist drill, the core drill bit does not machine the entire bore diameter, but rather only a thin material ring. The drill core is ejected by an ejector pin using spring tension; this is not included in the scope of delivery. The drilling times of core drill bits are therefore up to ten times shorter than those of twist drills.
- Sufficient, continuous cooling throughout the drilling process significantly increases the service life of the core drill. Do not use in a dry state
- Not suitable for chipboard, titanium or heat-resistant and high-alloy steels
- See the overview tables for core drill bits/material assignments as well as cutting values
- Wear appropriate protective equipment when using the sanding tip, such as Eye protection, hearing protection, protective gloves
- Set aside loose clothing or jewellery that could get caught in moving parts
- The core drill bits must not be used manually
- Before use, please ensure that the tool rotates properly and that the clamping function on the tool drive works correctly

Core drill range HSS

7 pieces. Standard core drill made from HSS for drilling large through-holes of up to 50 mm in diameter with mobile magnetic or stationary drilling machines in conventional steels up to 850 N/mm², wood and non-ferrous metals, such as aluminium, aluminium alloys and plastics.

- Powerful performance and fast drilling progress with a long service life
- No pre-drilling required, no formation of burrs
- Optimised cutting geometry, precise control and no slipping



Number of pieces in assortment/set	7 PCS
Material to be processed	Steel, Aluminium, Wood
Surface	Plain
Cutting material	HSS
Shank style	Weldon
Quality	Würth-Standard
Service life (points system)	●●○○
Drilling speed (point system)	●●●○
Bore hole quality (point system)	●●●●
Versatility (points system)	●●○○
Drilling behaviour (point system)	●●●○

Cutting depth	Length	Art. no.	P. Qty.
30 mm	64.2 mm	0630 930	1
50 mm	84.6 mm	0630 940 007	1

- In contrast to twist drills, the core drill does not machine the complete bore diameter but only a thin ring of material. The drilling core is taken out using an ejector pin with spring power which is not included in the scope of delivery. Core drills are therefore up to 10 times quicker in terms of drilling time compared to twist drills.
- Sufficient continuous cooling during the entire drilling process considerably increases the service life of the core drill. Do not use dry
- Not suitable for pressboard, titanium or heat-resistant and high-alloy steels
- For core drill/material allocations and cutting values, see the overview tables
- During use, wear appropriate protective equipment, such as eye protection, hearing protection and protective gloves
- Take off loose clothing or jewellery which could get caught in the moving parts
- Core drills must not be used hand-guided
- Before use, ensure perfect concentricity and the correct clamping function of the tool drive

Circular saw blade for cordless hand-held circular wood saws

For mobile use and precise cuts in any material, especially for cordless hand-held circular wood saws.

- Perfect cutting results in any material due to optimised tooth geometry and colour coding system
- Extra thin, super fast and simple cuts thanks to the thin steel blade



Max. rotation speed	8000 1/min
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Diameter x saw cutting width/ main blade thickness x drill hole	Number of teeth	Tooth shape	Material to be processed	Art. no.	P. Qty.
190 x 1.8/1.2 x 30 mm	24 PCS	Alternating tooth	Softwood, Hardwood	0610 281 924	1
190 x 1.8/1.2 x 30 mm	30 PCS	Alternating tooth	Cement asbestos, Fibreboard, Wood, Gypsum plaster-board, PVC	0610 271 930	1
190 x 1.8/1.2 x 30 mm	42 PCS	Alternating tooth	Softwood, Hardwood	0610 271 942	1
190 x 2/1.35 x 30 mm	54 PCS	Trapezium tooth/flat tooth	Aluminium profile	0610 241 954	1

Vibrations significantly reduce the service life of the circular saw blade

Long-life metal circular saw blade for chop saws

For mobile use. Suitable for metal chop saw MKS 2200 inox/MKS 2400 and dry cutter machines.

Particularly long service life in stainless steel

Optimized tooth geometry and carbide alloying



Diameter x saw cutting width/ main blade thickness x drill hole	355 x 2.4/2 x 25.4 mm
Tooth shape	Trapezium tooth/flat tooth
Max. rotation speed	1700 rpm
Min./max. material thickness	2-5 mm

Number of teeth	Tooth geometry	Material to be processed	Art. no.	P. Qty.
72 PCS	Positive	Structural steel, Thin-walled steel, Metal profiles and pipes, Steel, Composites	0604 135 573	1
84 PCS		Aluminium, Structural steel, Thin-walled steel, Stainless steel, Metal profiles and pipes, Non-ferrous metal	0604 135 584	1

Metal circular saw blade for cordless metal hand-held circular saw MHKS 28-A

For mobile application. In particular for cordless hand-held circular saws.

Diameter x saw cutting width/ main blade thickness x drill hole	174 x 1.6/1.2 x 20 mm
Tooth shape	Alternating tooth
Max. rotation speed	3400 rpm



Number of teeth	Material to be processed	Art. no.	P. Qty.
34 PCS	Structural steel, Metal profiles and pipes	0610 917 436	1
52 PCS	Aluminium, Structural steel, Thin sheet steel, Cast iron, Copper, Metal profiles and pipes, Non-ferrous metal, Stainless steel plate	0610 917 452	1

Metal circular saw blade for chop saw

For mobile use.

Diameter x saw cutting width/ main blade thickness x drill hole	305 x 2.2/1.8 x 25.4 mm
Tooth shape	Trapezium tooth/flat tooth
Max. rotation speed	2000 rpm



Number of teeth	Material to be processed	Art. no.	P. Qty.
60 PCS	Steel	0604 130 561	1
72 PCS	Aluminium, Structural steel, Thin-walled steel, Stainless steel, Metal profiles and pipes, Non-ferrous metal	0604 130 572	1

Circular saw blade metal for chop saw

For mobile use. Suitable for metal chop saw MKS 2200 inox/MKS 2400 and dry cutter machines.

Diameter x saw cutting width/ main blade thickness x drill hole	355 x 2.2/1.8 x 25.4 mm
Tooth shape	Trapezium tooth/flat tooth
Max. rotation speed	1700 rpm



Number of teeth	Material to be processed	Material thickness	Min./max. material thickness	Art. no.	P. Qty.
60 PCS	Cast metal, SML	5.3 mm		0604 135 560	1
60 PCS	Thick-walled steel, Stainless steel		4-6 mm	0604 135 561	1
72 PCS	Thick-walled steel, Stainless steel		2-5 mm	0604 135 572	1
90 PCS	Thin-walled steel, Stainless steel	2.5 mm		0604 135 590	1

UNI-Top circular saw blade

The universal circular saw blade for construction sites.

For clean cuts in a wide variety of materials.

- Depending on the diameter, suitable for hand-held circular saws, chop saws and mitre saws, sliding mitre saws, circular saw benches



Tooth shape	Alternating tooth
Material to be processed	Hardwood, Wood with metal, Plastic, Non-ferrous metal, Shuttering boards, Coated chipboard, Veneered chipboard, Chipboard (raw), Composites, Softwood

Diameter x saw cutting width/ main blade thickness x drill hole	Number of teeth	Max. rotation speed	Side holes	Art. no.	P. Qty.
150 x 2.8/1.8 x 20 mm	24 PCS	12700 rpm		0611 615 024	1
160 x 2.8/1.8 x 20 mm	24 PCS	11900 rpm		0611 616 024	1
170 x 2.8/1.8 x 30 mm	24 PCS	11200 rpm		0611 617 024	1
180 x 2.8/1.8 x 30 mm	30 PCS	10600 rpm		0611 618 030	1
190 x 2.8/1.8 x 30 mm	30 PCS	10100 rpm		0611 619 030	1
200 x 2.8/1.8 x 30 mm	30 PCS	9500 rpm		0611 620 030	1
210 x 2.8/1.8 x 30 mm	34 PCS	9100 rpm		0611 621 034	1
230 x 2.8/1.8 x 30 mm	34 PCS	8300 rpm		0611 623 034	1
235 x 2.8/1.8 x 30 mm	34 PCS	8300 rpm		0611 623 534	1
240 x 2.8/1.8 x 30 mm	42 PCS	8000 rpm		0611 624 042	1
250 x 3/2 x 30 mm	42 PCS	7600 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 625 042	1
300 x 2.2/1.8 x 25.4 mm	60 PCS	2000 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 630 061	1
300 x 3.2/2.2 x 30 mm	48 PCS	6400 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 630 048	1
350 x 3.2/2.2 x 30 mm	54 PCS	5500 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 635 054	1
400 x 3.5/2.5 x 30 mm	60 PCS	4800 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 640 060	1
450 x 3.5/2.5 x 30 mm	66 PCS	4200 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 645 066	1

Reducing ring included with art. no. 0611 615 024, 0611 616 024, 0611 617 024, 0611 618 030

Cemented carbide hole saw

Hole saw for universal use

- Robust and durable
- Rapid drilling progress
- Improved oscillation and vibration behaviour

Drilling depth	60 mm
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Diameter (Ø)	Art. no.	P. Qty.
25 mm	0632 400 025	1
30 mm	0632 400 030	1
35 mm	0632 400 035	1
40 mm	0632 400 040	1
45 mm	0632 400 045	1
50 mm	0632 400 050	1
55 mm	0632 400 055	1
60 mm	0632 400 060	1
63 mm	0632 400 063	1
65 mm	0632 400 065	1
68 mm	0632 400 068	1
74 mm	0632 400 074	1
80 mm	0632 400 080	1
85 mm	0632 400 085	1
105 mm	0632 400 105	1

Please note:

- Only use hole saw in rotating mode. Switch off hammer function!
- Not suitable for hard-burned tiles and fine earthenware

Please order centre drill and adapter separately.

Hole saw HW

Flat-cut hole saw (cutting depth limit) for a precise and clean drilling pattern with low tolerances

- Even CNC cut with cutting geometry specifically aligned to reduce cutting pressure
- Offset, optimised centre drill (GS-protected system)
- Precise, optimally embedded seating of the cemented carbide teeth via a unique, fully automatic soldering process
- Cutting depth limitation
- Ejection spring protects shock-sensitive carbide teeth after pre-drilling when the drill bit enters the medium
- Separately tempered shank from Ø 32 mm

Drilling depth	12 mm
Tooth height	4 mm



Diameter (Ø)	Connection thread (conduit thread)	Shaft diameter	Art. no.	P. Qty.
15.2 mm	PG 9	10 mm	0630 130 152	1
16 mm		10 mm	0630 130 16	1
18 mm		10 mm	0630 130 18	1
18.6 mm	PG 11	10 mm	0630 130 186	1
20 mm		10 mm	0630 130 20	1
20.4 mm	PG 13	10 mm	0630 130 204	1
22 mm		10 mm	0630 130 22	1
22.5 mm	PG 16	10 mm	0630 130 225	1
23 mm		10 mm	0630 130 23	1
25 mm		10 mm	0630 130 25	1
27 mm		10 mm	0630 130 27	1
28 mm		10 mm	0630 130 28	1
28.3 mm	PG 21	10 mm	0630 130 283	1
29 mm		10 mm	0630 130 29	1
30 mm		10 mm	0630 130 30	1
32 mm		10 mm	0630 130 32	1
35 mm		10 mm	0630 130 35	1
37 mm	PG 29	10 mm	0630 130 37	1
40 mm		10 mm	0630 130 40	1
45 mm		10 mm	0630 130 45	1
47 mm	PG 36	10 mm	0630 130 47	1
50 mm		10 mm	0630 130 50	1
54 mm	PG 42	13 mm	0630 130 54	1
60 mm	PG 48	13 mm	0630 130 60	1
68 mm		13 mm	0630 130 68	1
70 mm		13 mm	0630 130 70	1
75 mm		13 mm	0630 130 75	1
80 mm		13 mm	0630 130 80	1
90 mm		13 mm	0630 130 90	1

- The cylinder saw must be seated securely in the drill chuck
- Avoid tilting of the cylinder saw
- Appropriate protective clothing such as safety glasses, gloves etc. must be worn during work

Hole saw with countersink bit

For installation of device sockets flush to hollow walls.

- Fits all drills with 13 mm chuck

Diameter (Ø)	68 mm
Material to be processed	Gypsum plasterboard, Wood beams, Plastic plates, Chipboard, Blockboard

Art. no. 0632 068

P. Qty.: 1

Remove countersink bit for cutting depths greater than 32 mm.



Panel saw blade

Specialist for mobile use. For cross sections with the sliding mitre saw, chop saw and mitre saw.



Diameter x saw cutting width/main blade thickness x drill hole	Adapter type	Number of teeth	Tooth shape	Max. rotation speed	Art. no.	P. Qty.
190 x 2.4/1.8 x 0 mm	FF mount	48 PCS	Alternating tooth	8000 rpm	0611 819 048	1
190 x 2.6/2 x 0 mm	FF mount	58 PCS	Trapezium tooth/flat tooth	8000 rpm	0611 819 058	1
216 x 2.6/1.8 x 30 mm		48 PCS	Alternating tooth	6900 rpm	0611 621 648	1
216 x 2.6/1.8 x 30 mm		60 PCS	Trapezium tooth/flat tooth	6900 rpm	0611 621 660	1
216 x 2.6/1.8 x 30 mm		80 PCS	Trapezium tooth/flat tooth	6900 rpm	0611 621 680	1
260 x 2.5/1.8 x 30 mm		60 PCS	Alternating tooth	7600 rpm	0611 826 060	1
305 x 2.6/1.8 x 30 mm		36 PCS	Alternating tooth	4900 rpm	0611 630 536	1
305 x 2.6/1.8 x 30 mm		60 PCS	Alternating tooth	4900 rpm	0611 630 560	1
305 x 2.6/1.8 x 30 mm		80 PCS	Trapezium tooth/flat tooth	4900 rpm	0611 630 580	1

Quick-change adapter for bi-metal cylinder saws

One adapter for all diameters

Quick, convenient and secure

- Special adapters allow the various diameters to be changed very quickly and easily
- The mount does not need to be removed from the drill chuck or the collet chuck in order to change the saw. This allows for one-handed operation.

Very high precision and durability



Suitable for hole-saw diameter	14 - 152 mm
Shaft diameter	11 mm
Drive type	Hexagon
Length	140 mm

Art. no. 0632 900 000

P. Qty.: 1

Quick-action chuck with SDS-plus drive arbor

For hammer drills

- Convenient quick-release closure for fast, tool-free changing of the centre drill
- Wrench surfaces enable easy loosening of the mount
- Easy removal of drill core by unlocking and pulling out centre drill bit
- With shortened mounting grooves. Prevents impacting use in hammer drills, even if impact mechanism is accidentally switched on.



Tool holding device	Suitable for SDS-plus
Length	118 mm
Connection thread	M16

Art. no. 0632 401 010

P. Qty.: 1

Special circular saw blade

For non-ferrous metals

- Trapezoidal tooth/flat tooth (TT/FT)
- For table saws, panel saws or chop and mitre saws
- Profile and solid materials made from aluminium and other non-ferrous alloys, acrylic resin and Pertinax
- Particularly suitable for thin-walled aluminium profiles



Tooth shape	Trapezium tooth/flat tooth
Material to be processed	Aluminium, Non-ferrous metal, Acrylic resin, Pertinax
Side holes	Combi (2/10/60 - 2/11/63 - 2/12/64)

Diameter x saw cutting width/main blade thickness x drill hole	Number of teeth	Tooth geometry	Max. rotation speed	Suitable for machine type	Art. no.	P. Qty.
250 x 3.2/2.2 x 30 mm	80 PCS	Negative	7600 rpm	Mitre saws	0611 025 803	1
250 x 3.2/2.5 x 30 mm	60 PCS	Negative	7600 rpm	Mitre saws	0611 025 603	1
250 x 3.2/2.5 x 30 mm	60 PCS	Positive	7600 rpm	Bench and panel sizing circular saws	0611 025 602	1
250 x 3.2/2.5 x 30 mm	80 PCS	Positive	7600 rpm	Bench and panel sizing circular saws	0611 025 802	1
300 x 3.2/2.5 x 30 mm	72 PCS	Negative	6400 rpm	Mitre saws	0611 030 723	1
300 x 3.2/2.5 x 30 mm	96 PCS	Negative	6400 rpm	Mitre saws	0611 030 963	1
300 x 3.2/2.5 x 30 mm	96 PCS	Positive	6400 rpm	Bench and panel sizing circular saws	0611 030 962	1
350 x 3.3/2.8 x 30 mm	84 PCS	Negative	5500 rpm	Mitre saws	0611 035 843	1
350 x 3.4/2.8 x 30 mm	108 PCS	Negative	5500 rpm	Mitre saws	0611 035 103	1

Special circular saw blade for trimming cuts

For perfect cutting edge quality on sensitive surfaces

- Trapezoidal tooth/flat tooth (TT/FT)
- For bench and trimming circular saws (1), mitre saws (2)
- Profile and solid materials made from aluminium and other non-ferrous alloys, acrylic resin and Pertinax
- Especially suitable for thin-walled aluminium profiles



Tooth shape	Hollow tooth/inverted-V/flat tooth
Side holes	Combi (2/7/42 - 2/10/60)
Material to be processed	Laminated veneered chipboard, Laminated veneered fibreboard, Plastic, Acrylic glass, Polymer materials

Diameter x saw cutting width/main blade thickness x drill hole	Number of teeth	Max. rotation speed	Art. no.	P. Qty.
253 x 3.2/2.2 x 30 mm	48 PCS	7600 rpm	0611 253 481	1
303 x 3.2/2.2 x 30 mm	60 PCS	6400 rpm	0611 303 601	1
303 x 3.2/2.2 x 30 mm	60 PCS	6400 rpm	0611 303 602	1
350 x 3.5/2.5 x 30 mm	72 PCS	5500 rpm	0611 350 720	1

Auxiliary hole 2/7/42 for Striebig/Reich machines.

Auxiliary hole 2/9/46 for Felder and Italian machine manufacturers.

Auxiliary hole 2/10/60 for Martin, Kölle, Altendorf and Panhans.

Standard drill chuck with SDS-plus drive arbor

For hammer drills

With countersunk 3 mm Allen head locking screw for centre drill bit



No risk of injury due to protruding parts.

Complete with 3 mm Allen key for changing drill bits

Tool holding device	Length	Connection thread	Art. no.	P. Qty.
			0630 008	1
			0630 009	1
Suitable for SDS-plus	105 mm	M16	0632 401 020	1
Suitable for SDS-plus	220 mm	M16	0632 401 021	1
Suitable for SDS-plus	370 mm	M16	0632 401 022	1

Hex. standard mount, size 11

For drills

With countersunk 3 mm Allen head locking screw for centre drill bit



No risk of injury due to protruding parts.

Complete with 3 mm Allen key for changing drill bits

M16 connecting thread

Tool holding device	HEX WS11
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Length	Art. no.	P. Qty.
90 mm	0632 401 015	1
220 mm	0632 401 016	1
370 mm	0632 401 017	1

Standard circular saw blade

For universal use

Tooth shape

Alternating tooth (AT)

Machine

Bench, trimming, cross-cut and panel circular saws

Materials

Softwood and hardwood, coated and veneered chipboard, plastics (acrylic glass, polymer materials)



Tooth shape	Alternating tooth
Material to be processed	Softwood, Hardwood, Coated chipboard, Veneered chipboard, Plastic, Acrylic glass, Polymer materials

Diameter x saw cutting width/ main blade thickness x drill hole	Number of teeth	Max. rotation speed	Side holes	Art. no.	P. Qty.
250 x 3.2/2.2 x 30 mm	40 PCS	7600 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 025 401	1
250 x 3.2/2.2 x 30 mm	60 PCS	7600 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 025 601	1
250 x 3.2/2.2 x 30 mm	80 PCS	7600 rpm		0611 025 801	1
300 x 3.2/2.2 x 30 mm	48 PCS	6400 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 030 481	1
300 x 3.2/2.2 x 30 mm	72 PCS	6400 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 037 721	1
300 x 3.2/2.2 x 30 mm	96 PCS	6400 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 030 961	1
350 x 3.5/2.5 x 30 mm	54 PCS	5500 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 035 541	1
350 x 3.5/2.5 x 30 mm	84 PCS	5500 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 035 841	1
400 x 3.5/2.5 x 30 mm	60 PCS	4800 rpm	Combi (2/7/42 - 2/9/46 - 2/10/60)	0611 040 601	1

Starlock diamond segmented saw blade, Longlife

For removing joint mortar in damaged tile and mortar gaps and for separating tiles up to scratch hardness 6, fibreglass and reinforced plastics. Ideal for use in corners and edges.

- Diamond coating guarantees a long service life
- The segment blade can be rotated to optimise wear levels on the saw blade
- The segment blade enables precise cuts in corners



STARLOCK

3D mount (Starlock)

- Particularly high power transmission with low wear
- 3 x longer service life compared to conventional mount systems
- Much better material removal
- Precise results
- High cutting speeds
- Excellent compatibility with existing mount systems

Diameter	85 mm
Thickness	2 mm
Material	Diamond
Adapter type	Starlock
Saw blade design	Segment
Suitable machines	Starlock, Starlock plus, Starlock max, Würth EMS 10-A, Würth EMS 12-A, Würth EMS 14-A, Würth EMS 18-A EC SL, Würth EMS 350-SL COMPACT, Würth EMS 450-SL POWER, Würth EMS 2 adapter 0696 121 100, Bosch GOP 10.8 V, Fein Multimaster (250 W)

Art. no. 0696 121 330

P. Qty.: 1

In conjunction with the Starlock adapter (art. no. 0696121100), also suitable for the multi-cutter EMS 2.0.

Starlock triangular grinding disc

Grinding plate with particularly soft corners for ease of work

- Flexibility in the corners means that pressure can be exerted, enabling better removal of material

3D mount (Starlock)

- Excellent compatibility with existing mount systems
- Particularly high power transmission
- Much better material removal



STARLOCK

Dimension adhesive disc	90 x 90 x 90 mm
Adapter type	Starlock
Suitable machines	Starlock, Starlock plus, Starlock max, Würth EMS 10-A, Würth EMS 14-A, Würth EMS 18-A EC SL, Würth EMS 350-SL COMPACT, Würth EMS 450-SL POWER, Würth EMS 2 adapter 0696 121 100, Bosch GOP 10.8 V, Fein Multimaster (250 W), Würth EMS 12-A

Art. no. 0696 121 150

P. Qty.: 1

In conjunction with the Starlock adapter (art. no. 0696121100), also suitable for the multi-cutter EMS 2.0.

Starlock carbide rasp

The 3-in-1 professional tile tool for removing wall and floor tiles and sanding off tile grout when changing tiles.

- Cemented carbide guarantees a long service life
- The segmented blade can be rotated according to the application, optimising wear on the saw blade
- The droplet shape enables precise removal of the joint on the wall and floor tile (90° corner)



3D mount (Starlock)

- Particularly high power transmission with low wear
- 3 x longer service life compared to conventional mount systems
- Much better material removal
- Precise results
- High cutting speeds
- Excellent compatibility with existing mount systems



Diameter	70 mm
Material	Carbide
Adapter type	Starlock
Material to be processed	Tiling
Suitable machines	Starlock, Starlock plus, Starlock max, Würth EMS 10-A, Würth EMS 12-A, Würth EMS 14-A, Würth EMS 18-A EC SL, Würth EMS 350-SL COMPACT, Würth EMS 450-SL POWER, Würth EMS 2 adapter 0696 121 100, Bosch GOP 10.8 V, Fein Multimaster (250 W)

Art. no. 0696 121 320

P. Qty.: 1

In conjunction with the Starlock adapter (art. no. 0696121100), also suitable for the multi-cutter EMS 2.0.

Starlock saw blade, double tooth

For clean, tear-free separating and immersion cuts

- The slightly curved „clean cut“ toothed blade enables a clean immersion.
- Depth scale for monitoring the precise immersion depth.

3D mount (Starlock)

- Particularly high power transmission with low wear
- 3 x longer service life compared to conventional mount systems
- Much better material removal
- Precise results
- High cutting speeds
- Excellent compatibility with existing mount systems



STARLOCK

Material	Bimetal
Adapter type	Starlock
Saw blade design	Double toothed (Japan)
Suitable machines	Starlock, Starlock plus, Starlock max, Würth EMS 10-A, Würth EMS 12-A, Würth EMS 14-A, Würth EMS 18-A EC SL, Würth EMS 350-SL COMPACT, Würth EMS 450-SL POWER, Würth EMS 2 adapter 0696 121 100, Bosch GOP 10.8 V, Fein Multimaster (250 W)

Cutting depth	Cutting width	Art. no.	P. Qty.
50 mm	32 mm	0696 121 110	1/5
40 mm	65 mm	0696 121 111	1/5

In conjunction with the Starlock adapter (art. no. 0696121100), also suitable for the multi-cutter EMS 2.0.



Starlock saw blade, single tooth

The all-rounder on the construction site for rough separating and immersion cuts

- The slightly curved „clean cut“ toothed blade enables clean immersion
- Depth scale for monitoring the precise immersion depth

3D mount (STARLOCK)

- Particularly high power transmission with low wear
- 3 x longer service life compared to conventional mount systems
- Much better material removal
- Precise results
- High cutting speeds
- Excellent compatibility with existing mount systems

Material	Bimetal
Adapter type	Starlock
Saw blade design	Single toothed (regular)
Suitable machines	Starlock, Starlock plus, Starlock max, Würth EMS 10-A, Würth EMS 12-A, Würth EMS 14-A, Würth EMS 18-A EC SL, Würth EMS 350-SL COMPACT, Würth EMS 450-SL POWER, Würth EMS 2 adapter 0696 121 100, Bosch GOP 10.8 V, Fein Multimaster (250 W)



Cutting depth	Cutting width	Art. no.	P. Qty.
50 mm	32 mm	0696 121 410	1/5
40 mm	65 mm	0696 121 411	1/5

Starlock cemented carbide saw blade, single tooth

The high-performance saw blade for extremely demanding applications, high cutting performance and long tool life. For separating and immersion cuts in metal.

- The cemented carbide enables cutting of very hard materials.
- The slightly curved „clean cut“ tooth shape enables clean immersion.
- Depth scale for monitoring the precise immersion depth.

3D mount (Starlock)

- Particularly high power transmission with low wear
- 3 x longer service life compared to conventional mount systems
- Much better material removal
- Precise results
- High cutting speeds
- Excellent compatibility with existing mount systems



Cutting depth	40 mm
Cutting width	32 mm
Material	Carbide
Adapter type	Starlock
Saw blade design	Single toothed (regular)
Suitable machines	Starlock, Starlock plus, Starlock max, Würth EMS 10-A, Würth EMS 14-A, Würth EMS 18-A EC SL, Würth EMS 350-SL COMPACT, Würth EMS 450-SL POWER, Würth EMS 2 adapter 0696 121 100, Bosch GOP 10.8 V, Fein Multimaster (250 W), Würth EMS 12-A

Art. no. 0696 121 220

P. Qty.: 1/5

In conjunction with the Starlock adapter (art. no. 0696121100), also suitable for the multi-cutter EMS 2.0.

Starlock segmented saw blade

Ideal for immersion cuts, ideal for work in corners and for setting door frames

- The segmented blade can be positioned flush against the floor. The door frame can be shortened to the exact length
- The saw blade can be rotated to optimise wear of the saw blade
- Special blade shape enables precise cuts in corners

3D mount (Starlock)

- Particularly high power transmission with low wear
- 3 x longer service life compared to conventional mount systems
- Much better material removal
- Precise results
- High cutting speeds
- Excellent compatibility with existing mount systems



Diameter	85 mm
Material	Bimetal

Saw blade design	Segment
Suitable machines	Starlock, Starlock plus, Starlock max, Würth EMS 10-A, Würth EMS 12-A, Würth EMS 14-A, Würth EMS 18-A EC SL, Würth EMS 350-SL COMPACT, Würth EMS 450-SL POWER, Würth EMS 2 adapter 0696 121 100, Bosch GOP 10.8 V, Fein Multimaster (250 W)

Art. no. 0696 121 412

P. Qty.: 1

In conjunction with the Starlock adapter (art. no. 0696121100), also suitable for the multi-cutter EMS 2.0.

Starlock spatula

For replacing silicon joints and removing carpet adhesive and paint residue

- Flexibility enables the spatula to be pressed into any required position

3D mount (Starlock)

- Particularly high power transmission with low wear
- 3 x longer service life compared to conventional mount systems
- Much better material removal
- Precise results
- Excellent compatibility with existing mount systems



Cutting depth	38 mm
Cutting width	52 mm
Adapter type	Starlock
Suitable machines	Starlock, Starlock plus, Starlock max, Würth EMS 10-A, Würth EMS 12-A, Würth EMS 14-A, Würth EMS 18-A EC SL, Würth EMS 350-SL COMPACT, Würth EMS 450-SL POWER, Würth EMS 2 adapter 0696 121 100, Bosch GOP 10.8 V, Fein Multimaster (250 W)

Art. no. 0696 121 340

P. Qty.: 1

In conjunction with the Starlock adapter (art. no. 0696121100), also suitable for the multi-cutter EMS 2.0.

Saw set Starlock

Starter set with Starlock saw blades in a practical storage box for processing a wide variety of materials on construction sites.

- Suitable for multi-cutters with Starlock, Starlock Plus and Starlock Max mounts.
- The saw blades included in the set have a cutting depth of 40–50 mm.

Adapter type	Starlock
Number of pieces in assortment/set	5 PCS



Continuation **Saw set Starlock**

Art. no. 0696 121 000

P. Qty.: 1



In conjunction with the Starlock adapter (art. no. 0696121100), also suitable for the multi-cutter EMS 2.0.

Saw set Starlock Max

Starter set with Starlock Max saw blades in a practical storage box for processing a wide variety of materials on construction sites.

- Suitable for multi-cutter with Starlock Max mount.
- The saw blades included in the set have a cutting depth of 45–70 mm.

Adapter type	Starlock Max
Number of pieces in assortment/set	3 PCS



Art. no. 0696 123 000

P. Qty.: 1



In combination with the Starlock adapter (art. no. 0696121100), also suitable for the multi-cutter EMS 2.0.

Jigsaw blade, construction Multiblade LONGLIFE

With an extremely long service life in extreme applications. For thin and thick materials and, at the same time, a fast and clean cut.

- Colour-coded system with 4 distinct colours
- Exactly the right jigsaw blade for any application
- Extreme cutting performance and very long life
- Outstanding blade for construction sites, as it is possible to work continuously with one blade.
- For thin and thick material with fast cutting

Working length	65 mm
Min./max. material thickness	5-65 mm
Min./max teeth spacing	3.5-5 mm
Especially suitable for	Wood with metal, Thick metal sheets, Thin sheet metals, GFK
Suitable for	Hardwood, softwood, Aluminium profiles, Non-ferrous metal, Gypsum plasterboard, PVC, Fibreboard, MDF



Art. no. 0608 116 456

P. Qty.: 1

- To select the correct jigsaw blade, please use the guide under the documents tab.
- Further technical information can be found on the packaging of the product.

Extension for cylinder saw

For adapter A2

Length	300 mm
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Art. no. 0632 05

P. Qty.: 1

Two-piece scorer for circular saw blade

For clean, fray-free cutting of plate materials.

Thickness	2.2 mm
Min./max. cutting width	2.8-3.6 mm
Number of teeth per saw blade	12 PCS
Tooth shape	Alternating tooth



Diameter	Drill hole	Max. rotation speed	Art. no.	P. Qty.
100 mm	20 mm	19100 rpm	0611 100 123	2
120 mm	20 mm	15900 rpm	0611 120 120	2
120 mm	22 mm	15900 rpm	0611 100 122	1

Centre drill

For use with cemented carbide hole saws and hammer-resistant light bit crowns in masonry



Design	Material to be processed	Drill diameter	Length	Art. no.	P. Qty.
				0630 080 120	1
Carbide	Masonry	8 mm	120 mm	0632 401 001	1

HSCO centre drill for bi-metal cylinder saw

Drill diameter	6 mm
Length	110 mm



Art. no. 0632 900 001

P. Qty.: 1

Centre drill

For use with cemented carbide hole saws on wood and plastic

Material to be processed	Wood, Plastic
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Continuation **Centre drill**

Shaft diameter (Ø)	Design	Drill diameter	Length	Art. no.	P. Qty.
	HSS	7.4 mm	120 mm	0632 401 002	1
7.2 mm		7.2 mm	109 mm	0630 072 109	1

Blank circular saw blade

For quick cutting when separating and blocking wood

Tooth shape

Alternating tooth (AT)

Machine

On circular bench saws

Materials

Hard and soft wood

Design

Chip thickness limitation via deflectors.



Tooth shape	Alternating tooth
Side holes	Combi (2/7/42 - 2/9/46 - 2/10/60)

Diameter x saw cutting width/ main blade thickness x drill hole	Number of teeth	Max. rotation speed	Material to be processed	Art. no.	P. Qty.
250 x 3.2/2.2 x 30 mm	24 PCS	7600 rpm	Hardwood, Softwood	0611 025 241	1
300 x 3.2/2.2 x 30 mm	28 PCS	6400 rpm	Softwood, Hardwood	0611 030 281	1
315 x 3.2/2.2 x 30 mm	28 PCS	6000 rpm	Softwood, Hardwood	0611 031 281	1
350 x 3.5/2.5 x 30 mm	32 PCS	5500 rpm	Softwood, Hardwood	0611 035 321	1
400 x 3.5/2.5 x 30 mm	36 PCS	4800 rpm	Softwood, Hardwood	0611 040 361	1
450 x 4/2.8 x 30 mm	32 PCS	4200 rpm	Softwood, Hardwood	0611 045 321	1

Auxiliary hole 2/7/42 for Striebig/Reich machines. Auxiliary hole 2/9/46 for Felder and Italian machine manufacturers. Auxiliary hole 2/10/60 for Martin, Kölle, Altendorf and Panhans.



Cylinder saw, HSS bi-metal Longlife & Speed HSCo8

Steel/stainless steel. Extremely fast drilling speed and long service life, even on stainless steel solid materials.

Extremely fast sawing progress with minimal effort

Newly-developed tooth shape

High concentricity and side stroke accuracy

Robust base plate with more threads

Very quiet and low-vibration operation to a cutting depth of 38 mm

Combi vario toothing made from M42 bi-metal (8% cobalt)

Cutting depth	38 mm
Drive type	Outer hexagon



Diameter (Ø)	Diameter in inches	Art. no.	P. Qty.
14 mm	9/16 in	0632 900 014	1
16 mm	5/8 in	0632 900 016	1
17 mm	11/16 in	0632 900 017	1
19 mm	3/4 in	0632 900 019	1
20 mm	25/32 in	0632 900 020	1
21 mm	13/16 in	0632 900 021	1
22 mm	7/8 in	0632 900 022	1
24 mm	15/16 in	0632 900 024	1
25 mm	1 in	0632 900 025	1

Continuation **Cylinder saw, HSS bi-metal Longlife & Speed HSCo8**

Diameter (Ø)	Diameter in inches	Art. no.	P. Qty.
27 mm	1-1/16 in	0632 900 027	1
29 mm	1-1/8 in	0632 900 029	1
30 mm	1-3/16 in	0632 900 030	1
32 mm	1-1/4 in	0632 900 032	1
33 mm	1-5/16 in	0632 900 033	1
35 mm	1-3/8 in	0632 900 035	1
37 mm	1-7/16 in	0632 900 037	1
38 mm	1-1/2 in	0632 900 038	1
40 mm	1-9/16 in	0632 900 040	1
41 mm	1-5/8 in	0632 900 041	1
43 mm	1-11/16 in	0632 900 043	1
44 mm	1-3/4 in	0632 900 044	1
46 mm	1-13/16 in	0632 900 046	1
48 mm	1-7/8 in	0632 900 048	1
51 mm	2 in	0632 900 051	1
52 mm	2-1/16 in	0632 900 052	1
54 mm	2-1/8 in	0632 900 054	1
57 mm	2-1/4 in	0632 900 057	1
59 mm	2-5/16 in	0632 900 059	1
60 mm	2-3/8 in	0632 900 060	1
64 mm	2-1/2 in	0632 900 064	1
65 mm	2-9/16 in	0632 900 065	1
67 mm	2-5/8 in	0632 900 067	1
68 mm	2-11/16 in	0632 900 068	1
70 mm	2-3/4 in	0632 900 070	1
73 mm	2-7/8 in	0632 900 073	1
76 mm	3 in	0632 900 076	1
79 mm	3-1/8 in	0632 900 079	1
83 mm	3-1/4 in	0632 900 083	1
86 mm	3-3/8 in	0632 900 086	1
89 mm	3-1/2 in	0632 900 089	1
92 mm	3-5/8 in	0632 900 092	1
95 mm	3-3/4 in	0632 900 095	1
98 mm	3-7/8 in	0632 900 098	1
102 mm	4 in	0632 900 102	1
105 mm	4-1/8 in	0632 900 105	1
108 mm	4-1/4 in	0632 900 108	1
111 mm	4-3/8 in	0632 900 111	1
114 mm	4-1/2 in	0632 900 114	1
121 mm	4-3/4 in	0632 900 121	1
127 mm	5 in	0632 900 127	1
140 mm	5-1/2 in	0632 900 140	1
152 mm	6 in	0632 900 152	1
200 mm	8 in	0632 900 200	1

Cylinder saw HSS bi-metal

For use in all steel materials, plus cast metal, copper, bronze, aluminium, plastics and wood.

- Number of teeth: 6"

Cutting depth	32 mm
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Diameter (Ø)	Diameter in inches	Art. no.	P. Qty.
14 mm	9/16 in	0632 14	1
16 mm	5/8 in	0632 16	1
17 mm	11/16 in	0632 17	1
19 mm	3/4 in	0632 19	1
20 mm	25/32 in	0632 20	1
21 mm	13/16 in	0632 21	1
22 mm	7/8 in	0632 22	1
24 mm	15/16 in	0632 24	1
25 mm	1 in	0632 25	1
27 mm	1-1/16 in	0632 27	1
29 mm	1-1/8 in	0632 29	1
30 mm	1-3/16 in	0632 30	1
32 mm	1-1/4 in	0632 32	1
33 mm	1-5/16 in	0632 33	1
35 mm	1-3/8 in	0632 35	1
37 mm	1-7/16 in	0632 37	1
38 mm	1-1/2 in	0632 38	1
40 mm	1-9/16 in	0632 40	1
41 mm	1-5/8 in	0632 41	1
43 mm	1-11/16 in	0632 43	1
44 mm	1-3/4 in	0632 44	1
46 mm	1-13/16 in	0632 46	1
48 mm	1-7/8 in	0632 48	1
51 mm	2 in	0632 51	1
52 mm	2-1/16 in	0632 52	1
54 mm	2-1/8 in	0632 54	1
57 mm	2-1/4 in	0632 57	1
59 mm	2-5/16 in	0632 59	1
60 mm	2-3/8 in	0632 60	1
64 mm	2-1/2 in	0632 64	1
65 mm	2-9/16 in	0632 65	1
67 mm	2-5/8 in	0632 67	1
68 mm	2-11/16 in	0632 68	1
70 mm	2-3/4 in	0632 70	1
73 mm	2-7/8 in	0632 73	1
74 mm	2-15/16 in	0632 74	1
76 mm	3 in	0632 76	1
79 mm	3-1/8 in	0632 79	1
83 mm	3-1/4 in	0632 83	1
86 mm	3-3/8 in	0632 86	1
89 mm	3-1/2 in	0632 89	1
92 mm	3-5/8 in	0632 92	1
95 mm	3-3/4 in	0632 95	1
98 mm	3-7/8 in	0632 98	1
102 mm	4 in	0632 102	1
105 mm	4-1/8 in	0632 105	1

Continuation **Cylinder saw HSS bi-metal**

Diameter (Ø)	Diameter in inches	Art. no.	P. Qty.
108 mm	4-1/4 in	0632 108	1
111 mm	4-3/8 in	0632 111 0	1
114 mm	4-1/2 in	0632 114	1
121 mm	4-3/4 in	0632 121	1
127 mm	5 in	0632 127	1
140 mm	5-1/2 in	0632 140	1
152 mm	6 in	0632 152	1

When working with metals (except cast iron), use drilling and cutting oil. Using oil ensures a clean cut and extends the service life of the cylinder saws.

Cylinder saw, bimetal, extra long

Extra-long usable length for drilling mounting holes for roller shutter and cord ducts.

Fast and simply drilling

Combi vario toothing made from M42 bimetal (8% cobalt).

Simple and precise spot drilling

MFD-S centre drill multi-purpose drill bit with diamond-ground cemented carbide blades.



Cutting depth	90 mm
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Diameter (Ø)	Diameter in inches	Art. no.	P. Qty.
17 mm	11/16 in	0632 800 017	1
22 mm	7/8 in	0632 800 022	1
25 mm	1 in	0632 800 025	1

If roller shutters are subsequently installed on windows, holes must be drilled for the cord duct.

- Mini-cord (14/15 mm): dia. 17 mm
- Mini-cord with pipe insert: dia. 22 mm
- Maxi-cord (22/23 mm): dia. 25 mm

Cylinder saw adapter A2

With ejection function

- Quick and easy cutting of holes for hollow-wall device sockets
- No time-consuming „levering out“ of cut pieces
- No risk of injury when levering out cut pieces
- Very simple and easy removal of the cut piece with a single movement of the hand
- Saves costs and time



Suitable for hole-saw diameter	32 - 152 mm
Length	146 mm

Drive type	Art. no.	P. Qty.
Hexagon	0632 02 3	1
Suitable for SDS-plus	0632 02 4	1

Patented ejection function EP0994759

HSS bi-metal cylinder saw assortment

16-piece in system case. With the most popular dimensions for electricians, metal workers and plumbing work.

Number of pieces in assortment/set	16 PCS
System dimensions	4.4.1

Art. no. 5964 063 200

P. Qty.: 1



ORSY

Contents for art. no. 5964 063 200		
Designation	Art. no.	Quantity
Arbor A2 32 - 200 mm	0632 02	1
Adapter A4 14 - 30 mm	0632 04 1	1
Slinger spring A7	0632 07	1
Cylinder saw HSS bi-metal 19 mm	0632 19	1
Cylinder saw HSS bi-metal 22 mm	0632 22	1
Cylinder saw HSS bi-metal 25 mm	0632 25	1
Cylinder saw HSS bi-metal 32 mm	0632 32	1
Cylinder saw HSS bi-metal 35 mm	0632 35	1
Cylinder saw HSS bi-metal 38 mm	0632 38	1
Cylinder saw HSS bi-metal 44 mm	0632 44	1
Cylinder saw HSS bi-metal 51 mm	0632 51	1
Cylinder saw HSS bi-metal 57 mm	0632 57	1
Cylinder saw HSS bi-metal 64 mm	0632 64	1
Cylinder saw HSS bi-metal 68 mm	0632 68	1
Cylinder saw HSS bi-metal 76 mm	0632 76	1
System insert, foam 4.4.1		1
System case 4.4.1	5581 020 000	1

HSSCo8 bi-metal long-life & speed cylinder saws assortment

Extremely fast drilling speed and long service life, even in solid stainless steel materials.

- Extremely fast sawing progress with low force application
- Robust base plate with more threads for high concentricity and side stroke accuracy
- Very quiet and low-vibration operation to a cutting depth of 38 mm

Number of pieces in assortment/set	26 PCS
System dimensions	4.4.2

Art. no. 5964 063 201

P. Qty.: 1



ORSY

Continuation **HSSCo8 bi-metal long-life & speed cylinder saws** **assortment**

Contents for art. no. 5964 063 201		
Designation	Art. no.	Quantity
Quick-change adapter for bi-metal cylinder saws 14 - 152 mm	0632 900 000	1
Adapter A2 for bi-metal cylinder saw	0632 900 002	9
Combination adapter A4/A2 for cylinder saw	0632 900 003	1
Adapter A4 for bi-metal cylinder saw	0632 900 004	3
Cylinder saw, HSS bi-metal Longlife & Speed HSCo8 19 mm	0632 900 019	1
Cylinder saw, HSS bi-metal Longlife & Speed HSCo8 22 mm	0632 900 022	1
Cylinder saw, HSS bi-metal Longlife & Speed HSCo8 25 mm	0632 900 025	1
Cylinder saw, HSS bi-metal Longlife & Speed HSCo8 32 mm	0632 900 032	1
Cylinder saw, HSS bi-metal Longlife & Speed HSCo8 35 mm	0632 900 035	1
Cylinder saw, HSS bi-metal Longlife & Speed HSCo8 38 mm	0632 900 038	1
Cylinder saw, HSS bi-metal Longlife & Speed HSCo8 44 mm	0632 900 044	1
Cylinder saw, HSS bi-metal Longlife & Speed HSCo8 51 mm	0632 900 051	1
Cylinder saw, HSS bi-metal Longlife & Speed HSCo8 57 mm	0632 900 057	1
Cylinder saw, HSS bi-metal Longlife & Speed HSCo8 64 mm	0632 900 064	1
Cylinder saw, HSS bi-metal Longlife & Speed HSCo8 68 mm	0632 900 068	1
Cylinder saw, HSS bi-metal Longlife & Speed HSCo8 76 mm	0632 900 076	1
System insert, foam 4.4.2		1
System case 4.4.2	5581 021 000	1

Flat blunt-ended file

DIN 7261, shape A

- Ensures a clean workpiece surface and facilitates good chip removal
- Boosts cutting performance at reduced power
- High-quality steel and thorough hardening ensures a long service life
- Conical tang ensures the file sits securely in the handle



File blade length (L)	Width (B)	Thickness (S)	File cut	Art. no.	P. Qty.
150 mm	16 mm	4 mm	1	0714 61 00	1
150 mm	16 mm	4 mm	2	0714 61 05	1
150 mm	16 mm	4 mm	3	0714 61 10	1
200 mm	20 mm	5 mm	1	0714 61 01	1
200 mm	20 mm	5 mm	2	0714 61 06	1
200 mm	20 mm	5 mm	3	0714 61 11	1
250 mm	25 mm	6.3 mm	1	0714 61 02	1
250 mm	25 mm	6.3 mm	2	0714 61 07	1
250 mm	25 mm	6.3 mm	3	0714 61 12	1
300 mm	30 mm	6.7 mm	1	0714 61 03	1
300 mm	30 mm	6.7 mm	2	0714 61 08	1
300 mm	30 mm	6.7 mm	3	0714 61 13	1
350 mm	34.5 mm	7.6 mm	1	0714 61 04	1
350 mm	34.5 mm	7.6 mm	2	0714 61 09	1
350 mm	34.5 mm	7.6 mm	3	0714 61 14	1

Cut 1 - coarse; cut 2 - medium; cut 3 - fine

Triangular file

DIN 7261, shape C

- Ensures a clean workpiece surface and facilitates good chip removal
- Boosts cutting performance at reduced power
- High-quality steel and thorough hardening ensures a long service life
- Conical tang ensures the file sits securely in the handle



File blade length (L)	Width (B)	File cut	Art. no.	P. Qty.
150 mm	10 mm	1	0714 61 15	1
150 mm	10 mm	2	0714 61 19	1
150 mm	10 mm	3	0714 61 23	1
200 mm	14 mm	1	0714 61 16	1
200 mm	14 mm	2	0714 61 20	1
200 mm	14 mm	3	0714 61 24	1
250 mm	17 mm	1	0714 61 17	1
250 mm	17 mm	2	0714 61 21	1
250 mm	17 mm	3	0714 61 25	1
300 mm	20 mm	1	0714 61 18	1
300 mm	20 mm	2	0714 61 22	1
300 mm	20 mm	3	0714 61 26	1

Cut 1 - coarse; cut 2 - medium; cut 3 - fine

Square file

DIN 7261, shape D

- Ensures a clean workpiece surface and facilitates good chip removal
- Boosts cutting performance at reduced power
- High-quality steel and thorough hardening ensures a long service life
- Conical tang ensures the file sits securely in the handle



File blade length (L)	Width (B)	File cut	Art. no.	P. Qty.
150 mm	6 mm	1	0714 61 821	1
150 mm	6 mm	2	0714 61 822	1
150 mm	6 mm	3	0714 61 823	1
200 mm	8 mm	1	0714 61 831	1
200 mm	8 mm	2	0714 61 832	1
200 mm	8 mm	3	0714 61 833	1
250 mm	10 mm	1	0714 61 30	1
250 mm	10 mm	2	0714 61 31	1
250 mm	10 mm	3	0714 61 32	1
300 mm	12.5 mm	1	0714 61 841	1
300 mm	12.5 mm	2	0714 61 842	1
300 mm	12.5 mm	3	0714 61 843	1

Cut 1 - coarse; cut 2 - medium; cut 3 - fine

Half-round file

DIN 7261, shape E

- Ensures a clean workpiece surface and facilitates good chip removal
- Boosts cutting performance at reduced power
- High-quality steel and thorough hardening ensures a long service life
- Conical tang ensures the file sits securely in the handle



File blade length (L)	Width (B)	Thickness (S)	File cut	Art. no.	P. Qty.
150 mm	16 mm	5.3 mm	1	0714 61 33	1
150 mm	16 mm	5.3 mm	2	0714 61 37	1
150 mm	16 mm	5.3 mm	3	0714 61 41	1
200 mm	20 mm	6.7 mm	1	0714 61 34	1
200 mm	20 mm	6.7 mm	2	0714 61 38	1
200 mm	20 mm	6.7 mm	3	0714 61 42	1
250 mm	25 mm	8.3 mm	1	0714 61 35	1
250 mm	25 mm	8.3 mm	2	0714 61 39	1
250 mm	25 mm	8.3 mm	3	0714 61 43	1
300 mm	30 mm	8.7 mm	1	0714 61 36	1
300 mm	30 mm	8.7 mm	2	0714 61 40	1
300 mm	30 mm	8.7 mm	3	0714 61 44	1

Cut 1 - coarse; cut 2 - medium; cut 3 - fine

Round file

DIN 7261, shape F

- Ensures a clean workpiece surface and facilitates good chip removal
- Boosts cutting performance at reduced power
- High-quality steel and thorough hardening ensures a long service life
- Conical tang ensures the file sits securely in the handle



File blade length (L)	File cut	Diameter (D)	Art. no.	P. Qty.
150 mm	1	6.3 mm	0714 61 45	1
150 mm	2	6.3 mm	0714 61 49	1
150 mm	3	6.3 mm	0714 61 53	1
200 mm	1	8 mm	0714 61 46	1
200 mm	2	8 mm	0714 61 50	1
200 mm	3	8 mm	0714 61 54	1
250 mm	1	10 mm	0714 61 47	1
250 mm	2	10 mm	0714 61 51	1
250 mm	3	10 mm	0714 61 55	1
300 mm	1	12.5 mm	0714 61 48	1
300 mm	2	12.5 mm	0714 61 52	1
300 mm	3	12.5 mm	0714 61 56	1

Cut 1 - coarse; cut 2 - medium; cut 3 - fine

File handle

Wooden handle



Length (L1)	Outer diameter (D1)	Adapter diameter (D2)	Bore diameter (ØD)	Art. no.	P. Qty.
100 mm	25 mm	16 mm	3 mm	0714 61 57	1/25
110 mm	28 mm	28 mm	4 mm	0714 61 58	1/25
120 mm	31 mm	20 mm	5.5 mm	0714 61 59	1/25
130 mm	33 mm	20 mm	7 mm	0714 61 60	1/25
140 mm	35 mm	22 mm	9 mm	0714 61 61	1/25

File handle

Material: Plastic, sealed surface

Holding the bowl in the palm enables smooth and consistent file guidance

Effortless work



Outer diameter (D1)	28 mm
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Length (L1)	Bore diameter (ØD)	Art. no.	P. Qty.
110 mm	3 mm	0714 61 620	1
110 mm	5 mm	0714 61 622	1
128 mm	7 mm	0714 61 624	1



Flat hand engineer's file set

5-piece file set with the shapes flat hand file, half round, round, triangular and square

Art. no. 0714 61 90

P. Qty.: 1

Key file set

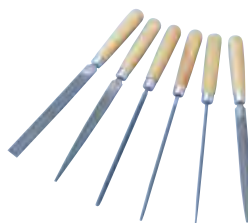
6 pcs., DIN 7283

Wooden handle

In plastic bag

Shapes:

- flat hand file
- flat-pointed
- half round
- round
- triangular
- square



File blade length (L)	100 mm
File cut	2

Art. no. 0714 61 74

P. Qty.: 1



05

HAND TOOLS

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1/4 inch multi-socket wrench assortment

33-piece assortment with 12-point multi-profile socket wrenches for the five most common bolt head drives.

- Extremely high-quality multi-socket wrenches guarantee long service lives
- Supplied in a metal box and a high-quality foam insert with clamping effect
- Design: chrome-plated, polished
- Drive: 1/4-inch square socket
- Tip: bi-hexagon, multi-profile

Number of pieces in assortment/set	33 PCS
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Art. no. 0965 11 032

P. Qty.: 1

Contents for art. no. 0965 11 032		
Designation	Art. no.	Quantity
1/4 inch screwdriver	0613 430 310	1
Slotted bit 0.8 x 5.5 mm; Length 25 mm	0614 175 653	1
Phillips bit PH1; Length 25 mm	0614 176 274	1
Phillips bit PH2; Length 25 mm	0614 176 461	1
Phillips bit PH3; Length 25 mm	0614 176 648	1
Hexagon socket bit 3 mm; Length 25 mm	0614 176 93	1
Hexagon socket bit 4 mm; Length 25 mm	0614 176 94	1

Designation	Art. no.	Quantity
Hexagon socket bit 5 mm; Length 25 mm	0614 176 95	1
Hexagon socket bit 6 mm; Length 25 mm	0614 176 96	1
TX bit TX10; Length 25 mm	0614 311 0	1
TX bit 15	0614 311 5	1
TX bit TX20; Length 25 mm	0614 312 0	1
TX bit TX25; Length 25 mm	0614 312 5	1
TX bit 27	0614 312 7	1
TX bit TX30; Length 25 mm	0614 313 0	1
TX bit TX40; Length 25 mm	0614 314 0	1
1/4 inch ratchet	0712 014 0	1
1/4" multi-socket wrench insert 4 mm; Length 22 mm	0713 113 04	1
1/4" multi-socket wrench insert 5 mm; Length 22 mm	0713 113 05	1
1/4" multi-socket wrench insert 5.5 mm; Length 22 mm	0713 113 055	1
1/4" multi-socket wrench insert 6 mm	0713 113 06	1
1/4" multi-socket wrench insert 7 mm; Length 22 mm	0713 113 07	1
1/4" multi-socket wrench insert 8 mm	0713 113 08	1
1/4" multi-socket wrench insert 9 mm; Length 22 mm	0713 113 09	1
1/4" multi-socket wrench insert 10 mm; Length 22 mm	0713 113 10	1
1/4" multi-socket wrench insert 11 mm; Length 22 mm	0713 113 11	1
1/4" multi-socket wrench insert 12 mm; Length 22 mm	0713 113 12	1
1/4" multi-socket wrench insert 13 mm; Length 22 mm	0713 113 13	1
1/4" multi-socket wrench insert 14 mm; Length 22 mm	0713 113 14	1
1/4 inch extension 100 mm	0713 118 104	1
1/4 inch extension Length 152 mm	0713 118 106	1
1/4-inch cardan joint Tip type Outer square	0713 118 301	1
1/4 inch bit adapter Length 30 mm	0715 11 01	1
Foam insert		1
Metal box	0955 715 1	1

1/4" multi-socket wrench insert

Bi-hexagon Multi-profile for the five most common screw head drives

- Extremely high-quality multi-socket wrenches guarantee long service lives
- Surface: Chrome-plated, polished
- Drive: 1/4" square socket
- Tip: Double hexagon head, multi profile



Drive	1/4 inch
Drive type	Internal square
Length (L1)	22 mm
Tip type	Twelve-sided head, multi profile
Design	Short
Surface	Chrome plated



Continuation 1/4" multi-socket wrench insert

Width across flats	Socket wrench depth (t)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
4 mm	5 mm	6.8 mm	11.9 mm	0713 113 04	1/10
5 mm	5 mm	8.1 mm	11.9 mm	0713 113 05	1/10
5.5 mm	5.5 mm	8.7 mm	11.9 mm	0713 113 055	1/10
6 mm	6 mm	9.3 mm	11.9 mm	0713 113 06	1/10
7 mm	6 mm	10.8 mm	11.9 mm	0713 113 07	1/10
8 mm	7 mm	11.9 mm	11.9 mm	0713 113 08	1/10
9 mm	7 mm	13.4 mm	13.4 mm	0713 113 09	1/10
10 mm	10 mm	14.5 mm	14.5 mm	0713 113 10	1/10
11 mm	10 mm	15.9 mm	15.9 mm	0713 113 11	1/10
12 mm	10 mm	16.9 mm	16.9 mm	0713 113 12	1/10
13 mm	11 mm	18 mm	18 mm	0713 113 13	1/10
14 mm	11 mm	19.6 mm	19.6 mm	0713 113 14	1/10

3/8-inch socket wrench set

22 pcs.

Supplied in a metal box and a high-quality foam insert with clamping effect.

Contents:

- 175 mm ratchet
- 125 mm extension
- 250 mm extension
- 55 mm cardan joint
- 1 each of multi-socket wrench sizes 6–22
- Metal box, size 2
- Foam insert 312x113x34 mm



Number of pieces in assortment/set	22 PCS
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Art. no. 0965 12 022

P. Qty.: 1

Contents for art. no. 0965 12 022		
Designation	Art. no.	Quantity
Reversible ratchet 3/8 inch Length 175 mm	0712 038 0	1
3/8" socket wrench 6 mm	0713 123 06	1
3/8" socket wrench 6.3 mm	0713 123 063	1
3/8" socket wrench 7 mm	0713 123 07	1
3/8" socket wrench 8 mm	0713 123 08	1
3/8" socket wrench 9 mm	0713 123 09	1
3/8" socket wrench 10 mm	0713 123 10	1
3/8" socket wrench 11 mm	0713 123 11	1
3/8" socket wrench 12 mm	0713 123 12	1
3/8" socket wrench 13 mm	0713 123 13	1
3/8" socket wrench 14 mm	0713 123 14	1
3/8" socket wrench 15 mm	0713 123 15	1
3/8" socket wrench 16 mm	0713 123 16	1

Designation	Art. no.	Quantity
3/8" socket wrench 17 mm	0713 123 17	1
3/8" socket wrench 18 mm	0713 123 18	1
3/8" socket wrench 19 mm	0713 123 19	1
3/8" socket wrench 20 mm	0713 123 20	1
3/8" socket wrench 21 mm	0713 123 21	1
3/8" socket wrench 22 mm	0713 123 22	1
3/8 inch extension Length 125 mm	0713 128 105	1
3/8 inch extension Length 250 mm	0713 128 110	1
3/8 inch cardan joint Length 55 mm	0713 128 301	1
Foam insert Length x width x height 312 x 113 x 34 mm		1
Metal box Length x width x height 315 x 115 x 40 mm	0955 715 2	1

1/2 inch multi-socket wrench assortment

23 pieces. One tool for all jobs: Multi-socket wrench for 5 different drives.

- Supplied in a metal box and a high-quality foam insert with clamping effect
- Multi-profile suitable for the five most common screw head drives
- Extremely high-quality multi-socket wrenches guarantee long service lives
- Surface: Chrome-plated, polished
- Drive: 1/2-inch square socket
- Tip: Bi-hexagon, multi-profile
- Version: Short



Number of pieces in assortment/set	23 PCS
Included in delivery (Lieferumfang)	19 x multi-socket wrenches, 1/2 inch, short, sizes 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 32, 1 x reversible ratchet, 1/2 inch, 2 x extensions 1/2 inch, 125 mm, 250 mm, 1 x cardan joint, 1/2 inch

Art. no. 0965 13 023

P. Qty.: 1

Contents for art. no. 0965 13 023		
Designation	Art. no.	Quantity
1/2 inch ratchet	0712 012 0	1
1/2" multi-socket wrench 10 mm	0712 134 10	1
1/2" multi-socket wrench 11 mm	0712 134 11	1
1/2" multi-socket wrench 12 mm	0712 134 12	1
1/2" multi-socket wrench 13 mm	0712 134 13	1
1/2" multi-socket wrench 14 mm	0712 134 14	1
1/2" multi-socket wrench 15 mm	0712 134 15	1
1/2" multi-socket wrench 16 mm	0712 134 16	1
1/2" multi-socket wrench 17 mm	0712 134 17	1
1/2" multi-socket wrench 18 mm	0712 134 18	1
1/2" multi-socket wrench 19 mm	0712 134 19	1
1/2" multi-socket wrench 20 mm	0712 134 20	1

Continuation 1/2 inch multi-socket wrench assortment

Designation	Art. no.	Quantity
1/2" multi-socket wrench 21 mm	0712 134 21	1
1/2" multi-socket wrench 22 mm	0712 134 22	1
1/2" multi-socket wrench 24 mm	0712 134 24	1
1/2" multi-socket wrench 26 mm	0712 134 26	1
1/2" multi-socket wrench 27 mm	0712 134 27	1
1/2" multi-socket wrench 28 mm	0712 134 28	1
1/2" multi-socket wrench 30 mm	0712 134 30	1
1/2" multi-socket wrench 32 mm	0712 134 32	1
1/2 inch extension Length 125 mm	0712 138 105	1
1/2 inch extension Length 250 mm	0712 138 110	1
1/2 inch cardan joint	0712 138 301	1
Hard foam insert for 1/2 inch socket wrench assortment	0955 13 230	1
Metal box	0955 715 3	1

1/4 inch lever reversible ratchet, dust-protected

Dust-protected ratchet ensuring durability, even under difficult working conditions.

- Drive: 6.3 – 1/4 inch
- Standard: DIN 3122, ISO 3315
- Reversing lever for clockwise and anti-clockwise rotation
- Geometry: Ratchet body with depressed centre for more freedom of movement



Tip size	1/4 inch
Length (L1)	136 mm
Length 2 (L2)	125 mm
Length 3 (L3)	61 mm
Width (B1)	13 mm
Width 2 (B2)	22 mm
Diameter (D1)	16 mm
Diameter 2 (D2)	21 mm
Material	Chrome-vanadium steel
Material of the grip handle	2-component plastic
Design	With 72 teeth - 5 degree angle of rotation
Surface	Chromed high-gloss satin finish
IP protection class	IP 5X

Art. no. 0712 014 03

P. Qty.: 1

1/4 inch ratchet

Rotary disc reverse

- Compact, narrow head
- Simple changeover from clockwise to anticlockwise rotation
- Chamfered square - easier removal of socket wrench inserts
- Offset ratchet body for more hand clearance
- Fine tooth rotary disc with 72 teeth; 5° angle of rotation
- Length 135 mm
- Chrome-plated, 2-component handle
- DIN 3122, ISO 3315



Tip size	1/4 inch
Length (L1)	138 mm
Ratchet diameter (D2)	24 mm
Material of the grip handle	2-component plastic
Surface	Chrome plated

Art. no. 0712 014 0

P. Qty.: 1

1/4 inch ratchet

Lever reverse

- Robust ratchet with convenient ejector
- Fast, simple changeover from clockwise to anticlockwise rotation
- Safety catch with rapid ejection
- Lowered, protected reverse lever and offset ratchet body for more hand freedom
- Coarse toothing with 48 teeth – 7.5° angle of rotation
- Length 135 mm
- Chrome-plated, 2-component handle



Tip size	1/4 inch
Length (L1)	135 mm
Material	Steel
Material of the grip handle	2-component plastic
Design	With 48 teeth
Surface	Chrome plated



red dot design award
honourable mention 2011

Art. no. 0712 014 01

P. Qty.: 1

DIN 3122, ISO 3315

1/4 inch bit ratchet

- Tip: For 1/4 inch hexagon head drive in accordance with DIN 3126-C 6.3 and E 6.3
- Head: Extremely compact ratchet head, fine tooth, 64 teeth
- Surface: Chrome-plated
- 2-component handle, extremely slim design, angled down 10°
- Very rugged design, max. torque of up to 40 Nm

Tip size	C 6.3 (1/4 inch)
Ratchet head height	10 mm
Length	100 mm



Art. no. 0712 014 5

P. Qty.: 1/10

1/4 inch ratchet

Lever reverse

Robust bit ratchet with convenient ejector!

Coarse toothing with 48 teeth – 7.5° angle of rotation

- Fast, simple changeover from clockwise to anti-clockwise rotation using lever
- Lowered, protected reversing lever and ratchet body with depressed centre for more hand freedom
- Low overall height compared to conventional ratchets

Tip size	1/4 inch
Ratchet head height	20 mm
Length	135 mm



Art. no. 0712 014 02

P. Qty.: 1



red dot design award
honourable mention 2011



1/4-inch cardan joint

With braked joint to hold the set position

- Surface: Chromium-plated, polished
- Drive: 1/4 inch square drive, ball catch groove

Drive (S2)	1/4 inch
Socket wrench external diameter (D1)	14 mm



Tip size (S1)	1/4 inch
Length (L1)	33 mm
Surface	Chrome plated



Art. no. 0713 118 301

P. Qty.: 1/20

1/4 inch extension

- Surface: Chrome-plated, polished
- Drive: 1/4 inch square drive, ball catch groove

Drive (S2)	1/4 inch
Drive type	Internal square
Tip size (S1)	1/4 inch
Tip type	Outer square



Length (L)	Art. no.	P. Qty.
25 mm	0713 118 101	1/20
53 mm	0713 118 102	1/20
100 mm	0713 118 104	1/20
152 mm	0713 118 106	1/10
250 mm	0713 118 110	1/10

1/4 inch bit adapter

Quick-change chuck

Drive: 1/4 inch square drive, DIN 3121

For use with ratchet or square drive

Output: 1/4 inch hexagon socket, DIN 3126

Drive (S2)	1/4 inch
Drive type	Internal square
Tip size (S1)	1/4 inch
Tip type	Hexagon socket
Length (L1)	30 mm



Art. no. 0715 11 01

P. Qty.: 1

1/4" connector

- Surface: Chrome-plated, polished
- Drive: 1/4" square socket
- Tip: 3/8 inch square head



Tip size (S1)	3/8 inch
Drive (S2)	1/4 inch
Material	Steel
Surface	Chrome plated
Socket wrench external diameter (D1)	12.5 mm
Length (L1)	24 mm



Art. no. 0713 118 401

P. Qty.: 1/20

1/4 inch socket wrench insert, metric

Short

- Surface: Chrome-plated, polished
- Drive: 1/4 inch square socket, ball catch groove
- Tip: For hexagon head



Drive	1/4 inch
Drive type	Internal square
Length (L1)	22 mm
Tip type	For outer hexagon
Design	Short
Surface	Chrome plated

Width across flats	Socket wrench depth (t)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
4 mm	5 mm	6.8 mm	11.9 mm	0713 111 104	1/10
5 mm	5 mm	8.1 mm	11.9 mm	0713 111 105	1/10
5.5 mm	5.5 mm	8.7 mm	11.9 mm	0713 111 155	1/10
6 mm	6 mm	9.3 mm	11.9 mm	0713 111 106	1/10
6.3 mm	6 mm	9.8 mm	11.9 mm	0713 111 163	1/10
7 mm	6 mm	10.8 mm	11.9 mm	0713 111 107	1/10
8 mm	7 mm	11.9 mm	11.9 mm	0713 111 108	1/10
9 mm	7 mm	13.4 mm	13.4 mm	0713 111 109	1/10
10 mm	10 mm	14.5 mm	14.5 mm	0713 111 110	1/10
11 mm	10 mm	15.9 mm	15.9 mm	0713 111 111	1/10
12 mm	10 mm	16.9 mm	16.9 mm	0713 111 112	1/10
13 mm	11 mm	18 mm	18 mm	0713 111 113	1/10
14 mm	11 mm	19.6 mm	19.6 mm	0713 111 114	1/10

1/4" socket wrench insert, inch

Short

- Surface: Chrome-plated, polished
- Drive: 1/4" square socket, ball catch groove
- Tip: For hexagon head



Drive	1/4 inch
Drive type	Internal square
Length (L1)	22 mm
Tip type	For outer hexagon
Design	Short
Surface	Chrome plated

POWERDRIV



Width across flats	Socket wrench depth (t)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
1/2 inch	11 mm	17.6 mm	17.6 mm	0713 111 210	1/10
1/4 inch	6 mm	9.9 mm	11.9 mm	0713 111 204	1/10
3/8 inch	10 mm	14.5 mm	14.5 mm	0713 111 208	1/10
3/16 inch	5 mm	7.9 mm	11.9 mm	0713 111 202	1/10
5/16 inch	7 mm	11.9 mm	11.9 mm	0713 111 206	1/10
5/32 inch	5 mm	6.8 mm	11.9 mm	0713 111 201	1/10
7/16 inch	10 mm	15.9 mm	15.9 mm	0713 111 209	1/10
7/32 inch	5.5 mm	8.9 mm	11.9 mm	0713 111 203	1/10
9/16 inch	11 mm	19.6 mm	19.6 mm	0713 111 211	1/10
9/32 inch	6 mm	11 mm	11.9 mm	0713 111 205	1/10
11/32 inch	7 mm	13 mm	13 mm	0713 111 207	1/10

1/4" socket wrench insert

Metric, long

- Surface: Chrome-plated, polished
- Drive: 1/4" square socket, ball catch groove
- Tip: For hexagon head



Drive	1/4 inch
Drive type	Internal square
Length (L1)	50 mm
Tip type	For outer hexagon
Design	Long
Surface	Chrome plated

POWERDRIV



Width across flats	Socket wrench depth (t)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
1/4 inch	13 mm	9.3 mm	11.9 mm	0713 112 106	1/10
4 mm	7 mm	4.8 mm	11.9 mm	0713 112 104	1/10
5 mm	9 mm	8.1 mm	11.9 mm	0713 112 105	1/10
5.5 mm	9 mm	8.7 mm	11.9 mm	0713 112 155	1/10
7 mm	16 mm	10.8 mm	11.9 mm	0713 112 107	1/10
8 mm	16 mm	11.9 mm	11.9 mm	0713 112 108	1/10
9 mm	16 mm	13.4 mm	13.4 mm	0713 112 109	1/10
10 mm	21 mm	14.5 mm	14.5 mm	0713 112 110	1/10

Continuation 1/4" socket wrench insert

Width across flats	Socket wrench depth (t)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
11 mm	21 mm	15.9 mm	15.9 mm	0713 112 111	1/10
12 mm	21 mm	16.9 mm	16.9 mm	0713 112 112	1/10
13 mm	21 mm	18 mm	18 mm	0713 112 113	1/10
14 mm	21 mm	19.6 mm	19.6 mm	0713 112 114	1/10

1/4" socket wrench insert

With magnet, metric

- Surface: Chrome-plated, polished
- Drive: 1/4" square socket, ball catch groove
- Tip: For hexagon head, inner bore for protruding threaded shanks



POWERDRIV



Drive	1/4 inch
Drive type	Internal square
Length (L1)	22 mm
Tip type	For outer hexagon
Socket wrench depth (t)	8.1 mm
Design	With magnet
Surface	Chrome plated

Width across flats	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
8 mm	11.9 mm	5 mm	0714 111 808	1
10 mm	14.6 mm	6.1 mm	0714 111 810	1
13 mm	17.6 mm	8.1 mm	0714 111 813	1

1/4-inch socket wrench insert, TX head

For TX head screws

- Surface: chrome-plated
- Drive: 1/4" square socket, ball catch groove
- Tip: For TX head screws



Drive	1/4 inch
Drive type	Internal square
Tip type	For outer TX



Tip size	Length (L1)	Socket wrench depth (t)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
E4	22 mm		5.4 mm	12 mm	0715 112 04	1/10
E4	25 mm	3.56 mm	6.2 mm	11.9 mm	0715 112 104	10
E5	22 mm		6.7 mm	12 mm	0715 112 05	1/10
E5	25 mm	4.19 mm	6.9 mm	11.9 mm	0715 112 105	10

Tip size	Length (L1)	Socket wrench depth (t)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
E6	22 mm		7.7 mm	12 mm	0715 112 06	1/10
E6	25 mm	4.32 mm	7.9 mm	11.9 mm	0715 112 106	10
E7	22 mm		8.3 mm	12 mm	0715 112 07	1/10
E7	25 mm	5.59 mm	8.8 mm	11.9 mm	0715 112 107	10
E8	22 mm		9.6 mm	12 mm	0715 112 08	1/10
E8	25 mm	5.97 mm	9.9 mm	11.9 mm	0715 112 108	10
E10	22 mm		11.3 mm	12 mm	0715 112 10	1/10
E11	22 mm		12 mm	12 mm	0715 112 11	1/10

1/4-inch socket wrench insert

For TX screws

- Surface: chrome-plated
- Drive: 1/4" square socket, ball catch groove
- Tip: For TX screws



Drive	1/4 inch
Drive type	Internal square
Tip type	TX



Thickness of cutting edge x width of cutting edge	Tip size	Length (L1)	Socket wrench depth (t)	Socket wrench external diameter (D1)	Art. no.	P. Qty.
	TX8	32 mm			0715 113 08	1/10
	TX9	32 mm			0715 113 09	1/10
	TX10	32 mm			0715 113 10	1/10
	TX15	32 mm			0715 113 15	1/10
	TX20	32 mm			0715 113 20	1/10
	TX25	32 mm			0715 113 25	1/10
	TX27	32 mm			0715 113 27	1/10
	TX30	32 mm			0715 113 30	1/10
	TX40	32 mm			0715 113 40	1/10
0 x 0 mm	TX6	37 mm	0 mm	12 mm	0715 113 506	10
0 x 0 mm	TX8	37 mm	0 mm	12 mm	0715 113 508	10
0 x 0 mm	TX10	37 mm	0 mm	12 mm	0715 113 510	10
0 x 0 mm	TX15	37 mm	0 mm	12 mm	0715 113 515	10
0 x 0 mm	TX20	37 mm	0 mm	12 mm	0715 113 520	10
0 x 0 mm	TX25	37 mm	0 mm	12 mm	0715 113 525	10
0 x 0 mm	TX27	37 mm	0 mm	12 mm	0715 113 527	10
0 x 0 mm	TX30	37 mm	0 mm	12 mm	0715 113 530	10

1/4" socket wrench insert

For hexagon socket, metric

- Surface: Chrome-plated, polished/matt
- Drive: 1/4 inch square drive, ball catch groove
- Output: For hexagon socket, DIN 7422



Drive	1/4 inch
Drive type	Internal square
Length (L1)	32 mm
Tip type	For hexagon socket
Socket wrench external diameter (D1)	12 mm
Blade length (L2)	12 mm
Surface	Chrome plated

Tip size	Width across flats	Art. no.	P. Qty.
3 mm	3 mm	0715 115 03	1/10
4 mm	4 mm	0715 115 04	1/10
5 mm	5 mm	0715 115 05	1/10
6 mm	6 mm	0715 115 06	1/10
7 mm	7 mm	0715 115 07	1/10
8 mm	8 mm	0715 115 08	1/10

1/4" socket wrench insert

Slotted

- Surface: Chrome-plated, polished/matt
- Drive: 1/4" square socket, ball catch groove
- Tip: DIN 5264, slotted



Drive	1/4 inch
Drive type	Internal square
Length (L1)	32 mm
Tip type	Slot
Socket wrench external diameter (D1)	12 mm
Blade length (L2)	12 mm
Surface	Chrome plated



Thickness of cutting edge x width of cutting edge	Art. no.	P. Qty.
0.6 x 3.5 mm	0715 117 35	1/10
1 x 5.5 mm	0715 117 55	1/10
1.2 x 6.5 mm	0715 117 65	1/10
1.2 x 8 mm	0715 117 80	1/10

1/4" socket wrench insert

PH

- Surface: Chrome-plated, polished/matt
- Drive: 1/4" square socket, ball catch groove
- Tip: ISO 8764-PH



Drive	1/4 inch
Drive type	Internal square
Length (L1)	32 mm
Tip type	PH
Socket wrench external diameter (D1)	12 mm
Blade length (L2)	12 mm
Surface	Chrome plated

Tip size	Art. no.	P. Qty.
PH1	0715 118 01	1/10
PH2	0715 118 02	1/10
PH3	0715 118 03	1/10

Bit holder

100 mm

Sleeve and snap ring



Drive type	Outer hexagon
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Drive	Tip size	Tip type	Length (L)	Art. no.	P. Qty.
	1/4 inch	Hexagon socket	51 mm	0614 176 697	1
C 6.3 (1/4 inch)	C 6.3 (1/4 inch)	For outer hexagon	100 mm	0613 715	1

1/4 inch socket wrench assortment, dust-protected

Dust-protected ratchet for a long service life even under difficult working conditions. With lever reverse.

Comprehensive 1/4 inch assortment for universal application

- Contents: 34 pieces
- Hex socket wrench inserts
- Hard foam with clamping effect, art. no. 095501434
- Metal box 220 x 110 x 35 mm, size 1, art. no. 09557151



Number of pieces in assortment/set	34 PCS
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Art. no. 0965 014 340

P. Qty.: 1



Continuation **1/4 inch socket wrench assortment, dust-protected**

Contents for art. no. 0965 014 340		
Designation	Art. no.	Quantity
1/4 inch lever reversible ratchet, dust-protected	0712 014 03	1
1/4 inch socket wrench insert, metric 4 mm; Length 22 mm	0713 111 104	1
1/4 inch socket wrench insert, metric 5 mm; Length 22 mm	0713 111 105	1
1/4 inch socket wrench insert, metric 5.5 mm; Length 22 mm	0713 111 155	1
1/4 inch socket wrench insert, metric 6 mm; Length 22 mm	0713 111 106	1
1/4 inch socket wrench insert, metric 7 mm; Length 22 mm	0713 111 107	1
1/4 inch socket wrench insert, metric 8 mm; Length 22 mm	0713 111 108	1
1/4 inch socket wrench insert, metric 9 mm; Length 22 mm	0713 111 109	1
1/4 inch socket wrench insert, metric 10 mm; Length 22 mm	0713 111 110	1
1/4 inch socket wrench insert, metric 11 mm; Length 22 mm	0713 111 111	1
1/4 inch socket wrench insert, metric 12 mm; Length 22 mm	0713 111 112	1
1/4 inch socket wrench insert, metric 13 mm; Length 22 mm	0713 111 113	1
1/4 inch socket wrench insert, metric 14 mm; Length 22 mm	0713 111 114	1
1/4-inch angled extension Length 25 mm	0713 118 100	1
1/4 inch extension Length 152 mm	0713 118 106	1
1/4-inch cardan joint Tip type Outer square	0713 118 301	1
1/4 inch bit adapter Length 30 mm	0715 11 01	1
1/4 inch adapter, flexible Length 150 mm	0715 11 05	1
1/4 inch screwdriver Blade length 110 mm	0613 430 310	1
Slotted bit 0.8 x 5.5 mm; Length 25 mm	0614 175 653	1
Phillips bit PH1; Length 25 mm	0614 176 274	1
Phillips bit PH2; Length 25 mm	0614 176 461	1
Phillips bit PH3; Length 25 mm	0614 176 648	1
Hexagon socket bit 3 mm; Length 25 mm	0614 176 93	1
Hexagon socket bit 4 mm; Length 25 mm	0614 176 94	1
Hexagon socket bit 5 mm; Length 25 mm	0614 176 95	1
Hexagon socket bit 6 mm; Length 25 mm	0614 176 96	1
TX bit TX10; Length 25 mm	0614 311 0	1
TX bit 15	0614 311 5	1
TX bit TX20; Length 25 mm	0614 312 0	1
TX bit TX25; Length 25 mm	0614 312 5	1
TX bit 27	0614 312 7	1
TX bit TX30; Length 25 mm	0614 313 0	1
TX bit TX40; Length 25 mm	0614 314 0	1

1/4 inch socket wrench assortment

32 pieces Comprehensive 1/4 inch assortment for universal application with lever reverse.

Number of pieces in assortment/set	32 PCS
Width x height x depth	220 x 110 x 35 mm



Art. no. 0965 014 32

P. Qty.: 1



Contents for art. no. 0965 014 32		
Designation	Art. no.	Quantity
1/4 inch screwdriver	0613 430 310	1
1/4 inch ratchet	0712 014 01	1
1/4 inch socket wrench insert, metric 4 mm	0713 111 104	1
1/4 inch socket wrench insert, metric 5 mm	0713 111 105	1
1/4 inch socket wrench insert, metric 6 mm	0713 111 106	1
1/4 inch socket wrench insert, metric 7 mm	0713 111 107	1
1/4 inch socket wrench insert, metric 8 mm	0713 111 108	1
1/4 inch socket wrench insert, metric 9 mm	0713 111 109	1
1/4 inch socket wrench insert, metric 10 mm	0713 111 110	1
1/4 inch socket wrench insert, metric 11 mm	0713 111 111	1
1/4 inch socket wrench insert, metric 12 mm	0713 111 112	1
1/4 inch socket wrench insert, metric 13 mm	0713 111 113	1
1/4 inch socket wrench insert, metric 14 mm	0713 111 114	1
1/4 inch socket wrench insert, metric 5.5 mm	0713 111 155	1
1/4-inch angled extension	0713 118 100	1
1/4 inch extension Length 152 mm	0713 118 106	1
1/4" extension Length 150 mm	0713 118 116	1
1/4-inch cardan joint Tip type Outer square	0713 118 301	1
1/4-inch socket wrench insert TX10	0715 113 10	1
1/4-inch socket wrench insert TX15	0715 113 15	1
1/4-inch socket wrench insert TX20	0715 113 20	1
1/4-inch socket wrench insert TX25	0715 113 25	1
1/4-inch socket wrench insert TX27	0715 113 27	1
1/4-inch socket wrench insert TX30	0715 113 30	1
1/4-inch socket wrench insert TX40	0715 113 40	1
1/4" socket wrench insert 4 mm	0715 115 04	1
1/4" socket wrench insert 5 mm	0715 115 05	1
1/4" socket wrench insert 6 mm	0715 115 06	1
1/4" socket wrench insert 1.0 x 5.5 mm	0715 117 55	1
1/4" socket wrench insert PH1	0715 118 01	1
1/4" socket wrench insert PH2	0715 118 02	1
1/4" socket wrench insert PH3	0715 118 03	1
Rigid foam		1
Metal box	0955 715 1	1

1/4 inch socket wrench assortment

One set for almost any job, 34 pcs. The multiple profile is suitable for the five most common screw head drives (hexagon metric, square metric, bi-hex metric, hexagon inch, TX head).

Contents: 34 pcs.

- 1 lever ratchet
- 1 25 mm angled extension
- 1 150 mm extension
- 1 150 mm flexible extension
- 1 cardan joint
- 1 1/4 inch screwdriver handle
- 1 adapter with quick-change chuck
- 12 socket wrench inserts, sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14
- 3 PH bits, PH 1, PH 2, PH 3
- 4 bits for hexagon socket, 3, 4, 5, 6 mm
- 7 TX bits, TX 10, 15, 20, 25, 27, 30, 40
- 1 slotted bit, 0.8 x 5.5



reddot design award
honourable mention 2011



Number of pieces in assortment/set	34 PCS
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Art. no. 0965 014 34

P. Qty.: 1

Contents for art. no. 0965 014 34

Designation	Art. no.	Quantity
1/4 inch screwdriver	0613 430 310	1
Slotted bit	0614 175 653	1
Phillips bit PH1	0614 176 274	1
Phillips bit PH2	0614 176 461	1
Phillips bit PH3	0614 176 648	1
Hexagon socket bit 3 mm	0614 176 93	1
Hexagon socket bit 4 mm	0614 176 94	1
Hexagon socket bit 5 mm	0614 176 95	1
Hexagon socket bit 6 mm	0614 176 96	1
TX bit TX10	0614 311 0	1
TX bit TX15	0614 311 5	1
TX bit TX20	0614 312 0	1
TX bit TX25	0614 312 5	1
TX bit TX27	0614 312 7	1
TX bit TX30	0614 313 0	1
TX bit TX40	0614 314 0	1
1/4 inch ratchet	0712 014 01	1
1/4" multi-socket wrench insert 4 mm	0713 113 04	1
1/4" multi-socket wrench insert 5 mm	0713 113 05	1
1/4" multi-socket wrench insert 5.5 mm	0713 113 055	1
1/4" multi-socket wrench insert 6 mm	0713 113 06	1
1/4" multi-socket wrench insert 7 mm	0713 113 07	1

Designation	Art. no.	Quantity
1/4" multi-socket wrench insert 8 mm	0713 113 08	1
1/4" multi-socket wrench insert 9 mm	0713 113 09	1
1/4" multi-socket wrench insert 10 mm	0713 113 10	1
1/4" multi-socket wrench insert 11 mm	0713 113 11	1
1/4" multi-socket wrench insert 12 mm	0713 113 12	1
1/4" multi-socket wrench insert 13 mm	0713 113 13	1
1/4" multi-socket wrench insert 14 mm	0713 113 14	1
1/4-inch angled extension	0713 118 100	1
1/4 inch extension	0713 118 106	1
1/4-inch cardan joint	0713 118 301	1
1/4 inch bit adapter	0715 11 01	1
1/4 inch adapter, flexible	0715 11 05	1
Rigid foam		1
Metal box	0955 715 1	1

1/4 inch socket wrench assortment

Multi-functional ball-head ratchet with variable handle and essential socket wrenches, 27 pieces

Contents: 27 pieces

- Ball-head ratchet
- 2 extensions:
50, 150 mm
- Cardan joint
- 9 socket wrench inserts:
6; 7; 8; 9; 10; 11; 12; 13; 14
- 3 PH socket wrench inserts:
PH 1; PH 2; PH 3
- 3 socket wrench inserts for hexagon socket:
4; 5; 6 mm
- 7 TX socket wrench inserts:
TX 10, 15, 20, 25, 27, 30, 40
- 1 slotted socket wrench insert:
1.0 x 5.5



Number of pieces in assortment/set	27 PCS
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Art. no. 0965 014 27

P. Qty.: 1

Contents for art. no. 0965 014 27		
Designation	Art. no.	Quantity
1/4 inch ball-head ratchet	0712 014 05	1
1/4 inch socket wrench insert, metric 6 mm	0713 111 106	1
1/4 inch socket wrench insert, metric 7 mm	0713 111 107	1
1/4 inch socket wrench insert, metric 8 mm	0713 111 108	1
1/4 inch socket wrench insert, metric 9 mm	0713 111 109	1
1/4 inch socket wrench insert, metric 10 mm	0713 111 110	1

Continuation 1/4 inch socket wrench assortment

Designation	Art. no.	Quantity
1/4 inch socket wrench insert, metric 11 mm	0713 111 111	1
1/4 inch socket wrench insert, metric 12 mm	0713 111 112	1
1/4 inch socket wrench insert, metric 13 mm	0713 111 113	1
1/4 inch socket wrench insert, metric 14 mm	0713 111 114	1
1/4 inch extension Length 53 mm	0713 118 102	1
1/4 inch extension Length 152 mm	0713 118 106	1
1/4-inch cardan joint	0713 118 301	1
1/4-inch socket wrench insert TX10	0715 113 10	1
1/4-inch socket wrench insert TX15	0715 113 15	1
1/4-inch socket wrench insert TX20	0715 113 20	1
1/4-inch socket wrench insert TX25	0715 113 25	1
1/4-inch socket wrench insert TX27	0715 113 27	1
1/4-inch socket wrench insert TX30	0715 113 30	1
1/4-inch socket wrench insert TX40	0715 113 40	1
1/4" socket wrench insert 4 mm	0715 115 04	1
1/4" socket wrench insert 5 mm	0715 115 05	1
1/4" socket wrench insert 6 mm	0715 115 06	1
1/4" socket wrench insert 1.0 x 5.5 mm	0715 117 55	1
1/4" socket wrench insert PH1	0715 118 01	1
1/4" socket wrench insert PH2	0715 118 02	1
1/4" socket wrench insert PH3	0715 118 03	1
Foam insert		1
Metal box	0955 715 1	1

1/4 inch socket wrench assortment

42 pcs

Contents: 42 pcs

- 1 ratchet
- 1 cardan joint
- 1 100 mm extension
- 1 150 mm extension
- 1 1/4 inch drive handle
- 1 adapter with quick-change chuck
- 12 socket wrench inserts, short version, sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
- 9 socket wrench inserts, long version, sizes 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
- 3 PH bits, PH 1, 2, 3
- 1 slotted bit, 0.8 x 5.5 mm
- 4 bits for hexagon socket, sizes 3, 4, 5, 6 mm
- 7 TX bits, TX 10, 15, 20, 25, 27, 30, 40



Number of pieces in assortment/set	42 PCS
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Art. no. 0965 11 42

P. Qty.: 1

Contents for art. no. 0965 11 42

Designation	Art. no.	Quantity
1/4 inch screwdriver Blade length 110 mm	0613 430 310	1
Slotted bit 0.8 x 5.5 mm; Length 25 mm	0614 175 653	1
Phillips bit PH1; Length 25 mm	0614 176 274	1
Phillips bit PH2; Length 25 mm	0614 176 461	1
Phillips bit PH3; Length 25 mm	0614 176 648	1
Hexagon socket bit 3 mm; Length 25 mm	0614 176 93	1
Hexagon socket bit 4 mm; Length 25 mm	0614 176 94	1
Hexagon socket bit 5 mm; Length 25 mm	0614 176 95	1
Hexagon socket bit 6 mm; Length 25 mm	0614 176 96	1
TX bit TX10; Length 25 mm	0614 311 0	1
TX bit TX15; Length 25 mm	0614 311 5	1
TX bit TX20; Length 25 mm	0614 312 0	1
TX bit TX25; Length 25 mm	0614 312 5	1
TX bit 27	0614 312 7	1
TX bit TX30; Length 25 mm	0614 313 0	1
TX bit TX40; Length 25 mm	0614 314 0	1
1/4 inch ratchet	0712 014 0	1
1/4 inch socket wrench insert, metric 4 mm; Length 22 mm	0713 111 104	1
1/4 inch socket wrench insert, metric 5 mm; Length 22 mm	0713 111 105	1
1/4 inch socket wrench insert, metric 5.5 mm; Length 22 mm	0713 111 155	1
1/4 inch socket wrench insert, metric 6 mm; Length 22 mm	0713 111 106	1
1/4 inch socket wrench insert, metric 7 mm; Length 22 mm	0713 111 107	1
1/4 inch socket wrench insert, metric 8 mm; Length 22 mm	0713 111 108	1
1/4 inch socket wrench insert, metric 9 mm; Length 22 mm	0713 111 109	1
1/4 inch socket wrench insert, metric 10 mm; Length 22 mm	0713 111 110	1
1/4 inch socket wrench insert, metric 11 mm; Length 22 mm	0713 111 111	1
1/4 inch socket wrench insert, metric 12 mm; Length 22 mm	0713 111 112	1
1/4 inch socket wrench insert, metric 13 mm; Length 22 mm	0713 111 113	1
1/4 inch socket wrench insert, metric 14 mm; Length 22 mm	0713 111 114	1
1/4" socket wrench insert 1/4 inch; Length 50 mm	0713 112 106	1
1/4" socket wrench insert 7 mm; Length 50 mm	0713 112 107	1
1/4" socket wrench insert 8 mm; Length 50 mm	0713 112 108	1
1/4" socket wrench insert 9 mm; Length 50 mm	0713 112 109	1
1/4" socket wrench insert 10 mm; Length 50 mm	0713 112 110	1
1/4" socket wrench insert 11 mm; Length 50 mm	0713 112 111	1
1/4" socket wrench insert 12 mm; Length 50 mm	0713 112 112	1
1/4" socket wrench insert 13 mm; Length 50 mm	0713 112 113	1
1/4" socket wrench insert 14 mm; Length 50 mm	0713 112 114	1
1/4 inch extension 100 mm	0713 118 104	1
1/4 inch extension Length 152 mm	0713 118 106	1
1/4-inch cardan joint Tip type Outer square	0713 118 301	1
1/4 inch bit adapter Length 30 mm	0715 11 01	1
Rigid foam		1
Metal box		1

1/4 inch socket wrench assortment

16 pcs

Contents: 16 pieces

- 1 ratchet
- 2 extensions
100, 150 mm
- 1 cardan joint
- 12 socket wrench inserts:
Sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14



Number of pieces in assortment/set	16 PCS
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Art. no. 0965 11 16

P. Qty.: 1

Contents for art. no. 0965 11 16

Designation	Art. no.	Quantity
1/4 inch ratchet	0712 014 0	1
1/4 inch socket wrench insert, metric 4 mm; Length 22 mm	0713 111 104	1
1/4 inch socket wrench insert, metric 5 mm; Length 22 mm	0713 111 105	1
1/4 inch socket wrench insert, metric 6 mm; Length 22 mm	0713 111 106	1
1/4 inch socket wrench insert, metric 7 mm; Length 22 mm	0713 111 107	1
1/4 inch socket wrench insert, metric 8 mm; Length 22 mm	0713 111 108	1
1/4 inch socket wrench insert, metric 9 mm; Length 22 mm	0713 111 109	1
1/4 inch socket wrench insert, metric 10 mm; Length 22 mm	0713 111 110	1
1/4 inch socket wrench insert, metric 11 mm; Length 22 mm	0713 111 111	1
1/4 inch socket wrench insert, metric 12 mm; Length 22 mm	0713 111 112	1
1/4 inch socket wrench insert, metric 13 mm	0713 111 113	1
1/4 inch socket wrench insert, metric 14 mm; Length 22 mm	0713 111 114	1
1/4 inch socket wrench insert, metric 5.5 mm; Length 22 mm	0713 111 155	1
1/4 inch extension 100 mm	0713 118 104	1
1/4 inch extension Length 152 mm	0713 118 106	1
1/4-inch cardan joint Tip type Outer square	0713 118 301	1
Hard foam insert for 1/4 inch socket wrench assortment Length x width x height=220 x 108 x 33 mm		1
Metal box Length x width x height=220 x 110 x 35 mm	0955 715 1	1

1/4 inch socket wrench assortment Hexagon

33 pieces. Very high-quality socket wrenches guarantee long service lives

- Output: Hex, short
- Design: chrome-plated, polished
- Drive: Square drive 1/4 inch

Number of pieces in assortment/set	33 PCS
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Art. no. 0965 11 32

P. Qty.: 1



Contents for art. no. 0965 11 32		
Designation	Art. no.	Quantity
1/4 inch screwdriver Blade length 110 mm	0613 430 310	1
Slotted bit 0.8 x 5.5 mm; Length 25 mm	0614 175 653	1
Phillips bit PH1; Length 25 mm	0614 176 274	1
Phillips bit PH2; Length 25 mm	0614 176 461	1
Phillips bit PH3; Length 25 mm	0614 176 648	1
Hexagon socket bit 3 mm; Length 25 mm	0614 176 93	1
Hexagon socket bit 4 mm; Length 25 mm	0614 176 94	1
Hexagon socket bit 5 mm; Length 25 mm	0614 176 95	1
Hexagon socket bit 6 mm; Length 25 mm	0614 176 96	1
TX bit TX10; Length 25 mm	0614 311 0	1
TX bit TX15	0614 311 5	1
TX bit TX20; Length 25 mm	0614 312 0	1
TX bit TX25; Length 25 mm	0614 312 5	1
TX bit TX27	0614 312 7	1
TX bit TX30; Length 25 mm	0614 313 0	1
TX bit TX40; Length 25 mm	0614 314 0	1
1/4 inch ratchet	0712 014 0	1
1/4 inch socket wrench insert, metric 4 mm; Length 22 mm	0713 111 104	1
1/4 inch socket wrench insert, metric 5 mm; Length 22 mm	0713 111 105	1
1/4 inch socket wrench insert, metric 5.5 mm; Length 22 mm	0713 111 155	1
1/4 inch socket wrench insert, metric 6 mm; Length 22 mm	0713 111 106	1
1/4 inch socket wrench insert, metric 7 mm; Length 22 mm	0713 111 107	1
1/4 inch socket wrench insert, metric 8 mm; Length 22 mm	0713 111 108	1
1/4 inch socket wrench insert, metric 9 mm; Length 22 mm	0713 111 109	1
1/4 inch socket wrench insert, metric 10 mm; Length 22 mm	0713 111 110	1
1/4 inch socket wrench insert, metric 11 mm; Length 22 mm	0713 111 111	1
1/4 inch socket wrench insert, metric 12 mm; Length 22 mm	0713 111 112	1
1/4 inch socket wrench insert, metric 13 mm	0713 111 113	1
1/4 inch socket wrench insert, metric 14 mm; Length 22 mm	0713 111 114	1
1/4 inch extension 100 mm	0713 118 104	1
1/4 inch extension Length 152 mm	0713 118 106	1
1/4-inch cardan joint Tip type Outer square	0713 118 301	1
1/4 inch bit adapter Length 30 mm	0715 11 01	1
Foam insert		1
Metal box	0955 715 1	1

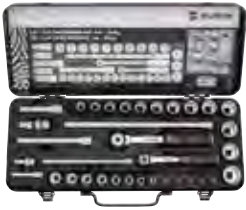
1/4 and 3/8-inch socket wrench assortment

35 pcs.

Number of pieces in assortment/set	35 PCS
Product weight (per item)	3685 g

Art. no. 0965 17 35

P. Qty.: 1



Contents for art. no. 0965 17 35

Designation	Art. no.	Quantity
1/4 inch ratchet	0712 014 0	1
Reversible ratchet 3/8 inch Length 175 mm	0712 038 0	1
1/4 inch socket wrench insert, metric 4 mm; Length 22 mm	0713 111 104	1
1/4 inch socket wrench insert, metric 5 mm; Length 22 mm	0713 111 105	1
1/4 inch socket wrench insert, metric 5.5 mm; Length 22 mm	0713 111 155	1
1/4 inch socket wrench insert, metric 6 mm; Length 22 mm	0713 111 106	1
1/4 inch socket wrench insert, metric 6.3 mm	0713 111 163	1
1/4 inch socket wrench insert, metric 7 mm; Length 22 mm	0713 111 107	1
1/4 inch socket wrench insert, metric 8 mm; Length 22 mm	0713 111 108	1
1/4 inch socket wrench insert, metric 9 mm; Length 22 mm	0713 111 109	1
1/4 inch socket wrench insert, metric 10 mm; Length 22 mm	0713 111 110	1
1/4 inch socket wrench insert, metric 11 mm; Length 22 mm	0713 111 111	1
1/4 inch socket wrench insert, metric 12 mm; Length 22 mm	0713 111 112	1
1/4 inch socket wrench insert, metric 13 mm	0713 111 113	1
1/4 inch socket wrench insert, metric 14 mm; Length 22 mm	0713 111 114	1
1/4 inch extension 53 mm	0713 118 102	1
1/4 inch extension Length 152 mm	0713 118 106	1
1/4-inch cardan joint Tip type Outer square	0713 118 301	1
3/8 inch socket wrench insert 10 mm	0713 121 110	1
3/8 inch socket wrench insert 11 mm	0713 121 111	1
3/8 inch socket wrench insert 12 mm	0713 121 112	1
3/8 inch socket wrench insert 13 mm	0713 121 113	1
3/8 inch socket wrench insert 14 mm	0713 121 114	1
3/8 inch socket wrench insert 15 mm	0713 121 115	1
3/8 inch socket wrench insert 16 mm	0713 121 116	1
3/8 inch socket wrench insert 17 mm	0713 121 117	1
3/8 inch socket wrench insert 18 mm	0713 121 118	1
3/8 inch socket wrench insert 19 mm	0713 121 119	1
3/8 inch socket wrench insert 20 mm	0713 121 120	1
3/8 inch socket wrench insert 21 mm	0713 121 121	1
3/8 inch socket wrench insert 22 mm	0713 121 122	1
3/8 inch extension 3/8 inch; Length 75 mm	0713 128 103	1
3/8 inch extension Length 125 mm	0713 128 105	1
3/8 inch extension Length 250 mm	0713 128 110	1

Designation	Art. no.	Quantity
3/8 inch cardan joint Length 55 mm	0713 128 301	1
Hard foam insert for 1/4 inch socket wrench assortment		1
Metal box	0955 715 3	1

Double ring ratchet wrench set

32 pieces. Special tool assortment for use in confined spaces.

Contents: 32 pieces

- Double-end ratchet spanner 1/4 inch – 10 mm, 200 mm
- Double-end ratchet spanner 1/4 inch – 10 mm, 110 mm
- Adapter 10 mm x 1/4 inch
- 4 bits 1/4 inch, TX: TX 15, 20, 25, 27
- 2 bits 1/4 inch, slotted: 5.5 mm, 8.0 mm
- 3 bits 1/4 inch, for hexagon socket: Size 4, 5, 6 mm
- 3 bits 1/4 inch, PH: PH 1, 2, 3
- 4 bits 10 mm, TX: TX 30, 40, 45
- 3 bits 10 mm, triple square: M 5, 6, 8
- 2 bits 10 mm, for hexagon socket: Size 7, 8 mm
- 9 socket wrench inserts 1/4 inch: Size 6, 7, 8, 9, 10, 11, 12, 13, 14 mm



Number of pieces in assortment/set	32 PCS
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Art. no. 0714 23 100

P. Qty.: 1

Contents for art. no. 0714 23 100		
Designation	Art. no.	Quantity
Slotted bit 0.8 x 5.5 mm; Length 25 mm	0614 175 653	1
Slotted bit 1.2 x 8.0 mm	0614 175 656	1
Phillips bit PH1; Length 25 mm	0614 176 274	1
Phillips bit PH2; Length 25 mm	0614 176 461	1
Phillips bit PH3; Length 25 mm	0614 176 648	1
Hexagon socket bit 4 mm; Length 25 mm	0614 176 94	1
Hexagon socket bit 5 mm; Length 25 mm	0614 176 95	1
Hexagon socket bit 6 mm; Length 25 mm	0614 176 96	1
TX bit 15; 25 mm	0614 311 5	1
TX bit TX20; Length 25 mm	0614 312 0	1
TX bit TX25; Length 25 mm	0614 312 5	1
TX bit 27; 25 mm	0614 312 7	1
Hexagon socket bit 7 mm	0614 788 307	1
Hexagon socket bit 8 mm	0614 788 308	1
Triple square bit XZN M5	0614 788 405	1
Triple square bit XZN M6	0614 788 406	1
Triple square bit XZN M8	0614 788 408	1
TX bit 30; 30 mm	0614 788 830	1
TX bit 40; 30 mm	0614 788 840	1

Continuation **Double ring ratchet wrench set**

Designation	Art. no.	Quantity
TX bit 45; 30 mm	0614 788 845	1
1/4 inch socket wrench insert, metric 6 mm; Length 22 mm	0713 111 106	1
1/4 inch socket wrench insert, metric 7 mm; Length 22 mm	0713 111 107	1
1/4 inch socket wrench insert, metric 8 mm; Length 22 mm	0713 111 108	1
1/4 inch socket wrench insert, metric 9 mm; Length 22 mm	0713 111 109	1
1/4 inch socket wrench insert, metric 10 mm; Length 22 mm	0713 111 110	1
1/4 inch socket wrench insert, metric 11 mm; Length 22 mm	0713 111 111	1
1/4 inch socket wrench insert, metric 12 mm; Length 22 mm	0713 111 112	1
1/4 inch socket wrench insert, metric 13 mm; Length 22 mm	0713 111 113	1
1/4 inch socket wrench insert, metric 14 mm; Length 22 mm	0713 111 114	1
Double-ring ratchet wrench 1/4 inch 10 mm; 200 mm	0714 23 101	1
Double-ring ratchet wrench 1/4 inch 10 mm; 110 mm	0714 23 102	1
Adapters	0715 11 02	1
Foam insert for double-end ratchet wrench set		1
Metal box	0955 715 1	1

Pass-through ratchet assortment

14 pieces. Solution for narrow spaces due to very low overall height

- Through hole, ideal for long bolts and threaded rods
- Standard socket wrench can also be used thanks to two adapters (1/4 inch and 3/8 inch)

Contents: 14 pieces

- 10 pass-through socket wrenches, sizes 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
- 1 1/4 inch adapter
- 1 3/8 inch adapter
- 1 extension
- 1 ratchet



Number of pieces in assortment/set	14 PCS
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Art. no. 0713 130 0

P. Qty.: 1

Contents for art. no. 0713 130 0		
Designation	Art. no.	Quantity
Pass-through reversible ratchet	0713 130 01	1
Pass-through ratchet extension	0713 130 02	1
1/4" pass-through ratchet adapter	0713 130 03	1
3/8" pass-through ratchet adapter	0713 130 04	1
Pass-through ratchet 10 mm	0713 130 10	1
Pass-through ratchet 11 mm	0713 130 11	1
Pass-through ratchet 12 mm	0713 130 12	1
Pass-through ratchet 13 mm	0713 130 13	1
Pass-through ratchet 14 mm	0713 130 14	1

Designation	Art. no.	Quantity
Pass-through ratchet 15 mm	0713 130 15	1
Pass-through ratchet 16 mm	0713 130 16	1
Pass-through ratchet 17 mm	0713 130 17	1
Pass-through ratchet 18 mm	0713 130 18	1
Pass-through ratchet 19 mm	0713 130 19	1
Foam insert		1
Metal box	0955 715 1	1

Pass-through ratchet assortment

36 pieces. Extensive tool assortment with pass-through socket wrench and multi profile. The multi profile is suitable for the five most common screw head drives (hexagon metric, square metric, bi-hex metric, hexagon inch, external TX).

- Solution for narrow spaces due to very low overall height
- Through hole, ideal for long bolts and threaded rods

Number of pieces in assortment/set	36 PCS
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Art. no. 0965 13 036

P. Qty.: 1

Contents for art. no. 0965 13 036		
Designation	Art. no.	Quantity
Slotted bit 0.8 x 5.5 mm; Length 25 mm	0614 175 653	1
Slotted bit 1.2 x 8.0 mm	0614 175 656	1
Phillips bit PH1; Length 25 mm	0614 176 274	1
Phillips bit PH2; Length 25 mm	0614 176 461	1
Phillips bit PH3; Length 25 mm	0614 176 648	1
Pozidriv bit PZ1	0614 176 651	1
Pozidriv bit PZ2	0614 176 652	1
Pozidriv bit PZ3	0614 176 653	1
Hexagon socket bit 3 mm; Length 25 mm	0614 176 93	1
Hexagon socket bit 4 mm; Length 25 mm	0614 176 94	1
Hexagon socket bit 5 mm; Length 25 mm	0614 176 95	1
Hexagon socket bit 6 mm; Length 25 mm	0614 176 96	1
TX bit TX10; Length 25 mm	0614 311 0	1
TX bit 15	0614 311 5	1
TX bit TX20; Length 25 mm	0614 312 0	1
TX bit TX25; Length 25 mm	0614 312 5	1
TX bit 27	0614 312 7	1
TX bit TX30; Length 25 mm	0614 313 0	1
TX bit TX40; Length 25 mm	0614 314 0	1
Pass-through reversible ratchet	0713 135 01	1
Pass-through ratchet extension POWERDRIV 76 mm	0713 135 02	1
Pass-through ratchet adapter 1/2 inch	0713 135 03	1
Pass-through ratchet adapter 3/8 inch	0713 135 04	1

Continuation **Pass-through ratchet assortment**

Designation	Art. no.	Quantity
Pass-through ratchet adapter 1/4 inch	0713 135 05	1
Pass-through ratchet 10 mm	0713 135 10	1
Pass-through ratchet 11 mm	0713 135 11	1
Pass-through ratchet 12 mm	0713 135 12	1
Pass-through ratchet 13 mm	0713 135 13	1
Pass-through ratchet 14 mm	0713 135 14	1
Pass-through ratchet 15 mm	0713 135 15	1
Pass-through ratchet 16 mm	0713 135 16	1
Pass-through ratchet 17 mm	0713 135 17	1
Pass-through ratchet 18 mm	0713 135 18	1
Pass-through ratchet 19 mm	0713 135 19	1
Pass-through ratchet 21 mm	0713 135 21	1
Pass-through ratchet 22 mm	0713 135 22	1

Reversible ratchet 3/8 inch

With rotary disc reverse

- Compact, narrow head
- Simple changeover from clockwise to anticlockwise rotation
- Chamfered square – easier removal of socket wrench inserts
- Offset ratchet body for more hand clearance
- Fine tooth rotary disc with 72 teeth; 5° angle of rotation
- Chrome-plated, 2-component handle
- DIN 3122, ISO 3315



Tip size	3/8 inch
Length (L1)	175 mm
Handle length	82 mm
Handle diameter (D1)	16 mm
Ratchet head height (B1)	19 mm
Ratchet diameter (D2)	30 mm

Art. no. 0712 038 0

P. Qty.: 1

3/8 inch ratchet with lever reverse

Robust ratchet with convenient ejector

- Coarse toothing with 48 teeth – 7.5° angle of rotation
- Fast, simple changeover from clockwise to anticlockwise rotation using lever
- Safety catch with rapid ejection
- Lowered, protected reverse lever and offset ratchet body for more hand clearance
- Length 175 mm
- Chrome-plated, 2-component handle
- DIN 3122, ISO 3315



red**dot** design award
honourable mention 2011

Tip size	3/8 inch
Length (L1)	175 mm
Material	Steel
Material of the grip handle	2-component plastic
Design	With 48 teeth
Surface	Chrome plated



Art. no. 0712 038 01

P. Qty.: 1

Tested by TÜV SÜD test: 10/2008

3/8-inch jointed-head ratchet

Swivel head rotatable by 180°

- Standard: DIN 3122, ISO 3315
- Head: 72 teeth, 5° angle of rotation
- Design: Chromium-plated



Tip size	3/8 inch
Material	Steel
Surface	Chrome plated
Material of the grip handle	2-component plastic
Length (L1)	280 mm
Handle length (L3)	86 mm
Ratchet head height (B1)	20 mm
Ratchet head height with square (B2)	31 mm
Handle diameter (D1)	21 mm
Ratchet diameter (D2)	28 mm



Art. no. 0715 12 140

P. Qty.: 1/5

3/8-inch jointed-head ratchet, extendable

Extendable to max. 373 mm using locking sleeve with locking device

- Standard: DIN 3122, ISO 3315
- Telescopic handle extendable to max. 373 mm
- Quick ejection with safety lock
- Flexible, rotatable ratchet head with locking device. 72 teeth with a rotating angle of 5°.



Tip size	3/8 inch
Material	Chrome-vanadium steel
Surface	Chromed high-gloss satin finish
Material of the grip handle	2-component plastic
Min./max. length (L1)	258-373 mm
Handle length (L3)	110 mm
Ratchet head height (B1)	13 mm
Ratchet head height with square (B2)	26.5 mm
Sleeve outside diameter (B3)	20.6 mm
Handle diameter (D1)	31 mm
Ratchet diameter (D2)	37 mm

Art. no. 0715 12 92

P. Qty.: 1

3/8 inch cardan joint

With braked joint to hold the set position

- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated
- Drive: 3/8 inch square drive, ball catch groove
- Output: 3/8 inch external square drive



Drive (S2)	3/8 inch
Socket wrench external diameter (D1)	17.5 mm
Tip size (S1)	3/8 inch
Length (L1)	55 mm
Surface	Chrome plated



Art. no. 0713 128 301

P. Qty.: 1/10

3/8" connector

- Standard: DIN 3123, ISO 3316
- Chrome-plated version
- Drive: 3/8 inch square socket
- Tip: 1/2 inch or 1/4 inch external square drive



Drive (S2)	3/8 inch
Material	Steel
Surface	Chrome plated



Tip size (S1)	Socket wrench external diameter (D1)	Length (L1)	Art. no.	P. Qty.
1/2 inch	20 mm	36 mm	0713 128 402	1/10
1/4 inch	17 mm	27 mm	0713 128 401	1/10

3/8 inch extension

- Standard: DIN 3123, ISO 3316
- Surface: chromium-plated
- Drive: 3/8 inch square socket, ball catch groove
- Tip: 3/8 inch external square drive



Drive (S2)	3/8 inch
Drive type	Internal square
Tip size (S1)	3/8 inch
Tip type	Outer square



Length (L)	Art. no.	P. Qty.
40 mm	0713 128 101	1/10
75 mm	0713 128 103	1/10
125 mm	0713 128 105	1/10
250 mm	0713 128 110	1/10

3/8 inch socket wrench insert

Metric, hexagon, short

- Standard: DIN 3124, ISO 2725
- Surface: Chrome-plated, ground/matt
- Drive: 3/8 inch square socket, ball catch groove
- Tip: For hexagon head
- POWERDRIV®



Drive	3/8 inch
Drive type	Internal square
Tip type	For outer hexagon
Design	Short
Material	Steel
Surface	Chrome plated

POWERDRIV



Width across flats	Length (L1)	Socket wrench external diameter (D1)	Socket wrench depth (t)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
6 mm	27 mm	9.4 mm	7 mm	17.7 mm	0713 121 106	1/10
7 mm	27 mm	11 mm	7 mm	17.7 mm	0713 121 107	1/10
8 mm	27 mm	12.2 mm	8 mm	17.7 mm	0713 121 108	1/10

Continuation **3/8 inch socket wrench insert**

Width across flats	Length (L1)	Socket wrench external diameter (D1)	Socket wrench depth (t)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
9 mm	27 mm	13.5 mm	9 mm	17.7 mm	0713 121 109	1/10
10 mm	27 mm	14.7 mm	9 mm	17.7 mm	0713 121 110	1/10
11 mm	27 mm	16 mm	10 mm	17.7 mm	0713 121 111	1/10
12 mm	27 mm	17.2 mm	11 mm	17.7 mm	0713 121 112	1/10
13 mm	30 mm	18.5 mm	11 mm	17.7 mm	0713 121 113	1/10
14 mm	30 mm	19.7 mm	13 mm	18 mm	0713 121 114	1/10
15 mm	30 mm	21 mm	13 mm	19 mm	0713 121 115	1/10
16 mm	30 mm	22.2 mm	13 mm	20 mm	0713 121 116	1/10
17 mm	30 mm	23.5 mm	13 mm	21 mm	0713 121 117	1/10
18 mm	33 mm	24.7 mm	14 mm	21.5 mm	0713 121 118	1/10
19 mm	33 mm	26 mm	14 mm	22.5 mm	0713 121 119	1/10
20 mm	33 mm	27.2 mm	14 mm	23.5 mm	0713 121 120	1/10
21 mm	33 mm	28.5 mm	14 mm	25 mm	0713 121 121	1/10
22 mm	33 mm	29.7 mm	16 mm	26 mm	0713 121 122	1/10

3/8" socket wrench insert

Metric, hexagon, short

- Surface: Chrome-plated, polished/matt
- Drive: 3/8" square socket, ball catch groove
- Tip: For hexagon socket, DIN 7422



Drive	3/8 inch
Drive type	Internal square
Tip type	For hexagon socket
Design	Short
Length (L1)	50.5 mm
Blade length (L2)	20.5 mm
Socket wrench external diameter (D1)	19 mm
Material	Steel
Surface	Chrome plated



Width across flats	Tip length (L3)	Tip size	Art. no.	P. Qty.
3 mm	11 mm	3 mm	0715 127 03	1/10
4 mm	11 mm	4 mm	0715 127 04	1/10
5 mm	11 mm	5 mm	0715 127 05	1/10
6 mm	11 mm	6 mm	0715 127 06	1/10
7 mm	10.5 mm	7 mm	0715 127 07	1/10
8 mm		8 mm	0715 127 08	1/10
9 mm	13.5 mm	9 mm	0715 127 09	1/10
10 mm		10 mm	0715 127 10	1/10

3/8" socket wrench insert, metric

Long

- Surface: Chrome-plated, polished/matt
- Drive: 3/8" square socket, ball catch groove
- Tip: For hexagon head
- POWERDRIV®



POWERDRIV



Drive	3/8 inch
Drive type	Internal square
Tip type	For outer hexagon
Design	Long
Length (L1)	64 mm
Material	Steel
Surface	Chrome plated

Width across flats	Socket wrench external diameter (D1)	Socket wrench depth (t)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
7 mm	10.9 mm	13 mm	16.7 mm	0713 122 107	1/10
8 mm	11.8 mm	15 mm	16.7 mm	0713 122 108	1/10
9 mm	13.4 mm	16 mm	16.7 mm	0713 122 109	1/10
10 mm	14.6 mm	25.5 mm	16.7 mm	0713 122 110	1/10
11 mm	15.9 mm	25.5 mm	16.7 mm	0713 122 111	1/10
12 mm	16.7 mm	25.5 mm	16.7 mm	0713 122 112	1/10
13 mm	18.2 mm	25.5 mm	18.2 mm	0713 122 113	1/10
14 mm	19.5 mm	25.5 mm	19.5 mm	0713 122 114	1/10
15 mm	20.7 mm	25.5 mm	20.7 mm	0713 122 115	1/10
16 mm	21.7 mm	25.5 mm	21.7 mm	0713 122 116	1/10
17 mm	23.3 mm	25.5 mm	23.3 mm	0713 122 117	1/10
18 mm	23.8 mm	25.5 mm	23.8 mm	0713 122 118	1/10
19 mm	25.4 mm	25.5 mm	23.5 mm	0713 122 119	1/10
20 mm	27.1 mm	25.5 mm	25.5 mm	0713 122 120	1/10
21 mm	27.8 mm	25.5 mm	26 mm	0713 122 121	1/10
22 mm	29.6 mm	25.5 mm	27 mm	0713 122 122	1/10

3/8" cardan joint insert

Short

- Surface: Chrome-plated, polished
- Drive: 3/8" square socket, ball catch groove
- Tip: For hexagon head, metric
- POWERDRIV®



POWERDRIV



Drive (S2)	3/8 inch
Socket wrench external diameter 2 (D2)	19 mm
Surface	Chrome plated

Continuation 3/8" cardan joint insert

Width across flats	Socket wrench external diameter (D1)	Length (L1)	Art. no.	P. Qty.
10 mm	14.5 mm	48.5 mm	0713 121 10	1/10
11 mm	15.8 mm	49.5 mm	0713 121 11	1/10
12 mm	17 mm	50 mm	0713 121 12	1/10
13 mm	18.3 mm	51 mm	0713 121 13	1/10
14 mm	19.3 mm	51 mm	0713 121 14	1/10
15 mm	20.8 mm	53.5 mm	0713 121 15	1/10
16 mm	22 mm	53.5 mm	0713 121 16	1/10
17 mm	23.3 mm	54.5 mm	0713 121 17	10
18 mm	24.5 mm	54.5 mm	0713 121 18	1/10
19 mm	25.8 mm	56.5 mm	0713 121 19	1/10
20.8/21 mm	28.3 mm	59 mm	0713 121 21	1/10

Universal socket

For loosening and tightening screws and nuts

- Universal application as socket wrench insert size 7 to size 19 (1/2 inch) and size 13 to 32 (3/8 inch)
- Replaces hexagon wrenches, hexagon wrench heads and open-end spanners.
- Enormous time and space savings. Holds square and hexagon heads, TX profiles, wing nuts, hook bolts and eye screws securely with its 54 spring-loaded special pins.



Drive	3/8 inch
Drive type	Internal square
Suitable for width across flats	7-19 mm
Length (L1)	53.5 mm
Max. torque	225 Nm
Material	Steel
Surface	Chrome plated

Art. no. 0714 121 907

P. Qty.: 1



Attention: This is a universal tool may only be stressed only at the maximum torque value. The tool is not a replacement for a professional socket wrench.

3/8" socket wrench insert

For TX head screws, short

- Surface: chromium-plated
- Drive: 3/8 inch square drive, ball catch groove, output: TX head
- Geometry: Short



Drive	3/8 inch
Drive type	Internal square
Tip type	For outer TX
Design	Short
Length (L1)	26 mm
Material	Steel
Surface	Chrome plated
Socket wrench external diameter 2 (D2)	17 mm

Socket wrench external diameter (D1)	Max. nominal diameter of external Torx	Tip size	Art. no.	P. Qty.
7 mm	4.75 mm	E5	0715 122 05	1/10
7.7 mm	5.74 mm	E6	0715 122 06	1/10
8.3 mm	6.22 mm	E7	0715 122 07	1/10
10.2 mm	7.52 mm	E8	0715 122 08	1/10
12.3 mm	9.42 mm	E10	0715 122 10	1/10
13.3 mm	10.08 mm	E11	0715 122 11	1/10
14.3 mm	11.17 mm	E12	0715 122 12	1/10
15.8 mm	12.9 mm	E14	0715 122 14	1/10

3/8-inch socket wrench

For TX screws, short

- Surface: Chrome-plated
- Drive: 3/8 inch square drive, ball catch groove
- Output: TX



Drive	3/8 inch
Drive type	Internal square
Tip type	TX
Design	Short
Length (L1)	50.5 mm
Blade length (L2)	20.5 mm
Socket wrench external diameter (D1)	19 mm
Material	Steel
Surface	Chrome plated

Max. nominal diameter of external Torx	Tip size	Art. no.	P. Qty.
3.26 mm	TX15	0715 123 15	1/10
3.84 mm	TX20	0715 123 20	1/10
4.4 mm	TX25	0715 123 25	1/10
4.96 mm	TX27	0715 123 27	1/10
5.49 mm	TX30	0715 123 30	1/10

Continuation **3/8-inch socket wrench**

Max. nominal diameter of external Torx	Tip size	Art. no.	P. Qty.
6.66 mm	TX40	0715 123 40	1/10
7.77 mm	TX45	0715 123 45	1/10
8.79 mm	TX50	0715 123 50	1/10

3/8 inch socket wrench assortment

16 pcs

Contents: 16 pieces

- 1 ratchet
 - 1 125 mm extension
 - 1 250 mm extension
 - 1 cardan joint
 - 12 socket wrench inserts
- Sizes 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19



Number of pieces in assortment/set	16 PCS
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Art. no. 0965 12 160

P. Qty.: 1

Contents for art. no. 0965 12 160		
Designation	Art. no.	Quantity
Reversible ratchet 3/8 inch Length 175 mm	0712 038 0	1
3/8 inch socket wrench insert 8 mm	0713 121 108	1
3/8 inch socket wrench insert 9 mm	0713 121 109	1
3/8 inch socket wrench insert 10 mm	0713 121 110	1
3/8 inch socket wrench insert 11 mm	0713 121 111	1
3/8 inch socket wrench insert 12 mm	0713 121 112	1
3/8 inch socket wrench insert 13 mm	0713 121 113	1
3/8 inch socket wrench insert 14 mm	0713 121 114	1
3/8 inch socket wrench insert 15 mm	0713 121 115	1
3/8 inch socket wrench insert 16 mm	0713 121 116	1
3/8 inch socket wrench insert 17 mm	0713 121 117	1
3/8 inch socket wrench insert 18 mm	0713 121 118	1
3/8 inch socket wrench insert 19 mm	0713 121 119	1
3/8 inch extension Length 125 mm	0713 128 105	1
3/8 inch extension Length 250 mm	0713 128 110	1
3/8 inch cardan joint Length 55 mm	0713 128 301	1
Hard foam insert for 3/8 inch socket wrench assortment		1
Metal box Länge x Breite x Höhe= 315 x 115 x 40 mm	0955 715 2	1

3/8 inch socket wrench assortment, dust-protected

Dust-protected ratchet ensuring durability, even under difficult working conditions. With lever reverse.

High-quality, 3/8 inch assortment including the most important wrench sizes

- Contents: 19 pieces
- Hex socket wrench inserts
- Hard foam with clamping effect, art. no. 095503819
- Metal box 315 x 115 x 40 mm, size 2, art. no. 09557152



Number of pieces in assortment/set	19 PCS
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Art. no. 0965 038 190

P. Qty.: 1

Contents for art. no. 0965 038 190		
Designation	Art. no.	Quantity
3/8 inch lever reversible ratchet, dust-protected	0712 038 03	1
3/8 inch socket wrench insert 6 mm	0713 121 106	1
3/8 inch socket wrench insert 7 mm	0713 121 107	1
3/8 inch socket wrench insert 8 mm	0713 121 108	1
3/8 inch socket wrench insert 9 mm	0713 121 109	1
3/8 inch socket wrench insert 10 mm	0713 121 110	1
3/8 inch socket wrench insert 11 mm	0713 121 111	1
3/8 inch socket wrench insert 12 mm	0713 121 112	1
3/8 inch socket wrench insert 13 mm	0713 121 113	1
3/8 inch socket wrench insert 14 mm	0713 121 114	1
3/8 inch socket wrench insert 15 mm	0713 121 115	1
3/8 inch socket wrench insert 16 mm	0713 121 116	1
3/8 inch socket wrench insert 17 mm	0713 121 117	1
3/8 inch socket wrench insert 18 mm	0713 121 118	1
3/8 inch socket wrench insert 19 mm	0713 121 119	1
3/8-inch angled extension 38 mm	0713 128 100	1
3/8 inch extension Length 125 mm	0713 128 105	1
3/8 inch extension Length 250 mm	0713 128 110	1
3/8 inch cardan joint Length 55 mm	0713 128 301	1

3/8 inch socket wrench assortment

19 pieces Compact basic assortment with wrench sizes 6-19 mm, with lever reverse.

Number of pieces in assortment/set	19 PCS
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Art. no. 0965 038 19

P. Qty.: 1



Contents for art. no. 0965 038 19		
Designation	Art. no.	Quantity
3/8 inch ratchet with lever reverse	0712 038 01	1
3/8 inch socket wrench insert 6 mm	0713 121 106	1
3/8 inch socket wrench insert 7 mm	0713 121 107	1
3/8 inch socket wrench insert 8 mm	0713 121 108	1
3/8 inch socket wrench insert 9 mm	0713 121 109	1
3/8 inch socket wrench insert 10 mm	0713 121 110	1
3/8 inch socket wrench insert 11 mm	0713 121 111	1
3/8 inch socket wrench insert 12 mm	0713 121 112	1
3/8 inch socket wrench insert 13 mm	0713 121 113	1
3/8 inch socket wrench insert 14 mm	0713 121 114	1
3/8 inch socket wrench insert 15 mm	0713 121 115	1
3/8 inch socket wrench insert 16 mm	0713 121 116	1
3/8 inch socket wrench insert 17 mm	0713 121 117	1
3/8 inch socket wrench insert 18 mm	0713 121 118	1
3/8 inch socket wrench insert 19 mm	0713 121 119	1
3/8-inch angled extension	0713 128 100	1
3/8 inch extension Length 125 mm	0713 128 105	1
3/8 inch extension Length 250 mm	0713 128 110	1
3/8 inch cardan joint Length 55 mm	0713 128 301	1
Rigid foam		1
Metal box Länge x Breite x Höhe= 315 x 115 x 40 mm	0955 715 2	1

3/8 inch socket wrench assortment

34 pcs.

Contents: 34 pcs.

- 1 ratchet
- 1 75-mm extension
- 1 250-mm extension
- 1 cardan joint
- 14 socket wrench inserts, short:
 Sizes 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22
- 8 socket wrench inserts:
 E 5, 6, 7, 8, 10, 11, 12, 14,
- 8 TX socket wrench inserts:
 TX 15, 20, 25, 27, 30, 40, 45, 50



Number of pieces in assortment/set	34 PCS
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Art. no. 0965 12 34

P. Qty.: 1

Contents for art. no. 0965 12 34		
Designation	Art. no.	Quantity
Reversible ratchet 3/8 inch Length 175 mm	0712 038 0	1
3/8 inch socket wrench insert 8 mm	0713 121 108	1
3/8 inch socket wrench insert 9 mm	0713 121 109	1
3/8 inch socket wrench insert 10 mm	0713 121 110	1
3/8 inch socket wrench insert 11 mm	0713 121 111	1
3/8 inch socket wrench insert 12 mm	0713 121 112	1
3/8 inch socket wrench insert 13 mm	0713 121 113	1
3/8 inch socket wrench insert 14 mm	0713 121 114	1
3/8 inch socket wrench insert 15 mm	0713 121 115	1
3/8 inch socket wrench insert 16 mm	0713 121 116	1
3/8 inch socket wrench insert 17 mm	0713 121 117	1
3/8 inch socket wrench insert 18 mm	0713 121 118	1
3/8 inch socket wrench insert 19 mm	0713 121 119	1
3/8 inch socket wrench insert 21 mm	0713 121 121	1
3/8 inch socket wrench insert 22 mm	0713 121 122	1
3/8 inch extension 3/8 inch; Length 75 mm	0713 128 103	1
3/8 inch extension Length 250 mm	0713 128 110	1
3/8 inch cardan joint Length 55 mm	0713 128 301	1
3/8" socket wrench insert E5; Length 26 mm	0715 122 05	1
3/8" socket wrench insert E6; Length 26 mm	0715 122 06	1
3/8" socket wrench insert E7; Length 26 mm	0715 122 07	1
3/8" socket wrench insert E8; Length 26 mm	0715 122 08	1
3/8" socket wrench insert E10; Length 26 mm	0715 122 10	1
3/8" socket wrench insert E11; Length 26 mm	0715 122 11	1
3/8" socket wrench insert E12; Length 26 mm	0715 122 12	1
3/8" socket wrench insert E14; Length 26 mm	0715 122 14	1
3/8-inch socket wrench TX15; Length 50.5 mm	0715 123 15	1
3/8-inch socket wrench TX20; Length 50.5 mm	0715 123 20	1

Continuation **3/8 inch socket wrench assortment**

Designation	Art. no.	Quantity
3/8-inch socket wrench TX25; Length 50.5 mm	0715 123 25	1
3/8-inch socket wrench TX27; Length 50.5 mm	0715 123 27	1
3/8-inch socket wrench TX30; Length 50.5 mm	0715 123 30	1
3/8-inch socket wrench TX40; Length 50.5 mm	0715 123 40	1
3/8-inch socket wrench TX45; Length 50.5 mm	0715 123 45	1
3/8-inch socket wrench TX50; Length 50.5 mm	0715 123 50	1
Hard foam insert for 3/8 inch socket wrench assortment Length x width x height=400 x 152 x 40 mm		1
Metal box Length x width x height=405 x 160 x 50 mm	0955 715 3	1

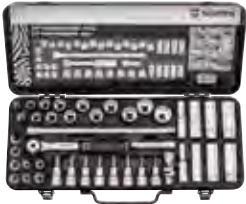
3/8 inch socket wrench assortment

42 pcs

Number of pieces in assortment/set	42 PCS
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Art. no. 0965 12 42

P. Qty.: 1



Contents for art. no. 0965 12 42		
Designation	Art. no.	Quantity
Reversible ratchet 3/8 inch Length 175 mm	0712 038 0	1
3/8 inch socket wrench insert 8 mm	0713 121 108	1
3/8 inch socket wrench insert 9 mm	0713 121 109	1
3/8 inch socket wrench insert 10 mm	0713 121 110	1
3/8 inch socket wrench insert 11 mm	0713 121 111	1
3/8 inch socket wrench insert 12 mm	0713 121 112	1
3/8 inch socket wrench insert 13 mm	0713 121 113	1
3/8 inch socket wrench insert 14 mm	0713 121 114	1
3/8 inch socket wrench insert 15 mm	0713 121 115	1
3/8 inch socket wrench insert 16 mm	0713 121 116	1
3/8 inch socket wrench insert 17 mm	0713 121 117	1
3/8 inch socket wrench insert 18 mm	0713 121 118	1
3/8 inch socket wrench insert 19 mm	0713 121 119	1
3/8 inch socket wrench insert 21 mm	0713 121 121	1
3/8 inch socket wrench insert 22 mm	0713 121 122	1
3/8" socket wrench insert, metric 8 mm	0713 122 108	1
3/8" socket wrench insert, metric 10 mm	0713 122 110	1
3/8" socket wrench insert, metric 13 mm	0713 122 113	1
3/8" socket wrench insert, metric 16 mm	0713 122 116	1
3/8" socket wrench insert, metric 17 mm	0713 122 117	1
3/8" socket wrench insert, metric 18 mm	0713 122 118	1

Designation	Art. no.	Quantity
3/8" socket wrench insert, metric 19 mm	0713 122 119	1
3/8" socket wrench insert, metric 21 mm	0713 122 121	1
3/8 inch extension 3/8 inch; Length 75 mm	0713 128 103	1
3/8 inch extension Length 250 mm	0713 128 110	1
3/8 inch cardan joint Length 55 mm	0713 128 301	1
3/8" socket wrench insert E5; Length 26 mm	0715 122 05	1
3/8" socket wrench insert E6; Length 26 mm	0715 122 06	1
3/8" socket wrench insert E7; Length 26 mm	0715 122 07	1
3/8" socket wrench insert E8; Length 26 mm	0715 122 08	1
3/8" socket wrench insert E10; Length 26 mm	0715 122 10	1
3/8" socket wrench insert E11; Length 26 mm	0715 122 11	1
3/8" socket wrench insert E12; Length 26 mm	0715 122 12	1
3/8" socket wrench insert E14; Length 26 mm	0715 122 14	1
3/8-inch socket wrench TX15; Length 50.5 mm	0715 123 15	1
3/8-inch socket wrench TX20; Length 50.5 mm	0715 123 20	1
3/8-inch socket wrench TX25; Length 50.5 mm	0715 123 25	1
3/8-inch socket wrench TX27; Length 50.5 mm	0715 123 27	1
3/8-inch socket wrench TX30; Length 50.5 mm	0715 123 30	1
3/8-inch socket wrench TX40; Length 50.5 mm	0715 123 40	1
3/8-inch socket wrench TX45; Length 50.5 mm	0715 123 45	1
3/8-inch socket wrench TX50; Length 50.5 mm	0715 123 50	1
Hard foam insert for 3/8 inch socket wrench assortment		1
Metal box	0955 715 3	1



1/2 inch ratchet

Rotary disc reverse

- Simple reversing of clockwise and anti-clockwise rotation
- Chamfered square - easier removal of socket wrench inserts
- Finely toothed turntable with 72 teeth, 5° angle of rotation

Tip size	1/2 inch
Material of the grip handle	2-component plastic
Number of teeth	72 PCS
Ratchet head height (B1)	26 mm
Length (L1)	250 mm



Art. no. 0712 012 0

P. Qty.: 1

Reversible ratchet 1/2 inch

Lever reverse

- Robust ratchet with convenient ejector
- Fast, simple changeover from clockwise to anticlockwise rotation
- Safety catch with rapid ejection
- Lowered, protected reverse lever and offset ratchet body for more hand freedom
- Coarse toothing with 48 teeth – 7.5° angle of rotation
- Length 250 mm
- Chrome-plated, 2-component handle



red dot design award
honourable mention 2011

Drive	1/2 inch
Length (L1)	250 mm
Material	Steel
Material of the grip handle	2-component plastic
Design	With 48 teeth
Surface	Chrome plated

Art. no. 0712 012 01

P. Qty.: 1

1/2 inch lever reversible ratchet, dust-protected

Dust-protected ratchet for a long service life even under difficult working conditions.

- Drive: 12.5 – 1/2 inch
- Standard: DIN 3122, ISO 3315
- Reversing lever for clockwise and anti-clockwise rotation
- Geometry: Ratchet body with depressed centre for more freedom of movement



Drive	1/2 inch
Length (L1)	253 mm
Length 2 (L2)	240 mm
Length 3 (L3)	115 mm
Width (B1)	19 mm
Width 2 (B2)	36 mm
Diameter (D1)	26 mm
Diameter 2 (D2)	38 mm
Material	Chrome-vanadium steel
Material of the grip handle	2-component plastic
Design	With 72 teeth - 5 degree angle of rotation
Surface	Chrome plated
IP protection class	IP 5X

Art. no. 0712 012 03

P. Qty.: 1

1/2-inch jointed-head ratchet

Swivel head rotatable by 180°

- Standard: DIN 3122, ISO 3315
- Head: 72 teeth, 5° rotating angle



Tip size	1/2 inch
Material	Chrome-vanadium steel
Surface	Chrome plated
Material of the grip handle	2-component plastic
Handle length (L3)	105 mm
Ratchet head height (B1)	24 mm
Ratchet head height with square (B2)	39 mm
Handle diameter (D1)	29 mm
Ratchet diameter (D2)	35 mm

Length (L1)	Art. no.	P. Qty.
264 mm	0715 13 90	1
402 mm	0715 13 91	1

1/2-inch jointed-head ratchet, extendable

Extendable to max. 430 mm using locking sleeve with locking device

- Standard: DIN 3122, ISO 3315
- Telescopic handle extendable to max. 430 mm
- Quick ejection with safety lock
- Flexible, rotatable ratchet head with locking device. 72 teeth with a rotating angle of 5°.



Tip size	1/2 inch
Material	Chrome-vanadium steel
Surface	Chromed high-gloss satin finish
Material of the grip handle	2-component plastic
Min./max. length (L1)	294-432 mm
Handle length (L3)	110 mm
Ratchet head height (B1)	15.5 mm
Ratchet head height with square (B2)	34 mm
Sleeve outside diameter (B3)	24 mm
Handle diameter (D1)	31 mm
Ratchet diameter (D2)	40 mm

Art. no. 0715 13 92

P. Qty.: 1

Breaker bar 1/2"

Joint can be rotated through 180° and fixed in desired position, is therefore very well-suited to tightening powerfully in different positions.

- Standard: DIN 3122, ISO 3315
- Design: Chromium-plated



Tip size	1/2 inch
Width of head (twisted) (B2)	37 mm

Length (L)	Handle diameter (A)	Width of head (B1)	Product weight (per item) (B3)	Art. no.	P. Qty.
365 mm	33 mm	15 mm	650 g	0712 130 101	1/10
490 mm	35 mm	20 mm	878 g	0712 130 102	1
600 mm	35 mm	20 mm	740 g	0712 130 105	1/10

1/2 inch cardan joint

With braked joint to hold the set position

- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated
- Drive: 1/2 inch square drive, ball catch groove
- Output: 1/2 inch square drive



Drive (S2)	1/2 inch
Socket wrench external diameter (D1)	25 mm
Tip size (S1)	1/2 inch
Length (L1)	70 mm
Surface	Chrome plated

Art. no. 0712 138 301

P. Qty.: 1/10

1/2" connection

- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated
- Drive: 1/2" square socket
- Tip: Square head



Drive (S2)	1/2 inch
Material	Steel
Surface	Chrome plated

Tip size (S1)	Socket wrench external diameter (D1)	Length (L1)	Art. no.	P. Qty.
3/4 inch	25 mm	44 mm	0712 138 402	1/10
3/8 inch	23 mm	38 mm	0712 138 401	1/10

1/2 inch extension

- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: 1/2 inch square head



Drive (S2)	1/2 inch
Drive type	Internal square
Tip size (S1)	1/2 inch
Tip type	Outer square



Length (L)	Art. no.	P. Qty.
53 mm	0712 138 102	1/10
75 mm	0712 138 103	1/10
125 mm	0712 138 105	1/10
250 mm	0712 138 110	1/10
457 mm	0712 138 118	1/5

1/2 inch angled extension

- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: 1/2" square head
- Angular movement of up to 8°



Drive (S2)	1/2 inch
Drive type	Internal square
Tip size (S1)	1/2 inch
Tip type	Outer square



Length (L)	Art. no.	P. Qty.
50 mm	0712 138 100	1/10
75 mm	0715 13 40	1/10
150 mm	0715 13 41	1/10

1/2 inch adapter

Quick-change chuck

- Drive: Square drive, DIN 3121 for use with ratchet or other square drive
- Hole for locking pin and O-ring groove
- Tip: 1/4 or 5/16 inch hexagon socket, DIN 3126



Drive (S2)	1/2 inch
Drive type	Internal square
Tip type	Hexagon socket
Length (L1)	50 mm

Tip size (S1)	Art. no.	P. Qty.
1/4 inch	0715 13 01	1
5/16 inch	0715 13 02	1

1/2 inch socket wrench insert

Metric, hexagon, short

- Standard: DIN 3124, ISO 2725
- Surface: Chrome-plated, ground/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon head
- POWERDRIV



POWERDRIV



Drive	1/2 inch
Drive type	Internal square
Design	Short
Material	Steel
Surface	Chrome plated

Width across flats	Length (L1)	Socket wrench external diameter 2 (D2)	Socket wrench external diameter (D1)	Socket wrench depth (t)	Art. no.	P. Qty.
8 mm	36 mm	23 mm	13 mm	8 mm	0712 131 108	1/10
9 mm	36 mm	23 mm	14.2 mm	9 mm	0712 131 109	1/10
10 mm	36 mm	23 mm	15.5 mm	9 mm	0712 131 110	1/10
11 mm	36 mm	23 mm	16.7 mm	10 mm	0712 131 111	1/10
12 mm	36 mm	23 mm	18 mm	11 mm	0712 131 112	1/10
13 mm	36 mm	23 mm	19.2 mm	11 mm	0712 131 113	1/10
14 mm	36 mm	23 mm	20.5 mm	13 mm	0712 131 114	1/10
15 mm	36 mm	22 mm	21.7 mm	13 mm	0712 131 115	1/10
16 mm	36 mm	23.2 mm	23 mm	13 mm	0712 131 116	1/10
17 mm	36 mm	23.2 mm	24.2 mm	13 mm	0712 131 117	1/10
18 mm	36 mm	23.5 mm	25.5 mm	14 mm	0712 131 118	1/10
19 mm	36 mm	24.7 mm	26.7 mm	14 mm	0712 131 119	1/10
20 mm	36 mm	25.5 mm	28 mm	14 mm	0712 131 120	1/10
21 mm	38 mm	26 mm	29.2 mm	14 mm	0712 131 121	1/10
22 mm	38 mm	26.5 mm	30.5 mm	16 mm	0712 131 122	1/10
23 mm	38 mm	27.7 mm	31.7 mm	16 mm	0712 131 123	1/10
24 mm	38 mm	29 mm	33 mm	18 mm	0712 131 124	1/10
25 mm	38 mm	30 mm	34 mm	18 mm	0712 131 125	1/10
26 mm	38 mm	31.5 mm	35.5 mm	18 mm	0712 131 126	1/10
27 mm	44 mm	32.2 mm	36.7 mm	20 mm	0712 131 127	1/10
28 mm	44 mm	33.5 mm	38 mm	20 mm	0712 131 128	1/10
30 mm	44 mm	36 mm	40.5 mm	22 mm	0712 131 130	1/10
32 mm	44 mm	38.1 mm	43 mm	24 mm	0712 131 132	1/10
34 mm	47 mm	40 mm	45.5 mm	25 mm	0712 131 134	1/10
36 mm	50 mm	42 mm	48 mm	28.5 mm	0712 131 136	1/10

1/2" socket wrench insert

Metric, bi-hexagon, short

- Standard: DIN 3124, ISO 2725
- Surface: Chrome-plated, ground/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For bi-hexagon
- POWERDRIV



POWERDRIV



Drive	1/2 inch
Drive type	Internal square
Design	Short
Material	Steel
Surface	Chrome plated

Width across flats	Length (L1)	Socket wrench external diameter 2 (D2)	Socket wrench external diameter (D1)	Socket wrench depth (t)	Art. no.	P. Qty.
8 mm	36 mm	21.9 mm	12.9 mm	7 mm	0712 133 108	1/10
9 mm	36 mm	21.9 mm	14 mm	8 mm	0712 133 109	1/10
10 mm	36 mm	21.9 mm	15.4 mm	10 mm	0712 133 110	1/10
11 mm	36 mm	21.9 mm	16.6 mm	10 mm	0712 133 111	1/10
12 mm	36 mm	21.9 mm	17.9 mm	10 mm	0712 133 112	1/10
13 mm	36 mm	21.9 mm	19.1 mm	11 mm	0712 133 113	1/10
14 mm	36 mm	21.9 mm	20.4 mm	11 mm	0712 133 114	1/10
15 mm	36 mm	21.9 mm	21 mm	11 mm	0712 133 115	1/10
16 mm	36 mm	21.9 mm	22.5 mm	11 mm	0712 133 116	1/10
17 mm	36 mm	23.2 mm	24 mm	11 mm	0712 133 117	1/10
18 mm	36 mm	23.5 mm	25.4 mm	16 mm	0712 133 118	1/10
19 mm	36 mm	24.7 mm	26.5 mm	16 mm	0712 133 119	1/10
20 mm	36 mm	25.5 mm	27.9 mm	16 mm	0712 133 120	1/10
21 mm	38 mm	26 mm	28.5 mm	19 mm	0712 133 121	1/10
22 mm	38 mm	26.5 mm	29.9 mm	19 mm	0712 133 122	1/10
23 mm	38 mm	27.7 mm	31.2 mm	19 mm	0712 133 123	1/10
24 mm	38 mm	29 mm	32 mm	19 mm	0712 133 124	1/10
26 mm	38 mm	31.5 mm	35 mm	19 mm	0712 133 126	1/10
27 mm	44 mm	32.2 mm	36 mm	24 mm	0712 133 127	1/10
28 mm	44 mm	33.5 mm	37.7 mm	24 mm	0712 133 128	1/10
30 mm	44 mm	36 mm	40 mm	24 mm	0712 133 130	1/10
32 mm	44 mm	38.1 mm	42 mm	24 mm	0712 133 132	1/10
34 mm	47 mm	40 mm	45.5 mm	25 mm	0712 133 134	1/10
36 mm	50 mm	42 mm	48 mm	28.5 mm	0712 133 136	1/10

1/2 inch socket wrench insert

Metric, hexagon, long

- Surface: Chrome-plated, polished/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon head
- POWERDRIV®



POWERDRIV®



Drive	1/2 inch
Length (L1)	77 mm
Design	Long

Drive type	Width across flats	Socket wrench external diameter 2 (D2)	Socket wrench external diameter (D1)	Socket wrench depth (t)	Art. no.	P. Qty.
Hexagon socket	32 mm	34 mm	41.9 mm	35.5 mm	0712 132 332	1/10
Internal square	10 mm	21.8 mm	15.4 mm	25 mm	0712 132 310	1/10
Internal square	11 mm	21.8 mm	16.6 mm	25 mm	0712 132 311	1/10
Internal square	12 mm	21.8 mm	17.9 mm	25 mm	0712 132 312	1/10
Internal square	13 mm	21.8 mm	19.1 mm	25 mm	0712 132 313	1/10
Internal square	14 mm	21.8 mm	20.4 mm	25 mm	0712 132 314	1/10
Internal square	15 mm	21.6 mm	21.6 mm	35.5 mm	0712 132 315	1/10
Internal square	16 mm	22.6 mm	22.6 mm	35.5 mm	0712 132 316	1/10
Internal square	17 mm	24.1 mm	24.1 mm	35.5 mm	0712 132 317	1/10
Internal square	18 mm	25.4 mm	25.4 mm	35.5 mm	0712 132 318	1/10
Internal square	19 mm	26.5 mm	26.5 mm	35.5 mm	0712 132 319	1/10
Internal square	20 mm	27.8 mm	27.8 mm	35.5 mm	0712 132 320	1/10
Internal square	21 mm	28.2 mm	28.2 mm	35.5 mm	0712 132 321	1/10
Internal square	22 mm	29.7 mm	29.7 mm	35.5 mm	0712 132 322	1/10
Internal square	23 mm	27 mm	31.2 mm	35.5 mm	0712 132 323	1/10
Internal square	24 mm	27 mm	31.7 mm	35.5 mm	0712 132 324	1/10
Internal square	26 mm	33 mm	35.4 mm	35.5 mm	0712 132 326	1/10
Internal square	27 mm	33 mm	35.7 mm	35.5 mm	0712 132 327	1/10
Internal square	28 mm	33 mm	37.6 mm	35.5 mm	0712 132 328	1/10
Internal square	30 mm	33 mm	39.8 mm	35.5 mm	0712 132 330	1/10

1/2 inch POWERDRIV® socket wrench insert

Metric, bi-hexagon, long

- Surface: chrome-plated, polished/matt
- Drive: 1/2" square socket, ball catch groove
- Powerdriv®



Drive	1/2 inch
Drive type	Internal square
Length (L1)	77 mm
Design	Long
Material	Steel
Surface	Chrome plated

Continuation 1/2 inch POWERDRIV® socket wrench insert

Width across flats	Socket wrench external diameter 2 (D2)	Socket wrench external diameter (D1)	Socket wrench depth (t)	Art. no.	P. Qty.
10 mm	21.8 mm	15.4 mm	25 mm	0712 132 110	1/10
11 mm	21.8 mm	16.6 mm	25 mm	0712 132 111	1/10
12 mm	21.8 mm	17.9 mm	25 mm	0712 132 112	1/10
13 mm	21.8 mm	19.1 mm	25 mm	0712 132 113	1/10
14 mm	21.8 mm	20.4 mm	25 mm	0712 132 114	1/10
15 mm	21.6 mm	21.6 mm	35.5 mm	0712 132 115	1/10
16 mm	22.6 mm	22.6 mm	35.5 mm	0712 132 116	1/10
17 mm	24.1 mm	24.1 mm	35.5 mm	0712 132 117	1/10
18 mm	25.4 mm	25.4 mm	35.5 mm	0712 132 118	1/10
19 mm	26.5 mm	26.5 mm	35.5 mm	0712 132 119	1/10
20 mm	27.8 mm	27.8 mm	35.5 mm	0712 132 120	1/10
21 mm	28.2 mm	28.2 mm	35.5 mm	0712 132 121	1/10
22 mm	29.7 mm	29.7 mm	35.5 mm	0712 132 122	1/10
23 mm	27 mm	31.2 mm	35.5 mm	0712 132 123	1/10
24 mm	27 mm	31.7 mm	35.5 mm	0712 132 124	1/10
26 mm	33 mm	35.4 mm	35.5 mm	0712 132 126	1/10
27 mm	33 mm	35.7 mm	35.5 mm	0712 132 127	1/10
28 mm	33 mm	37.6 mm	35.5 mm	0712 132 128	1/10
30 mm	33 mm	39.9 mm	35.5 mm	0712 132 130	1/10
32 mm	34 mm	41.9 mm	35.5 mm	0712 132 132	1/10

1/2 inch socket wrench insert, metric

- Surface: Chrome-plated, polished/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon socket
- DIN 7422



Drive	1/2 inch
Drive type	Internal square
Material	Steel
Surface	Chrome plated



Width across flats	Length (L1)	Blade length (L2)	Socket wrench external diameter (D1)	Art. no.	P. Qty.
4 mm	60 mm	20 mm	22.5 mm	0715 137 040	1/10
5 mm	60 mm	20 mm	22.5 mm	0715 137 051	1/10
5 mm	180 mm	140 mm	22.5 mm	0715 137 052	1/10
6 mm	60 mm	20 mm	22.5 mm	0715 137 060	1/10
6 mm	90 mm	50 mm	22.5 mm	0715 137 061	1/10
6 mm	140 mm	100 mm	22.5 mm	0715 137 062	1/10
7 mm	60 mm	20 mm	22.5 mm	0715 137 07	1/10
7 mm	100 mm	60 mm	22.5 mm	0715 137 072	1/10
8 mm	60 mm	20 mm	22.5 mm	0715 137 080	1/10
8 mm	90 mm	50 mm	22.5 mm	0715 137 081	1/10
8 mm	140 mm	100 mm	22.5 mm	0715 137 082	1/10
9 mm	60 mm	20 mm	22.5 mm	0715 137 09	1/10
10 mm	60 mm	20 mm	22.5 mm	0715 137 100	1/10
10 mm	90 mm	50 mm	22.5 mm	0715 137 101	1/10
10 mm	140 mm	100 mm	22.5 mm	0715 137 102	1/10

Width across flats	Length (L1)	Blade length (L2)	Socket wrench external diameter (D1)	Art. no.	P. Qty.
11 mm	60 mm	20 mm	22.5 mm	0715 137 11	1/10
11 mm	140 mm	100 mm	22.5 mm	0715 137 110	1/10
12 mm	60 mm	20 mm	22.5 mm	0715 137 120	1/10
12 mm	140 mm	100 mm	22.5 mm	0715 137 122	1/10
13 mm	60 mm	20 mm	25 mm	0715 137 13	1/10
14 mm	60 mm	20 mm	25 mm	0715 137 14	1/10
17 mm	60 mm	20 mm	28 mm	0715 137 17	1/10
19 mm	60 mm	20 mm	30 mm	0715 137 19	1/10

1/2" multi-socket wrench

ONE TOOL FOR ALL JOBS. New multi-socket wrenches for 5 different drives!

Jack of all trades!

Multi-profile suitable for the five most common screw head drives

- Hexagon metric, square metric, bi-hexagon metric, hexagon imperial, outer TX
- One set covers all applications

Extremely high-quality multi-socket wrenches guarantee long service lives

Design: Chromium-plated, polished

Drive: 1/2 inch square socket

Tip: Bi-hexagon, multi-profile

Geometry: Short



Drive	1/2 inch
Drive type	Internal square
Material	Steel
Surface	Chrome plated

Width across flats	Length (L1)	Art. no.	P. Qty.
10 mm	36 mm	0712 134 10	1/10
11 mm	36 mm	0712 134 11	1/10
12 mm	36 mm	0712 134 12	1/10
13 mm	36 mm	0712 134 13	1/10
14 mm	36 mm	0712 134 14	1/10
15 mm	36 mm	0712 134 15	1/10
16 mm	36 mm	0712 134 16	1/10
17 mm	36 mm	0712 134 17	1/10
18 mm	36 mm	0712 134 18	1/10
19 mm	36 mm	0712 134 19	1/10
20 mm	36 mm	0712 134 20	1/10
21 mm	38 mm	0712 134 21	1/10
22 mm	38 mm	0712 134 22	1/10
24 mm	38 mm	0712 134 24	1/10
26 mm	38 mm	0712 134 26	1/10
27 mm	44 mm	0712 134 27	1/10
28 mm	44 mm	0712 134 28	1/10
30 mm	44 mm	0712 134 30	1/10
32 mm	44 mm	0712 134 32	1/10

1/2-inch socket wrench insert, TX head

For TX head screws, short

- Surface: chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: For TX head screws



Drive	1/2 inch
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Drive type	Length (L1)	Blade length (L2)	Tip length (L3)	Design	Art. no.	P. Qty.
Internal square	40 mm			Short	0715 132 10	1/10
Internal square	40 mm			Short	0715 132 11	1/10
Internal square	40 mm			Short	0715 132 12	1/10
Internal square	40 mm			Short	0715 132 14	1/10
Internal square	40 mm			Short	0715 132 16	1/10
Internal square	40 mm			Short	0715 132 18	1/10
Internal square	40 mm			Short	0715 132 20	1/10
Internal square	40 mm			Short	0715 132 24	1/10
Outer TX	38 mm	0 mm	0 mm		0715 132 318	5
Outer TX	38 mm	0 mm	0 mm		0715 132 320	5
Outer TX	38 mm	0 mm	0 mm		0715 132 322	5
Outer TX	38 mm	0 mm	0 mm		0715 132 324	5



1/2" socket wrench insert

For TX screws, short

- Design: Short
- Surface: chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: For TX screws

Drive	1/2 inch
Drive type	Internal square



Length (L1)	Blade length (L2)	Tip length (L3)	Design	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
55 mm	17 mm	0 mm		0 mm	0715 131 640	5
55 mm	17 mm	0 mm		0 mm	0715 131 645	5
55 mm	17 mm	0 mm		0 mm	0715 131 647	5
55 mm	17 mm	0 mm		0 mm	0715 131 650	5
55 mm	17 mm	0 mm		0 mm	0715 131 655	5
55 mm	17 mm	0 mm		0 mm	0715 131 660	5
55 mm	17 mm	0 mm		0 mm	0715 131 670	5
60 mm	20 mm		Short		0715 133 20	1/10
60 mm	20 mm		Short		0715 133 25	1/10
60 mm	20 mm		Short		0715 133 27	1/10

Continuation 1/2" socket wrench insert

Length (L1)	Blade length (L2)	Tip length (L3)	Design	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
60 mm	20 mm		Short		0715 133 30	1/10
60 mm	20 mm		Short		0715 133 40	1/10
60 mm	20 mm		Short		0715 133 45	1/10
60 mm	20 mm		Short		0715 133 50	1/10
60 mm	20 mm		Short		0715 133 55	1/10
60 mm	20 mm		Short		0715 133 60	1/10
60 mm	20 mm		Short		0715 133 70	1
60 mm	20 mm		Short		0715 133 80	1/10
60 mm	42 mm		Short		0715 133 90	1
80 mm	42 mm		Short		0715 133 100	1

1/2" socket wrench insert

For TX screws, long

- Design: Long
- Surface: chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: For TX screws



Drive	1/2 inch
Drive type	Internal square
Design	Long
Material	Steel
Surface	Chrome plated



Length (L1)	Blade length (L2)	Socket wrench external diameter (D1)	Tip size	Art. no.	P. Qty.
120 mm	80 mm	22.5 mm	TX30	0715 134 30	1/10
120 mm	80 mm	22.5 mm	TX40	0715 134 40	1/10
120 mm	80 mm	22.5 mm	TX45	0715 134 45	1/10
120 mm	80 mm	22.5 mm	TX50	0715 134 50	1/10
140 mm	100 mm	22.5 mm	TX55	0715 134 55	1/10
140 mm	100 mm	22.5 mm	TX60	0715 134 60	1/10
140 mm	100 mm	25 mm	TX70	0715 134 70	1/10

1/2" socket wrench insert

Triple square, short

- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: Triple square



Drive	1/2 inch
Drive type	Internal square
Length (L1)	60 mm
Blade length (L2)	20 mm



Design	Short
Material	Steel
Surface	Chrome plated

Socket wrench external diameter (D1)	Tip size	Art. no.	P. Qty.
22.5 mm	XZN M4	0715 138 04	1/10
22.5 mm	XZN M5	0715 138 05	1/10
22.5 mm	XZN M6	0715 138 06	1/10
22.5 mm	XZN M8	0715 138 08	1/10
22.5 mm	XZN M10	0715 138 10	1/10
22.5 mm	XZN M12	0715 138 12	1/10
25 mm	XZN M14	0715 138 14	1/10

1/2" socket wrench insert

Wedge shape

- Design: Short
- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: Wedge shape



Drive	1/2 inch
Drive type	Internal square
Length (L1)	60 mm
Blade length (L2)	20 mm
Design	Short
Surface	Chrome plated

Socket wrench external diameter (D1)	Tip size	Art. no.	P. Qty.
22.5 mm	RI 6	0715 139 06	1/10
22.5 mm	RI 7	0715 139 07	1/10
22.5 mm	RI 8	0715 139 08	1/10
22.5 mm	RI 10	0715 139 10	1/10
22.5 mm	RI 12	0715 139 12	1/10
25 mm	RI 14	0715 139 14	1/10

1/2" socket wrench insert

Triple square, long

- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: Triple square



Drive	1/2 inch
Drive type	Internal square
Length (L1)	100 mm
Blade length (L2)	60 mm
Design	Long
Socket wrench external diameter (D1)	22.5 mm

Continuation 1/2" socket wrench insert

Material	Steel
Surface	Chrome plated

Tip size	Art. no.	P. Qty.
XZN M8	0715 138 081	1/10
XZN M10	0715 138 101	1/10
XZN M12	0715 138 121	1/10

1/2 inch impact socket wrench insert

Triple square

- Design: Long
- Drive: 1/2" square socket, ball catch groove
- Tip: Triple square
- Hole for locking pin and O-ring groove



Drive	1/2 inch
Drive type	Internal square
Tip type	Multi tooth
Length (L1)	100 mm
Blade length (L2)	63 mm
Socket wrench external diameter (D1)	25 mm
Design	Long
Material	Steel

Tip size	Art. no.	P. Qty.
XZN M8	0715 138 161	1
XZN M10	0715 138 171	1

1/2 inch socket wrench assortment

31 pieces

- Complete 1/2 inch assortment with short and long socket wrench inserts for hexagon socket, TX and triple square
- Equipment specially adapted to the automotive and cargo sectors

Number of pieces in assortment/set	31 PCS
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Art. no. 0965 13 310

P. Qty.: 1



Contents for art. no. 0965 13 310		
Designation	Art. no.	Quantity
1/2" socket wrench insert TX25	0715 133 25	1
1/2" socket wrench insert TX27	0715 133 27	1
1/2" socket wrench insert TX30	0715 133 30	1
1/2" socket wrench insert TX40	0715 133 40	1
1/2" socket wrench insert TX45	0715 133 45	1
1/2" socket wrench insert TX50	0715 133 50	1
1/2" socket wrench insert TX55	0715 133 55	1
1/2" socket wrench insert TX60	0715 133 60	1
1/2" socket wrench insert TX30	0715 134 30	1
1/2" socket wrench insert TX40	0715 134 40	1
1/2" socket wrench insert TX50	0715 134 50	1
1/2" socket wrench insert TX60	0715 134 60	1
1/2 inch socket wrench insert, metric 5 mm	0715 137 051	1
1/2 inch socket wrench insert, metric 6 mm; Length 60 mm	0715 137 060	1
1/2 inch socket wrench insert, metric 6 mm; Length 140 mm	0715 137 062	1
1/2 inch socket wrench insert, metric 7 mm	0715 137 07	1
1/2 inch socket wrench insert, metric 8 mm; Length 60 mm	0715 137 080	1
1/2 inch socket wrench insert, metric 8 mm; Length 140 mm	0715 137 082	1
1/2 inch socket wrench insert, metric 10 mm; Length 60 mm	0715 137 100	1
1/2 inch socket wrench insert, metric 10 mm; Length 140 mm	0715 137 102	1
1/2 inch socket wrench insert, metric 12 mm; Length 60 mm	0715 137 120	1
1/2 inch socket wrench insert, metric 12 mm; Length 140 mm	0715 137 122	1
1/2 inch socket wrench insert, metric 14 mm	0715 137 14	1
1/2 inch socket wrench insert, metric 17 mm	0715 137 17	1
1/2" socket wrench insert XZN M5	0715 138 05	1
1/2" socket wrench insert XZN M6	0715 138 06	1
1/2" socket wrench insert XZN M8; Length 60 mm	0715 138 08	1
1/2" socket wrench insert XZN M8; Length 100 mm	0715 138 081	1
1/2" socket wrench insert XZN M10; Length 60 mm	0715 138 10	1
1/2" socket wrench insert XZN M10; Length 100 mm	0715 138 101	1
1/2" socket wrench insert XZN M12	0715 138 121	1
Rigid foam		1
Metal box	0955 715 4	1

Adapter assortment

Combination adapter assortment with most common socket wrench and bit adapters, 8 pcs.

Contents: 8 pieces

- 6 socket wrench adapters:
3/4 inch - 1/2 inch, 1/2 inch - 3/4 inch, 1/2 inch - 3/8 inch
3/8 inch - 1/4 inch, 1/4 inch - 3/8 inch, 3/8 inch - 1/2 inch
- 2 bit adapters:
1/4" - 1/4", 3/8" - 5/16"



Number of pieces in assortment/set	8 PCS
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Continuation **Adapter assortment**

Art. no. 0965 12 80

P. Qty.: 1

Contents for art. no. 0965 12 80		
Designation	Art. no.	Quantity
Connector DIN 7427 1/4 inch Length 25 mm	0614 176 680	1
Connector DIN 7427 3/8 inch Length 30 mm	0614 176 682	1
1/2" connection Length 38 mm	0712 138 401	1
1/2" connection Length 44 mm	0712 138 402	1
1/4" connector Length 24 mm	0713 118 401	1
3/8" connector Length 27 mm	0713 128 401	1
3/8" connector Length 36 mm	0713 128 402	1
3/4-inch connector Length 53.5 mm	0715 141 08	1
Rigid foam		1
Metal box	0955 715 1	1

1/2 inch socket wrench assortment

23 pieces. Hexagonal

Number of pieces in assortment/set	23 PCS
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Art. no. 0965 13 230

P. Qty.: 1



Contents for art. no. 0965 13 230		
Designation	Art. no.	Quantity
1/2 inch ratchet	0712 012 0	1
1/2 inch socket wrench insert 10 mm; Length 36 mm	0712 131 110	1
1/2 inch socket wrench insert 11 mm	0712 131 111	1
1/2 inch socket wrench insert 12 mm	0712 131 112	1
1/2 inch socket wrench insert 13 mm	0712 131 113	1
1/2 inch socket wrench insert 14 mm	0712 131 114	1
1/2 inch socket wrench insert 15 mm	0712 131 115	1
1/2 inch socket wrench insert 16 mm	0712 131 116	1
1/2 inch socket wrench insert 17 mm; Length 36 mm	0712 131 117	1
1/2 inch socket wrench insert 18 mm	0712 131 118	1
1/2 inch socket wrench insert 19 mm; Length 36 mm	0712 131 119	1
1/2 inch socket wrench insert 20 mm	0712 131 120	1
1/2 inch socket wrench insert 21 mm	0712 131 121	1
1/2 inch socket wrench insert 22 mm	0712 131 122	1
1/2 inch socket wrench insert 24 mm; Length 38 mm	0712 131 124	1

Designation	Art. no.	Quantity
1/2 inch socket wrench insert 26 mm	0712 131 126	1
1/2 inch socket wrench insert 27 mm; Length 44 mm	0712 131 127	1
1/2 inch socket wrench insert 28 mm	0712 131 128	1
1/2 inch socket wrench insert 30 mm; Length 44 mm	0712 131 130	1
1/2 inch socket wrench insert 32 mm; Length 44 mm	0712 131 132	1
1/2 inch extension Length 125 mm	0712 138 105	1
1/2 inch extension Length 250 mm	0712 138 110	1
1/2 inch cardan joint	0712 138 301	1
Hard foam insert for 1/2 inch socket wrench assortment 400 x 150 x 40 mm	0955 13 230	1
Metal box 405 x 160 x 50 mm	0955 715 3	1

1/2 inch socket wrench assortment

17 pieces. Hexagonal

Number of pieces in assortment/set	17 PCS
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Art. no. 0965 13 170

P. Qty.: 1



Contents for art. no. 0965 13 170		
Designation	Art. no.	Quantity
1/2 inch ratchet	0712 012 0	1
1/2 inch socket wrench insert 10 mm; Length 36 mm	0712 131 110	1
1/2 inch socket wrench insert 11 mm	0712 131 111	1
1/2 inch socket wrench insert 12 mm	0712 131 112	1
1/2 inch socket wrench insert 13 mm	0712 131 113	1
1/2 inch socket wrench insert 14 mm	0712 131 114	1
1/2 inch socket wrench insert 15 mm	0712 131 115	1
1/2 inch socket wrench insert 17 mm; Length 36 mm	0712 131 117	1
1/2 inch socket wrench insert 19 mm; Length 36 mm	0712 131 119	1
1/2 inch socket wrench insert 22 mm	0712 131 122	1
1/2 inch socket wrench insert 24 mm; Length 38 mm	0712 131 124	1
1/2 inch socket wrench insert 27 mm; Length 44 mm	0712 131 127	1
1/2 inch socket wrench insert 30 mm; Length 44 mm	0712 131 130	1
1/2 inch socket wrench insert 32 mm; Length 44 mm	0712 131 132	1
1/2 inch extension Length 125 mm	0712 138 105	1
1/2 inch extension Length 250 mm	0712 138 110	1
1/2 inch cardan joint	0712 138 301	1
Hard foam insert for 1/2 inch socket wrench assortment 405 x 160 x 40 mm	0955 13 170	1
Metal box 405 x 160 x 50 mm	0955 715 3	1

1/2 inch socket wrench assortment

21 pieces. Bi-hexagon

Number of pieces in assortment/set	21 PCS
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Art. no. 0965 13 20

P. Qty.: 1



Contents for art. no. 0965 13 20

Designation	Art. no.	Quantity
1/2 inch ratchet	0712 012 0	1
1/2-inch T-handle	0712 130 201	1
1/2" socket wrench insert 10 mm	0712 133 110	1
1/2" socket wrench insert 11 mm	0712 133 111	1
1/2" socket wrench insert 12 mm	0712 133 112	1
1/2" socket wrench insert 13 mm	0712 133 113	1
1/2" socket wrench insert 14 mm	0712 133 114	1
1/2" socket wrench insert 15 mm	0712 133 115	1
1/2" socket wrench insert 16 mm	0712 133 116	1
1/2" socket wrench insert 17 mm	0712 133 117	1
1/2" socket wrench insert 18 mm	0712 133 118	1
1/2" socket wrench insert 19 mm	0712 133 119	1
1/2" socket wrench insert 22 mm	0712 133 122	1
1/2" socket wrench insert 24 mm	0712 133 124	1
1/2" socket wrench insert 27 mm	0712 133 127	1
1/2" socket wrench insert 30 mm	0712 133 130	1
1/2" socket wrench insert 32 mm	0712 133 132	1
1/2" socket wrench insert 34 mm	0712 133 134	1
1/2 inch extension Length 125 mm	0712 138 105	1
1/2 inch extension Length 250 mm	0712 138 110	1
1/2 inch cardan joint	0712 138 301	1
Hard foam insert for 1/2 inch socket wrench assortment 405 x 159 x 39 mm		1
Metal box 405 x 160 x 50 mm	0955 715 3	1

1/2 inch socket wrench assortment

21 pieces. Hexagon, inch

Number of pieces in assortment/set	21 PCS
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Art. no. 0965 13 21

P. Qty.: 1



Contents for art. no. 0965 13 21		
Designation	Art. no.	Quantity
1/2 inch ratchet	0712 012 0	1
1/2" socket wrench insert 3/8 inch	0712 131 201	1
1/2" socket wrench insert 7/16 inch	0712 131 202	1
1/2" socket wrench insert 1/2 inch	0712 131 203	1
1/2" socket wrench insert 9/16 inch	0712 131 204	1
1/2" socket wrench insert 19/32 inch	0712 131 205	1
1/2" socket wrench insert 5/8 inch	0712 131 206	1
1/2" socket wrench insert 11/16 inch	0712 131 207	1
1/2" socket wrench insert 3/4 inch	0712 131 208	1
1/2" socket wrench insert 25/32 inch	0712 131 209	1
1/2" socket wrench insert 13/16 inch	0712 131 210	1
1/2" socket wrench insert 7/8 inch	0712 131 211	1
1/2" socket wrench insert 15/16 inch	0712 131 212	1
1/2" socket wrench insert 1 inch	0712 131 213	1
1/2" socket wrench insert 1 1/16 inch	0712 131 214	1
1/2" socket wrench insert 1 1/8 inch	0712 131 215	1
1/2" socket wrench insert 1 3/16 inch	0712 131 216	1
1/2" socket wrench insert 1 1/4 inch	0712 131 217	1
1/2 inch extension Length 125 mm	0712 138 105	1
1/2 inch extension Length 250 mm	0712 138 110	1
1/2 inch cardan joint	0712 138 301	1
Metal box 405 x 160 x 50 mm	0955 715 3	1

1/2 inch socket wrench assortment

For TX screws

Contents: 21 pieces

- 1 ratchet
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 8 socket wrench inserts:
E 10, 11, 12, 14, 16, 18, 20 and 24
- 9 TX socket wrench inserts:
TX 20, 25, 27, 30, 40, 45, 50, 55 and 60



Number of pieces in assortment/set	21 PCS
Included in delivery (Lieferumfang)	1 x ratchet, 1 x extension 125 mm, 1 x extension 250 mm, 1 x cardan joint, 8 x socket wrench inserts: E 10, 11, 12, 14, 16, 18, 20, 24, 9 socket wrench inserts: TX 20, 25, 27, 30, 40, 45, 50, 55, 60

Art. no. 0965 13 210

P. Qty.: 1

Contents for art. no. 0965 13 210		
Designation	Art. no.	Quantity
1/2 inch ratchet	0712 012 0	1
1/2 inch extension Length 125 mm	0712 138 105	1
1/2 inch extension Length 250 mm	0712 138 110	1
1/2 inch cardan joint	0712 138 301	1
1/2-inch socket wrench insert, TX head E10; Length 40 mm	0715 132 10	1
1/2-inch socket wrench insert, TX head E11; Length 40 mm	0715 132 11	1
1/2-inch socket wrench insert, TX head E12; Length 40 mm	0715 132 12	1
1/2-inch socket wrench insert, TX head E14; Length 40 mm	0715 132 14	1
1/2-inch socket wrench insert, TX head E16; Length 40 mm	0715 132 16	1
1/2-inch socket wrench insert, TX head E18; Length 40 mm	0715 132 18	1
1/2-inch socket wrench insert, TX head E20; Length 40 mm	0715 132 20	1
1/2-inch socket wrench insert, TX head E24; Length 40 mm	0715 132 24	1
1/2" socket wrench insert TX20; Length 60 mm	0715 133 20	1
1/2" socket wrench insert TX25; Length 60 mm	0715 133 25	1
1/2" socket wrench insert TX27; Length 60 mm	0715 133 27	1
1/2" socket wrench insert TX30; Length 60 mm	0715 133 30	1
1/2" socket wrench insert TX40; Length 60 mm	0715 133 40	1
1/2" socket wrench insert TX45; Length 60 mm	0715 133 45	1
1/2" socket wrench insert TX50; Length 60 mm	0715 133 50	1
1/2" socket wrench insert TX55; Length 60 mm	0715 133 55	1
1/2" socket wrench insert TX60; Length 60 mm	0715 133 60	1
Hard foam insert for 1/2 inch socket wrench assortment		1
Metal box	0955 715 3	1

1/2 inch socket wrench assortment

For hex socket screws

Contents: 11 pcs.

- 1 ratchet
- 10 socket wrench inserts for hexagon socket:
 Sizes 5, 6, 7, 8, 9, 10, 12, 14, 17, 19



Number of pieces in assortment/set	11 PCS
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Art. no. 0965 13 110

P. Qty.: 1



Contents for art. no. 0965 13 110		
Designation	Art. no.	Quantity
1/2 inch ratchet	0712 012 0	1
1/2 inch socket wrench insert, metric 5 mm	0715 137 051	1
1/2 inch socket wrench insert, metric 6 mm	0715 137 060	1
1/2 inch socket wrench insert, metric 7 mm	0715 137 07	1
1/2 inch socket wrench insert, metric 8 mm	0715 137 080	1
1/2 inch socket wrench insert, metric 9 mm	0715 137 09	1
1/2 inch socket wrench insert, metric 10 mm	0715 137 100	1
1/2 inch socket wrench insert, metric 12 mm	0715 137 120	1
1/2 inch socket wrench insert, metric 12 mm	0715 137 14	1
1/2 inch socket wrench insert, metric 17 mm	0715 137 17	1
1/2 inch socket wrench insert, metric 19 mm	0715 137 19	1
Hard foam insert for 1/2 inch socket wrench assortment		1
Metal box Länge x Breite x Höhe= 315 x 115 x 40 mm	0955 715 2	1

1/2 inch socket wrench assortment, dust-protected

Dust-protected ratchet for a long service life even under difficult working conditions. With lever reverse.

High-quality, extensive 1/2 inch assortment including the most important wrench sizes

- Contents: 24 pieces
- Hex socket wrench inserts
- Hard foam with clamping effect, art. no. 095501224
- Metal box 405 x 165 x 50 mm, size 3, art. no. 09557153



Number of pieces in assortment/set	24 PCS
Width x height x depth	420 x 180 x 60 mm

Art. no. 0965 012 240

P. Qty.: 1



Contents for art. no. 0965 012 240

Designation	Art. no.	Quantity
1/2 inch lever reversible ratchet, dust-protected	0712 012 03	1
1/2 inch socket wrench insert 10 mm; Length 36 mm	0712 131 110	1
1/2 inch socket wrench insert 11 mm	0712 131 111	1
1/2 inch socket wrench insert 12 mm	0712 131 112	1
1/2 inch socket wrench insert 13 mm	0712 131 113	1
1/2 inch socket wrench insert 14 mm	0712 131 114	1
1/2 inch socket wrench insert 15 mm	0712 131 115	1
1/2 inch socket wrench insert 16 mm	0712 131 116	1
1/2 inch socket wrench insert 17 mm; Length 36 mm	0712 131 117	1
1/2 inch socket wrench insert 18 mm	0712 131 118	1
1/2 inch socket wrench insert 19 mm; Length 36 mm	0712 131 119	1
1/2 inch socket wrench insert 20 mm	0712 131 120	1
1/2 inch socket wrench insert 21 mm	0712 131 121	1
1/2 inch socket wrench insert 22 mm	0712 131 122	1
1/2 inch socket wrench insert 24 mm; Length 38 mm	0712 131 124	1
1/2 inch socket wrench insert 26 mm	0712 131 126	1
1/2 inch socket wrench insert 27 mm; Length 44 mm	0712 131 127	1
1/2 inch socket wrench insert 28 mm	0712 131 128	1
1/2 inch socket wrench insert 30 mm; Length 44 mm	0712 131 130	1
1/2 inch socket wrench insert 32 mm; Length 44 mm	0712 131 132	1
1/2 inch angled extension 50 mm	0712 138 100	1
1/2 inch extension Length 125 mm	0712 138 105	1
1/2 inch extension Length 250 mm	0712 138 110	1
1/2 inch cardan joint	0712 138 301	1

1/2 inch socket wrench assortment

24 pieces High-quality, comprehensive 1/2 inch assortment for the highest demands for functionality and durability, with lever reverse.



Number of pieces in assortment/set	24 PCS
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Art. no. 0965 012 24

P. Qty.: 1



Contents for art. no. 0965 012 24		
Designation	Art. no.	Quantity
Reversible ratchet 1/2 inch	0712 012 01	1
1/2 inch socket wrench insert 10 mm; Length 36 mm	0712 131 110	1
1/2 inch socket wrench insert 11 mm; Length 36 mm	0712 131 111	1
1/2 inch socket wrench insert 12 mm; Length 36 mm	0712 131 112	1
1/2 inch socket wrench insert 13 mm; Length 36 mm	0712 131 113	1
1/2 inch socket wrench insert 14 mm; Length 36 mm	0712 131 114	1
1/2 inch socket wrench insert 15 mm; Length 36 mm	0712 131 115	1
1/2 inch socket wrench insert 16 mm; Length 36 mm	0712 131 116	1
1/2 inch socket wrench insert 17 mm; Length 36 mm	0712 131 117	1
1/2 inch socket wrench insert 18 mm; Length 36 mm	0712 131 118	1
1/2 inch socket wrench insert 19 mm; Length 36 mm	0712 131 119	1
1/2 inch socket wrench insert 20 mm; Length 36 mm	0712 131 120	1
1/2 inch socket wrench insert 21 mm; Length 38 mm	0712 131 121	1
1/2 inch socket wrench insert 22 mm; Length 38 mm	0712 131 122	1
1/2 inch socket wrench insert 24 mm; Length 38 mm	0712 131 124	1
1/2 inch socket wrench insert 26 mm; Length 38 mm	0712 131 126	1
1/2 inch socket wrench insert 27 mm; Length 44 mm	0712 131 127	1
1/2 inch socket wrench insert 28 mm; Length 44 mm	0712 131 128	1
1/2 inch socket wrench insert 30 mm; Length 44 mm	0712 131 130	1
1/2 inch socket wrench insert 32 mm; Length 44 mm	0712 131 132	1
1/2 inch angled extension 50 mm	0712 138 100	1
1/2 inch extension Length 125 mm	0712 138 105	1
1/2 inch extension Length 250 mm	0712 138 110	1
1/2 inch cardan joint	0712 138 301	1
Rigid foam		1
Metal box	0955 715 3	1



1/4 inch and 1/2 inch socket wrench assortment

59-piece: Extensive 1/4 inch and 1/2 inch assortment for a very wide range of applications, ratchets with lever reverse.

Contents: 59 parts

1/4 inch:

- 1 lever ratchet
- 1 25 mm angled extension
- 1 150 mm extension
- 1 150 mm flexible extension
- 1 cardan joint
- 1 1/4 inch screwdriver handle
- 1 adapter with quick-change chuck
- 12 socket wrench inserts, sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14
- 3 PH bits, PH 1, 2, 3
- 4 bits for hexagon socket, 3, 4, 5, 6 mm
- 7 TX bits, TX 10, 15, 20, 25, 27, 30, 40
- 1 slotted bit, 0.8 x 5.5 mm

1/2 inch:

- 1 lever ratchet
- 1 53 mm angled extension
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint

- 19 socket wrench inserts, sizes 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 32

Number of pieces in assortment/set	59 PCS
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Art. no. 0965 090 59

P. Qty.: 1

1/4 inch and 1/2 inch socket wrench assortment, dust-protected

59-piece assortment with dust-protected ratchet ensuring durability, even under difficult working conditions. With lever reverse.

- Extensive combination assortment consisting of 1/4-inch and 1/2-inch hexagon socket wrench inserts



Number of pieces in assortment/set	59 PCS
Depth	260 mm
Width	350 mm
Size foam section	4



Art. no. 0965 090 590

P. Qty.: 1



3/4" POWERDRIV® socket wrench insert

Metric, hexagon

- Surface: chrome-plated, ground/matt
- Drive: 3/4 inch square drive, pin latch
- Version: Short
- Standard: DIN 3124, ISO 2725



Drive	3/4 inch
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POWERDRIV.



Width across flats	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Socket wrench depth (t)	Length (L1)	Art. no.	P. Qty.
22 mm	32.2 mm	36 mm	14 mm	50 mm	0715 142 22	1/6
24 mm	34.2 mm	36 mm	16 mm	51 mm	0715 142 24	1/6
27 mm	38 mm	36 mm	22 mm	52 mm	0715 142 27	1/6
30 mm	42 mm	38 mm	24 mm	54 mm	0715 142 30	1/6
32 mm	44 mm	38 mm	26 mm	56 mm	0715 142 32	1/6
36 mm	50 mm	42 mm	28 mm	58 mm	0715 142 36	1/6
38 mm	52 mm	45 mm	28 mm	60 mm	0715 142 38	1/6

Continuation **3/4" POWERDRIV®** socket wrench insert

Width across flats	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Socket wrench depth (t)	Length (L1)	Art. no.	P. Qty.
41 mm	56 mm	45 mm	30 mm	64 mm	0715 142 41	1
46 mm	62 mm	48 mm	34 mm	68 mm	0715 142 46	1
50 mm	68 mm	48 mm	36 mm	68 mm	0715 142 50	1

3/4" POWERDRIV® socket wrench insert

Metric, bi-hexagon

- Surface: chrome-plated, ground/matt
- Drive: 3/4 inch square drive, pin latch
- Version: Short
- Standard: DIN 3124, ISO 2725



Drive	3/4 inch
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POWERDRIV



Width across flats	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Socket wrench depth (t)	Length (L1)	Art. no.	P. Qty.
22 mm	32.2 mm	36 mm	14 mm	50 mm	0715 141 22	1/6
24 mm	34.2 mm	36 mm	16 mm	51 mm	0715 141 24	1/6
27 mm	38 mm	36 mm	22 mm	52 mm	0715 141 27	1/6
30 mm	42 mm	38 mm	24 mm	54 mm	0715 141 30	1/6
32 mm	44 mm	38 mm	26 mm	56 mm	0715 141 32	1/6
34 mm	47 mm	38 mm	26 mm	56 mm	0715 141 34	1/6
36 mm	50 mm	42 mm	28 mm	58 mm	0715 141 36	1/6
38 mm	52 mm	45 mm	28 mm	60 mm	0715 141 38	1/6
41 mm	56 mm	45 mm	30 mm	64 mm	0715 141 41	1/6
46 mm	62 mm	47 mm	34 mm	68 mm	0715 141 46	1/6
50 mm	68 mm	48 mm	36 mm	68 mm	0715 141 50	1/6
55 mm	74 mm	48 mm	40 mm	76 mm	0715 141 55	1/4
60 mm	80 mm	48 mm	42 mm	78 mm	0715 141 60	1/3

3/4-inch ratchet

Flexible 2-part handle

- Output: 20 = 3/4 inch square drive
- Standard: DIN 3122, ISO 3315
- Head: Finely toothed with 72 teeth, 5° angle of rotation
- Surface: Chrome-plated, polished



Tip size	3/4 inch
Ratchet diameter (D2)	52 mm



Handle diameter (D1)	39 mm
Length (L1)	530 mm

Art. no. 0715 141 01

P. Qty.: 1

3/4-inch connector

- Surface: chrome-plated
- Standard: DIN 3123, ISO 3316

Material	Steel
Surface	Chrome plated



Tip size (S1)	Drive (S2)	Socket wrench external diameter (D1)	Length (L1)	Art. no.	P. Qty.
1/2 inch	3/4 inch	34 mm	53.5 mm	0715 141 08	1
3/4 inch	1 inch	48 mm	66 mm	0715 141 10	1

3/4 inch socket wrench assortment

15 pieces. Hex head, metric, assortment box in metal design

Number of pieces in assortment/set	15 PCS
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Art. no. 0965 14 15

P. Qty.: 1



Contents for art. no. 0965 14 15		
Designation	Art. no.	Quantity
3/4-inch ratchet	0715 141 01	1
3/4" T-handle	0715 141 04	1
3/4" extension 200 mm	0715 141 05	1
3/4" extension 400 mm	0715 141 06	1
3/4" cardan joint	0715 141 07	1
3/4" POWERDRIV® socket wrench insert 22 mm	0715 142 22	1
3/4" POWERDRIV® socket wrench insert 24 mm	0715 142 24	1
3/4" POWERDRIV® socket wrench insert 27 mm	0715 142 27	1
3/4" POWERDRIV® socket wrench insert 30 mm	0715 142 30	1
3/4" POWERDRIV® socket wrench insert 32 mm	0715 142 32	1
3/4" POWERDRIV® socket wrench insert 36 mm	0715 142 36	1
3/4" POWERDRIV® socket wrench insert 38 mm	0715 142 38	1

Continuation **3/4 inch socket wrench assortment**

Designation	Art. no.	Quantity
3/4" POWERDRIV® socket wrench insert 41 mm	0715 142 41	1
3/4" POWERDRIV® socket wrench insert 46 mm	0715 142 46	1
3/4" POWERDRIV® socket wrench insert 50 mm	0715 142 50	1

3/4 inch socket wrench assortment, bi-hexagon

Metric, 15 pcs.

Metal assortment box

Contents: 15 pieces

- 1 ratchet
- 1 200 mm extension
- 1 400 mm extension
- 1 cardan joint
- 1 t-handle
- 10 socket wrench inserts:
Sizes 22, 24, 27, 30, 32, 36, 38, 41, 46, 50 mm



Number of pieces in assortment/set	15 PCS
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Art. no. 0965 14 150

P. Qty.: 1

Contents for art. no. 0965 14 150		
Designation	Art. no.	Quantity
3/4-inch ratchet	0715 141 01	1
3/4" T-handle	0715 141 04	1
3/4" extension 200 mm	0715 141 05	1
3/4" extension 400 mm	0715 141 06	1
3/4" cardan joint	0715 141 07	1
3/4" POWERDRIV® socket wrench insert 22 mm	0715 141 22	1
3/4" POWERDRIV® socket wrench insert 24 mm	0715 141 24	1
3/4" POWERDRIV® socket wrench insert 27 mm	0715 141 27	1
3/4" POWERDRIV® socket wrench insert 30 mm	0715 141 30	1
3/4" POWERDRIV® socket wrench insert 32 mm	0715 141 32	1
3/4" POWERDRIV® socket wrench insert 36 mm	0715 141 36	1
3/4" POWERDRIV® socket wrench insert 38 mm	0715 141 38	1
3/4" POWERDRIV® socket wrench insert 41 mm	0715 141 41	1
3/4" POWERDRIV® socket wrench insert 46 mm	0715 141 46	1
3/4" POWERDRIV® socket wrench insert 50 mm	0715 141 50	1

1 inch socket wrench assortment

Metric

Metal assortment box

Number of pieces in assortment/set	13 PCS
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Art. no. 0965 15 12

P. Qty.: 1



Contents for art. no. 0965 15 12		
Designation	Art. no.	Quantity
1" ratchet head	0714 110 0	1
1" slider bar	0714 110 200	1
1" slider Diameter of hole=28 mm	0714 110 201	1
1" socket wrench insert 36 mm	0714 151 136	1
1" socket wrench insert 41 mm	0714 151 141	1
1" socket wrench insert 46 mm	0714 151 146	1
1" socket wrench insert 50 mm	0714 151 150	1
1" socket wrench insert 55 mm	0714 151 155	1
1" socket wrench insert 60 mm	0714 151 160	1
1" socket wrench insert 65 mm	0714 151 165	1
1" socket wrench insert 70 mm	0714 151 170	1
1" extension 200 mm	0714 158 108	1
1" extension 400 mm	0714 158 116	1

1/2 inch impact socket wrench insert

Hexagon, metric, short

- Suitable for all standard compressed air and electric screwdrivers
- Standard: square drive according to DIN 3121
- Design: forged, burnished



Drive	1/2 inch
Tip type	For outer hexagon
Surface	Burnished

Drive type	Width across flats	Length (L1)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
Internal square	3/8 inch	38 mm	15 mm	25 mm	0714 13 02	1
Internal square	7 mm	38 mm	17 mm	25 mm	0714 13 007	1/10
Internal square	9 mm	38 mm	17 mm	25 mm	0714 13 009	1/10
Internal square	10 mm	38 mm	17 mm	25 mm	0714 13 03	1
Internal square	12 mm	38 mm	20 mm	25 mm	0714 13 04	1
Internal square	13 mm	38 mm	21 mm	25 mm	0714 13 05	1

Continuation 1/2 inch impact socket wrench insert

Drive type	Width across flats	Length (L1)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
Internal square	14 mm	38 mm	22.5 mm	25 mm	0714 13 06	1
Internal square	15 mm	38 mm	23 mm	30 mm	0714 13 07	1
Internal square	16 mm	38 mm	25 mm	30 mm	0714 13 071	1
Internal square	17 mm	38 mm	26 mm	30 mm	0714 13 08	1
Internal square	18 mm	38 mm	27.3 mm	30 mm	0714 13 081	1
Internal square	19 mm	38 mm	28.5 mm	30 mm	0714 13 09	1
Internal square	21 mm	38 mm	30 mm	30 mm	0714 13 091	1
Internal square	22 mm	38 mm	32 mm	30 mm	0714 13 10	1
Internal square	23 mm	38 mm	34 mm	30 mm	0714 13 101	1
Internal square	24 mm	38 mm	34 mm	30 mm	0714 13 11	1
Internal square	27 mm	42 mm	38 mm	30 mm	0714 13 12	1
Internal square	30 mm	42 mm	42 mm	30 mm	0714 13 30	1
Internal square	32 mm	44 mm	44 mm	30 mm	0714 13 32	1
Internal square	34 mm	44 mm	46 mm	30 mm	0714 13 34	1
Internal square	36 mm	48 mm	49 mm	30 mm	0714 13 36	1
Outer square	11 mm	38 mm	18.5 mm	25 mm	0714 13 031	1

1/2-inch impact socket wrench insert

Hexagon, metric, long

- Fits all conventional compressed air and electric drivers
- Standard: Square drive acc. to DIN 3121
- Design: forged, burnished



Drive	1/2 inch
Drive type	Internal square
Tip type	For outer hexagon
Length (L1)	78 mm

Width across flats	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Socket wrench depth (t)	Material	Art. no.	P. Qty.
8 mm	15 mm	25 mm	4 mm	Steel	0714 13 125	1
10 mm	17.5 mm	25 mm	5 mm	Steel	0714 13 127	1
11 mm	18.5 mm	25 mm	6 mm	Steel	0714 13 128	1
13 mm	20.5 mm	25 mm	6 mm	Steel	0714 13 13	1
14 mm	22 mm	25 mm	8 mm	Steel	0714 13 130	1
16 mm	24 mm	30 mm	8 mm	Steel	0714 13 131	1
17 mm	25 mm	30 mm	8 mm	Steel	0714 13 14	1
18 mm	26 mm	30 mm	9 mm	Steel	0714 13 142	1
19 mm	27 mm	30 mm	9 mm	Steel	0714 13 15	1
21 mm	30 mm	30 mm	10 mm	Steel	0714 13 151	1
22 mm	32 mm	30 mm	10 mm	Steel	0714 13 16	1
23 mm	34 mm	30 mm	12 mm	Steel	0714 13 161	1
24 mm	34 mm	30 mm	12 mm	Steel	0714 13 17	1
27 mm	38 mm	30 mm	13 mm	Steel	0714 13 18	1
30 mm	42 mm	30 mm	15 mm	Steel	0714 13 194	1

1/2-inch impact socket wrench insert

Hexagon, metric, short with deep hexagon socket for e.g. wheel nuts

- Fits all conventional compressed air and electric drivers
- Standard: Square drive acc. to DIN 3121
- Design: forged, burnished



Drive	1/2 inch
Drive type	Internal square
Tip type	For outer hexagon
Length (L1)	45 mm
Socket wrench external diameter 2 (D2)	30 mm
Socket wrench depth (t)	20 mm
Material	Steel
Surface	Burnished
Standards	ISO 1174 DIN 3121

Width across flats	Socket wrench external diameter (D1)	Art. no.	P. Qty.
17 mm	25 mm	0714 13 19	1
19 mm	30 mm	0714 13 20	1
22 mm	32 mm	0714 13 21	1
24 mm	34 mm	0714 13 24	1

1/2-inch impact socket wrench insert

Bi-hexagon, metric, short

- Fits all conventional compressed air and electric drivers
- Standard: Square drive acc. to DIN 3121
- Design: forged, burnished



Drive	1/2 inch
Drive type	Internal square
Tip type	Twelve-sided head
Length (L1)	38 mm
Material	Steel
Surface	Burnished
Standards	ISO 1174 DIN 3121

Width across flats	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Socket wrench depth (t)	Art. no.	P. Qty.
10 mm	17.5 mm	24 mm	10 mm	0714 131 910	1
12 mm	19.5 mm	24 mm	10 mm	0714 131 912	1
13 mm	20.5 mm	24 mm	10 mm	0714 131 913	1
17 mm	26 mm	26 mm	12 mm	0714 131 917	1
19 mm	28 mm	28 mm	14 mm	0714 131 919	1
21 mm	30 mm	30 mm	14 mm	0714 131 921	1
22 mm	32 mm	32 mm	14 mm	0714 131 922	1

1/2 inch impact socket wrench insert, power

With integrated reinforcement ring for longer service life



- Standard: DIN 3121/ISO 1174
- Drive: Hole for locking pin and groove for O-ring
- Geometry: long
- Reinforcement ring for long service life
- Replaceable plastic sleeve to protect aluminium rims
- Colour-coded socket wrenches

Drive	1/2 inch
Drive type	Internal square
Tip type	For outer hexagon
Length (L1)	86 mm
Socket wrench depth (t)	20 mm
Design	Forged
Material	Steel
Surface	Burnished
Standards	ISO 1174 DIN 3121

Width across flats	Socket wrench external diameter (D1)	Sleeve inside diameter (d2)	Sleeve outside diameter (d3)	Art. no.	P. Qty.
17 mm	25.5 mm	24 mm	26 mm	0714 134 17	1
19 mm	27.5 mm	26 mm	28 mm	0714 134 19	1
21 mm	30 mm	28 mm	30 mm	0714 134 21	1

1/2 inch impact socket wrench insert Extra long

Especially suited for deep-seated wheel nuts.

- Perfect working length
- Rotatable plastic sleeve protects the coating of the aluminium rim
- With colour guide system and size marking



POWERDRIV

Drive	1/2 inch
Tip type	Outer hexagon
Length (L1)	130 mm
Socket wrench external diameter (D1)	30 mm
Socket wrench depth (t)	35 mm
Design	Hole for retaining pin and groove for O-ring, Extra long, Metric
Material	Steel
Surface	Burnished
Standards	ISO 1174 DIN 3121

Drive type	Width across flats	Sleeve inside diameter (d2)	Sleeve outside diameter (d3)	Art. no.	P. Qty.
Square-cut	17 mm	25.5 mm	28.5 mm	0714 130 170	1/10
Internal square	19 mm	27.5 mm	30.5 mm	0714 130 190	1/10
Internal square	21 mm	29.5 mm	32.5 mm	0714 130 210	1/10

1/2-inch impact socket wrench insert

For TX socket screws, short

- Fits all conventional compressed air and electric drivers
- Standard: Square drive acc. to DIN 3121
- Design: forged, burnished



Drive	1/2 inch
Drive type	Internal square
Tip type	TX
Length (L1)	43 mm
Blade length (L2)	20.3 mm
Socket wrench external diameter (D1)	25 mm
Surface	Burnished

Tip size	Material	Standards	Art. no.	P. Qty.
TX30	Steel	ISO 1174 DIN 3121	0715 136 30	1
TX40	Steel	ISO 1174 DIN 3121	0715 136 40	1
TX45	Hardened steel		0715 136 45	1
TX50	Steel	ISO 1174 DIN 3121	0715 136 50	1
TX55	Steel	ISO 1174 DIN 3121	0715 136 55	1
TX60	Steel	ISO 1174 DIN 3121	0715 136 60	1

3/4-inch impact socket wrench insert

6-point, metric, short

- Fits all conventional compressed air and electric drivers
- Standard: Square drive acc. to DIN 3121
- Design: forged, burnished



Drive	3/4 inch
Socket wrench external diameter 2 (D2)	44 mm

Width across flats	Length (L1)	Socket wrench external diameter (D1)	Socket wrench depth (t)	Art. no.	P. Qty.
17 mm	51 mm	29 mm	13 mm	0714 14 01	1
18 mm	51 mm	30 mm	13 mm	0714 14 011	1
19 mm	51 mm	32 mm	15 mm	0714 14 02	1
21 mm	51 mm	35 mm	15 mm	0714 14 021	1
22 mm	51 mm	36 mm	15 mm	0714 14 03	1
24 mm	51 mm	39 mm	16 mm	0714 14 04	1
27 mm	54 mm	42 mm	16 mm	0714 14 05	1
30 mm	54 mm	46 mm	16 mm	0714 14 06	1
32 mm	57 mm	48 mm	18 mm	0714 14 07	1
33 mm	57 mm	50 mm	20 mm	0714 14 071	1
34 mm	57 mm	52 mm	20 mm	0714 14 072	1
36 mm	57 mm	54 mm	20 mm	0714 14 08	1

3/4-inch impact socket wrench insert

Hexagon, metric, long

- Fits all conventional compressed air and electric drivers
- Standard: Square drive acc. to DIN 3121
- Design: forged, burnished



Drive	3/4 inch
Length (L1)	90 mm
Socket wrench external diameter 2 (D2)	44 mm

Width across flats	Socket wrench external diameter (D1)	Socket wrench depth (t)	Art. no.	P. Qty.
17 mm	29 mm	13 mm	0714 14 09	1
18 mm	30 mm	13 mm	0714 14 091	1
19 mm	32 mm	15 mm	0714 14 10	1
21 mm	35 mm	15 mm	0714 14 101	1
22 mm	36 mm	15 mm	0714 14 11	1
24 mm	39 mm	16 mm	0714 14 12	1
27 mm	42 mm	16 mm	0714 14 13	1
30 mm	46 mm	16 mm	0714 14 14	1
32 mm	48 mm	18 mm	0714 14 15	1
33 mm	50 mm	20 mm	0714 14 151	1
34 mm	52 mm	20 mm	0714 14 152	1
36 mm	54 mm	20 mm	0714 14 16	1
41 mm	60 mm	21 mm	0714 14 41	1
46 mm	66 mm	24 mm	0714 14 46	1

3/4 inch connector

With 3/4-inch square drive and ball lock

- Fits all conventional compressed air and electric drivers
- Standard: Square drive acc. to DIN 3121
- Design: forged, burnished



Drive (S2)	3/4 inch
Socket wrench external diameter (D1)	44 mm

Tip size (S1)	Length (L1)	Art. no.	P. Qty.
1/2 inch	58 mm	0714 14 191	1
1 inch	63 mm	0714 14 19	1

1-inch impact socket wrench insert

Hexagon, metric, short

- Fits all conventional compressed air and electric drivers
- Standard: Square drive acc. to DIN 3121
- Design: forged, burnished



Drive	1 inch
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Width across flats	Length (L1)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Socket wrench depth (t)	Art. no.	P. Qty.
22 mm	58 mm	39 mm	54 mm	15 mm	0714 15 001	1
24 mm	58 mm	42 mm	54 mm	16 mm	0714 15 01	1
27 mm	58 mm	46 mm	54 mm	16 mm	0714 15 02	1
30 mm	62 mm	49 mm	54 mm	16 mm	0714 15 03	1
32 mm	62 mm	52 mm	54 mm	18 mm	0714 15 04	1
33 mm	62 mm	54 mm	54 mm	20 mm	0714 15 33	1
34 mm	62 mm	54 mm	54 mm	20 mm	0714 15 041	1
36 mm	65 mm	56 mm	54 mm	20 mm	0714 15 05	1
38 mm	65 mm	58 mm	54 mm	20 mm	0714 15 38	1
41 mm	68 mm	61 mm	54 mm	21 mm	0714 15 41	1
42 mm	68 mm	64 mm	54 mm	24 mm	0714 15 42	1
46 mm	72 mm	68 mm	54 mm	24 mm	0714 15 46	1
50 mm	75 mm	74 mm	54 mm	26 mm	0714 15 50	1
55 mm	83 mm	80 mm	54 mm	28 mm	0714 15 55	1
60 mm	87 mm	86 mm	54 mm	30 mm	0714 15 60	1
65 mm	90 mm	92 mm	54 mm	32 mm	0714 15 65	1
70 mm	93 mm	97 mm	54 mm	32 mm	0714 15 70	1
75 mm	95 mm	104 mm	86 mm	35 mm	0714 15 75	1
80 mm	95 mm	112 mm	86 mm	38 mm	0714 15 80	1

1-inch impact socket wrench insert

Hexagon, metric, long

- Fits all conventional compressed air and electric drivers
- Standard: Square drive acc. to DIN 3121
- Design: forged, burnished



Drive	1 inch
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Width across flats	Length (L1)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Socket wrench depth (t)	Art. no.	P. Qty.
24 mm	90 mm	42 mm	54 mm	16 mm	0714 151 24	1
27 mm	90 mm	46 mm	54 mm	16 mm	0714 151 27	1
30 mm	90 mm	49 mm	54 mm	16 mm	0714 151 30	1
32 mm	90 mm	52 mm	54 mm	18 mm	0714 151 32	1
33 mm	90 mm	54 mm	54 mm	20 mm	0714 151 33	1
34 mm	90 mm	54 mm	54 mm	20 mm	0714 151 34	1
36 mm	90 mm	56 mm	54 mm	20 mm	0714 151 36	1
38 mm	95 mm	58 mm	54 mm	20 mm	0714 151 38	1
41 mm	95 mm	61 mm	54 mm	21 mm	0714 151 41	1
46 mm	95 mm	68 mm	54 mm	24 mm	0714 151 46	1
55 mm	105 mm	80 mm	54 mm	28 mm	0714 151 55	1
60 mm	110 mm	86 mm	54 mm	30 mm	0714 151 60	1
65 mm	115 mm	92 mm	54 mm	32 mm	0714 151 65	1
70 mm	120 mm	97 mm	54 mm	34 mm	0714 151 70	1
75 mm	135 mm	104 mm	86 mm	34 mm	0714 151 75	1
80 mm	135 mm	112 mm	86 mm	38 mm	0714 151 80	1

1/2 inch torque wrench

With push-through square drive, ratchet head (60 teeth)



- Accuracy of $\pm 3\%$ to the set value, in accordance with DIN EN ISO 6789:2003
- Simple and precise setting by turning the handle
- Switchover and/or push-through square drive
- Scaling in Nm and also in pound force per square foot
- Acoustic and tangible torque triggering prevents over-tightening of bolts
- Anti-slip 2-component handle
- With calibration certificate

Tip size	1/2 inch
Min./max. torque measuring range	60-300 Nm
Min./max. torque measuring range (inches)	45-220 lbf.ft
Suitable for right-hand tightening	Yes
Suitable for left-hand tightening	Yes
Scale value torque	5 Nm
ISO	DIN EN ISO 6789-1:2017
Length (L1)	570 mm
Length of lever (L2)	550 mm
Ratchet head height (B1)	22 mm
Ratchet head height with square (B2)	45 mm
Handle diameter (D1)	37 mm

Art. no. 0714 71 24

P. Qty.: 1

Torque wrenches are precision tools that must be checked at regular intervals with suitable measuring equipment and adjusted if necessary. We recommend annual calibration by our Master Service.

1/2 inch torque wrench

With push-through square drive and fine toothed ratchet head (72 teeth)



- Simple and precise setting by turning the handle
- Switchover and/or push-through square drive
- Scaling in Nm and also in pounds per square foot

Tip size	1/2 inch
Min./max. torque measuring range	20-100 Nm
Min./max. torque measuring range (inches)	15-80 lbf.ft
Suitable for right-hand tightening	Yes
Suitable for left-hand tightening	Yes
Scale value torque	1 Nm
ISO	DIN EN ISO 6789-1:2017
Length (L1)	350 mm

Length of lever (L2)	330 mm
Ratchet head height (B1)	22 mm
Ratchet head height with square (B2)	37 mm
Handle diameter (D1)	37 mm

Art. no. 0714 71 22

P. Qty.: 1

Torque wrenches are precision tools that must be checked at regular intervals with suitable measuring equipment and adjusted if necessary. We recommend annual calibration by our Master Service.



1/2 inch torque wrench

With push-through square drive and fine toothed ratchet head (72 teeth)

- Accuracy of $\pm 3\%$ to the set value, in accordance with DIN EN ISO 6789:2003
- Simple and precise setting by turning the handle
- Switchover and/or push-through square drive
- Scaling in Nm and also in pound force per square foot
- Acoustic and tangible torque triggering prevents over-tightening of bolts
- Anti-slip 2-component handle
- With calibration certificate

Tip size	1/2 inch
Min./max. torque measuring range	40-200 Nm
Min./max. torque measuring range (inches)	30-150 lbf.ft
Suitable for right-hand tightening	Yes
Suitable for left-hand tightening	Yes
Scale value torque	2 Nm
ISO	DIN EN ISO 6789-1:2017
Length (L1)	440 mm
Length of lever (L2)	420 mm
Ratchet head height (B1)	26 mm

Ratchet head height with square (B2)	42 mm
Handle diameter (D1)	37 mm

Art. no. 0714 71 23

P. Qty.: 1

1/4-inch torque wrench

With switchover square drive

- Accuracy of $\pm 3\%$ to the set value, to ISO 6789:2003
- Simple and precise setting by turning the handle
- With fine-toothed ratchet head (72 teeth) for working in the tightest places
- Scaling in Nm and also in pound force per square foot
- Acoustic and tangible torque triggering prevents over-tightening of bolts
- With calibration certificate



Tip size	1/4 inch
Min./max. torque measuring range	4-20 Nm
Min./max. torque measuring range (inches)	40-180 lbf.in
Suitable for right-hand tightening	Yes
Suitable for left-hand tightening	No
Scale value torque	1 Nm
ISO	DIN EN ISO 6789-1:2017
Length (L1)	220 mm
Length of lever (L2)	205 mm
Ratchet head height (B1)	17 mm
Ratchet head height with square (B2)	25 mm
Handle diameter (D1)	40 mm

Art. no. 0714 71 20

P. Qty.: 1

- After use, relax spring and set to lowest value.
- Torque wrenches are precision tools that must be checked at regular intervals with suitable measuring equipment and adjusted if necessary. We recommend annual calibration by our Master Service.

Torque wrench

With switchover square drive, fine-toothed ratchet head (72 teeth)

- Accuracy of $\pm 3\%$ to the set value, in accordance with DIN EN ISO 6789:2003
- Simple and precise setting by turning the handle
- Scaling in Nm and also in pound force per square foot
- Acoustic and tangible torque triggering prevents over-tightening of bolts
- Anti-slip 2-component handle
- With calibration certificate



Continuation **Torque wrench**

Tip size	3/8 inch
Min./max. torque measuring range	20-100 Nm
Min./max. torque measuring range (inches)	15-80 lbf.ft
Suitable for right-hand tightening	Yes
Suitable for left-hand tightening	Yes
Scale value torque	1 Nm
ISO	DIN EN ISO 6789-1:2017
Length (L1)	350 mm
Length of lever (L2)	330 mm
Ratchet head height (B1)	22 mm
Ratchet head height with square (B2)	33 mm
Handle diameter (D1)	37 mm

Art. no. 0714 71 21

P. Qty.: 1

Torque wrenches are precision tools that must be checked at regular intervals with suitable measuring equipment and adjusted if necessary. We recommend annual calibration by our Master Service.

1/4 inch torque wrench, hexagonal

- Accuracy of $\pm 6\%$ to the set value, in accordance with DIN EN ISO 6789:2003
- Adapter for 1/4 inch hexagon drive to 1/4 inch square drive
- Acoustic and tangible torque triggering prevents over-tightening of bolts
- With calibration certificate
- Supplied in PVC storage box



Tip size	1/4 inch
Min./max. torque measuring range	1-5 Nm
Suitable for right-hand tightening	Yes
Suitable for left-hand tightening	Yes
Scale value torque	0.1 Nm
ISO	DIN EN ISO 6789-1:2017
Length	165 mm

Art. no. 0714 71 19

P. Qty.: 1

Torque wrenches are precision tools that must be checked at regular intervals with suitable measuring equipment and be adjusted if necessary. We recommend annual calibration by our Master Service.

3/4 inch torque wrench

Switchover square drive

- Accuracy of $\pm 3\%$ to the set value, in accordance with DIN EN ISO 6789:2003
- Simple and precise setting by turning the handle
- Acoustic and tangible torque triggering prevents over-tightening of bolts
- With calibration certificate



Tip size	3/4 inch
Suitable for right-hand tightening	Yes
Suitable for left-hand tightening	Yes
ISO	DIN EN ISO 6789-1:2017

Min./max. torque measuring range	Min./max. torque measuring range (inches)	Scale value torque	Length	Head diameter	Art. no.	P. Qty.
110-550 Nm	80-405 lbf.in	5 Nm	850 mm	60 mm	0714 71 26	1
300-1000 Nm	220-750 lbf.in	10 Nm	1750 mm	75 mm	0714 71 25	1

Art. no. 071471 25: Total length 1750 mm including 500 mm extension

Torque wrenches are precision tools that must be checked at regular intervals with suitable measuring equipment and adjusted if necessary. We recommend annual calibration by our Master Service.

Open-end plug tool wrench

Solves difficult installation problems - easily replaceable

- With pin detent
- Mount: 16 mm
- Material: 31CrV3



Width across flats	Art. no.	P. Qty.
13 mm	0714 71 313	1
17 mm	0714 71 317	1
19 mm	0714 71 319	1
24 mm	0714 71 324	1
30 mm	0714 71 330	1

Torque wrench

For plug-in tool

- Ideal for inaccessible screw joints in tight places
- Tool quick-change system with pin locking mechanism guarantees flexible and swift operation.
- Accuracy of $\pm 3\%$ to the set value, in accordance with DIN EN ISO 6789:2003.
- Simple and precise setting by turning the handle.
- Mount: $\varnothing 16$ mm
- Scaling in Nm and also in pound force per square foot
- Acoustic and tangible torque triggering prevents over-tightening of bolts.
- Anti-slip 2-component handle
- After use, relax spring and set to lowest value.
- With calibration certificate



Tip size	16 mm
ISO	DIN EN ISO 6789-1:2017
Wrench-drive diameter (B1)	16 mm
Handle diameter (D1)	37 mm

Min./max. torque measuring range	Min./max. torque measuring range (inches)	Length (L1)	Art. no.	P. Qty.
8-60 Nm	5-45 lbf.in	301 mm	0714 71 30	1
40-200 Nm	30-150 lbf.in	423 mm	0714 71 31	1

Plug-in ratchet

- For solving difficult assembly problems – easily replaceable
- Push-through square drive
- With pin lock
- Mount: 16 mm
- Material: 31CrV3



Tip size	Design	Number of teeth	Art. no.	P. Qty.
1/2 inch	Heavy cranked	36 PCS	0714 71 302	1
3/8 inch	Straight	72 PCS	0714 71 301	1



Wire brush

With wooden body

Wire diameter	0.35 mm
Length of bristles (L3)	25 mm
Length (L1)	290 mm
Length of head (L2)	135 mm

Material of the wire	Number of rows	Width (B)	Art. no.	P. Qty.
Brass	2 PCS	22 mm	0697 02	1/10
Brass	3 PCS	28 mm	0697 03	1/10
Brass	4 PCS	33 mm	0697 04	1/10
Brass	5 PCS	38 mm	0697 05	1/10
Brass	6 PCS	43 mm	0697 06	1/10
Stainless steel A2	2 PCS	22 mm	0697 12	1/10
Stainless steel A2	3 PCS	28 mm	0697 13	1/10
Stainless steel A2	4 PCS	33 mm	0697 14	1/10
Stainless steel A2	5 PCS	38 mm	0697 15	1/10
Stainless steel A2	6 PCS	43 mm	0697 16	1/10
Steel	2 PCS	22 mm	0697 2	1/10
Steel	3 PCS	28 mm	0697 3	1/10
Steel	4 PCS	33 mm	0697 4	1/10
Steel	5 PCS	38 mm	0697 5	1/10
Steel	6 PCS	43 mm	0697 6	1/10

Fillet weld brush

This V-shaped brush removes slag and scale from difficult to reach welded joints and fillet welds.



Number of rows	3 PCS
Wire diameter	0.35 mm
Length of bristles (L3)	35 mm
Width (B)	35 mm
Length (L1)	290 mm
Length of head (L 2)	135 mm

Material of the wire	Art. no.	P. Qty.
Corrosion resistant steel	0697 131	3
Steel	0697 31	5

Tile cutter Professional

Robust tile cutter with outstanding cutting quality for trade professionals

Steel base plate

Highly robust for long service life

Spring-loaded tile supports

Prevents tiles shattering during breaking

Roller-guided cutting and scoring lever

Precision roller guidance, high cutting accuracy

Tungsten carbide cutting wheel

High cutting quality and long service life



Length x width	8651 x 300 mm
Cutting length	640 mm

Art. no. 0714 610 640

P. Qty.: 1

Tile cutting pliers

High-quality tile cutter for cutting even extremely narrow sections of tiles and stoneware

- Simple adjustment of the respective tile thickness at the touch of a button
- Extremely high breaking force due to 10-fold power transmission
- Plastic support jaws prevent damage to the tile surface, also ideal for long and thick tiles



Length	250 mm
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Art. no. 0715 02 910

P. Qty.: 1

Tile cutter

Cutting length 610 mm

- Robust and height-adjustable guide rail
- Breakers above and below
- Rubber cover on underside of guide rail
- Embossed number scale and angle stop
- Cutting wheel with titanium nitride coating
- Grip in wooden board
- Recess for cutting wheel
- Includes angle cutting guide



Cutting length	610 mm
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Art. no. 0714 610

P. Qty.: 1

Tile-washing bucket system

For effective pre-cleaning and washing of freshly grouted tiled surfaces, 23 litres

- Optimum cleaning results and significant savings of time and effort
- Systematic right/left emptying of the bucket content
- Bucket quick to clean
- Float with hydro sponge and ergonomic 2-component soft handle with thumb rest



Material	PP - Polypropylene
Colour	Black
Contents	23 l
Included in delivery (Lieferumfang)	High-quality tile-washing bucket, 23 litre

Art. no. 0695 942 015

P. Qty.: 1

Mixing bucket

High-quality 30-litre bucket made of transparent polypropylene for mixing various building materials

- Litre scale printed on both sides
- 2 recessed handles for easy transport

Colour	White
Contents	30 l
Height	43 cm



Art. no. 0695 942 990

P. Qty.: 1

Tile levelling system set

201 pieces. Complete set for easy and precise laying of large-sized tiles from a joint width of 1.2 mm.

- Suitable for tile thicknesses of up to 20 mm. Precise alignment of the tiles avoids countersinking, ensures a high degree of uniformity and saves time.
- The tension plate breaks off beneath the tile, preventing cracking due to plastic parts in the joint material.
- The large surface area of the cross piece ensures uniform pressure distribution during the clamping process, thus preventing damage to the tile surface.



Art. no. 0714 610 200

P. Qty.: 1

Tile levelling rod

For levelling and setting out the tension plates of the tile levelling system.

- High traction
- Dial for setting the desired application (clamping and removal)
- Record grid in the clevis made of steel
- Pliers housing made of high-quality plastic



Length	210 mm
Width	28 mm

Art. no. 0714 610 210

P. Qty.: 1

The pliers are required together with the tile levelling system set for laying large-sized tiles.

Tile levelling crossbeam

For levelling tiles together with the tile levelling system.

- The side wings generate a constant pressure along the joint, in order to guarantee a perfect result up to the curing of the adhesive.
- The crossbeam can be unclamped under tension by applying light pressure to the side in order to clean the joints to clean or correct the joint appearance.



Length	44 mm
Height	33 mm
Width	95 mm

Art. no. 0714 610 211

P. Qty.: 100

Can only be used in combination with the tile levelling system.

Tile levelling plate

High-quality clamping plate for levelling large-sized tiles in combination with the tile levelling system.

- High-quality plastic with extremely high tensile strength

Length	81 mm
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Art. no. 0714 610 212

P. Qty.: 500

Can only be used in combination with the tile levelling system.



Float, large-pored

Sponge rubber cover for distributing compounds

Drainage channel

Length x width	280 x 140 mm
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Art. no. 0695 942 25

P. Qty.: 1



Float, fine-pored

Sponge rubber cover, for a light, sandy structure

Drainage channel

Length x width	280 x 140 mm
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Art. no. 0695 942 26

P. Qty.: 1



Sponge float

Hydro sponge

- Good absorption of water
- High abrasion resistance
- Excellent cleaning effect
- Drainage channel
- Cover thickness 30 mm

Length x width	280 x 140 mm
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Art. no. 0695 942 23

P. Qty.: 1



Polyurethane float

- High abrasion resistance
- Flattened handle shape for more comfortable working



Length x width	Art. no.	P. Qty.
240 x 120 mm	0695 942 31	5
280 x 140 mm	0695 942 32	5
320 x 180 mm	0695 942 33	5
420 x 220 mm	0993 420 220	1

Screw handle spatula

Ideal for filling plasterboard joints. The bit with the Philips drive is suitable for quick screwing.

- Bit on handle
- Rustproof

Width	150 mm
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Art. no. 0695 940 895

P. Qty.: 1



Japanese spatula, spring steel

For applying and smoothing filler and plaster over smaller areas.

- Extra-flexible blade in spring steel
- Plastic back



Width (b)	Art. no.	P. Qty.
50 mm	0695 940 915	10
80 mm	0695 940 918	10
100 mm	0695 940 911	10
120 mm	0695 940 912	10

Stainless steel Japanese spatula set

4 pcs: In sizes 1 x 50, 80, 100 and 120 mm

- Blade in rustproof stainless steel
- Acid-resistant, high-quality plastic back



Art. no. 0695 940 930

P. Qty.: 1

Contents for art. no. 0695 940 930		
Designation	Art. no.	Quantity
Japanese spatula, stainless steel 50 mm	0695 940 931	1
Japanese spatula, stainless steel 80 mm	0695 940 932	1
Japanese spatula, stainless steel 100 mm	0695 940 933	1
Japanese spatula, stainless steel 120 mm	0695 940 934	1

Adhesive spreading spatula R2

With replaceable, stainless toothed mounting rail

- 2-component handle and shaft support Ø 28 mm
- Anti-twist metal spacer pins
- 2 plastic knurled screws to secure the spacer pins



Width	560 mm
Serration type	R2

Art. no. 0695 946 010

P. Qty.: 1

Painters' spatula

Made of flexible, high-quality steel (conically ground)

Material of the blade	Steel
Material of the grip handle	Wood



Width (b)	Art. no.	P. Qty.
20 mm	0695 940 902	1
30 mm	0695 940 903	1
40 mm	0695 940 904	1
50 mm	0695 940 905	1
60 mm	0695 940 906	1
70 mm	0695 940 907	1
80 mm	0695 940 908	1

Grinding rasp

The basic body is made of high-quality, wear-resistant steel

- Ergonomically shaped, 2-component soft plastic handle
- Particularly wear-resistant, high-durability rustproof steel
- Sloped front end for working in hard-to-reach places
- Base with 5 x 10/5 x 12 sharp-edged rows of teeth



Material	Steel
Width	140 mm

Length	Art. no.	P. Qty.
280 mm	0695 942 551	1
330 mm	0695 942 552	1

Smoothing trowel

Steel trowel with wooden handle

- Optimum attachment of blade to support through four-point welding
- Handle in waxed, natural-coloured beech wood



Material of the grip handle	Wood
Sheet width	130 mm
Sheet length	280 mm
Material thickness	0.7 mm
Material of the blade	Steel

Art. no. 5771 000 001

P. Qty.: 1/10

2-C smoothing trowel

Rust-proof trowel with 2-C handle

- Optimum attachment of blade to support through four-point welding
- Handle made from two-component plastic for optimum power transmission to trowel blade



Material of the grip handle	2-component plastic
Sheet width	130 mm
Sheet length	280 mm
Material thickness	0.7 mm
Material of the blade	Stainless steel

Art. no. 5771 011 001

P. Qty.: 1/10

Smoothing trowel

Rust-proof trowel with wooden handle

- Optimum attachment of blade to support through four-point welding
- Handle in waxed, natural-coloured beech wood



Material of the grip handle	Wood
Sheet width	130 mm
Sheet length	280 mm
Material thickness	0.7 mm
Material of the blade	Stainless steel

Art. no. 5771 001 001

P. Qty.: 1/10

Toothed trowel

Rust-proof stainless steel trowel with wooden handle

- Optimum attachment of blade to support through four-point welding
- Handle in waxed, natural-coloured beech wood



Material of the blade	Stainless steel
Sheet width	130 mm
Sheet length	280 mm
Material thickness	0.7 mm
Material of the grip handle	Wood

Serration width	Art. no.	P. Qty.
4 mm	5771 001 101	1/10
6 mm	5771 001 102	1/10
8 mm	5771 001 103	1/10
10 mm	5771 001 104	1/10

2-component toothed trowel

Rust-proof stainless steel trowel with 2-C handle

- Optimum attachment of blade to support through four-point welding
- Handle made from two-component plastic for very good transfer of force to trowel blade



Material of the blade	Stainless steel
Sheet width	130 mm
Sheet length	280 mm
Material thickness	0.7 mm
Material of the grip handle	2-component plastic

Continuation **2-component toothed trowel**

Serration width	Art. no.	P. Qty.
6 mm	5771 011 100	1/10
8 mm	5771 011 101	1/10
10 mm	5771 011 102	1/10
12 mm	5771 011 104	1
15 mm	5771 011 105	1

Adhesive trowel, sand-lime brick

Steel trowel with wooden handle

- With bucket hook
- Painted wooden handle



Sheet length	330 mm
Material of the blade	Steel

Sheet width	Art. no.	P. Qty.
115 mm	0993 943 110	1
175 mm	0993 943 111	1
240 mm	0993 943 112	1

Adhesive trowel, aerated concrete

Steel trowel with wooden handle

- With bucket hook
- Painted wooden handle



Sheet length	350 mm
Material of the blade	Steel

Sheet width	Art. no.	P. Qty.
115 mm	0993 943 100	1
175 mm	0993 943 101	1
240 mm	0993 943 102	1
300 mm	0993 943 103	1
365 mm	0993 943 104	1

Roofers' trowel Cat tongue shape

Rust-proof trowel with wooden handle

- Handle in waxed, natural-coloured beech wood
- Stainless-steel blade and tang



Material thickness	0.8 mm
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Sheet length	Sheet width	Art. no.	P. Qty.
140 mm	50 mm	5771 001 204	1/10
160 mm	60 mm	5771 001 206	1/10

Bricklayers' trowel

Rust-proof trowel with wooden handle

- Stainless steel blade and tang
- Handle in waxed, natural-coloured beech wood

Material of the blade	Stainless steel
Material thickness	1 mm



Sheet length	Blade shape	Art. no.	P. Qty.
160 mm	S-neck	5771 001 306	1/10
180 mm	G-neck	5771 001 318	1/10
180 mm	S-neck	5771 001 308	1/10

Bricklayers' trowel, forged

Suitable even for the most demanding tasks, since handle and blade are forged from one piece.

- The conical trowel blade remains elastic at the front despite its very solid design.
- Handle made from painted beech

Blade shape	S-neck
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Sheet length	Art. no.	P. Qty.
160 mm	0695 943 100	1
180 mm	0695 943 101	1

Bricklayers' trowel, welded

High-quality brick trowel with welded blade

- The conical trowel blade remains elastic at the front despite its very solid design.
- Handle made from painted beech

Sheet length	180 mm
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Blade shape	Art. no.	P. Qty.
G-neck	0695 943 111	1
S-neck	0695 943 110	1

Plastering trowel Berne type

Rust-proof trowel with wooden handle

- Stainless steel blade and tang
- Handle in waxed, natural-coloured beech wood

Material of the blade	Stainless steel
Material thickness	0.8 mm



Continuation **Plastering trowel Berne type**

Sheet length	Art. no.	P. Qty.
120 mm	5771 001 402	1/10
140 mm	5771 001 403	1/10
160 mm	5771 001 406	1/10

Plastering trowel

Rust-proof spatula with wooden handle

- Stainless steel blade and tang
- Handle in waxed, natural-coloured beech wood

Material of the blade	Stainless steel
Material thickness	0.8 mm



Sheet width	Art. no.	P. Qty.
40 mm	5771 101 204	1/10
60 mm	5771 101 206	1/10
80 mm	5771 101 208	1/10
100 mm	5771 101 210	1/10

Plastering trowel

Rust-proof spatula with wooden handle and integrated PH2 recessed head bit

- Integrated PH2 bit in handle
- Stainless-steel blade and tang
- Handle in waxed, natural-coloured beech wood

Material of the blade	Stainless steel
Sheet width	120 mm
Material thickness	0.8 mm



Art. no. 5771 101 212

P. Qty.: 1/10

Plastering trowel Berne shape, welded

High-quality trowel with welded blade

- The conical trowel blade remains elastic at the front despite its very solid design.
- Handle made from painted beech



Sheet length	Art. no.	P. Qty.
120 mm	0695 943 130	1
140 mm	0695 943 131	1

Plaster pot

Conical plaster pot made of soft PVC

Diameter	125 mm
Height (h)	90 mm

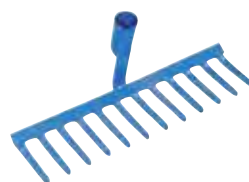
Art. no. 0695 940 873

P. Qty.: 1



Street rake

Heavy-duty design without shaft



Number of tines	Length	Art. no.	P. Qty.
12 PCS	400 mm	0695 943 010	1
14 PCS	450 mm	0695 943 011	1
16 PCS	520 mm	0695 943 012	1

Street rake

Lightweight design without shaft

Number of tines	14 PCS
Length	360 mm

Art. no. 0993 943 011

P. Qty.: 1



Industrial hand brush Arenga/Elaston

For coarse and fine outdoor dirt.

- Mixture binds the dust
- Wood coated with clear varnish
- Durable
- Wet strength

Material of the handle	Wood
Material of the bristles	Mixed bristle
Length (L)	28 cm
Width (B)	5 cm
Length of bristles (H)	8 cm
Working length (A)	16 cm

Art. no. 0695 944 415

P. Qty.: 1



Frankfurt shovel

Curved cutting edges

- Hardened
- Size 5 (300 x 270)
- Red powder-coated
- Without handle

Material	Steel
Colour	Red
Size	5
Width	270 mm

Art. no. 0695 943 002

P. Qty.: 5



Holstein sand shovel

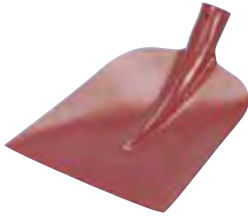
Without handle

- Hardened
- Size 2 (270 x 250)
- Red powder-coated

Material	Steel
Size	2
Width	250 mm
Type description	Socket 3/4

Art. no. 0695 943 003

P. Qty.: 5



Holstein sand shovel

With 1/2 socket, without shaft

Material	Steel
Surface	Powder-coated
Colour	Red
Size	0
Width	230 mm



Type description	Art. no.	P. Qty.
	0993 943 006	1
Socket 1/2	0993 943 003	1

Concrete spreader

Provides a nice smooth surface for simple and uncomplicated handling

- Aluminium plate
- Dimensions: 980 x 300 mm
- Without handle
- Socket 32 mm



Width	300 mm
Length	980 mm

Art. no. 0695 943 020

P. Qty.: 1

Concrete spreader

- Hollow aluminium profile
- Closed at both sides
- Without handle
- Dimensions: 1000 x 100 x 25 mm
- Socket 32 mm



Length	1000 mm
Height	25 mm

Art. no. 0695 943 021

P. Qty.: 1

Tar rake handle

For concrete spreader, aluminium/rubber squeegee

- Material: Ramin
- Socket 32



Length	1800 mm
Diameter (Ø)	32 mm

Art. no. 0715 735 001

P. Qty.: 1

Aluminium tar spreader

- Without handle
- Socket 36 mm



Continuation **Aluminium tar spreader**

Design	Length	Art. no.	P. Qty.
Hollow profile	700 mm	0695 943 040	1
Smooth blade	600 mm	0695 943 041	1
Smooth blade	800 mm	0695 943 042	1

Builders' spade with T handle

With shaft and tread

- Hardened blade
- Polished
- 285 x 185/180 mm



Length	285 mm
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Art. no. 0695 943 030

P. Qty.: 1

Scraper

for removing adhesive or mortar residue.

- Blade thickness 1 mm
- Socket Ø 32 mm

Material thickness	1 mm
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Width	Art. no.	P. Qty.
150 mm	0695 943 056	1
300 mm	0695 943 057	1
500 mm	0695 943 058	1

Scraper handle

Diameter (Ø)	32 mm
Length	1100 mm
Material	Wood



Art. no. 0715 735 013

P. Qty.: 1

Snow shovel

Wooden snow shovel with steel edgeThe snow shovel is made of wood and has a steel edge.

- Including handle
- Wooden shovel with steel edge

Material	Wood
Material of the handle	Wood
Width	350 mm
Length	500 mm



Art. no. 0993 943 1

P. Qty.: 1

Concrete scraper

Carbide reversible tips and blade

Length	1300 mm
Width	100 mm

Art. no. 0993 695 130

P. Qty.: 1



Light metal shovel

Protective steel edge

Length	380 mm
Width	380 mm
Size	9

Art. no. 0695 943 71

P. Qty.: 1



Shovel handle

Sawn to fibre orientation

- Wood moisture in accordance with DIN 20151

Length	1300 mm
Diameter (Ø)	40 mm
Material of the handle	Ash



Art. no. 0715 735 000

P. Qty.: 1/10

Street broom, Elaston

For coarse dirt outdoors

- Flat wood with handle hole
- Water-resistant



Material of the bristles	Elaston
Width	12 cm

Length	Art. no.	P. Qty.
40 cm	0695 943 963	1
50 cm	0695 943 964	1
60 cm	0695 943 969	1

Outdoor broom

For stubborn dirt outdoors.

- Wood body with scrape plate
- Extremely durable and wet strength
- With highly robust metal shaft holder
- Centre row consisting of steel wire



Length	40 cm
Material of the bristles	Mixed bristle
Width	10 cm

Art. no. 0695 944 421

P. Qty.: 1

Broom

For coarse and fine dust and dirt outdoors.

- Wet strength
- With highly robust metal shaft holder



Material of the bristles	Bahia/elaston
Width	10 cm

Length	Art. no.	P. Qty.
40 cm	0695 944 405	1
60 cm	0695 944 406	1

Street broom, Piassava

For coarse dust and dirt. Also suitable for sponging in.

- Flat wood with handle hole
- Very robust natural fibres



Length	40 cm
Material of the bristles	Piassava
Width	70 mm

Art. no. 0695 943 966

P. Qty.: 1

Industrial broom, Arenga

For fine and coarse dirt outdoors

- Wooden saddle with handle hole
- Water-resistant



Material	Wood
Material of the bristles	Arenga
Width	10 cm

Length	Art. no.	P. Qty.
40 cm	0695 943 961	1
60 cm	0695 943 962	1

Industrial broom, coir

For fine dust indoors

- Coir bristles
- Wooden saddle with handle hole



Material	Wood
Material of the bristles	Coconut

Length	Width	Art. no.	P. Qty.
40 cm	10.5 cm	0695 943 965	1
60 cm	9.5 cm	0695 943 972	1

Not water-resistant

Industrial broom

For fine floors

- Fine quality mixture
- Wooden saddle with handle hole



Material	Wood
Material of the bristles	Mixed bristle
Width	9 cm

Length	Art. no.	P. Qty.
40 cm	0695 943 967	1
60 cm	0695 943 968	1

Not water-resistant

Elaston industrial broom

For coarse dust and dirt, can be used both wet and dry.

- With highly robust metal shaft holder
- Wet strength



Material	Wood
Material of the bristles	Elaston
Width	10 cm

Length	Art. no.	P. Qty.
40 cm	0695 944 400	1
60 cm	0695 944 401	1
80 cm	0695 944 402	1
100 cm	0695 944 403	1

Industrial broom with mixed bristles

For fine, dry dust and dirt indoors.

- Flat wood
- With highly robust metal shaft holder



Material	Wood
Material of the bristles	Mixed bristle
Width	10 cm

Length	Art. no.	P. Qty.
80 cm	0695 944 412	1
100 cm	0695 944 413	1

Coco industrial broom

For coarse, fine and dry dirt.

- Flat wood
- Not wet strength



Material	Wood
Material of the bristles	Coconut
Width	10 cm

Length	Art. no.	P. Qty.
80 cm	0695 944 418	1
100 cm	0695 944 419	1

Rubber wiper

Water can be quickly and completely removed from a flat surface

- Metal body
- Double cellular rubber strips
- For broom handles 24 mm in diameter



Material	Metal/rubber
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Length	Product weight (per item)	Art. no.	P. Qty.
45 cm	188 g	0695 943 32	1
60 cm	257 g	0695 943 33	1

Cylindrical wooden handle

Cylindrical for brooms with metal handle holder

- Cleanly ground
- Round head



Colour	Natural
Material of the handle	Wood
Length	140 cm
Diameter	23.5 mm

Art. no. 0715 735 021

P. Qty.: 1

Wooden shaft, conical

With ground cone and rounded handle end

Colour	Natural
Material of the handle	Wood



Length	Diameter	Art. no.	P. Qty.
140 cm	28 mm	0715 735 017	1
160 cm	26 mm	0715 735 034	1
160 cm	28 mm	0715 735 033	1
180 cm	28 mm	0715 735 032	1

Dustpan

Robust metal dustpan

- With wooden handle
- Dustpan painted black

Material	Metal
Length	430 mm
Working length	230 mm
Width	220 mm



Art. no. 0695 943 971

P. Qty.: 1

Dustpans

Solid, robust dustpan

FDA-compliant raw materials

- Also suitable for food use
- Halal-compliant

Hygienic design for easy cleaning and maintenance

- Rounded corners simplify cleaning
- Dishwasher-safe (to max. 93 °C)
- Can be sterilised in an autoclave (max. 121 °C)



Phthalate-free

Material	PP - Polypropylene
Length	330 mm
Width	295 mm
Height	100 mm
Min./max. temperature conditions	-20 to 100 °C

Colour	Art. no.	P. Qty.
Blue	0891 350 720	1
Green	0891 350 722	1
Red	0891 350 721	1
White	0891 350 723	1
Yellow	0891 350 724	1

Please consider the legal instruction at the beginning of this chapter.

Hand brush Coir

For fine dust indoors

Material of the handle	Wood
Material of the bristles	Coconut
Width (B)	40 mm
Length of bristles (H)	70 mm
Working length (A)	160 mm



Length (L)	Art. no.	P. Qty.
280 mm	0695 943 970	1
430 mm	0695 943 973	5

Not water-resistant

Bricklayer cord, polyethylene

Rot, dirt and moisture-resistant polyethylene bricklayer cord

- UV stabilised



Length	Colour	Diameter (Ø)	Max. loading weight	Max. temperature resistance	Art. no.	P. Qty.
50 m	Green	1 mm	9 kg	70 °C	0713 70 062	1/12
50 m	Green	1.7 mm	15 kg	70 °C	0713 70 063	1/12
50 m	Green	2 mm	35 kg	70 °C	0713 70 064	1/6
100 m	Yellow	2 mm	50 kg		0713 75 2	1

Only for use as a guide line! Not suitable for continuous strain.

Bricklayers' line, polypropylene

Flexible polypropylene bricklayers' line

Light-stabilised

Max. temperature resistance	80 °C
Material	PP - Polypropylene



Length	Colour	Diameter (Ø)	Max. loading weight	Art. no.	P. Qty.
50 m	Red, White	1.7 mm	40 kg	0713 70 065	1/6
50 m	Red, White	2 mm	60 kg	0713 70 066	1/6
100 m	White	2 mm	60 kg	0713 70 067	1/6
100 m	White	3 mm	120 kg	0713 70 068	1
100 m	White	5 mm	400 kg	0713 70 069	1

Only for use as a guide line! Not suitable for continuous strain.

Bricklayer cord, polypropylene, fluorescent

Highly visible, flexible bricklayer cord made of polypropylene

- UV stabilised



Length	100 m
Diameter (Ø)	2 mm
Max. loading weight	60 kg
Max. temperature resistance	80 °C
Material	PP - Polypropylene

Colour	Art. no.	P. Qty.
Pink fluorescent	0713 70 078	1/6
Yellow fluorescent	0713 70 077	1/6

Only for use as a guide line! Not suitable for continuous strain.

Radiator paintbrush Professional

For solvent-based lacquer and paint systems

- Strong mixture of high-quality, pure, black china and polyester bristles
- Does not swell in water
- Good absorption and application of paint
- Good finish
- Tin ferrule
- Unpainted wooden handle



Material of the bristles	Synthetic
Colour of bristle	Black
Material of the handle	Wood
Material ferrule	Tinplate
Thickness	9 mm

Length of bristles	Width	Art. no.	P. Qty.
49 mm	35 mm	0693 005 15	1/10
49 mm	50 mm	0693 005 20	1/10
58 mm	60 mm	0693 005 25	1/10



Radiator paintbrush Professional

For solvent-based lacquer and paint systems

- Strong mixture of high-quality, pure, light-coloured china and polyester bristles
- Does not swell in water
- Good absorption and application of paint
- Good finish
- Tin ferrule
- Unpainted wooden handle

Material of the bristles	Artificial fibre bristle
Colour of bristle	Natural beige (natural bristles)
Material of the handle	Wood
Material ferrule	Tinplate
Length of bristles	49 mm

Width	Thickness	Art. no.	P. Qty.
35 mm	9 mm	0693 055 15	1/10
35 mm	9 mm	0693 055 20	1/10
60 mm	9	0693 055 25	1/10

Radiator paintbrush Economic

For solvent-based lacquer and paint systems and bitumen

- Pure light-coloured china bristles
- Tin ferrule
- Unpainted wooden handle



Material of the bristles	Artificial fibre bristle
Colour of bristle	Natural beige (natural bristles)
Material of the handle	Wood
Material ferrule	Tinplate
Thickness	9 mm

Length of bristles	Width	Art. no.	P. Qty.
43 mm	35 mm	0693 051 15	12
49 mm	50 mm	0693 051 20	12
49 mm	60 mm	0693 051 25	12

Radiator paintbrush

For solvent-based lacquer and paint systems

- Strong mixture of highest-quality, pure black china bristles and polyester bristles
- Retains shape and suppleness
- Minimal swelling in water
- Optimum absorption and application of paint
- Smooth brush action
- Precise, fine lines
- First-class finish
- Stainless steel ferrule
- Unpainted wooden handle



Material of the bristles	China and polyester bristles
Material of the handle	Wood

Length of bristles	Width	Art. no.	P. Qty.
45 mm	25 mm	0693 610 25	1/12
49 mm	35 mm	0693 610 35	1/12
55 mm	50 mm	0693 610 50	1/12
55 mm	60 mm	0693 610 60	1/12
59 mm	70 mm	0693 610 70	1/12

Round paintbrush Professional, black

For solvent-based lacquer and paint systems

- Strong mixture of highest-quality, pure black china bristles and polyester bristles
- Good absorption and application of paint
- Precise, fine lines
- Good finish
- Single-cord binding, white
- Nickel ring
- Unpainted wooden handle



Material of the bristles	Synthetic
Colour of bristle	Black
Material of the handle	Wood

Length of bristles	Size	Brush ring diameter	Art. no.	P. Qty.
72 mm	2	20 mm	0693 004 02	1/12
80 mm	4	25 mm	0693 004 04	1/12
85 mm	6	30 mm	0693 004 06	1/12
90 mm	8	35 mm	0693 004 08	1/12
90 mm	10	40 mm	0693 004 10	1/12

Round paintbrush Professional, light

For water-based lacquer and glazing systems

- Special mixture of high-quality synthetic fibres
- Good absorption and application of paint
- Good finish
- Retains shape and suppleness
- Does not swell in water
- Easy to clean
- Precise, fine lines
- Smooth brush action
- High quality plastic ferrule, fully bonded
- Unpainted wooden handle



Material of the bristles	Artificial fibre bristle
Material of the handle	Wood

Length of bristles	Size	Brush ring diameter	Art. no.	P. Qty.
78 mm	4	25 mm	0693 004 004	1/12
82 mm	6	30 mm	0693 004 006	1/12
90 mm	8	35 mm	0693 004 008	1/12

Round paintbrush Economic

For solvent-based lacquer and paint systems

- Pure, light-coloured china bristles
- Plastic ring
- Unpainted wooden handle



Material of the bristles	China bristles
Colour of bristle	Natural beige (natural bristles)
Material of the handle	Wood
Material ferrule	Polyamide

Length of bristles	Size	Brush ring diameter	Art. no.	P. Qty.
40 mm	2	20 mm	0693 011 02	12
40 mm	4	25 mm	0693 011 04	12
40 mm	6	30 mm	0693 011 06	12
45 mm	8	35 mm	0693 011 08	12
47 mm	10	40 mm	0693 011 10	12

Round paintbrush

For solvent-based lacquer and paint systems

- Strong mixture of top-quality pure black China bristles and polyester bristles
- Retains shape and suppleness
- Minimal swelling in water



Colour of bristle	Black
Material of the handle	Wood



Material of the bristles	Length of bristles	Size	Brush ring diameter	Art. no.	P. Qty.
China and polyester bristles	90 mm	8	35 mm	0693 600 08	1/12
Synthetic	74 mm	2	20 mm	0693 600 02	1/12
Synthetic	80 mm	4	25 mm	0693 600 04	1/12
Synthetic	85 mm	6	30 mm	0693 600 06	1/12
Synthetic	90 mm	10	40 mm	0693 600 10	1/12
Synthetic	98 mm	12	45 mm	0693 600 12	1/6

Round paintbrush

For water-based lacquer and paint systems

- Strong mixture of highest-quality, synthetic fibre bristles (nylon and polyester)
- Retains shape and suppleness
- Does not swell in water
- Optimum absorption and application of paint
- Smooth brush action
- Precise, fine lines
- First-class finish
- Double-cord binding, white
- Brass ring
- Unpainted wooden handle



Material of the bristles	Material of the handle	Length of bristles	Size	Brush ring diameter	Art. no.	P. Qty.
Natural fine hair mixture	Plastic	102 mm	8	35 mm	0693 645 08	1/12
Nylon	Wood	92 mm	6	30 mm	0693 645 06	1/12
Nylon	Wood	105 mm	10	40 mm	0693 645 10	1/12
Nylon	Wood	105 mm	12	45 mm	0693 645 12	1/6

Round paintbrush

For water-based lacquer and paint systems

- Strong mixture of highest-quality, synthetic fibre bristles (nylon and polyester)
- Retains shape and suppleness
- Does not swell in water
- Optimum absorption and application of paint
- Smooth brush action
- Precise, fine lines
- First-class finish
- High-quality plastic ring, fully bonded
- Unpainted wooden handle



Material of the bristles	Nylon
Material of the handle	Wood

Length of bristles	Size	Brush ring diameter	Art. no.	P. Qty.
82 mm	4	25 mm	0693 640 04	1/12
85 mm	6	30 mm	0693 640 06	1/12
95 mm	8	35 mm	0693 640 08	1/12
100 mm	10	40 mm	0693 640 10	1/12
100 mm	12	45 mm	0693 640 12	1/6

Fine-bristle paintbrush Lining fitch

For solvent-based lacquer and paint systems

- Strong mixture of highest-quality, pure black china bristles and polyester bristles
- Retains shape and suppleness
- Minimal swelling in water
- Optimum absorption and application of paint
- Smooth brush action
- Precise, fine lines
- Stainless steel ferrule
- Unpainted wooden handle



Length of bristles	Width	Art. no.	P. Qty.
17 mm	15 mm	0693 630 15	1/12
21 mm	20 mm	0693 630 20	1/12
24 mm	25 mm	0693 630 25	1/12
28 mm	30 mm	0693 630 30	1/12

Fine-bristle paintbrush, enamel paint Professional

For solvent-based and water-based paint systems

- Pure light-coloured china bristles
- Tin ferrule
- Unpainted wooden handle



Material of the bristles	China and polyester bristles
Colour of bristle	Natural beige (natural bristles)
Material of the handle	Wood
Material ferrule	Tinplate

Length of bristles	Size	Thickness	Art. no.	P. Qty.
28 mm	1	14 mm	0693 083 1	10/50
31 mm	2	16 mm	0693 083 2	10/50

Touch-up, fine-bristle paintbrush Professional

For solvent-based and water-based paint systems

- Fine, high-quality, black natural bristles
- Tin ferrule
- Brown painted wood handle



Material of the bristles	Natural fine hair mixture
Colour of bristle	Black
Material of the handle	Wood
Material ferrule	Aluminium
Length of bristles	15 mm

Art. no. 0693 311 5

P. Qty.: 10

Flat paintbrush

For solvent-based lacquer and paint systems

- Information for painters: 12. 12
- Strong mixture of high-quality pure black china bristles and polyester bristles
- Retains shape and suppleness
- Minimal swelling in water
- Optimum absorption and application of paint
- Smooth brush action
- Precise trimming
- First-class finish
- Stainless steel ferrule, fully bonded
- Unpainted wood handle with lip



Material of the bristles	China and polyester bristles
Material of the handle	Wood

Length of bristles	Width	Brush thickness	Art. no.	P. Qty.
45 mm	30 mm	18 mm	0693 605 30	1/12
51 mm	40 mm	20 mm	0693 605 40	1/12
56 mm	50 mm	21 mm	0693 605 50	1/12
63 mm	60 mm	22 mm	0693 605 60	1/12
63 mm	80 mm	24 mm	0693 605 80	1/6
63 mm	100 mm	26 mm	0693 605 100	1/6

Paint brush

For water-based lacquer and paint systems

- Strong mixture of top-quality synthetic fibre bristles (nylon and polyester)
- Retains shape and suppleness
- Optimum absorption and application of paint



Material of the bristles	Artificial fibre bristle
Material of the handle	Wood

Length of bristles	Width	Brush thickness	Art. no.	P. Qty.
45 mm	25 mm	21 mm	0693 650 25	1/12
51 mm	40 mm	22 mm	0693 650 40	1/12
56 mm	50 mm	23 mm	0693 650 50	1/12
63 mm	60 mm	24 mm	0693 650 60	1/12
63 mm	75 mm	25 mm	0693 650 75	1/6



Flat paintbrush Economic

For solvent-based lacquer and paint systems

- Information for painters: Thickness 6
- Pure pale china bristles
- Tin ferrule
- Unpainted wood handle

Material of the bristles	Artificial fibre bristle
Colour of bristle	Natural beige (natural bristles)
Material of the handle	Wood
Material ferrule	Tinplate
Bristle tops	90 %

Length of bristles	Width	Art. no.	P. Qty.
36 mm	20 mm	0693 042 20	10
44 mm	30 mm	0693 042 30	10
44 mm	40 mm	0693 042 40	10
44 mm	50 mm	0693 042 50	10
50 mm	60 mm	0693 042 60	10
56 mm	70 mm	0693 042 70	10

Paint brush Professional

For solvent-based lacquer and paint systems

- Information for painters: 12. Depth
- Strong mixture of high-quality, pure, black china and polyester bristles
- Does not swell in water
- Good absorption and application of paint
- Good finish
- Tin ferrule
- Unpainted wooden handle



Material of the bristles	Artificial fibre bristle
Material of the handle	Wood
Material ferrule	Tinplate
Bristle tops	90 %

Colour of bristle	Length of bristles	Width	Art. no.	P. Qty.
Black	48 mm	40 mm	0693 433 40	1/10
Black	58 mm	60 mm	0693 433 60	1/10
Natural beige (natural bristles)	48 mm	40 mm	0693 004 40	1/10
Natural beige (natural bristles)	56 mm	60 mm	0693 004 60	1/10
Natural beige (natural bristles)	60 mm	80 mm	0693 004 80	1/10

Flat paintbrush Professional

For water-based lacquer and glazing systems

- Special mixture of high-quality synthetic fibres
- Good absorption and application of paint
- Retains shape and suppleness



Material of the bristles	Artificial fibre bristle
Material of the handle	Wood

Length of bristles	Width	Brush thickness	Art. no.	P. Qty.
53 mm	40 mm	20 mm	0693 045 40	1/12
60 mm	50 mm	21 mm	0693 045 51	1/12
64 mm	60 mm	22 mm	0693 045 60	1/12

Large flat paintbrush Professional

For solvent-based lacquer and paint systems

- Strong, high-quality, pure light china bristles
- Good absorption and application of paint
- Good finish
- Tin ferrule, plastic back
- Unpainted wooden handle with holder



Continuation **Large flat paintbrush Professional**

Material of the bristles	China bristles
Material of the handle	Wood
Thickness	30 mm

Length of bristles	Width	Art. no.	P. Qty.
66 mm	100 mm	0693 007 100	1/10
67 mm	120 mm	0693 007 120	1/10

Large flat paintbrush Economic

For solvent-based lacquer and paint systems

- Pure, light-coloured china bristles
- Tin ferrule, plastic back
- Plastic handle, with holder



Material of the bristles	Artificial fibre bristle
Colour of bristle	Natural beige (natural bristles)
Material of the handle	Plastic
Material ferrule	Tinplate
Thickness	25 mm

Length of bristles	Width	Art. no.	P. Qty.
45 mm	100 mm	0693 072 100	12
53 mm	120 mm	0693 072 120	12

Economic bitumen brush

For solvent-based synthetic resin paint systems

- Mixture of pure china and synthetic fibre bristles
- Tin ferrule
- Unpainted wood handle

Material of the bristles	Artificial fibre bristle
Colour of bristle	Natural beige (natural bristles)
Material of the handle	Wood
Material ferrule	Tinplate
Thickness	12 mm



Length of bristles	Width	Art. no.	P. Qty.
50 mm	60 mm	0693 053 25	12
55 mm	75 mm	0693 053 30	12

Professional façade paintbrush

For all wall paints

- Information for painters: Double thickness
- Strong, high-quality, pure black china bristles
- Good absorption and application of paint
- Good finish
- Tin ferrule
- Unpainted wooden handle



Material of the bristles	Artificial fibre bristle
Colour of bristle	Black
Material of the handle	Wood
Material ferrule	Tinplate
Length of bristles	60 mm
Width	75 mm
Thickness	16 mm

Art. no. 0693 052 30

P. Qty.: 1/10

Façade paintbrush

For all wall paints

- Information for painters: Double strength
- Retains shape and suppleness
- Minimal swelling in water



Material of the bristles	China and polyester bristles
Material of the handle	Wood



Length of bristles	Width	Art. no.	P. Qty.
54 mm	50 mm	0693 615 50	1/6
54 mm	60 mm	0693 615 60	1/6
59 mm	75 mm	0693 615 75	1/6

Nylon brush

For applying spreadable sealing compounds

Width	30 mm
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Art. no. 0693 30

P. Qty.: 1/10

Flat paintbrush

For solvent-based lacquer and paint systems

- Strong mixture of highest-quality, pure black china bristles and polyester bristles
- Retains shape and suppleness
- Minimal swelling in water
- Optimum absorption and application of paint
- Smooth brush action
- Precise, fine lines
- First-class finish
- Stainless steel ferrule
- Unpainted wooden handle



Material of the bristles	China and polyester bristles
Material of the handle	Wood
Thickness	8 mm

Length of bristles	Width	Art. no.	P. Qty.
39 mm	15 mm	0693 625 15	1/12
40 mm	20 mm	0693 625 20	1/12
42 mm	25 mm	0693 625 25	1/12
48 mm	30 mm	0693 625 30	1/12

Flat paintbrush

For water-based lacquer and paint systems

- Strong mixture of highest-quality, synthetic fibre bristles (nylon and polyester)
- Retains shape and suppleness
- Does not swell in water
- Optimum absorption and application of paint
- Smooth brush action
- Precise, fine lines
- First-class finish
- Stainless steel ferrule
- Unpainted wooden handle



Material of the bristles	Artificial fibre bristle
Material of the handle	Wood
Thickness	8 mm

Length of bristles	Width	Art. no.	P. Qty.
42 mm	25 mm	0693 660 25	1/12
45 mm	35 mm	0693 660 35	1/12

Flat paintbrush Economic

For solvent-based lacquer and paint systems

- Pure black china bristles
- Tin ferrule
- Unpainted wooden handle



Material of the bristles	China bristles
Material of the handle	Wood
Length of bristles	35 mm

Width	Thickness	Art. no.	P. Qty.
15 mm	7 mm	0693 008 15	5
15 mm	8 mm	0693 081 15	5
20 mm	8 mm	0693 008 20	5
20 mm	8 mm	0693 081 20	5

Multi-purpose paint brush Economic

With pure, bright, synthetic fibre

- Plastic threaded
- Plastic back
- Plastic handle and holder



Colour	Light grey
Material of the handle	Plastic
Material of the bristles	Artificial fibre bristle
Length x width	205 x 170 mm
Length of bristles	75 mm

Art. no. 0693 009 5

P. Qty.: 1

Painters' roller

Hard-wearing cover in very high-quality, nonwoven polyamide

- Unpadded
- 18 mm pile height
- Shape retaining
- Fibres have excellent refluffing properties
- Low lint, no felting
- Very low splatter
- Excellent absorption and application of paint
- Solvent-resistant
- Very long service life
- First-class, even finish



Roller pile height	18 mm
Outer diameter	94 mm

Continuation **Painters' roller**

Internal diameter	58 mm
Design	Unpadded

Width	Art. no.	P. Qty.
18 cm	0693 010 111	1/10
25 cm	0693 010 112	1/10

Painters' roller

Hard-wearing cover in very high-quality, nonwoven polyamide

- Unpadded
- 12 mm pile
- Shape retaining
- Fibres have excellent refluffing properties
- Low lint, no felting
- Very low splatter
- Excellent absorption and application of paint
- Solvent-resistant
- Very long service life
- First-class, streak-free finish



Roller pile height	12 mm
Outer diameter	82 mm
Internal diameter	58 mm
Design	Unpadded

Width	Art. no.	P. Qty.
180 mm	0693 010 106	1/10
250 mm	0693 010 107	1/10

Spiked roller

- High-quality polypropylene
- Solvent-resistant



Width	Outer diameter (Ø)	Spike length	Material of the grip handle	Art. no.	P. Qty.
250 mm	115 mm	35 mm	Die-cast zinc	0693 011 760	1
500 mm	140 mm	60 mm	Plastic	0693 011 762	1

Façade roller

Hard-wearing cover in very high-quality, nonwoven polyamide

- Heavily padded (soft foam)
- Fibres have excellent refluffing properties
- Low lint, no felting



Internal diameter	41 mm
Outer diameter	77 mm



Width	Art. no.	P. Qty.
200 mm	0693 010 131	1/10
270 mm	0693 010 132	1/10

Small roller, 18 mm pile

Hard-wearing cover in very high-quality, nonwoven polyamide

- Shape retaining
- Fibres have excellent refluffing properties
- Low lint, no felting
- Very low splatter
- Excellent absorption and application of paint
- Solvent-resistant
- Very long service life
- First-class, even finish



Material	PA - Polyamide
Outer diameter	66 mm
Internal diameter	30 mm

Width	Art. no.	P. Qty.
10 cm	0693 010 166	10/40
15 cm	0693 010 167	10/50

Small roller, 12 mm pile, long

Hard-wearing cover in very high-quality, nonwoven polyamide

- Shape retaining
- Fibres have excellent refluffing properties
- Low lint, no felting
- Very low splatter
- Excellent absorption and application of paint
- Solvent-resistant
- Very long service life
- First-class, even finish



Continuation **Small roller, 12 mm pile, long**

Material	PA - Polyamide
Outer diameter	40 mm
Internal diameter	15 mm

Width	Art. no.	P. Qty.
10 cm	0693 010 161	10/100
15 cm	0693 010 162	10/100

Economic small roller

“Standard fine” foam roller

- For simple painting tasks

Width	10 cm
Outer diameter	35 mm
Curve	Straight on both sides
Internal diameter	10 mm



Art. no. 0693 011 4

P. Qty.: 10



Small radiator roller Professional

Hard-wearing cover in high-quality polyamide

- Low lint, no felting
- Good absorption and application of paint
- Solvent-resistant

Outer diameter	39 mm
Internal diameter	15 mm

Width	Art. no.	P. Qty.
10 cm	0693 011 1	10
15 cm	0693 011 11	10

Professional paint roller, small

- 12 mm pile height
- Shape retaining
- Fibres have good restoration properties
- Low lint, no felting
- Good absorption and application of paint
- Solvent-resistant
- Long service life
- Even coating result



Width	12 cm
Roller pile height	12 mm
Outer diameter	54 mm
Internal diameter	30 mm

Art. no. 0693 011 2

P. Qty.: 1/20

Glazing and sealing roller

Hard-wearing cover in very high-quality textured non-woven polyamide

- 7 mm pile
- Shape retaining
- Low lint, no felting
- Excellent absorption and application of paint
- Solvent-resistant
- Extremely long service life
- First-class, streak-free finish



Outer diameter	60 mm
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Width	Art. no.	P. Qty.
18 cm	0693 010 186	1/10
25 cm	0693 010 187	1/10

Small paint roller

Hard-wearing cover in very high-quality textured non-woven polyamide

- 7 mm pile
- Shape retaining
- Low lint, no felting
- Excellent absorption and application of paint
- Solvent-resistant
- Extremely long service life
- First-class, streak-free finish



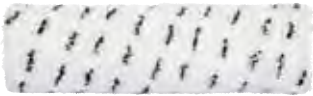
Width	10 cm
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Outer diameter	Art. no.	P. Qty.
15 mm	0693 010 189	10/100
32 mm	0693 010 188	10/40

Glazing and sealing roller

Excellent quality cover in pure microfibre

- Extremely absorbent
- Unpadded
- 9 mm pile
- Low lint
- Very low splatter/drip
- Excellent absorption and application of paint
- Solvent-resistant
- First-class, streak-free finish



Width	250 mm
Outer diameter	75 mm
Internal diameter	57 mm

Art. no. 0693 011 511

P. Qty.: 1/10

Small glazing roller

Excellent quality cover in pure microfibre

- Extremely absorbent
- 9 mm pile
- Low lint
- Very low splatter/drip
- Excellent absorption and application of paint
- Solvent-resistant
- First-class, streak-free finish



Width	Outer diameter	Internal diameter	Art. no.	P. Qty.
10 mm	33 mm	15 mm	0693 011 518	10/100
100 mm	50 mm	32 mm	0693 011 516	10/40

Paint tray

Suitable for rollers up to 15 cm wide

- Made from „Hostalen“ plastic
- Suitable for rollers up to 15 cm wide
- Solvent-resistant, unbreakable, stackable



Length x width x height	310 x 190 x 60 mm
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Art. no. 0693 012 5

P. Qty.: 1

Glazing and sealing roller, microfibre polyester

Cover in very high-quality, highly compressed microfibre polyester mix

- 5 mm pile
- Low lint
- No air bubbles form during rolling
- Excellent absorption and application of paint
- Solvent-resistant
- Extremely long service life
- First-class, streak-free finish



Outer diameter	56 mm
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Width	Art. no.	P. Qty.
18 cm	0693 011 500	1/10
25 cm	0693 011 501	1/10

Small paint roller

Cover in very high-quality, highly compressed microfibre polyester mix

- 5 mm pile
- Low lint
- No air bubbles form during rolling
- Excellent absorption and application of paint
- Solvent-resistant
- Extremely long service life
- First-class, streak-free finish



Width	Outer diameter	Art. no.	P. Qty.
10 cm	25 mm	0693 011 503	10/100
11 cm	42 mm	0693 011 502	10/40



Foam roller

Innovative surface structure for high-quality top coats

- MicroCrater
- No air bubbles form during rolling
- Outstanding absorption and application of paint
- Excellent rolling properties
- Spreads paint evenly
- One tool for applying and smoothing finishing
- Excellent quality top coat

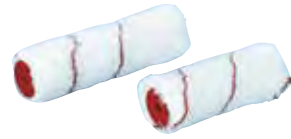


Width	Outer diameter	Curve	Internal diameter	Art. no.	P. Qty.
5.4 cm	35 mm	Straight on both sides	15 mm	0693 011 403	10/100
10 cm	35 mm	Round on both sides	15 mm	0693 011 401	10/50
10 cm	35 mm	Round on the frame side	15 mm	0693 011 400	10/50
10 cm	50 mm	Round on the frame side	30 mm	0693 011 402	10/50

Professional paint roller

Hard-wearing cover in high-quality polyamide, unpadded, 20 mm pile

- Shape retaining
- Fibres have excellent reflufling properties
- Low lint, no felting
- Excellent absorption and application of paint
- Solvent-resistant
- Long service life
- Even finish



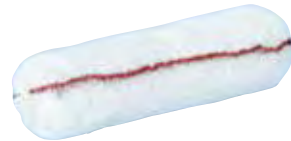
Roller pile height	20 mm
Outer diameter	85 mm
Internal diameter	48 mm

Width	Art. no.	P. Qty.
18 cm	0693 010 5	1
25 cm	0693 010 51	1

Universal roller

Hard-wearing cover in high-quality polyamide, padded, 20 mm pile

- 20 mm pile height
- Shape retaining
- Fibres have good restoration properties
- Low lint, no felting
- Good absorption and application of paint
- Solvent-resistant
- Long service life
- Even coating result



Material	Polyamide cotton
Width	270 mm
Roller pile height	20 mm
Outer diameter	80 mm
Core diameter	41 mm

Art. no. 0693 010 2

P. Qty.: 1

Telescopic rod with safety device

High-quality telescopic extension rod with locking plug for safe and comfortable work with slip-in brackets.

- Linch pin supplied for secure working
- Thick-walled aluminium pipe for high strength
- Cone with additional rivets provides high retention forces
- Ergonomic plastic handle



Min. length	Max. length	Art. no.	P. Qty.
50 cm	75 cm	0693 012 235	1
80 cm	130 cm	0693 012 236	1
115 cm	200 cm	0693 012 237	1

Professional paint roller Filament yarn (Kanekaron), Glattfilt

Hard-wearing cover in curly filament yarn (Glattfilt), 5 mm pile, low lint

- 5 mm pile height
- Low lint
- Good absorption and application of paint
- Long service life
- Even coating result



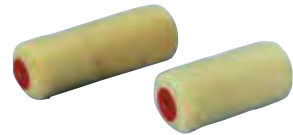
Roller pile height	5 mm
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Width	Outer diameter	Internal diameter	Art. no.	P. Qty.
10 cm	23 mm	15 mm	0693 011 3	10
12 cm	54 mm	30 mm	0693 011 31	1/20

Professional paint roller Lambskin

High-quality, select lambskin, approx. 20 mm pile, low lint

- Low splatter
- Good absorption and application of paint
- Good coverage properties
- Streak-free finish



Roller pile height	22 mm
Outer diameter	90 mm
Internal diameter	50 mm

Width	Art. no.	P. Qty.
18 cm	0693 010 4	1
25 cm	0693 010 41	1

Lambskin is a natural product and therefore very high-maintenance. Not suitable for fat-dissolving, alkaline materials

Small roller Professional

“Super fine” foam roller for high-quality top coats (smooth finishing)

- Good rolling properties
- Even paint spread
- Not solvent-resistant



Curve	Round on the frame side
Internal diameter	10 mm

Continuation **Small roller Professional**

Width	Outer diameter	Art. no.	P. Qty.
10 cm	35 mm	0693 011 41	10
15 cm	40 mm	0693 011 42	10

Economic paint roller

Ideal for applying polyester and epoxy resins and for industrial coatings.



- Textured polyamide
- Solvent-resistant
- Extremely hard-wearing

Roller pile height	14 mm
Outer diameter	70 mm
Internal diameter	48 mm

Width	Art. no.	P. Qty.
18 cm	0693 010 8	1
25 cm	0693 010 81	1

Glazing and sealing roller

High-quality paint roller with excellent surface finish for glazes and seals.



- Lint-free and minimal spraying
- No streaking
- Excellent absorption and application of paint

Roller pile height	11 mm
--------------------	-------

Width	Outer diameter	Internal diameter	Art. no.	P. Qty.
400 mm	65 mm	44 mm	0693 010 070	1
400 mm	80 mm	55 mm	0693 010 072	1
500 mm	65 mm	44 mm	0693 010 071	1

Paint roller, nylon

High-quality, solvent-resistant coating and sealing roller.



- Long service life and minimal spraying
- No streaking
- Excellent absorption and application of paint

Outer diameter	70 mm
Roller pile height	14 mm

Width	Internal diameter	Art. no.	P. Qty.
400 mm	44 mm	0693 010 075	1
500 mm	55 mm	0693 010 076	1

Paint roller, continuous filament

Lint-free paint roller with continuous filament for high coverage and even application of paint, especially for surfaces exposed to streaks of light.

- Long service life and minimal spraying
- No streaking



Width	250 mm
Roller pile height	18 mm

Outer diameter	Internal diameter	Art. no.	P. Qty.
80 mm	61 mm	0693 010 080	1
90 mm	70 mm	0693 010 081	1

Paint roller, Economic

With Ø 6 mm slip-in bracket

- Polyester (vestan)
- 18 mm pile
- Extra fluffy and absorbent: Good absorption and application of paint



Wire diameter	6 mm
Length	295 mm

Max. width of roller	Width	Art. no.	P. Qty.
180 mm	180 mm	0693 010 7	1
270 mm	250 mm	0693 010 71	1

U-bracket, adjustable

Adjustable U-bracket for use with painting and sealing rollers with a roll width of 40–60 cm.

- Can be combined with a telescopic rod
- Zinc-plated steel bracket for a long life



Max. width of roller	60 cm
Wire diameter	8 mm
Width	425 mm
Length	310 mm

Art. no. 0693 012 115

P. Qty.: 1

Slip-in bracket, zinc-plated

High-quality slip-in bracket with zinc-plated steel bracket for all rollers with a hole of 6 mm or 8 mm.

- Can be combined with a telescopic rod
- Ergonomic, high-quality plastic handle



Max. width of roller	Wire diameter	Width	Length	Art. no.	P. Qty.
10 cm	6 mm	100 mm	285 mm	0693 012 191	1
27 cm	8 mm	250 mm	290 mm	0693 012 190	1

Construction and roofing roller

- 13 mm pile height
- Ideal for most construction and roofing applications
- Low lint
- Excellent absorption and application of paint
- Solvent-resistant



Width	25 cm
Outer diameter	73 mm
Internal diameter	47 mm

Art. no. 0693 011 61

P. Qty.: 1

Push-fit roller frame Economic

Suitable for all rollers with snap-in closure

- Zinc-plated round steel
- Hollow plastic handle (average handle shape), permanently attached



Max. width of roller	Wire diameter	Width	Length	Art. no.	P. Qty.
10 cm	6 mm			0693 012 0	1
15 cm	6 mm	110 mm	270 mm	0693 012 12	1
15 cm	6 mm	110 mm	420 mm	0693 012 13	1
20 cm	8 mm	250 mm	290 mm	0693 012 1	1
27 cm	8 mm	180 mm	290 mm	0693 012 11	1

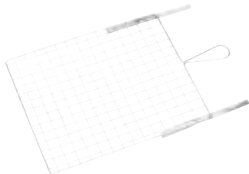
Paint grid

Galvanised, corrugated metal wire

Extremely sturdy design

Double hook

Suitable for all common container sizes



Material	Steel
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Width	30 cm
Length	26 cm

Art. no. 0693 012 3

P. Qty.: 1



Binding wire rolls

In bucket

Wire diameter	1.4 mm
Material	Steel
Surface	Plain
Weight of content	20 kg
Container	Bucket

Art. no. 0477 140 001

P. Qty.: 1

Binding wire rolls

Contents: 20 kg

- Wire thickness: 1.4 mm
- Galvanised
- In bucket

Wire diameter	1.4 mm
Material	Steel
Surface	Zinc plated
Weight of content	20 kg



Art. no. 0993 477 001

P. Qty.: 1

Binding wire loop Double-twisted

With much higher strength

- Packed in plastic bags

Diameter	1 mm
Width	14 mm
Surface	Copper plated
Material	Iron



Length	Art. no.	P. Qty.
100 mm	0509 401 100	1000/15000
120 mm	0509 401 120	1000/15000
140 mm	0509 401 140	1000/15000
160 mm	0509 401 160	1000/15000

Binding wire loop Double knotted

- Material: Copper-plated iron wire
- Packed in plastic bags

Diameter	1 mm
Width	14 mm
Surface	Copper plated
Material	Iron



Length	Art. no.	P. Qty.
100 mm	0509 402 100	1000/20000
120 mm	0509 402 120	1000/20000
140 mm	0509 402 140	1000/20000
160 mm	0509 402 160	1000/15000

Drill

For fast, power-saving processing of binding wire rolls

Plastic handle

Length	335 mm
Width	30 mm



Art. no. 0714 01 455

P. Qty.: 1



Basic builder's bucket

With zinc-plated handle

Material	PE - Polyethylene
Colour	Black

Contents	Diameter (Ø)	Height	Art. no.	P. Qty.
12 l	31 cm	20 cm	0695 770 12	5/10
20 l	36 cm	27 cm	0695 770 20	1

Builder's bucket for crane lift

Reinforced base

- Rugged design
- Zinc-plated 7 mm corrugated frame and metal eyelets
- Frost resistant

Material	HDPE - High density polyethylene
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Contents	Diameter (Ø)	Height	Art. no.	P. Qty.
12 l	31 cm	23.5 cm	0993 501 160	1
20 l	37.4 cm	26.7 cm	0993 501 161	1



Mortar bucket

Square

- Material: PE granulate
- Colour: black
- Recessed grips

Height	320 mm
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Contents	Width	Length	Art. no.	P. Qty.
65 l	400 mm	740 mm	0993 997 022	1
90 l	490 mm	780 mm	0993 997 023	1



Mortar tub

Crane-compatible

- High impact strength and breakage resistance
Robust construction with thick walls
- High load-bearing capacity thanks to sturdy brackets

TÜV-certified service life of five years if used correctly and undergoes regular maintenance

Design	Contents	Max. loading weight	Width	Height	Art. no.	P. Qty.
Square-cut	200 l	700 kg	105 cm	46 cm	0993 997 026	1
Round	90 l	250 kg	628 mm	385 mm	0993 997 027	1

Multi-purpose tray

Plastic tray for universal use

- Fits under almost any vehicle
- Stackable
- Recess at the edge to pour out liquid in a controlled way

Colour	Black
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Volumetric capacity	External length	External width	External height	Material	Art. no.	P. Qty.
18 l	56 cm	42 cm	8 cm	PE - Polyethylene	0824 010 068	1
50 l	88 cm	60 cm	10 cm	PP - Polypropylene	0824 010 069	1

The tray with 50 l holding capacity is also suitable for collecting oil in accordance with DIN 16901 and is resistant to acids.

Drainage and protective membrane for structural sealing

Triple-layer backfill protection and drainage membrane for protecting horizontal and vertical structures in contact with the ground after sealing has been completed

- Components: Dimpled membrane (HD-PE), woven filter (PP), sliding film (LD-PE)
- Average compressive strength
- Drains off collecting water and leakage water dependably
- Rot-proof
- Root- and impact-resistant
- Shape-holding
- Resistant to aggressive waters
- Drinking water safe



Length	15 m
Area	30 m ²
Width	2 m
Height of dimples	8 mm
Min./max. temperature resistance	-30 to 80 °C
Max. pressing pressure	250 kN/m ²
Coating weight per m ²	800 g
Water drainage capacity per m	3.5 l/s
Number of plies	3 PCS

Art. no. 0993 893 002

P. Qty.: 1



Plain steel packing tape

Width of band	16 mm
Thickness of tape	0.5 mm
Barrel length	400 m
Tensile fracture load	650 N
Product weight (per item)	1000 g
Internal diameter of ring	300 mm
External diameter of ring	600 mm
Breaking elongation	3 %



Art. no. 0993 997 16

P. Qty.: 25

Marking pin

For quick and easy blocking off of construction sites

Length	1.25 m
Diameter	13 mm



Art. no. 0993 997 033

P. Qty.: 1

Not approved for use on public roads.

Building fence PPE banner

The PPE building fence banner has all relevant health and safety information that is required on the construction site

- Combined health and safety banner
- Large and colour-coded symbols
- Tear-proof, quick assembly



Number of mounting holes	24 PCS
Length x width	340 x 175 cm

Art. no. 0993 899 800

P. Qty.: 1

Mounting material, such as cable ties are not included in the scope of delivery.

Paving marker pin

Width	18 mm
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Length	Art. no.	P. Qty.
1000 mm	0993 713 031	5
1200 mm	0993 713 032	5

Plan protection pouch

For the secure yet visible storage of documents

UV protection



Colour	Transparent
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Material	Product weight (per item)	Suitable for	Width	Length	Art. no.	P. Qty.
	203.6 g	DIN A0	900 mm	1280 mm	0715 64 03	5
PE - Polyethylene	109.6 g	DIN A1	650 mm	900 mm	0993 997 047	10



AW® bit

C 6.3 (1/4 inch)

Benefits of AW output:

- Better force transfer
- Longer service life
- Optimum centring
- Largest possible contact surface of bit in screw drive

Even force distribution prevents damage to the surface-protection coating and therefore ensures better resistance to corrosion.

Drive	C 6.3 (1/4 inch)
Drive type	Outer hexagon
Length	25 mm

Tip size	Art. no.	P. Qty.
AW10	0614 511 0	10/100
AW20	0614 512 0	10/100
AW25	0614 512 5	10/100
AW30	0614 513 0	10/100
AW40	0614 514 0	10

AW® bit

E 6.3 (1/4")

Benefits of AW drive:

- Improved force transfer
- Longer service life
- Optimum centring
- Bits have largest possible contact surface in the screw drive

Ejection forces:

Ejection forces virtually zero. Even force distribution prevents damage to the surface-protection coating and therefore ensures better resistance to corrosion.



Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon

Tip size	Length	Art. no.	P. Qty.
AW10	50 mm	0614 521 0	5
AW10	70 mm	0614 571 0	5
AW10	110 mm	0614 581 0	5
AW20	50 mm	0614 522 0	5
AW20	70 mm	0614 572 0	5
AW20	110 mm	0614 582 0	5
AW20	155 mm	0614 100 220	1/3
AW20	168 mm	0614 100 320	1/3
AW20	176.5 mm	0614 100 420	3
AW25	50 mm	0614 522 5	5
AW25	110 mm	0614 582 5	5
AW30	50 mm	0614 523 0	5
AW30	70 mm	0614 573 0	5
AW30	110 mm	0614 583 0	5
AW40	50 mm	0614 524 0	5
AW40	70 mm	0614 574 0	5

AW® bit

C 8.0 (5/16")

AW® output

Advantages over previous drive systems:

Improved force transfer.

Longer service life.

Optimum centring.

Largest possible contact surface of bit in screw drive.

Cam-out forces:

Cam-out forces virtually zero. Even force distribution prevents damage to the surface-protection coating and therefore ensures better resistance to corrosion.



Drive	C 8 (5/16 inch)
Drive type	Outer hexagon

Continuation **AW® bit**

Tip size	Length	Art. no.	P. Qty.
AW20	32 mm	0614 552 0	5
AW25	32 mm	0614 552 5	5
AW30	32 mm	0614 553 0	5
AW40	32 mm	0614 554 0	5
AW50	50 mm	0614 550 50	5
AW50	110 mm	0614 550 110	5

AW® bit

M5 mm thread

AW® output

Advantages over previous drive systems:

Improved force transfer.

Longer service life.

Optimum centring.

Largest possible contact surface of bit in screw drive.

Cam-out forces:

Cam-out forces virtually zero. Even force distribution prevents damage to the surface-protection coating and therefore ensures better resistance to corrosion.



Tip size	AW20
Drive	M5
Drive type	Metric thread

Length	Art. no.	P. Qty.
33 mm	0614 562 0	5
45 mm	0614 542 0	5

AW® bit C 6.3 (1/4 inch)

Drive	C 6.3 (1/4 inch)
Drive type	Outer hexagon
Length	25 mm



Tip size	Art. no.	P. Qty.
AW10	0614 125 10	10
AW20	0614 125 20	10
AW25	0614 125 25	10
AW30	0614 125 30	10

Of course, bit and bit holder can also be used separately. However, the full efficacy of the system is only achieved in combination, particularly in continuous professional applications.

TX bit

TX C 6.3 (1/4")

Drive	C 6.3 (1/4 inch)
Drive type	Outer hexagon
Material	Steel



Tip size	Length	Art. no.	P. Qty.
TX6	25 mm	0614 310 6	10
TX7	25 mm	0614 310 7	10
TX8	25 mm	0614 310 8	10
TX9	25 mm	0614 310 9	10
TX10	25 mm	0614 311 0	5/10
TX15	25 mm	0614 311 5	5/10
TX20	25 mm	0614 312 0	5/10
TX25	25 mm	0614 312 5	5/10
TX27	25 mm	0614 312 7	5/10
TX30	25 mm	0614 313 0	5/10
TX40	25 mm	0614 314 0	5/10
TX45	25 mm	0614 314 50	5
TX45	35 mm	0614 314 51	10
TX50	35 mm	0614 315 01	10

TX bit

TX E 6.3 (1/4")

Drive type	Outer hexagon
Material	Steel



Tip size	Drive	Length	Art. no.	P. Qty.
TX10	E 6.3 (1/4 inch)	70 mm	0614 331 0	5
TX15	E 6.3 (1/4 inch)	70 mm	0614 331 5	5
TX20	E 6.3 (1/4 inch)	70 mm	0614 332 0	5
TX25	E 6.3 (1/4 inch)	70 mm	0614 332 5	5
TX30	E 6.3 (1/4 inch)	70 mm	0614 333 0	5
TX30	E 6.3 (1/4 inch)	90 mm	0614 344 30	1
TX40	1/4 inch	70 mm	0614 334 00	5
TX40	E 6.3 (1/4 inch)	90 mm	0614 344 40	1

TX bit

C 8.0 (5/16")

Drive	C 8 (5/16 inch)
Drive type	Outer hexagon
Material	Steel



Tip size	Length	Art. no.	P. Qty.
TX20	50 mm	0614 787 205	1/5
TX20	100 mm	0614 787 201	1/5
TX25	50 mm	0614 787 255	1/5

Continuation TX bit

Tip size	Length	Art. no.	P. Qty.
TX25	100 mm	0614 787 251	1/5
TX27	50 mm	0614 787 275	1/5
TX30	50 mm	0614 787 305	1/5
TX30	100 mm	0614 787 301	5
TX40	50 mm	0614 787 405	5
TX40	100 mm	0614 787 401	1/5
TX45	35 mm	0614 314 5	10
TX45	50 mm	0614 787 455	1/5
TX50	35 mm	0614 315 0	10
TX50	50 mm	0614 787 505	5
TX55	35 mm	0614 315 5	1/10
TX55	50 mm	0614 787 555	1/5

TX bit with hole

C 6.3 (1/4")

Drive	C 6.3 (1/4 inch)
Drive type	Outer hexagon
Length	25 mm
Material	Steel



Tip size	Art. no.	P. Qty.
TX8	0614 352 608	5
TX9	0614 352 609	5
TX10	0614 352 610	5
TX15	0614 352 615	5
TX20	0614 352 620	5
TX25	0614 352 625	5
TX27	0614 352 627	5
TX30	0614 352 630	5
TX40	0614 352 640	5
TX45	0614 352 645	5

TX bit with hole E 6.3 (1/4 inch)

Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon
Length	70 mm
Material	Steel



Tip size	Art. no.	P. Qty.
TX10	0614 371 0	5
TX15	0614 371 5	5
TX20	0614 372 0	5
TX25	0614 372 5	5
TX30	0614 373 0	5

Phillips bit

PH C 6.3 (1/4")

Drive	C 6.3 (1/4 inch)
Drive type	Outer hexagon
Length	25 mm



Tip size	Art. no.	P. Qty.
PH1	0614 122 51	10
PH2	0614 122 52	10
PH3	0614 122 53	10

Phillips bit

PH C 6.3 (1/4")

Drive	C 6.3 (1/4 inch)
Drive type	Outer hexagon



Tip size	Length	Art. no.	P. Qty.
PH0	25 mm	0614 176 270	5
PH1	25 mm	0614 176 274	10/100
PH1	50 mm	0614 176 691	5
PH2	25 mm	0614 176 461	10/100
PH2	50 mm	0614 176 692	5
PH3	25 mm	0614 176 648	10
PH3	50 mm	0614 176 693	5
PH4	32 mm	0614 176 750	5

Phillips bit

PH E 6.3 (1/4")

Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon



Tip size	Length	Art. no.	P. Qty.
PH1	50 mm	0614 176 735	5
PH1	73 mm	0614 176 774	5
PH1	90 mm	0614 176 850	5
PH2	50 mm	0614 176 736	5
PH2	73 mm	0614 176 775	5
PH2	110 mm	0614 176 739	3
PH2	148 mm	0614 100 215	2
PH2	152 mm	0614 100 201	3
PH2	155 mm	0614 100 111	3
PH2	168 mm	0614 100 211	3

Continuation **Phillips bit**

Tip size	Length	Art. no.	P. Qty.
PH2	176.5 mm	0614 100 212	3
PH3	50 mm	0614 176 737	5
PH3	90 mm	0614 176 851	5

Phillips bit

PH M5 mm thread

Tip size	PH2
Drive	M5
Drive type	Metric thread
Length	45 mm



Art. no. 0614 176 679

P. Qty.: 5

Pozidriv bit

PZ/Pozidriv C 6.3 (1/4")

Drive	C 6.3 (1/4 inch)
Drive type	Outer hexagon
Length	25 mm



Tip size	Art. no.	P. Qty.
PZ1	0614 112 51	10
PZ2	0614 112 52	10
PZ3	0614 112 53	10



RW® bit

The perfect bit for the new generation of ASSY screws.

- More power due to larger contact area at the bit
- More stability and precise positioning due to perfect fit of the bit in the drive
- Double printed bit for easy identification of the desired bit size

Drive	1/4 inch
Drive type	Hexagon socket
Tip type	RW
Length	25 mm



Tip size	Art. no.	P. Qty.
RW10	0614 70 10	10
RW20	0614 70 20	10
RW25	0614 70 25	10
RW30	0614 70 30	10
RW40	0614 70 40	10

RW® bit

The perfect bit for the new generation of ASSY screws.

- More power due to larger contact area at the bit
- More stability and precise positioning due to perfect fit of the bit in the drive
- Double printed bit for easy identification of the desired bit size



Drive	1/4 inch
Drive type	Hexagon socket
Tip type	RW

Tip size	Length	Art. no.	P. Qty.
RW10	50 mm	0614 71 10	5
RW20	50 mm	0614 71 20	5
RW25	50 mm	0614 71 25	5
RW30	50 mm	0614 71 30	5
RW40	50 mm	0614 71 40	5
RW10	120 mm	0614 72 10	5
RW20	120 mm	0614 72 20	5
RW25	120 mm	0614 72 25	5
RW30	120 mm	0614 72 30	5
RW40	120 mm	0614 72 40	5

You only need one bit for the RW and the AW drive. RW and AW bits are suitable for screws with both RW and AW drives.

RW® bit

The perfect bit for the new generation of ASSY screws.

- More power due to larger contact area at the bit
- More stability and precise positioning due to perfect fit of the bit in the drive
- Double printed bit for easy identification of the desired bit size



Drive	5/16 inch
Drive type	Hexagon socket
Tip size	RW50
Tip type	RW

Length	Art. no.	P. Qty.
50 mm	0614 70 50	5
120 mm	0614 72 50	5

You only need one bit for the RW and the AW drive. RW and AW bits are suitable for screws with both RW and AW drives.

Pozidriv bit

PZ C 6.3 (1/4")

Drive	C 6.3 (1/4 inch)
Drive type	Outer hexagon



Tip size	Length	Art. no.	P. Qty.
PZ0	25 mm	0614 176 640	5
PZ1	25 mm	0614 176 651	10/100
PZ1	50 mm	0614 176 694	5
PZ2	25 mm	0614 176 652	10/100
PZ2	50 mm	0614 176 695	5
PZ3	25 mm	0614 176 653	10
PZ3	50 mm	0614 176 696	5
PZ4	32 mm	0614 176 751	5

Pozidriv bit

PZ/Pozidriv E 6.3 (1/4")

Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon



Tip size	Length	Art. no.	P. Qty.
PZ1	50 mm	0614 176 659	5
PZ1	73 mm	0614 176 776	5
PZ1	90 mm	0614 176 852	5
PZ2	50 mm	0614 176 660	5
PZ2	73 mm	0614 176 777	5
PZ2	110 mm	0614 176 738	3
PZ2	152 mm	0614 100 221	3
PZ2	155 mm	0614 100 131	3
PZ2	168 mm	0614 100 231	3
PZ3	50 mm	0614 176 661	5
PZ3	110 mm	0614 176 853	5

Pozidriv bit Impact Flex

PZ/Pozidriv C 6.3 (1/4")

- High-performance bit for difficult screwing tasks, in particular for use with tangential impact screwdrivers.
- Longer service life
- Fits into all standard bit holders and into direct adapters of impact screwdrivers
- Moulded casing prevents flying chips if the torsion zone breaks



Tip size	PZ1
Drive	1/4 inch
Drive type	Outer hexagon
Length	29 mm

Art. no. 0614 176 641

P. Qty.: 5

Slotted bit

C 6.3 (1/4")

Tip type	Slot
Drive	C 6.3 (1/4 inch)
Drive type	Outer hexagon
Length	25 mm



Thickness of cutting edge x width of cutting edge	Art. no.	P. Qty.
0.5 x 3 mm	0614 175 650	10
0.6 x 4.5 mm	0614 175 652	10
0.8 x 5.5 mm	0614 175 653	10
1 x 6 mm	0614 175 654	10
1.2 x 6.5 mm	0614 175 655	10
1.2 x 8 mm	0614 175 656	10

Slotted bit

E 6.3 (1/4")

Tip type	Slot
Drive	1/4 inch
Drive type	Outer hexagon
Length	73 mm



Thickness of cutting edge x width of cutting edge	Art. no.	P. Qty.
0.6 x 3.5 mm	0614 175 660	5
0.8 x 4 mm	0614 175 661	5
0.8 x 5 mm	0614 175 662	5
1 x 6 mm	0614 175 663	5

Hexagon socket bit

C 6.3 (1/4") POWERDRIV

POWERDRIV:

Force is distributed across the curved surfaces on each side of the hexagon. This reduces the load on screw and bit.

Without POWERDRIV:

Force is exerted only at individual points. The result: high point load on screw and bit



POWERDRIV

Tip type	For hexagon socket
Drive	C 6.3 (1/4 inch)
Drive type	Outer hexagon
Length	25 mm

Tip size	Art. no.	P. Qty.
1/4 inch	0614 176 963	5
2 mm	0614 176 92	5
2.5 mm	0614 176 925	5
3 mm	0614 176 93	5

Tip size	Art. no.	P. Qty.
4 mm	0614 176 94	5
5 mm	0614 176 95	5
6 mm	0614 176 96	5
7 mm	0614 176 97	5

Hexagon socket bit

E 6.3 (1/4") POWERDRIV

Tip type	For hexagon socket
Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon
Length	100 mm



POWERDRIV

Tip size	Art. no.	P. Qty.
4 mm	0614 176 854	5
5 mm	0614 176 855	5
6 mm	0614 176 856	5

Hexagon socket bit

C 8.0 (5/16") POWERDRIV

POWERDRIV:

Force is distributed across the curved surfaces on each side of the hexagon. This reduces the load on screw and bit.

Without POWERDRIV:

Force is exerted only at individual points. The result: high point load on screw and bit.



POWERDRIV

Tip type	For hexagon socket
Drive	C 8 (5/16 inch)
Drive type	Outer hexagon
Length	50 mm

Tip size	Art. no.	P. Qty.
4 mm	0614 784 045	5
5 mm	0614 784 055	5
6 mm	0614 784 065	5
7 mm	0614 784 075	5
8 mm	0614 784 085	5
10 mm	0614 784 105	5
12 mm	0614 784 125	5

Bitbox AW®

36 pcs, 1/4 inch, 25 mm long

Specific composition for trade professionals

Sturdy metal box

Colour-coding system

Easy to see which bit belongs to which screw. Each bit is colour-coded and corresponding bits are printed in colour on Würth screw cartons. If the colour matches, the bit fits.

Clearly laid-out storage and easy removal



Drive	C 6.3 (1/4 inch)
Number of pieces in assortment/set	36 PCS

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
Contents: 12 x AW10 18 x AW20 6 x AW30	0614 250 3	1
Contents: 18 x AW20 18 x AW30	0614 250 31	1

Contents for art. no. 0614 250 3		
Designation	Art. no.	Quantity
AW® bit 10	0614 511 0	12
AW® bit 20	0614 512 0	18
AW® bit 30	0614 513 0	6
Contents for art. no. 0614 250 31		
Designation	Art. no.	Quantity
AW® bit 20	0614 512 0	18
AW® bit 30	0614 513 0	18

Bit box

11 pieces. Assortment with all conventional bits in practical and robust plastic box.

- 10 bits: Length 25 mm, 1/4" mount
- 1 self-adjusting magnetic bit holder for rapid and secure working
- Secure retention of bits in bit box
- Simple removal and replacement of bits
- Bit box dimensions (L x W x H): 132 x 69 x 18 mm
- Bit box with magnetic holder usable as handheld screwdriver



Drive	C 6.3 (1/4 inch)
Included in delivery (Lieferumfang)	4 x AW20, 1 x AW25, 3 x AW30, 2 x AW40, 1 x 1/4 inch magnetic holder
Number of pieces in assortment/set	11 PCS

Art. no. 0614 250 41

P. Qty.: 1

Contents for art. no. 0614 250 41		
Designation	Art. no.	Quantity
AW® bit 20	0614 512 0	4
AW® bit 25	0614 512 5	1
AW® bit 30	0614 513 0	3
AW® bit 40	0614 514 0	2
Magnetic bit holder	0614 811 320	1

Bit box AW

9 pieces. Small, impact-resistant bit box made from plastic that fits in almost every pocket.

- Bits fit precisely in box and do not fall out
- Organised arrangement and easy removal of bits
- Additional space for 1 universal holder



Number of pieces in assortment/set	9 PCS
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Included in delivery (Lieferumfang)	Art. no.	P. Qty.
2 x AW10 5 x AW20 2 x AW30	0614 250 24	1
2 x AW20 4 x AW25 3 x AW30	0614 250 23	1
3 x AW10 3 x AW20 3 x AW25	0614 250 22	1
3 x AW20 3 x AW30 3 x AW40	0614 250 25	1

Contents for art. no. 0614 250 22		
Designation	Art. no.	Quantity
AW® bit 10	0614 511 0	3
AW® bit 20	0614 512 0	3
AW® bit 25	0614 512 5	3
Bit box, empty		1
Contents for art. no. 0614 250 23		
Designation	Art. no.	Quantity
AW® bit 20	0614 512 0	2
AW® bit 25	0614 512 5	4
AW® bit 30	0614 513 0	3
Bit box, empty		1
Contents for art. no. 0614 250 24		
Designation	Art. no.	Quantity
AW® bit 10	0614 511 0	2
AW® bit 20	0614 512 0	5
AW® bit 30	0614 513 0	2
Bit box, empty		1
Contents for art. no. 0614 250 25		
Designation	Art. no.	Quantity
AW® bit 20	0614 512 0	3
AW® bit 30	0614 513 0	3
AW® bit 40	0614 514 0	3
Bit box, empty		1

Bit assortment

59-piece set with the latest 1/4 inch standard bits in short and long versions, adapter and socket wrench bits

- 36 short bits, 15 long bits, 2 magnetic bit holders, 1 adapter, 5 socket wrench bits
- Colour coding system
- Easy to remove and clear storage of bits
- Includes magnetic socket wrench bits



Drive	1/4 inch
Number of pieces in assortment/set	59

Art. no. 0614 250 59

P. Qty.: 1

Contents for art. no. 0614 250 59

Designation	Art. no.	Quantity
Slotted bit 0.6 x 4.5 mm; 25 mm	0614 175 652	1
Slotted bit 0.8 x 5.5 mm; Length 25 mm	0614 175 653	1
Slotted bit 1.2 x 8.0 mm; 25 mm	0614 175 656	1
Slotted bit 0.8 x 4.0 mm; 73 mm	0614 175 661	1
Slotted bit 1.0 x 6.0 mm; 73 mm	0614 175 663	1
1/4 inch socket wrench insert, set	0614 176 01	1
Phillips bit PH0; 25 mm; 25 mm	0614 176 270	1
Phillips bit PH1; Length 25 mm	0614 176 274	1
Phillips bit PH2; Length 25 mm	0614 176 461	3
Pozidriv bit PZ0; 25 mm; 25 mm	0614 176 640	1
Phillips bit PH3; Length 25 mm	0614 176 648	1
Pozidriv bit PZ1	0614 176 651	1
Pozidriv bit PZ2	0614 176 652	3
Pozidriv bit PZ3	0614 176 653	1
Connector DIN 7427 1/4 inch	0614 176 680	1
Universal holder E 6.3 (1/4") 74 mm	0614 176 702	1
Universal holder E 6.3 (1/4") 175 mm	0614 176 758	1
Phillips bit PH1; 73 mm; 73 mm	0614 176 774	1
Phillips bit PH2; 73 mm; 73 mm	0614 176 775	1
Pozidriv bit PZ1; 73 mm; 73 mm	0614 176 776	1
Pozidriv bit PZ2; 73 mm; 73 mm	0614 176 777	1
Hexagon socket bit 2 mm; 25 mm	0614 176 92	1
Hexagon socket bit 2.5 mm; 25 mm	0614 176 925	1
Hexagon socket bit 3 mm; Length 25 mm	0614 176 93	1
Hexagon socket bit 4 mm; Length 25 mm	0614 176 94	1
Hexagon socket bit 5 mm; Length 25 mm	0614 176 95	1
Hexagon socket bit 6 mm; Length 25 mm	0614 176 96	1
TX bit TX10; Length 25 mm	0614 311 0	1
TX bit 15; 25 mm	0614 311 5	1
TX bit TX20; Length 25 mm	0614 312 0	2
TX bit TX25; Length 25 mm	0614 312 5	1
TX bit 27; 25 mm	0614 312 7	1

Designation	Art. no.	Quantity
TX bit TX30; Length 25 mm	0614 313 0	1
TX bit TX40; Length 25 mm	0614 314 0	1
TX bit 10; 70 mm	0614 331 0	1
TX bit 15; 70 mm	0614 331 5	1
TX bit 20; 70 mm	0614 332 0	1
TX bit 25; 70 mm	0614 332 5	1
TX bit 27; 70 mm		1
TX bit 30; 70 mm	0614 333 0	1
AW® bit 10; 25 mm	0614 511 0	1
AW® bit 20; 25 mm	0614 512 0	3
AW® bit 25; 25 mm	0614 512 5	1
AW® bit 30; 25 mm	0614 513 0	1
AW® bit 40; 25 mm	0614 514 0	1
AW® bit 10; 70 mm	0614 571 0	1
AW® bit 20; 70 mm	0614 572 0	1
AW® bit 30; 70 mm	0614 573 0	1

Bit assortment

10 pieces, 1/4 inch bits with practical belt clip

- 70 mm long bits
- Practical belt clip
- Colour-coded system

Drive	1/4 inch
Number of pieces in assortment/set	10 PCS



		Art. no.	P. Qty.
		0614 250 010	1
		0614 250 020	1/20

Bit box

36 bits: 1/4 inch, L = 25 mm

- Specific composition for trade professionals
- Sturdy metal box
- Colour-coding system

Easy to see which bit belongs to which screw. If the colour matches, the bit fits.

Clearly laid-out storage and easy removal

Drive	1/4 inch
Number of pieces in assortment/set	36 PCS



Continuation **Bit box**

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
PH1-3; PZ1-3	0614 250 5	1
PH1-3; slotted	0614 250 6	1
PH1-3; slotted; hexagon socket 3-6; TX10-40	0614 250 7	1
PZ1-3; slotted; TX10-40	0614 250 8	1

Contents for art. no. 0614 250 5

Designation	Art. no.	Quantity
Phillips bit PH1; Length 25 mm	0614 176 274	6
Phillips bit PH2; Length 25 mm	0614 176 461	6
Phillips bit PH3; Length 25 mm	0614 176 648	6
Pozidriv bit PZ1	0614 176 651	6
Pozidriv bit PZ2	0614 176 652	6
Pozidriv bit PZ3	0614 176 653	6

Contents for art. no. 0614 250 6

Designation	Art. no.	Quantity
Slotted bit 0.5 x 3.0 mm	0614 175 650	2
Slotted bit 0.6 x 4.5 mm	0614 175 652	2
Slotted bit 0.8 x 5.5 mm; Length 25 mm	0614 175 653	2
Slotted bit 1.0 x 6.0 mm	0614 175 654	2
Slotted bit 1.2 x 6.5 mm	0614 175 655	2
Slotted bit 1.2 x 8.0 mm	0614 175 656	2
Phillips bit PH1; Length 25 mm	0614 176 274	6
Phillips bit PH2; Length 25 mm	0614 176 461	12
Phillips bit PH3; Length 25 mm	0614 176 648	6

Contents for art. no. 0614 250 7

Designation	Art. no.	Quantity
Slotted bit 0.5 x 3.0 mm	0614 175 650	2
Slotted bit 0.6 x 4.5 mm	0614 175 652	2
Slotted bit 0.8 x 5.5 mm; Length 25 mm	0614 175 653	2
Slotted bit 1.0 x 6.0 mm	0614 175 654	2
Slotted bit 1.2 x 6.5 mm	0614 175 655	2
Slotted bit 1.2 x 8.0 mm	0614 175 656	2
Phillips bit PH1; Length 25 mm	0614 176 274	6
Phillips bit PH2; Length 25 mm	0614 176 461	6
Phillips bit PH3; Length 25 mm	0614 176 648	6
Hexagon socket bit 3 mm; Length 25 mm	0614 176 93	1
Hexagon socket bit 4 mm; Length 25 mm	0614 176 94	2
Hexagon socket bit 5 mm; Length 25 mm	0614 176 95	2
Hexagon socket bit 6 mm; Length 25 mm	0614 176 96	1
TX bit TX10; Length 25 mm	0614 311 0	1
TX bit 15	0614 311 5	1
TX bit TX20; Length 25 mm	0614 312 0	1
TX bit TX25; Length 25 mm	0614 312 5	1
TX bit TX30; Length 25 mm	0614 313 0	1
TX bit TX40; Length 25 mm	0614 314 0	1

Contents for art. no. 0614 250 8		
Designation	Art. no.	Quantity
Slotted bit 0.5 x 3.0 mm	0614 175 650	1
Slotted bit 0.6 x 4.5 mm	0614 175 652	1
Slotted bit 0.8 x 5.5 mm; Length 25 mm	0614 175 653	1
Slotted bit 1.0 x 6.0 mm	0614 175 654	1
Slotted bit 1.2 x 6.5 mm	0614 175 655	1
Slotted bit 1.2 x 8.0 mm	0614 175 656	1
Pozidriv bit PZ1	0614 176 651	6
Pozidriv bit PZ2	0614 176 652	12
Pozidriv bit PZ3	0614 176 653	6
TX bit TX10; Length 25 mm	0614 311 0	1
TX bit 15	0614 311 5	1
TX bit TX20; Length 25 mm	0614 312 0	1
TX bit TX25; Length 25 mm	0614 312 5	1
TX bit TX30; Length 25 mm	0614 313 0	1
TX bit TX40; Length 25 mm	0614 314 0	1

Bit assortment

105 pieces Extensive 1/4 inch bit assortment with short and long versions of the most common standard and security bits.

Contents: 105 pieces

- 14 TX bits with hole
- 9 PH, TX bits
- 8 hex bits
- 7 PZ hex bits with hole
- 6 tri-wing spanner bits
- 5 slotted AW bits
- 4 hex bits Imperial, multi-tooth XZN, Ribe, square
- 3 bits each of Torq, Clutch, 5-star with hole
- 1 screw hook
- 1 bit adapter
- 1 magnetic bit holder



Number of pieces in assortment/set	105 PCS
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Art. no. 0614 250 300

P. Qty.: 1

Security bit assortment, 29 pcs.

This set contains all major bits required for installing and removing security screws.

Contents: 29 pieces

- 1x bit with bore: C 6.3 (1/4 in) TX 8, 9, 10, 15, 20, 25, 27, 30, 40
- 1x hexagon socket bit with bore: C 6.3 (1/4 in) sizes 2, 2.5, 3, 4, 5, 6
- 1x spanner bit: C 6.3 (1/4 in) sizes 4, 6, 8, 10
- 1x tri-wing bit C 6.3 (1/4 in) sizes 1, 2, 3, 4
- 1x torque bit C 6.3 (1/4 in) sizes 6, 8, 10
- 1x screwdriver with quick-change chuck
- 2x adapters 1/4 in



Number of pieces in assortment/set	29 PCS
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Art. no. 0614 250 30

P. Qty.: 1

Contents for art. no. 0614 250 30		
Designation	Art. no.	Quantity
1/4 inch screwdriver	0613 210 21	1
Connector DIN 7427 1/4 inch	0614 176 680	1
Connector DIN 7428 C 6.3 (1/4 inch)	0614 176 700	1
Hexagon socket bit assortment, hole, 7 pcs.	0614 250 301	1
Spanner bit assortment, 4 pcs.	0614 250 302	1
Tri-wing bit assortment, 4 pcs.	0614 250 303	1
Torq bit assortment, 3 pieces	0614 250 304	1
TX bit with hole TX8	0614 352 608	1
TX bit with hole TX9	0614 352 609	1
TX bit with hole TX10	0614 352 610	1
TX bit with hole TX15	0614 352 615	1
TX bit with hole TX20	0614 352 620	1
TX bit with hole TX25	0614 352 625	1
TX bit with hole TX27	0614 352 627	1
TX bit with hole TX30	0614 352 630	1
TX bit with hole TX40	0614 352 640	1

Bit box

11 pieces. Assortment with all conventional bits in practical and robust plastic box.

- 10 bits: Length 25 mm, 1/4" mount
- 1 self-adjusting magnetic bit holder for rapid and secure working
- Secure retention of bits in bit box
- Simple removal and replacement of bits
- Bit box dimensions (L x W x H): 132 x 69 x 18 mm
- Bit box with magnetic holder usable as handheld screwdriver



Drive	1/4 inch
Included in delivery (Lieferumfang)	1 x PH2, 1 x PH3, 2 x PZ2, 1 x PZ3 slotted 0.8 x 5.5, 1 x TX20, 1 x TX25, 1 x TX30, 1 x TX40, 1 x 1/4 inch magnetic holder
Number of pieces in assortment/set	10 PCS
Length	132 mm
Width	69 mm
Height	18 mm

Art. no. 0614 250 40

P. Qty.: 1



Bit set with metal belt clip

17 pieces. Practical bit set with all conventional bits.

- Rapid access to bits
- 16 bits: Length 25 mm, 1/4 inch mount
- 1 universal bit holder

Drive	1/4 inch
Included in delivery (Lieferumfang)	1 each of PH1 PH2 PZ1 PZ2 PZ3 SZ 0.8 x 5.5 hexagon socket size 4 mm, hexagon socket size 5 mm, TX15 TX20 TX25 TX30 AW10 AW20 AW25 AW30 universal holder
Number of pieces in assortment/set	17 PCS
Length	25 mm

Art. no. 0614 203

P. Qty.: 1

Contents for art. no. 0614 203		
Designation	Art. no.	Quantity
Slotted bit 0.8 x 5.5 mm; Length 25 mm	0614 175 653	1
Phillips bit PH1; Length 25 mm	0614 176 274	1
Phillips bit PH2; Length 25 mm	0614 176 461	1
Pozidriv bit PZ1	0614 176 651	1
Pozidriv bit PZ2	0614 176 652	1
Pozidriv bit PZ3	0614 176 653	1

Designation	Art. no.	Quantity
Universal holder E 6.3 (1/4")	0614 176 702	1
Hexagon socket bit 4 mm; Length 25 mm	0614 176 94	1
Hexagon socket bit 5 mm; Length 25 mm	0614 176 95	1
TX bit 15	0614 311 5	1
TX bit TX20; Length 25 mm	0614 312 0	1
TX bit TX25; Length 25 mm	0614 312 5	1
TX bit TX30; Length 25 mm	0614 313 0	1
AW® bit 10	0614 511 0	1
AW® bit 20	0614 512 0	1
AW® bit 25	0614 512 5	1
AW® bit 30	0614 513 0	1

Bit box

7-piece set with 6 bits and one bit holder

- Impact-resistant plastic box
- Box precisely tailored to bits prevents them from falling out
- Clearly laid-out storage and easy removal
- Compact bit box design fits in almost any pocket



Number of pieces in assortment/set	6 PCS
Length	80 mm
Width	50 mm
Height	20 mm

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
1 x AW20 1 x AW25 1 x AW30 1 x PH2 1 x PZ2 1 x PZ3 1 x bit holder	0614 005	1
1 x PH1 1 x PH2 1 x PH3 1 x PZ1 1 x PZ2 1 x PZ3 1 x bit holder	0614 004	1

Contents for art. no. 0614 004		
Designation	Art. no.	Quantity
Phillips bit PH1; Length 25 mm	0614 176 274	1
Phillips bit PH2; Length 25 mm	0614 176 461	1
Phillips bit PH3; Length 25 mm	0614 176 648	1
Pozidriv bit PZ1	0614 176 651	1
Pozidriv bit PZ2	0614 176 652	1
Pozidriv bit PZ3	0614 176 653	1
Universal holder E 6.3 (1/4")	0614 176 711	1
Bit box, empty		1
Contents for art. no. 0614 005		
Designation	Art. no.	Quantity
Phillips bit PH2; Length 25 mm	0614 176 461	1
Pozidriv bit PZ2	0614 176 652	1
Pozidriv bit PZ3	0614 176 653	1
Universal holder E 6.3 (1/4")	0614 176 711	1
AW® bit 20	0614 512 0	1

Continuation **Bit box**

Designation	Art. no.	Quantity
AW® bit 25	0614 512 5	1
AW® bit 30	0614 513 0	1
Bit box, empty		1

Bit box

33 pieces. Extensive bit assortment in impact-resistant plastic box with removable belt clip

- Box can be configured individually
- Secure clamping and easy removal with movable bit strips
- Colour coding system printed on the bits for easy identification of the desired bit size

Drive	1/4 inch
Number of pieces in assortment/set	33 PCS
Length	110 mm
Width	75 mm
Height	39 mm



Art. no. 0614 400 301

P. Qty.: 1

Bit box

36 bits: 1/4 inch, L = 25 mm

Specific composition for trade professionals Sturdy metal box Colour-coding system

Easy to see which bit belongs to which screw. Each bit is colour-coded and corresponding bits are printed in colour on Würth screw cartons. If the colour matches, the bit fits.

Clearly laid-out storage and easy removal

Included in delivery (Lieferumfang)	Contents: 3 x TX9, 6 x TX10, 3 x TX15, 6 x TX20, 6 x TX25, 3 x TX27, 6 x TX30, 3 x TX40
Number of pieces in assortment/set	36 PCS



Art. no. 0614 250 10

P. Qty.: 1

Contents for art. no. 0614 250 10		
Designation	Art. no.	Quantity
TX bit TX9	0614 310 9	3
TX bit TX10	0614 311 0	6
TX bit TX15	0614 311 5	3
TX bit TX20	0614 312 0	6
TX bit TX20		6

Designation	Art. no.	Quantity
TX bit TX25	0614 312 5	6
TX bit TX27	0614 312 7	3
TX bit TX30	0614 313 0	6
TX bit TX40	0614 314 0	3

TX bit assortment, hole, 6 pcs.

For TX profile with pin

Contents: 6 pieces

- 6 x TX bits with hole
TX 10, 15, 20, 25, 30, 40

Supplied in impact-resistant plastic box



Number of pieces in assortment/set	6 PCS
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Art. no. **0614 250 352**

P. Qty.: 1

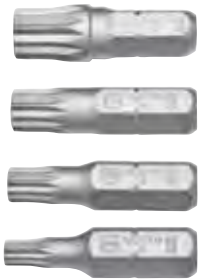
Contents for art. no. 0614 250 352		
Designation	Art. no.	Quantity
TX bit with hole Max. nominal diameter of external Torx=2.74 mm	0614 352 610	1
TX bit with hole Max. nominal diameter of external Torx=3.27 mm	0614 352 615	1
TX bit with hole Max. nominal diameter of external Torx=3.86 mm	0614 352 620	1
TX bit with hole Max. nominal diameter of external Torx=4.43 mm	0614 352 625	1
TX bit with hole Max. nominal diameter of external Torx=5.52 mm	0614 352 630	1
TX bit with hole Max. nominal diameter of external Torx=6.65 mm	0614 352 640	1

XZN triple square bit assortment, 4 pcs.

Number of pieces in assortment/set	4 PCS
Included in delivery (Lieferumfang)	M4, 5, 6, 8

Art. no. **0614 250 305**

P. Qty.: 1



Ratchet bit assortment, 10 mm

Special bit assortment for motor vehicle and cargo applications, 38 pcs.

Additional adapter allows working with a 1/2 inch ratchet tool

Bit ratchet with very low overall height

Supplied in metal box with high-quality foam insert and clamping effect

Contents: 38 pieces



- 8 TX bits 10 mm, length 30 mm, TX 20, 25, 27, 30, 35, 40, 45, 50
- 8 TX bits 10 mm, length 70 mm, TX 20, 25, 27, 30, 35, 40, 45, 50
- 3 TX bits 10 mm, length 120 mm, TX 40, 45, 50
- 6 hexagon socket bits 10 mm, length 30 mm, size 5, 6, 7, 8, 10, 12
- 5 XZN triple square bits 10 mm, length 30 mm, XZN M 5, 6, 8, 10, 12
- 4 XZN triple square bits 10 mm, length 75 mm, XZN M 6, 8, 10, 12
- 2 PH bits 10 mm, length 30 mm, PH 2, 3
- 1 ratchet tool for 10 mm bits
- 1 adapter for 1/2 inch ratchet tool

Number of pieces in assortment/set	38 PCS
Length	280 mm
Width	165 mm
Height	45 mm

Art. no. 0965 12 370

P. Qty.: 1

Contents for art. no. 0965 12 370		
Designation	Art. no.	Quantity
TX bit 20; 75 mm	0614 788 120	1
TX bit 25; 75 mm	0614 788 125	1
TX bit 27; 75 mm	0614 788 127	1
TX bit 30; 75 mm	0614 788 130	1
TX bit 40; 75 mm	0614 788 140	1
TX bit 45; 75 mm	0614 788 145	1
TX bit 50; 75 mm	0614 788 150	1
TX bit 55; 75 mm	0614 788 155	1
TX bit 40; 120 mm	0614 788 240	1
TX bit 45; 120 mm	0614 788 245	1
TX bit 50; 120 mm	0614 788 250	1
Hexagon socket bit 5 mm; 30 mm	0614 788 305	1
Hexagon socket bit 6 mm; 30 mm	0614 788 306	1
Hexagon socket bit 7 mm; 30 mm	0614 788 307	1
Hexagon socket bit 8 mm; 30 mm	0614 788 308	1
Hexagon socket bit 10 mm; 30 mm	0614 788 310	1
Hexagon socket bit 12 mm; 30 mm	0614 788 312	1

Designation	Art. no.	Quantity
Triple square bit XZN M5; 30 mm	0614 788 405	1
Triple square bit XZN M6; 30 mm	0614 788 406	1
Triple square bit XZN M8; 30 mm	0614 788 408	1
Triple square bit XZN M10; 30 mm	0614 788 410	1
Triple square bit XZN M12; 30 mm	0614 788 412	1
Triple square bit XZN M6; 75 mm	0614 788 506	1
Triple square bit XZN M8; 75 mm	0614 788 508	1
Triple square bit XZN M10; 75 mm	0614 788 510	1
Triple square bit XZN M12; 75 mm	0614 788 512	1
TX bit 20; 30 mm	0614 788 820	1
TX bit 25; 30 mm	0614 788 825	1
TX bit 27; 30 mm	0614 788 827	1
TX bit 30; 30 mm	0614 788 830	1
TX bit 40; 30 mm	0614 788 840	1
TX bit 45; 30 mm	0614 788 845	1
TX bit 50; 30 mm	0614 788 850	1
TX bit 55; 30 mm	0614 788 855	1
Phillips bit PH2; 30 mm	0614 788 902	1
Phillips bit PH3; 30 mm	0614 788 903	1
Ratchet for 10 mm bits	0714 12 100	1
1/2 inch adapter	0715 13 03	1
Foam insert		1
Metal box		1

1/2 inch adapter

1/2" square socket and 10 mm hexagon socket

Drive (S2)	1/2 inch
Drive type	Internal square
Tip size (S1)	10 mm
Tip type	Hexagon socket
Length (L1)	37 mm



Art. no. 0715 13 03

P. Qty.: 1/10

Bit assortment

47-piece set with the most common 10 mm bits for the automotive and cargo sectors.

TX insert and triple square profile for cylinder head screws on Fiat, VW and Japanese engines.

Includes 2 adapters in metal case with foam insert with clamping effect

Contents: 47 pcs.

- 8 TX bits with bore, 10 mm, length 30 mm, TX 20, 25, 27, 30, 35, 40, 45, 50
- 8 TX bits, 10 mm, length 75 mm, TX 20, 25, 27, 30, 35, 40, 45, 50
- 5 hexagon socket Bits, 10 mm, length 30 mm, sizes 5, 6, 7, 8, 10
- 5 triple square bits, 10 mm, length 30 mm, XZN M 5, 6, 8, 10, 12
- 4 triple square bits, 10 mm, length 75 mm XZN M 6, 8, 10, 12
- 9 TX insert bits, 10 mm, length 30 mm, RI 5, 6, 7, 8, 9, 10, 12, 13, 14
- 4 insert bits, 10 mm, length 75 mm, RI 5, 6, 8, 10
- 2 PH bits, 10 mm, length 30 mm, PH 2, 3
- 1 adapter for 1/2" ratchet
- 1 adapter for 3/8" ratchet



Number of pieces in assortment/set	47 PCS
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Art. no. 0965 12 470

P. Qty.: 1

Contents for art. no. 0965 12 470

Designation	Art. no.	Quantity
TX bit 20	0614 788 120	1
TX bit 25	0614 788 125	1
TX bit 27	0614 788 127	1
TX bit 30	0614 788 130	1
TX bit 40	0614 788 140	1
TX bit 45	0614 788 145	1
TX bit 50	0614 788 150	1
TX bit 55	0614 788 155	1
TX bit with hole TX20	0614 788 20	1
TX bit with hole TX25	0614 788 25	1
TX bit with hole TX27	0614 788 27	1
TX bit with hole TX30	0614 788 30	1
Hexagon socket bit 5 mm	0614 788 305	1
Hexagon socket bit 6 mm	0614 788 306	1
Hexagon socket bit 7 mm	0614 788 307	1
Hexagon socket bit 8 mm	0614 788 308	1
Hexagon socket bit 10 mm	0614 788 310	1
TX bit with hole TX40	0614 788 40	1
Triple square bit XZN M5	0614 788 405	1
Triple square bit XZN M6	0614 788 406	1

Designation	Art. no.	Quantity
Triple square bit XZN M8	0614 788 408	1
Triple square bit XZN M10	0614 788 410	1
Triple square bit XZN M12	0614 788 412	1
TX bit with hole TX45	0614 788 45	1
TX bit with hole TX50	0614 788 50	1
Triple square bit XZN M6	0614 788 506	1
Triple square bit XZN M8	0614 788 508	1
Triple square bit XZN M10	0614 788 510	1
Triple square bit XZN M12	0614 788 512	1
TX bit with hole TX55	0614 788 55	1
TX insert bit RI 5; 30 mm	0614 788 605	1
TX insert bit RI 6; 30 mm	0614 788 606	1
TX insert bit RI 7; 30 mm	0614 788 607	1
TX insert bit RI 8; 30 mm	0614 788 608	1
TX insert bit RI 9; 30 mm	0614 788 609	1
TX insert bit RI 10; 30 mm	0614 788 610	1
TX insert bit RI 12; 30 mm	0614 788 612	1
TX insert bit RI 13; 30 mm	0614 788 613	1
TX insert bit RI 14; 30 mm	0614 788 614	1
TX insert bit RI 5; 75 mm	0614 788 705	1
TX insert bit RI 6; 75 mm	0614 788 706	1
TX insert bit RI 8; 75 mm	0614 788 708	1
TX insert bit RI 10; 75 mm	0614 788 710	1
Phillips bit PH2	0614 788 902	1
Phillips bit PH3	0614 788 903	1
3/8" adapter	0715 12 02	1
1/2 inch adapter	0715 13 03	1
Metal box		1
Foam insert		1

TX bit with hole

TX 10 mm

Drive	10 mm
Drive type	Outer hexagon
Length	30 mm
Material	Steel



Tip size	Art. no.	P. Qty.
TX20	0614 788 20	1/5
TX25	0614 788 25	1/5
TX27	0614 788 27	1/5
TX30	0614 788 30	1/5
TX40	0614 788 40	1/5
TX45	0614 788 45	1/5
TX50	0614 788 50	1/5
TX55	0614 788 55	1/5

TX bit

With 10 mm hexagon

Drive	10 mm
Drive type	Outer hexagon
Material	Steel



Tip size	Length	Art. no.	P. Qty.
TX20	30 mm	0614 788 820	1/5
TX20	75 mm	0614 788 120	1/5
TX25	30 mm	0614 788 825	1/5
TX25	75 mm	0614 788 125	1/5
TX27	30 mm	0614 788 827	1/5
TX27	75 mm	0614 788 127	1/5
TX30	30 mm	0614 788 830	1/5
TX30	75 mm	0614 788 130	1/5
TX40	30 mm	0614 788 840	1/5
TX40	75 mm	0614 788 140	1/5
TX40	120 mm	0614 788 240	1/5
TX45	30 mm	0614 788 845	1/5
TX45	75 mm	0614 788 145	1/5
TX45	120 mm	0614 788 245	1/5
TX50	30 mm	0614 788 850	1/5
TX50	75 mm	0614 788 150	1/5
TX50	120 mm	0614 788 250	1/5
TX55	30 mm	0614 788 855	1/5
TX55	75 mm	0614 788 155	1/5

Hexagon socket bit

10 mm hex socket

Tip type	For hexagon socket
Drive	10 mm
Drive type	Outer hexagon
Length	30 mm



Tip size	Art. no.	P. Qty.
5 mm	0614 788 305	1/5
6 mm	0614 788 306	1/5
7 mm	0614 788 307	1/5
8 mm	0614 788 308	1/5
10 mm	0614 788 310	1/5
12 mm	0614 788 312	1/5

Magnetic bit holder

Self-adjusting, 1/4" automatic holder for safe and efficient working

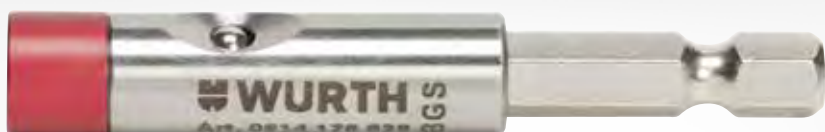
- The high-quality ring magnet automatically adjusts to the depth of the screw head.
- Simple and rapid replacement of 1/4" standard bits
- No abrasive ring when installing screws flush
- Countersink screws by sliding back the sleeve.



Drive	1/4 inch
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Hexagon socket
Length (L)	67 mm

Art. no. 0614 811 320

P. Qty.: 1



1/4 inch bit holder, magnetic

Innovative bit holder with one-hand quick-change function

- One-hand quick-change function: Pressing lightly on the knob shoots the bit forwards.
- Very slim design (Ø max. 10.5 mm)
- For bits with hexagon head drive according to DIN 3126

Drive	1/4 inch
Drive type	Hexagon
Tip size	1/4 inch
Tip type	Hexagon socket
Sleeve diameter (D)	10.5 mm

Blade length (L1)	Length (L)	Design	Art. no.	P. Qty.
40 mm	66 mm		0614 176 638	1
120 mm	150 mm	With guide sleeve	0614 176 639	1
310 mm	350 mm	With guide sleeve	0614 176 645	1

1/4 inch bit holder, E 6.3

Magnetic bit holder with quick-change chuck for one-handed bit insertion

- Bit engages automatically
- Spring mechanism makes changing bit easier



Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Hexagon socket
Sleeve diameter (D)	15 mm
Blade length (L1)	20 mm
Length (L)	51 mm

Art. no. 0614 176 755

P. Qty.: 1

Universal holder, magnetic

Quick-change chuck and permanent magnet

- Super-fast tool change by pushing the clamping bush forward slightly



Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Hexagon socket

Sleeve diameter (D)	Blade length (L1)	Length (L)	Art. no.	P. Qty.
14 mm	25 mm	60 mm	0614 176 753	1
14.3 mm	31 mm	75 mm	0614 176 708	1

Universal holder E 6.3 (1/4")

Adjustable screw-in depth and permanent magnet

Quick-change holder forms a strong connection between holder and bit

Spacer with adjustable screw-in depth

Screws are held securely on the bit

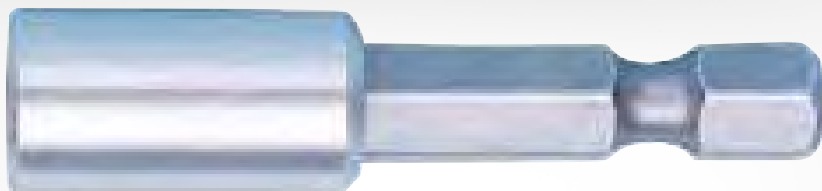
- Vertical and horizontal screwing possible without tilting or losing screw
- Particularly suitable for long screws



Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Hexagon socket
Length (L)	60 mm

Art. no. 0614 811 360

P. Qty.: 1



Universal holder E 6.3 (1/4")

Stainless steel sleeve, snap ring and permanent magnet

Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Hexagon socket

Length (L)	Art. no.	P. Qty.
45 mm	0614 176 690	1
50 mm	0614 176 754	1
74 mm	0614 176 699	1
74 mm	0614 176 702	1
175 mm	0614 176 758	1

Universal holder with SDS-plus mount

Quick-change chuck and permanent magnet

Rapid tool change

Pushing the clamping bush forward slightly releases the latch mechanism.



Drive type	Suitable for SDS-plus
Tip size	1/4 inch

Tip type	Hexagon socket
Length (L)	80 mm

Art. no. 0614 176 701

P. Qty.: 1

Universal holder Ø 7 mm

Quick-change chuck

- Non-magnetic holder for screws in metallic environment. Magnets would attract swarf.
- Quick-change chuck forms a strong connection between holder and bit Pushing the clamping bush forward slightly releases the latch mechanism and facilitates extremely rapid tool replacement.



Drive	G 7 mm
Drive type	Slot
Tip size	1/4 inch
Tip type	Hexagon socket
Length (L)	51 mm

Art. no. 0614 176 710

P. Qty.: 1

Universal holder E 6.3 (1/4")

Quick-change chuck and permanent magnet

- Super-fast tool change by pushing the clamping bush forward slightly



Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Hexagon socket
Sleeve diameter (D)	15 mm
Length (L)	74 mm



Art. no. 0614 176 688

P. Qty.: 1

1/4-inch bit holder

Magnetic bit holder with quick-change chuck

Drive	6 mm
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Hexagon socket
Length (L)	200 mm



Art. no. 0613 705

P. Qty.: 1

Bit holder, interchangeable blade with quick-change chuck

Drive	6 mm
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Hexagon socket
Length (L)	165 mm



Art. no. 0613 704

P. Qty.: 1

1/4 inch 2 in 1 adapter

Socket wrench and bit adapter in one tool.

- By simply sliding, the sleeve can be used as a socket wrench adapter and a bit holder
- Blade holder 1/4 inch E 6.3 for 1/4 inch square socket wrench inserts or 1/4 inch hexagon



Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Hexagon socket and outer square
Sleeve diameter (D)	13 mm
Blade length (L1)	26 mm
Length (L)	60 mm

Art. no. 0614 176 636

P. Qty.: 1

Universal holder C 6.3 (1/4")

Stainless steel sleeve, snap ring and permanent magnet

Drive	C 6.3 (1/4 inch)
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Hexagon socket
Length (L)	58 mm



Art. no. 0614 176 683

P. Qty.: 1

Bit holder E 6.3 (1/4")

Stainless steel sleeve and snap ring

Non-magnetic holder for screwing in metallic environments

Magnets would attract swarf.



Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Hexagon socket
Length (L)	74 mm

Art. no. 0614 176 729

P. Qty.: 1

Connector DIN 7428 E 6.3 (1/4 inch)

Allows the use of socket wrenches on machines with a standard drill chuck.



Drive type	Outer hexagon
Tip type	Outer square

Tip size	Length	Art. no.	P. Qty.
1/2 inch	74 mm	0614 176 780	1
1/4 inch	50 mm	0614 176 726	1
3/8 inch	50 mm	0614 176 727	1

Connector DIN 7428 with SDS-plus mount

Allows the use of socket wrenches on machines with an SDS-plus drill chuck.



Drive type	Suitable for SDS-plus
Tip size	1/2 inch
Tip type	Outer square
Length	74 mm

Art. no. 0614 176 782

P. Qty.: 1

Connector DIN 7428 C 6.3 (1/4 inch)

Drive	C 6.3 (1/4 inch)
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Outer square
Length	25 mm



Art. no. 0614 176 700

P. Qty.: 1

Connector DIN 7427 1/4 inch

Non-magnetic holder for screwing in metallic environments

Magnetic force would attract chips in this situation.

Drive	1/4 inch
Drive type	Internal square
Tip size	1/4 inch
Tip type	Hexagon socket
Length	25 mm



Art. no. 0614 176 680

P. Qty.: 1

Connector DIN 7427 1/2 inch

Non-magnetic holder for screwing in metallic environments

Magnetic force would attract chips in this situation.

Drive	1/2 inch
Drive type	Internal square
Tip type	Hexagon socket
Length	35 mm



Tip size	Art. no.	P. Qty.
1/4 inch	0614 215 013	1
5/16 inch	0614 215 010	1



1/4 inch socket wrench insert, set

The 5-piece set includes the most common magnetic socket wrench inserts for use in mechanical applications.

- Plastic holder with belt clip

Number of pieces in assortment/set	5 PCS
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Art. no. 0614 176 01

P. Qty.: 1

Contents for art. no. 0614 176 01		
Designation	Art. no.	Quantity
1/4-inch socket wrench insert Width across flats 7 mm	0614 176 714	1
1/4-inch socket wrench insert Width across flats 8 mm	0614 176 715	1
1/4-inch socket wrench insert Width across flats 3/8 inch	0614 176 716	1
1/4-inch socket wrench insert Width across flats 10 mm	0614 176 717	1
1/4-inch socket wrench insert Width across flats 13 mm	0614 176 718	1

Aluminium, Ø 7 mm

Hexagonal with magnet

- Machine mount, Ø 7 mm
- Length 51 mm
- Material: Chromium-vanadium steel



Drive	G 7 mm
Tip type	For outer hexagon
Length (L)	51 mm

Width across flats	Socket wrench depth to magnet (l)	Socket wrench external diameter (D)	Art. no.	P. Qty.
3/8 inch	4.2 mm	14 mm	0614 176 723	1
7 mm	2.8 mm	11 mm	0614 176 721	1
8 mm	3.5 mm	12 mm	0614 176 722	1
10 mm	4.2 mm	14 mm	0614 176 724	1
13 mm	6 mm	18 mm	0614 176 725	1



1/4-inch socket wrench insert

Hexagonal with magnet

- 1/4 inch machine mount, E, 6.3
- Length 51 mm
- Material: Chromium-vanadium steel

Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon
Tip type	For outer hexagon
Length (L)	51 mm

Width across flats	Socket wrench depth to magnet (l)	Socket wrench external diameter (D)	Art. no.	P. Qty.
1/4 inch	2.8 mm	11 mm	0614 176 713	1
3/8 inch	4.2 mm	14.6 mm	0614 176 716	1
5.5 mm	2.1 mm	11 mm	0614 176 712	1
7 mm	2.8 mm	11.8 mm	0614 176 714	1
8 mm	3.5 mm	12.7 mm	0614 176 715	1
10 mm	4.2 mm	14.6 mm	0614 176 717	1
13 mm	6 mm	19.5 mm	0614 176 718	1

1/4-inch socket wrench insert

Hexagonal without magnet

- 1/4 inch machine mount, E, 6.3
- Length 65 mm
- Material: Chromium-vanadium steel



Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon
Tip type	For outer hexagon
Length (L)	65 mm

Width across flats	Socket wrench depth	Socket wrench external diameter (D)	Art. no.	P. Qty.
3/8 inch	7 mm	14 mm	0614 176 820	1
7 mm	5 mm	11 mm	0614 176 811	1
8 mm	6 mm	12 mm	0614 176 812	1
10 mm	7 mm	14 mm	0614 176 813	1

1/4-inch socket wrench insert

Hexagonal without magnet, with ball clamp

- 1/4-inch machine chuck, E 6.3
- Material: Chromium-vanadium steel



Drive	E 6.3 (1/4 inch)
Drive type	Outer hexagon
Tip type	For outer hexagon

Width across flats	Socket wrench depth	Socket wrench depth to blind hole	Length (L)	Socket wrench external diameter (D)	Art. no.	P. Qty.
3/8 inch	10 mm	15 mm	50 mm	16 mm	0614 176 819	1
7 mm	9 mm	13 mm	50 mm	12.5 mm	0614 176 817	1
8 mm	9 mm	13 mm	50 mm	14 mm	0614 176 818	1
10 mm	6.5 mm	18 mm	50 mm	16 mm	0614 176 824	1
13 mm	8 mm	19.5 mm	65 mm	19.5 mm	0614 176 825	1

5/16-inch socket wrench insert

Hexagonal with magnet

- 5/16-inch machine chuck, C 8.0
- Material: Chromium-vanadium steel



Drive	C 8 (5/16 inch)
Drive type	Outer hexagon
Tip type	For outer hexagon
Length (L)	50 mm

Width across flats	Socket wrench depth to magnet (l)	Socket wrench external diameter (D)	Art. no.	P. Qty.
12 mm	5.5 mm	20 mm	0614 176 831	1
15 mm	9 mm	23 mm	0614 176 832	1
17 mm	10 mm	25 mm	0614 176 833	1

3-component slotted screwdriver

Flexible 3-component handle ensures perfect ergonomics, power transmission and working comfort.

- Blade: One-piece hexagon blade, matt chrome-plated; wrench adapter matt nickel-plated, tempered, impact-resistant
- Large impact cap
- Art. no. 0613421035 without impact cap or torque adjustment
- Output: DIN 5264-A, ISO 2380 with Black Point tip



Thickness of cutting edge x width of cutting edge	Blade length (A)	Handle length/handle width	Length	Art. no.	P. Qty.
0.6 x 3.5 mm	80 mm	83/27 mm	163 mm	0613 200 035	1
0.8 x 4.5 mm	90 mm	96/31 mm	186 mm	0613 200 045	1
1 x 5.5 mm	100 mm	96/31 mm	196 mm	0613 200 055	1
1.2 x 7 mm	125 mm	106/35 mm	231 mm	0613 200 07	1
1.6 x 9 mm	150 mm	114/38 mm	164 mm	0613 200 09	1
1.6 x 10 mm	175 mm	114/38 mm	289 mm	0613 200 10	1
2 x 12 mm	200 mm	114/38 mm	314 mm	0613 200 12	1

PH 3-component screwdriver

Flexible 3-component handle ensures perfect ergonomics, force transmission and working comfort.

- Blade: One-piece hexagon blade, brushed chromium-plated; torque adjustment matt nickel-plated, tempered, impact-resistant
- Würth colour coding system
- Large striking cap
- Output: DIN 5260-PH, ISO 8764-PH with Black Point tip



Material of the grip handle	3-component plastic
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Tip size	Handle length (B)	Blade length (A)	Length	Art. no.	P. Qty.
PH1	96 mm	80 mm	176 mm	0613 201 1	1
PH2	106 mm	100 mm	206 mm	0613 201 2	1
PH3	114 mm	150 mm	264 mm	0613 201 3	1

3-component screwdriver set

5 pieces. With three slotted and two Phillips screwdrivers for the automotive and metalwork trades.

- Flexible 3-component handle ensures perfect ergonomics, power transmission and working comfort



Number of pieces in assortment/set	5 PCS
Included in delivery (Lieferumfang)	1 x 5.5/1.2 x 7.0/1.6 x 9.0/PH1/PH2



Art. no. 0613 901 5

P. Qty.: 1

Contents for art. no. 0613 901 5		
Designation	Art. no.	Quantity
3-component slotted screwdriver 1.0 x 5.5 mm	0613 200 055	1
3-component slotted screwdriver 1.2 x 7.0 mm	0613 200 07	1
3-component slotted screwdriver 1.6 x 9.0 mm	0613 200 09	1
PH 3-component screwdriver 1	0613 201 1	1
PH 3-component screwdriver 2	0613 201 2	1

PZ 3-component screwdriver

Flexible 3-component handle ensures perfect ergonomics, power transmission and working comfort.

- Blade: One-piece hexagon blade, brushed chromium-plated; torque adjustment matt nickel-plated, tempered, impact-resistant
- Würth colour coding system
- Large striking cap
- Output: ISO 8764-PZ with Black Point tip



Tip size	Blade length	Handle length/ handle width	Art. no.	P. Qty.
PZ1	80 mm	96/31 mm	0613 202 1	1
PZ2	100 mm	106/35 mm	0613 202 2	1
PZ3	150 mm	114/38 mm	0613 202 3	1

3-component TX screwdriver

Flexible 3-component handle for perfect ergonomics, power transmission and operating comfort.

- Blade: Round blade, brushed chromium-plated
- Tip: TX socket, with Black Point tip
- Würth colour coding system
- Screw symbol printed on handle end for quick identification



Tip size	Blade length	Handle length/ handle width	Art. no.	P. Qty.
TX6	60 mm	73/20 mm	0613 203 06	1
TX7	60 mm	73/20 mm	0613 203 07	1
TX8	60 mm	83/27 mm	0613 203 08	1
TX9	60 mm	83/27 mm	0613 203 09	1
TX10	80 mm	83/27 mm	0613 203 10	1
TX15	80 mm	96/31 mm	0613 203 15	1
TX20	100 mm	96/31 mm	0613 203 20	1
TX25	100 mm	106/35 mm	0613 203 25	1
TX27	115 mm	106/35 mm	0613 203 27	1
TX30	115 mm	106/35 mm	0613 203 30	1
TX40	130 mm	114/38 mm	0613 203 40	1

3-component screwdriver set, TX

6 pieces, with flexible 3-component handle for perfect ergonomics, power transmission and operating comfort

- Blade: Round blade, brushed chromium-plated
- Tip: TX socket, with Black Point tip
- Würth colour coding system
- Screw symbol printed on handle end for quick identification



Number of pieces in assortment/set	6 PCS
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Art. no. 0613 903 6

P. Qty.: 1

Contents for art. no. 0613 903 6		
Designation	Art. no.	Quantity
3-component TX screwdriver 8	0613 203 08	1
3-component TX screwdriver 10	0613 203 10	1
3-component TX screwdriver 15	0613 203 15	1
3-component TX screwdriver 20	0613 203 20	1
3-component TX screwdriver 25	0613 203 25	1
3-component TX screwdriver 30	0613 203 30	1

Slotted screwdriver

One-piece hexagon blade/wrench adapter made from tempered, impact-resistant material

- Large impact cap
- Tip: DIN 5264-A, ISO 2380, Black Point



Continuation **Slotted screwdriver**

Thickness of cutting edge x width of cutting edge	Design	Blade length (A)	Handle length/handle width	Length	Art. no.	P. Qty.
0.8 x 4.5 mm	With impact cap, With wrench aid	90 mm	96/31 mm	186 mm	0613 321 045	1
1 x 5.5 mm	With wrench aid, With impact cap	100 mm	96/31 mm	196 mm	0613 321 055	1
1.2 x 7 mm	With impact cap, With wrench aid	125 mm	106/35 mm	231 mm	0613 321 07	1
1.6 x 9 mm	With impact cap, With wrench aid	150 mm	114/38 mm	264 mm	0613 321 09	1
1.6 x 10 mm	With impact cap, With wrench aid	175 mm	114/38 mm	289 mm	0613 321 10	1
2 x 12 mm	With wrench aid, With impact cap	200 mm	120/40.5 mm	320 mm	0613 321 12	1
2.5 x 14 mm	With wrench aid, With impact cap	250 mm	120/40.5 mm	270 mm	0613 321 14	1

Slotted screwdriver, laser tip

Hexagon blade

- Laser-tip profile
- Ultra-secure seating of screwdriver in screw head
- Better screw grip for improved torque transfer
- No repeated placement when screwing
- Blade: Brushed chromium-plated
- Output: DIN 5264-A, ISO 2380, laser tip, Black Point



Tip type	Slot
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Thickness of cutting edge x width of cutting edge	Design	Blade length (A)	Handle length/handle width	Length	Art. no.	P. Qty.
0.6 x 3.5 mm	Without impact cap, Without wrench aid	75 mm	83/27 mm	158 mm	0613 424 035	1
0.8 x 4 mm	Without impact cap, Without wrench aid	90 mm	96/31 mm	186 mm	0613 424 04	1
1 x 5.5 mm	With wrench aid	100 mm	96/31 mm	196 mm	0613 424 055	1
1.2 x 6.5 mm	With wrench aid	125 mm	106/35 mm	231 mm	0613 424 065	1
1.6 x 8 mm	With wrench aid	150 mm	114/38 mm	264 mm	0613 424 08	1
1.6 x 10 mm	With wrench aid	175 mm	114/38 mm	289 mm	0613 424 10	1

Slotted screwdriver

Hexagon blade

- Blade: Brushed chromium-plated
- Output: DIN 5264-A, ISO 2380, Black Point



Tip type	Slot
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Thickness of cutting edge x width of cutting edge	Blade length (A)	Handle length/ handle width	Length	Art. no.	P. Qty.
0.6 x 3.5 mm	80 mm	83/27 mm	158 mm	0613 421 035	1
0.8 x 4 mm	90 mm	96/31 mm	186 mm	0613 421 004	1

Slotted screwdriver

Hexagon blade and wrench adapter

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point



Tip type	Slot
Design	With wrench aid



Thickness of cutting edge x width of cutting edge	Blade length (A)	Handle length/ handle width	Length	Art. no.	P. Qty.
1 x 5.5 mm	100 mm	96/31 mm	196 mm	0613 421 055	1
1.2 x 6.5 mm	125 mm	106/35 mm	231 mm	0613 421 065	1
1.6 x 8 mm	150 mm	114/38 mm	264 mm	0613 421 08	1
1.6 x 10 mm	175 mm	114/38 mm	289 mm	0613 421 10	1
2 x 12 mm	200 mm	120/40.5 mm	320 mm	0613 421 12	1

PH screwdriver

Screwdriver with one-piece hexagon blade/wrench adapter made from tempered, impact-resistant material.

- Large impact cap
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point



Material of the grip handle	2-component plastic
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Continuation **PH screwdriver**

Tip size	Handle length (B)	Blade length (A)	Length	Art. no.	P. Qty.
PH1	96 mm	80 mm	176 mm	0613 322 1	1
PH2	106 mm	100 mm	206 mm	0613 322 2	1
PH3	114 mm	150 mm	264 mm	0613 322 3	1
PH4	120 mm	200 mm	320 mm	0613 322 4	1

PH laser tip screwdriver

With hexagon blade and wrench adapter

- Laser-tip profile
- Ultra-secure seating of screwdriver in screw head
- Better screw grip for improved torque transfer
- No repeated placement when screwing
- Blade: Brushed chromium-plated
- Output: DIN 5260-PH, ISO 8764-PH, laser tip, Black Point



Material of the grip handle	2-component plastic
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Tip size	Handle length (B)	Blade length (A)	Length	Art. no.	P. Qty.
PH1	96 mm	80 mm	176 mm	0613 425 1	1
PH2	106 mm	100 mm	206 mm	0613 425 2	1
PH3	114 mm	150 mm	264 mm	0613 425 3	1

PH screwdriver

Hexagon blade, wrench adapter

- Blade: Matt chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point



Material of the grip handle	2-component plastic
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Tip size	Handle length (B)	Blade length (A)	Length	Art. no.	P. Qty.
PH1	96 mm	80 mm	176 mm	0613 422 1	1
PH2	106 mm	100 mm	206 mm	0613 422 2	1
PH3	114 mm	150 mm	264 mm	0613 422 3	1
PH4	120 mm	200 mm	320 mm	0613 422 4	1

Screwdriver set automotive/metal

Contents: 5 pieces

- 1 each of slotted screwdriver with laser tip profile, hexagon blade and torque adjustment 1.0 x 5.5 x 100; 1.2 x 6.5 x 125; 1.6 x 8.0 x 150
- 1 each of PH screwdriver with laser tip profile, hexagon blade and torque adjustment PH 1; PH 2



Number of pieces in assortment/set	5 PCS
Included in delivery (Lieferumfang)	1 x 5.5/1.2 x 6.5/1.6 x 8.0/PH1/PH2

Art. no. 0613 925 5

P. Qty.: 1

Contents for art. no. 0613 925 5		
Designation	Art. no.	Quantity
Slotted screwdriver, laser tip 1 x 5.5 mm	0613 424 055	1
Slotted screwdriver, laser tip 1.2 x 6.5 mm; Blade length 125 mm	0613 424 065	1
Slotted screwdriver, laser tip 1.6 x 8 mm	0613 424 08	1
PH laser tip screwdriver PH1	0613 425 1	1
PH laser tip screwdriver PH2	0613 425 2	1



Screwdriver set

Consists of 5 screwdrivers with one-piece hexagon blade/torque adjustment made from tempered, impact-resistant material and large striking cap

Number of pieces in assortment/set	5 PCS
Included in delivery (Lieferumfang)	1 x 5.5; 1.2 x 7.0; 1.6 x 9.0; PH1; PH2



Art. no. 0613 932 25

P. Qty.: 1

Contents for art. no. 0613 932 25		
Designation	Art. no.	Quantity
Slotted screwdriver 1 x 5.5 mm; Blade length 100 mm	0613 321 055	1
Slotted screwdriver 1.2 x 7 mm; Blade length 125 mm	0613 321 07	1
Slotted screwdriver 1.6 x 9 mm; Blade length 150 mm	0613 321 09	1
PH screwdriver 1; Blade length 80 mm	0613 322 1	1
PH screwdriver 2; Blade length 100 mm	0613 322 2	1

Screwdriver set

Hexagon blade and torque adjustment for automotive and metalwork trades.

Blade: Brushed chromium-plated

Contents: 6 pcs.

- 1 screwdriver with hexagon blade 0.6 x 3.5 x 75
- 1 each of slotted screwdriver with hexagon blade and torque adjustment 1.0 x 5.5 x 100; 1.2 x 6.5 x 125; 1.6 x 8.0 x 150
- 1 each of PH screwdriver with hexagon blade and torque adjustment PH 1; PH 2



Number of pieces in assortment/set	6 PCS
Included in delivery (Lieferumfang)	PH1; PH2; 0.6 x 3.5 x 75; 1 x 5.5 x 100; 1.2 x 6.5 x 125; 1.6 x 8 x 150

Art. no. 0613 942 26

P. Qty.: 1

Contents for art. no. 0613 942 26		
Designation	Art. no.	Quantity
Slotted screwdriver Slot; 0.6 x 3.5 mm; 80 mm	0613 421 035	1
Slotted screwdriver Slot; 1 x 5.5 mm; 100 mm	0613 421 055	1
Slotted screwdriver Slot; 1.2 x 6.5 mm; 125 mm	0613 421 065	1
Slotted screwdriver Slot; 1.6 x 8 mm; 150 mm	0613 421 08	1
PH screwdriver PH1	0613 422 1	1
PH screwdriver PH2	0613 422 2	1

PZ screwdriver

Hexagon blade, wrench adapter

- Blade: Matt chrome-plated
- Tip: ISO 8764-PZ, Black Point



Tip size	Blade length	Handle length/ handle width	Art. no.	P. Qty.
PZ1	80 mm	96/31 mm	0613 423 1	1
PZ2	100 mm	106/35 mm	0613 423 2	1
PZ3	150 mm	114/38 mm	0613 423 3	1
PZ4	200 mm	120/40.5 mm	0613 423 4	1

Screwdriver set

With hexagon blade and wrench adapter for wood-work.

Blade: Brushed chromium-plated

Contents: 5 pieces

- 1 each of slotted screwdriver with hexagon blade and torque adjustment 0.6 x 3.5 x 75; 1.0 x 5.5 x 100; 1.2 x 6.5 x 125
- 1 each of PZ screwdriver with hexagon blade and torque adjustment PZ 1; PZ 2



Number of pieces in assortment/set	5 PCS
Included in delivery (Lieferumfang)	0.6 x 3.5; 1 x 5.5; 1.2 x 6.5; PZ 1; PZ 2

Art. no. 0613 942 35

P. Qty.: 1

Contents for art. no. 0613 942 35		
Designation	Art. no.	Quantity
Slotted screwdriver Slot; 0.6 x 3.5 mm 80 mm	0613 421 035	1
Slotted screwdriver Slot; 1 x 5.5 mm 100 mm	0613 421 055	1
Slotted screwdriver Slot; 1.2 x 6.5 mm 125 mm	0613 421 065	1
PZ screwdriver PZ1	0613 423 1	1
PZ screwdriver PZ2	0613 423 2	1

Socket wrench for hexagon head screws

- Blade: Round blade, matt chrome-plated
- Tip: DIN 475/2
- Standard: DIN 3125



Blade length	125 mm
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Width across flats	Handle length/handle width	Art. no.	P. Qty.
4 mm	96/31 mm	0613 436 04	1
4.5 mm	96/31 mm	0613 436 045	1
5 mm	96/31 mm	0613 436 05	1
5.5 mm	96/31 mm	0613 436 055	1
6 mm	96/31 mm	0613 436 06	1
7 mm	106/35 mm	0613 436 07	1
8 mm	106/35 mm	0613 436 08	1
9 mm	106/35 mm	0613 436 09	1
10 mm	106/35 mm	0613 436 10	1
11 mm	114/38 mm	0613 436 11	1
12 mm	114/38 mm	0613 436 12	1
13 mm	114/38 mm	0613 436 13	1
14 mm	120/40.5 mm	0613 436 14	1
16 mm	120/40.5 mm	0613 436 16	1
17 mm	120/40.5 mm	0613 436 17	1

Hexagon ball head screwdriver

- Blade: Hexagon blade, matt chrome-plated
- Tip: Size similar to DIN 911 Black Point



Tip size	Blade length	Handle length/ handle width	Art. no.	P. Qty.
2 mm	100 mm	83/27 mm	0613 415 02	1
2.5 mm	100 mm	83/27 mm	0613 415 025	1
3 mm	100 mm	83/27 mm	0613 415 03	1
4 mm	100 mm	96/31 mm	0613 415 04	1
5 mm	100 mm	106/35 mm	0613 415 05	1
6 mm	125 mm	106/35 mm	0613 415 06	1
8 mm	150 mm	114/38 mm	0613 415 08	1
10 mm	150 mm	114/38 mm	0613 415 10	1
12 mm	150 mm	114/38 mm	0613 415 12	1

Screwdriver set for hex socket screws, ball head

Blade: Hexagon blade, matt chrome-plated

Tip: Size similar to DIN 911 Black Point

Contents: 6 pieces

1 each of ball head screwdriver, size 2.5; 3; 4; 5; 6; 8 mm



Number of pieces in assortment/set	6 PCS
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Art. no. 0613 915 6

P. Qty.: 1

Contents for art. no. 0613 915 6		
Designation	Art. no.	Quantity
Hexagon ball head screwdriver 2.5 mm	0613 415 025	1
Hexagon ball head screwdriver 3 mm	0613 415 03	1
Hexagon ball head screwdriver 4 mm	0613 415 04	1
Hexagon ball head screwdriver 5 mm	0613 415 05	1
Hexagon ball head screwdriver 6 mm	0613 415 06	1
Hexagon ball head screwdriver 8 mm	0613 415 08	1

Screwdriver set for hexagon head screws

Blade: Round blade, matt chrome-plated

Tip: DIN 475/2

Standard: DIN 3125

Contents: 6 pieces

1 each of socket wrench, size 6, 7, 8, 10, 12, 13



Number of pieces in assortment/set	6 PCS
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Art. no. 0613 936 6

P. Qty.: 1

Contents for art. no. 0613 936 6		
Designation	Art. no.	Quantity
Socket wrench for hexagon head screws 6 mm	0613 436 06	1
Socket wrench for hexagon head screws 7 mm	0613 436 07	1
Socket wrench for hexagon head screws 8 mm	0613 436 08	1
Socket wrench for hexagon head screws 10 mm	0613 436 10	1
Socket wrench for hexagon head screws 12 mm	0613 436 12	1
Socket wrench for hexagon head screws 13 mm	0613 436 13	1

Screwdriver AW drive

Round blade

- Blade: Matt chrome-plated
- Tip: Black Point
- Colour-coded sizes



Tip size	Blade length	Handle length/ handle width	Art. no.	P. Qty.
AW10	80 mm	95/31 mm	0613 437 10	1
AW20	100 mm	106/35 mm	0613 437 20	1
AW25	100 mm	106/35 mm	0613 437 25	1
AW30	100 mm	114/38 mm	0613 437 30	1

Screwdriver set AW® drive

Contents: 5 pieces

- 1 each of screwdriver AW drive with circular blade AW 10; AW 20; AW 25; AW 30
- 1 screwdriver AW drive with hexagon blade, short AW 20

Number of pieces in assortment/set	5 PCS
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Included in delivery (Lieferumfang)	1 each of screwdriver AW drive with circular blade AW 10; AW 20; AW 25; AW 30; 1 x screwdriver AW drive with hexagon blade, short AW 20
Tip size	AW10, AW20, AW25, AW30



Art. no. 0613 937 5

P. Qty.: 1

Contents for art. no. 0613 937 5			
Designation	Art. no.	Quantity	
Screwdriver AW drive AW20	0613 217 20	1	
Screwdriver AW drive AW10	0613 437 10	1	
Screwdriver AW drive AW20	0613 437 20	1	
Screwdriver AW drive AW25	0613 437 25	1	
Screwdriver AW drive AW30	0613 437 30	1	

Slotted screwdriver

Round blade

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: SMS SS 2830, DIN 5265



Thickness of cutting edge x width of cutting edge	Blade length (A)	Handle length/handle width	Art. no.	P. Qty.
0.4 x 2.5 mm	75 mm	73/20 mm	0613 231 725	1
0.6 x 3.5 mm	100 mm	83/27 mm	0613 231 735	1
0.8 x 4 mm	100 mm	83/27 mm	0613 231 74	1
1 x 5.5 mm	150 mm	96/31 mm	0613 231 755	1

Slotted screwdriver

Round blade

- Blade: Matt chrome-plated, long model
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: DIN 5265



Tip type	Slot
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Thickness of cutting edge x width of cutting edge	Blade length (A)	Handle length/handle width	Art. no.	P. Qty.
0.6 x 3.5 mm	200 mm	83/27 mm	0613 261 035	1
0.8 x 4 mm	300 mm	83/27 mm	0613 261 04	1
1 x 5.5 mm	200 mm	96/31 mm	0613 261 055	1
1.2 x 8 mm	300 mm	114/38 mm	0613 261 08	1

Slotted screwdriver

Short model with round blade

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: DIN 5265



Tip type	Slot
Blade length (A)	25 mm
Handle length/handle width	62/31 mm



Thickness of cutting edge x width of cutting edge	Art. no.	P. Qty.
0.6 x 3.5 mm	0613 251 035	1
1 x 5.5 mm	0613 251 05	1
1.2 x 6.5 mm	0613 251 065	1
1.2 x 8 mm	0613 251 08	1

PH screwdriver

Round blade

- Blade: Matt chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point
- Standard: DIN 5262, SMS SS 2831



Material of the grip handle	Plastic multi components
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Tip size	Handle length (B)	Blade length (A)	Length	Art. no.	P. Qty.
PH1	96 mm	80 mm	176 mm	0613 232 01	1
PH2	106 mm	100 mm	206 mm	0613 232 02	1
PH3	114 mm	150 mm	264 mm	0613 232 03	1
PH4	120 mm	200 mm	320 mm	0613 232 04	1

PH screwdriver

Round blade

- Blade: Matt chrome-plated, long model
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point
- Standard: DIN 5262, SMS SS 2831



Material of the grip handle	Plastic multi components
Blade length (A)	300 mm



Tip size	Handle length (B)	Length	Art. no.	P. Qty.
PH1	96 mm	396 mm	0613 262 1	1
PH2	106 mm	406 mm	0613 262 2	1

PH screwdriver

Short model with round blade

- Blade: Matt chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point
- Standard: DIN 5262, SMS SS 2831



Material of the grip handle	Plastic multi components
Handle length (B)	62 mm
Blade length (A)	25 mm
Length	87 mm



Tip size	Art. no.	P. Qty.
PH1	0613 252 1	1
PH2	0613 252 2	1

Screwdriver set, circular blade for precision metal work

6-piece set

Contents:

0.6 x 3.5 x 100 mm, 1.0 x 5.5 x 125 mm, 1.2 x 6.5 x 150 mm,
1.2 x 8.0 x 175, PH1, PH2



Number of pieces in assortment/set	6 PCS
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Art. no. 0613 923 26

P. Qty.: 1



Contents for art. no. 0613 923 26		
Designation	Art. no.	Quantity
Slotted screwdriver 1 x 5.5 mm	0613 231 055	1
Slotted screwdriver 1.2 x 6.5 mm	0613 231 065	1
Slotted screwdriver 1.2 x 8 mm	0613 231 08	1
Slotted screwdriver 0.6 x 3.5 mm	0613 231 735	1
PH screwdriver 1	0613 232 01	1
PH screwdriver 2	0613 232 02	1

Cross recess head screwdriver (PZ)

Short version

- Blade: Circular blade, brushed chromium-plated
- Tip: ISO 8764-PZ, Black Point
- Standard: DIN 5262



Blade length	25 mm
Handle length/handle width	62/31 mm



Continuation **Cross recess head screwdriver (PZ)**

Tip size	Art. no.	P. Qty.
PZ1	0613 253 1	1
PZ2	0613 253 2	1

Cross recess head screwdriver PZ

- Blade: Circular blade, brushed chromium-plated
- Tip: ISO 8764-PZ, Black Point
- Standard: DIN 5262



Tip size	Blade length	Handle length/ handle width	Art. no.	P. Qty.
PZ1	80 mm	96/31 mm	0613 233 1	1
PZ2	100 mm	106/35 mm	0613 233 2	1
PZ3	150 mm	114/38 mm	0613 233 3	1
PZ4	200 mm	120/41 mm	0613 233 4	1

Circular blade screwdriver set for woodwork

Number of pieces in assortment/set	5 PCS
Tip size	PZ1, PZ2, Slot

Art. no. 0613 923 35

P. Qty.: 1



Contents for art. no. 0613 923 35		
Designation	Art. no.	Quantity
Slotted screwdriver 1 x 5.5 mm; Blade length 125 mm	0613 231 055	1
Slotted screwdriver 1.2 x 6.5 mm; Blade length 150 mm	0613 231 065	1
Slotted screwdriver 0.6 x 3.5 mm; Blade length 100 mm	0613 231 735	1
Cross recess head screwdriver PZ 1; Blade length 80 mm	0613 233 1	1
Cross recess head screwdriver PZ 2; Blade length 100 mm	0613 233 2	1

TX screwdriver

- Blade: Round blade, matt chrome-plated
- Tip: TX socket, Black Point





Tip size	Blade length	Handle length/ handle width	Art. no.	P. Qty.
TX6	60 mm	73/20 mm	0613 434 06	1
TX7	60 mm	73/20 mm	0613 434 07	1
TX8	60 mm	83/27 mm	0613 434 08	1
TX9	60 mm	83/27 mm	0613 434 09	1
TX10	80 mm	83/27 mm	0613 434 10	1
TX15	80 mm	96/31 mm	0613 434 15	1
TX20	100 mm	96/31 mm	0613 434 20	1
TX25	100 mm	106/35 mm	0613 434 25	1
TX27	115 mm	106/35 mm	0613 434 27	1
TX30	115 mm	106/35 mm	0613 434 30	1
TX40	130 mm	114/38 mm	0613 434 40	1
TX45	130 mm	114/38 mm	0613 434 45	1

TX screwdriver

Long model

- Blade: Round blade, matt chrome-plated
- Tip: TX socket, Black Point

Blade length	250 mm
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Tip size	Handle length/handle width	Art. no.	P. Qty.
TX10	83/27 mm	0613 464 10	1
TX15	96/31 mm	0613 464 15	1
TX20	96/31 mm	0613 464 20	1
TX25	106/35 mm	0613 464 25	1
TX30	106/35 mm	0613 464 30	1

Screwdriver set TX

8 pcs

Scope of delivery:

1 x screwdriver set TX 8 pcs, Art. no. 06139348

Blade: Round blade, brushed chromium-plated, tip: TX socket, Black Point

Number of pieces in assortment/set	8 PCS
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Art. no. 0613 934 8

P. Qty.: 1



Continuation **Screwdriver set TX**

Contents for art. no. 0613 934 8		
Designation	Art. no.	Quantity
TX screwdriver 10	0613 434 10	1
TX screwdriver 15	0613 434 15	1
TX screwdriver 20	0613 434 20	1
TX screwdriver 25	0613 434 25	1
TX screwdriver 27	0613 434 27	1
TX screwdriver 30	0613 434 30	1
TX screwdriver 40	0613 434 40	1
TX screwdriver 45	0613 434 45	1

Screwdriver set TX

Long model

- Blade: Round blade, matt chrome-plated
- Tip: TX socket, Black Point
- Contents: TX 10, 15, 20, 25, 30



Number of pieces in assortment/set	5 PCS
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Art. no. 0613 964 5

P. Qty.: 1



Contents for art. no. 0613 964 5		
Designation	Art. no.	Quantity
TX screwdriver TX10	0613 464 10	1
TX screwdriver TX15	0613 464 15	1
TX screwdriver TX20	0613 464 20	1
TX screwdriver TX25	0613 464 25	1
TX screwdriver TX30	0613 464 30	1

TX screwdriver with hole

- Blade: Round blade, matt chrome-plated
- Tip: For TX socket screws with locking pin, Black Point



Tip size	Blade length	Handle length/ handle width	Art. no.	P. Qty.
TX10	80 mm	83/27 mm	0613 434 810	1
TX15	80 mm	96/31 mm	0613 434 815	1
TX20	100 mm	96/31 mm	0613 434 820	1
TX25	100 mm	106/35 mm	0613 434 825	1
TX27	115 mm	106/35 mm	0613 434 827	1
TX30	115 mm	106/35 mm	0613 434 830	1
TX40	130 mm	114/38 mm	0613 434 840	1

Screwdriver with telescopic blade 1/4 inch

With quick-change holder for one-handed bit insertion

Tip size	1/4 inch
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Art. no. 0613 390 0

P. Qty.: 1

TX screwdriver assortment with hole

Blade: Round blade, brushed chromium-plated

Tip: For TX socket screws with locking pin, Black Point

Contents: 7 pcs.

- 7 TX screwdrivers with hole
TX 10, 15, 20, 25, 27, 30, 40



Number of pieces in assortment/set	7 PCS
Included in delivery (Lieferumfang)	7 x TX screwdriver with hole TX 10, 15, 20, 25, 27, 30, 40



Art. no. 0613 934 87

P. Qty.: 1

Contents for art. no. 0613 934 87			
Designation	Art. no.	Quantity	
TX screwdriver with hole TX10	0613 434 810	1	
TX screwdriver with hole TX15	0613 434 815	1	
TX screwdriver with hole TX20	0613 434 820	1	
TX screwdriver with hole TX25	0613 434 825	1	
TX screwdriver with hole TX27	0613 434 827	1	
TX screwdriver with hole TX30	0613 434 830	1	
TX screwdriver with hole TX40	0613 434 840	1	

Screwdriver with flexible shaft

For hexagon head screws

- Blade: round, flexible
- Tip: Hex head
- Head: bright nickel-plated, inner bore for projecting threaded shafts
- Standard: Tip DIN 3125
- Application: hard-to-reach places, hose clamps



Width across flats	Blade length	Handle length/ handle width	Art. no.	P. Qty.
5 mm	150 mm	96/31 mm	0613 286 05	1
6 mm	150 mm	96/31 mm	0613 286 06	1
7 mm	150 mm	106/35 mm	0613 286 07	1
8 mm	150 mm	106/35 mm	0613 286 08	1
10 mm	175 mm	106/35 mm	0613 286 10	1
13 mm	175 mm	114/38 mm	0613 286 13	1

1/4 inch screwdriver

Quick-change chuck

- Blade: Hexagon blade with wrench adapter, matt chrome-plated
- Head: Bright nickel-plated
- Tip: DIN 3126-D 6.3

Tip size	1/4 inch
Blade length (A)	110 mm
Handle length/handle width (B/C)	106/35 mm



Art. no. 0613 210 21

P. Qty.: 1

1/4 inch screwdriver

With bit mount

- Blade: Round blade with magnet
- Head: Bright nickel-plated
- Tip: DIN 3126-D 6.3

Tip size	1/4 inch
Blade length (A)	100 mm
Handle length/handle width (B/C)	106/35 mm
Width of knife blade (D)	11 mm



Art. no. 0613 430 31

P. Qty.: 1

1/4 inch screwdriver

With quick-change chuck and flexible shaft

- Blade: Circular blade with flexible shaft
- Head: Bright nickel-plated
- Tip: DIN 3126-D 6.3

Tip size	1/4 inch
Blade length (A)	177 mm
Handle length/handle width (B/C)	106/35 mm



Art. no. 0613 280 21

P. Qty.: 1

Hand deburrer DIN 355 C

For clean deburring and countersinking of holes

Blade diameter (Ø)	10 mm
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Spot-facer diameter	Length (L1)	Art. no.	P. Qty.
12.4 mm	121 mm	0713 421 510	1
20.5 mm	136 mm	0713 421 58	1

Wad punch

For round eyelets

Forged steel



Diameter (Ø)	Art. no.	P. Qty.
4 mm	0880 223 204	1
5 mm	0880 223 205	1
6 mm	0880 223 206	1
8 mm	0880 223 208	1
10 mm	0880 227 3	1
11 mm	0880 223 211	1
12 mm	0880 228 3	1
14 mm	0880 223 214	1
16 mm	0880 230 3	1
18 mm	0880 223 218	1
20 mm	0880 232 201	1
25 mm	0880 233 251	1
36 mm	0880 823 61	1
40 mm	0880 236 401	1

Mini ratchet screwdriver

10-piece bit strip and PH2 bit

- Handle: 2-component handle
- Blade: Short bit holder blade with magnet, bright chromium-plated
- Output: DIN 3126-D 6.3
- For high torque applications in tight spaces
- 3-position adjustment wheel: Easy to change direction whilst working, adjustable with one hand
- 45 teeth, max. torque of 40 Nm



Included in delivery (Lieferumfang)	1 x bit strip for 10 bits, 1 x mini ratchet screwdriver incl. bit holder
Tip size	1/4 inch

Art. no. 0613 630 50

P. Qty.: 1

Pistol ratchet screwdriver assortment

37-piece assortment includes the most common bits and a wide range of adapters and socket wrench inserts

- Ergonomic 2-component pistol grip for optimal working comfort
- LED technology
- Powerful ratchet screwdriver
- Wide range of different adapters, bit holders, and socket wrench inserts



Art. no. 0613 640 37

P. Qty.: 1



Reversible blade

- Special treatment for high tip strength
- Würth colour coding system for fast identification
- Black-point tip for highly precise fit
- 6.35 mm = 1/4" hexagon mount



Length	175 mm
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Tip size	Tip type	Art. no.	P. Qty.
4 mm, 5 mm	For hexagon socket	0613 809 5	1/20
PH1, PH2	PH	0613 809 1	1/20
PZ2, Slot 6 mm	PZ + Slot	0613 809 6	1/20
TX10, TX15	TX	0613 809 2	1/20
TX20, TX25	TX	0613 809 3	1/20
TX30, TX40	TX	0613 809 4	1/20

Magnetic bit holder

Drive	1/4 inch
Drive type	Outer hexagon
Tip size	1/4 inch
Tip type	Hexagon socket
Length (L)	150 mm



Art. no. 0613 712

P. Qty.: 1

Flexible bit holder

Drive	1/4 inch
Drive type	Outer hexagon



Tip size	1/4 inch
Tip type	Hexagon socket
Length (L)	175 mm



Art. no. 0613 713

P. Qty.: 1

Reversible blades assortment

13-piece assortment with variable handle

- Can be used as a standard screwdriver in the straight position or as a T-handle in the 90° position thanks to the adjustable handle
- 2-component handle
- Würth colour coding system for fast identification
- Also suitable as longer bit for cordless drill

Contents:

- Screwdriver with T-handle function
- 1 blade each of PH 1 – 4 mm slotted; PH 2 – PH 3; PZ 1 – 5 mm slotted; PZ 2 blade – 6 mm slotted; PZ 3 – 7 mm slotted
- 1 hex socket blade 3 mm – hex socket 3 mm ball; hex socket 4 mm – hex socket 4 mm ball; hex socket 5 mm – hex socket 5 mm ball; hex socket 6 mm – hex socket 6 mm ball
- 1 blade each of TX 10-TX 15; TX 20-TX 25; TX 30-TX 40
- Metal box (220 x 110 x 35 mm)



Number of pieces in assortment/set	13 PCS
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Art. no. 0613 760

P. Qty.: 1

Contents for art. no. 0613 760		
Designation	Art. no.	Quantity
Handle, screwdriver, others		1
Reversible blade PH1 Slot 4 mm	0613 800 01	1
Reversible blade PH2 PH3	0613 800 02	1
Reversible blade PZ1 Slot 5 mm	0613 800 03	1
Reversible blade PZ2 Slot 6 mm	0613 800 04	1
Reversible blade PZ3 Slot 7 mm	0613 800 05	1
Reversible blade HEX 3 mm HEX ball 3 mm	0613 800 06	1
Reversible blade HEX 4 mm HEX ball 4 mm	0613 800 07	1
Reversible blade HEX ball 5 mm HEX 5 mm	0613 800 08	1
Reversible blade HEX 6 mm HEX ball 6 mm	0613 800 09	1
Reversible blade TX10 TX15	0613 800 10	1
Reversible blade TX20 TX25	0613 800 11	1
Reversible blade TX30 TX40	0613 800 12	1

Reversible blade

For screwdriver with T-handle function

- Hexagonal blade 6.35 mm = 1/4"
- Würth colour coding system for fast identification
- Also suitable as longer bit for cordless screwdriver



Length	160 mm
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Tip size	Tip type	Art. no.	P. Qty.
HEX 3 mm, HEX ball 3 mm	Hexagon socket	0613 800 06	1/12
HEX 4 mm, HEX ball 4 mm	Hexagon socket	0613 800 07	1/12
HEX 6 mm, HEX ball 6 mm		0613 800 09	1/12
HEX ball 5 mm, HEX 5 mm	Hexagon socket	0613 800 08	1/12
PH1, Slot 4 mm		0613 800 01	1/12
PH2, PH3		0613 800 02	1/12
PZ1, Slot 5 mm		0613 800 03	1/12
PZ2, Slot 6 mm		0613 800 04	1/12
PZ3, Slot 7 mm		0613 800 05	1/12
TX10, TX15		0613 800 10	1/12
TX20, TX25		0613 800 11	1/12
TX30, TX40		0613 800 12	1/12

Reversible blade

For screwdrivers

Length	175 mm
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Tip size	Tip type	Art. no.	P. Qty.
4 mm	Hexagon socket	0613 805 1	1
5 mm	Hexagon socket	0613 805 2	1
6 mm	Hexagon socket	0613 805 3	1
AW10, AW20		0613 808 0	1/12
AW20, AW30		0613 808 1	1/12
AW20, PZ2		0613 808 3	1
AW25, PZ3		0613 808 4	1
PH1, PH2		0613 801 3	1
PH1, PZ1		0613 803 1	1
PH1, Slot 4 mm		0613 801 1	1/12
PH2, PZ2		0613 803 2	1/12
PH2, Slot 6 mm		0613 801 2	1/12
PH3, Slot 7 mm	Slot, PH	0613 802 1	1
PZ1, PZ2		0613 802 2	1/12
Slot 4 mm, Slot 6 mm	Slot	0613 800 555	1
Slot 5 mm, Slot 7 mm	Slot	0613 800 67	1
TX10, TX15		0613 804 1	1
TX20, TX25		0613 804 2	1
TX30, TX40		0613 804 3	1

Pistol grip ratchet magazine screwdriver

With LED light, empty

- Powerful ratchet screwdriver
- 2-component pistol grip for optimum ergonomic work
- LED technology
- Blade: Short bit holder blade with magnet, brushed chromium-plated
- Output: DIN 3126-D 6.3
- Sealing cap with bit magazine for a total of 6 bits



Blade length (A1)	25 mm
Handle length (B)	113 mm
Handle width (C)	40 mm
Number of bits	6 PCS

Art. no. 0613 640 0

P. Qty.: 1

Pistol grip ratchet magazine screwdriver, set 1

8 pieces. Consists of a pistol-grip ratchet magazine screwdriver with LED light and 7 bits.

- Powerful ratchet screwdriver with 3-position adjustment wheel
- 2C grip for optimum ergonomic work
- Blade: Short bit holder blade with magnet, brushed chromium-plated
- Output: DIN 3126-D 6.3



Contents: 8 pieces

- 1 pistol grip ratchet magazine screwdriver with LED light (empty)
- 1 bit each of PH 1; PH 2; TX 10; TX 20; hexagon socket 4 mm; hexagon socket 5 mm; slot 0.8 x 5.5 mm

Tip size	1/4 inch
Blade length (A1)	25 mm
Handle length (B)	113 mm
Handle width (C)	40 mm
Number of bits	6 PCS

Art. no. 0613 640 1

P. Qty.: 1

Pistol grip ratchet magazine screwdriver, set 2

8 pieces. Consists of a pistol-grip ratchet magazine screwdriver with LED light and 7 bits.

- Powerful ratchet screwdriver with 3-position adjustment wheel
- 2C grip for optimum ergonomic work
- Blade: Short bit holder blade with magnet, brushed chromium-plated
- Output: DIN 3126-D 6.3

Contents: 8 pieces

- 1 pistol grip ratchet magazine screwdriver with LED light (empty)
- 1 bit each of AW 10; AW 20; PZ 1; PZ 2; TX 10; TX 20; slot 0.8 x 5.5 mm



Tip size	1/4 inch
Blade length (A1)	25 mm
Handle length (B)	113 mm
Handle width (C)	40 mm
Number of bits	6 PCS

Art. no. 0613 640 2

P. Qty.: 1



Ratchet magazine screwdriver, automotive/metalwork

Equipped with 12 bits

- Blade: Circular blade with magnet, bright chrome-plated
- Output: DIN 3126-D 6.3
- Powerful ratchet screwdriver
- Bit magazine for max. 12 bits
- 1/4 inch bit with colour coding

Contents: 13 pieces

- 1 empty ratchet screwdriver
- One bit each of PH 1; PH 2; TX 10; TX 15; TX 20; TX 25; TX 30; hex socket 4 mm; hexagon socket 5 mm; hexagon socket 6 mm; slot 0.6 x 4.5 mm; connecting bit 1/4 inch

Tip size	1/4 inch
Blade length (A1)	80 mm
Handle length (B)	147 mm
Handle width (C)	37.5 mm
Number of bits	12 PCS



Art. no. 0613 610 3

P. Qty.: 1

Ratchet magazine screwdriver, wood/construction

Equipped with 12 bits

- Blade: Circular blade with magnet, bright chrome-plated
- Drive: DIN 3126-D 6.3
- High-performance ratchet screwdriver
- Bit magazine for max. 12 bits
- 1/4 inch bit with colour coding system



Tip size	1/4 inch
Blade length (A1)	80 mm
Handle length (B)	147 mm
Handle width (C)	37.5 mm
Number of bits	12 PCS

Art. no. 0613 610 4

P. Qty.: 1

Ratchet magazine screwdriver

Empty

- Blade: Circular blade with magnet, bright chrome-plated
- Tip: DIN 3126-D 6.3
- Powerful ratchet screwdriver
- Powerful and fast screwing action
- 2-component handle
- Bit magazine for max. 12 bits
- 1/4 inch bit with colour coding system
- Snap lock



Tip size	1/4 inch
Blade length (A1)	80 mm
Handle length (B)	147 mm
Handle width (C)	37.5 mm
Number of bits	0 PCS

Art. no. 0613 610 0

P. Qty.: 1

Magazine screwdriver

Equipped with 12 bits

- 2-component handle
- Blade: Round blade with magnet, bright chrome-plated
- Tip: DIN 3126-D 6.3.
- Very slim magazine screwdriver for optimum power transfer and comfortable handling
- Extendible, rotatable magazine for fast location of desired bit
- 1/4 inch standard bits for simple refilling
- Fast location of bit using Würth colour coding system
- Audible click confirms secure locking of bit magazine



Tip size	1/4 inch
Blade length (A1)	90 mm
Handle length (B)	121 mm
Handle width (C)	37.5 mm
Number of bits	12 PCS

Range of applications	Art. no.	P. Qty.
Car, Cargo	0613 600 3	1
Car, Metal	0613 600 1	1
Wood, Construction	0613 600 2	1

Magazine screwdriver is available with different equipment.

Magazine screwdriver

- Handle: 2-component handle
- Blade: Round blade with magnet, bright chrome-plated
- Tip: DIN 3126-D 6.3.
- Very slim magazine screwdriver for optimum power transfer and comfortable handling
- Extendible, rotatable magazine for fast location of desired bit
- Audible click confirms secure locking of bit magazine
- Magazine provides space for 12 bits



Tip size	1/4 inch
Blade length (A1)	90 mm
Handle length (B)	121 mm
Handle width (C)	37.5 mm

Art. no. 0613 600 0

P. Qty.: 1

Screwdriver magazine is empty.

Screwdriver assortment 1

21 pieces. Complete bit assortment with a telescopic screwdriver in a high-quality fold-up pouch with belt loop.

- Quick-change holder with spring mechanism for one-handed bit insertion
- Telescopic blade also suitable for tool application
- 6 empty compartments for long bits up to 70 mm

Number of pieces in assortment/set	21 PCS
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Art. no. 0613 390 1

P. Qty.: 1



Contents for art. no. 0613 390 1		
Designation	Art. no.	Quantity
Screwdriver with telescopic blade 1/4 inch	0613 390 0	1
Slotted bit 0.8 x 5.5 mm; Length 25 mm	0614 175 653	1
Phillips bit PH2; Length 25 mm	0614 176 461	2
Phillips bit PH3; Length 25 mm	0614 176 648	1
Pozidriv bit PZ2	0614 176 652	2
Pozidriv bit PZ3	0614 176 653	1
TX bit TX10; Length 25 mm	0614 311 0	1
TX bit TX20; Length 25 mm	0614 312 0	2
TX bit TX25; Length 25 mm	0614 312 5	2
TX bit TX30; Length 25 mm	0614 313 0	2
AW® bit 10	0614 511 0	1
AW® bit 20	0614 512 0	2
AW® bit 25	0614 512 5	1
AW® bit 30	0614 513 0	2

Screwdriver set automotive/metal

Hexagon blade and torque adjustment in sheet steel rack

- Bored slots for wall mounting
- One-piece hexagon blade with torque adjustment

Contents: 8 pcs.

- 1 each of slotted screwdriver with hexagon blade, torque adjustment and striking cap 1.0 x 5.5 x 100; 1.2 x 7.0 x 125; 1.6 x 9.0 x 150
- 1 slotted screwdriver with circular blade, short 1.0 x 5.5 x 25
- 1 each of PH screwdriver with hexagon blade, torque adjustment and striking cap PH 1; PH 2; PH 3
- 1 PH screwdriver with circular blade, short PH 2

Number of pieces in assortment/set	8 PCS
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Art. no. 0613 940 81

P. Qty.: 1

Contents for art. no. 0613 940 81		
Designation	Art. no.	Quantity
Slotted screwdriver 1 x 5.5 mm	0613 251 05	1
PH screwdriver 2	0613 252 2	1
Slotted screwdriver 1 x 5.5 mm; Blade length 100 mm	0613 321 055	1
Slotted screwdriver 1.2 x 7 mm; Blade length 125 mm	0613 321 07	1
Slotted screwdriver 1.6 x 9 mm; Blade length 150 mm	0613 321 09	1
PH screwdriver 1; Blade length 80 mm	0613 322 1	1
PH screwdriver 2; Blade length 100 mm	0613 322 2	1
PH screwdriver 3; Blade length 150 mm	0613 322 3	1
Screwdriver holder	0714 938 218	1



⚡ 1000 V



VDE screwdriver Flat slotted

For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC)

- Blade: Burnished, insulated
- Tip: Based on DIN ISO 2380-1-B
- Individually tested in water bath with 10 kV test voltage
- Marked with year of manufacture
- Stricter cold impact test

Standard: EN 60900:2012

Tip size	Slot
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Thickness of cutting edge x width of cutting edge	Blade length (A)	Handle length/handle width (B/C)	Art. no.	P. Qty.
0.4 x 2.5 mm	80 mm	83/27 mm	0613 631 025	1
0.5 x 3 mm	100 mm	83/27 mm	0613 631 03	1
0.6 x 3.5 mm	100 mm	83/27 mm	0613 631 035	1
0.8 x 4 mm	100 mm	83/27 mm	0613 631 04	1
1 x 5.5 mm	125 mm	96/31 mm	0613 631 055	1
1.2 x 6.5 mm	150 mm	106/35 mm	0613 631 065	1
1.2 x 8 mm	175 mm	114/38 mm	0613 631 08	1
1.6 x 8 mm	200 mm	114/38 mm	0613 631 082	1
1.6 x 10 mm	200 mm	114/38 mm	0613 631 10	1

VDE screwdriver PZ recessed head

For working on live parts up to 1000 V (AC) and up to 1500 V (DC)

- Blade: burnished, insulated
- Tip type: ISO 8764-PZ
- Standard: DIN 7438, IEC 60900:2012



Tip size	Blade length (A)	Handle length/ handle width (B/C)	Art. no.	P. Qty.
PZ0	80 mm	83/27 mm	0613 633 0	1
PZ1	80 mm	96/31 mm	0613 633 1	1
PZ2	100 mm	106/35 mm	0613 633 2	1
PZ3	150 mm	114/38 mm	0613 633 3	1



VDE screwdriver PH recessed head

For working on live parts up to 1000 V (AC) and up to 1500 V (DC)

- Blade: burnished, insulated
- Tip: In accordance with DIN ISO 8764-1-PH
- Individually tested in water bath with 10 kV test voltage
- Marked with year of manufacture
- Stricter cold impact test



Tip size	Blade length (A)	Handle length/ handle width (B/C)	Art. no.	P. Qty.
PH0	80 mm	83/27 mm	0613 632 0	1
PH1	80 mm	96/31 mm	0613 632 1	1
PH2	100 mm	106/35 mm	0613 632 2	1
PH3	150 mm	114/38 mm	0613 632 3	1
PH4	200 mm	114/38 mm	0613 632 4	1

Standard: EN 60900:2012



VDE screwdriver TX set

6 pieces

- Blade: Burnished, insulated
- Tip: TX socket, Black Point
- Screw symbol and handle size on end of handle for quick identification
- Standard: IEC 60900:2012



Number of pieces in assortment/set	6 PCS
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Art. no. 0613 962 35

P. Qty.: 1



Contents for art. no. 0613 962 35

Designation	Art. no.	Quantity
VDE screwdriver, TX 8	0613 623 08	1
VDE screwdriver, TX 9	0613 623 09	1
VDE screwdriver, TX 10	0613 623 10	1
VDE screwdriver, TX 15	0613 623 15	1
VDE screwdriver, TX 20	0613 623 20	1
VDE screwdriver, TX 25	0613 623 25	1



VDE screwdriver for hexagon head

For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC)

- Blade: burnished, insulated
- Tip: DIN 475/2
- Standard: DIN 7445, IEC 60900:2012



Blade length	125 mm
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Width across flats	Handle length/ handle width	Length	Art. no.	P. Qty.
5.5 mm	96/31 mm	221 mm	0613 636 055	1
6 mm	96/31 mm	221 mm	0613 636 06	1
7 mm	106/35 mm	231 mm	0613 636 07	1
8 mm	106/35 mm	231 mm	0613 636 08	1
9 mm	106/35 mm	231 mm	0613 636 09	1
10 mm	106/35 mm	231 mm	0613 636 10	1
12 mm	114/38 mm	239 mm	0613 636 12	1
13 mm	114/38 mm	239 mm	0613 636 13	1



VDE screwdriver set for hexagon head

6 pcs: 1 x SW 5.5; 1 x SW6; 1 x SW7; 1 x SW8; 1 x SW10; 1 x SW13

Blade: burnished, insulated

Tip: DIN 475/2

Standard: DIN 7445, IEC 60900:2012



Number of pieces in assortment/set	6 PCS
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Art. no. 0613 936 66

P. Qty.: 1



Contents for art. no. 0613 936 66		
Designation	Art. no.	Quantity
VDE screwdriver for hexagon head 5.5 mm	0613 636 055	1
VDE screwdriver for hexagon head 6 mm	0613 636 06	1
VDE screwdriver for hexagon head 7 mm	0613 636 07	1
VDE screwdriver for hexagon head 8 mm	0613 636 08	1
VDE screwdriver for hexagon head 10 mm	0613 636 10	1
VDE screwdriver for hexagon head 13 mm	0613 636 13	1



VDE screwdriver, flat slotted, ultra slim

Effortless access to deep-seated screw and spring elements.

- Insulation with reduction of blade diameter in critical working area
- Prevents fraying of insulation
- Screw symbol on end of handle
- Tip: DIN ISO 2380-I-A
- Blade: Burnished



Tip size	Slot
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Thickness of cutting edge x width of cutting edge	Blade length (A)	Handle length/handle width (B/C)	Art. no.	P. Qty.
0.4 x 2.5 mm	80 mm	83/27 mm	0613 631 25	1
0.6 x 3.5 mm	100 mm	83/27 mm	0613 631 35	1
0.8 x 4 mm	100 mm	83/27 mm	0613 631 40	1
1 x 5.5 mm	125 mm	96/31 mm	0613 631 55	1

Individually tested in accordance with IEC 60900:2004



VDE screwdriver, PH recessed head, extra slim

Effortless access to deep-seated screw and spring elements.

- Insulation with reduction of blade diameter in critical working area
- Prevents fraying of insulation
- Screw symbol on end of handle
- Tip: DIN ISO 8764-I-PH
- Blade: Burnished



Tip size	Blade length (A)	Handle length/ handle width (B/C)	Art. no.	P. Qty.
PH1	80 mm	96/31 mm	0613 632 10	1
PH2	100 mm	106/35 mm	0613 632 20	1

Individually tested in accordance with IEC 60900:2004



VDE screwdriver set slotted/PH

5 pieces. Extra slim design.

Blade burnished, reduced blade insulation diameter in critical working area

- Effortless access to low-lying screw and spring elements
- Prevents insulation from fraying

Screw symbol on end of handle

Number of pieces in assortment/set	5 PCS
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Art. no. 0613 963 250

P. Qty.: 1

Contents for art. no. 0613 963 250		
Designation	Art. no.	Quantity
VDE screwdriver, flat slotted, ultra slim 0.4 x 2.5 mm	0613 631 25	1
VDE screwdriver, flat slotted, ultra slim 0.8 x 4 mm	0613 631 40	1
VDE screwdriver, flat slotted, ultra slim 1 x 5.5 mm	0613 631 55	1
VDE screwdriver, PH recessed head, extra slim PH1	0613 632 10	1
VDE screwdriver, PH recessed head, extra slim PH2	0613 632 20	1

Individually tested in accordance with IEC 60900:2004



VDE screwdriver set plus/minus (PZ)

2-piece set with VDE screwdrivers Plus/Minus PZ 1 and PZ 2

- Combination profile reduces slippage and guarantees higher torque transmission
- Blade: Burnished, insulated
- Output: Combined PZ/slotted profile
- Standard: IEC 60900:2012



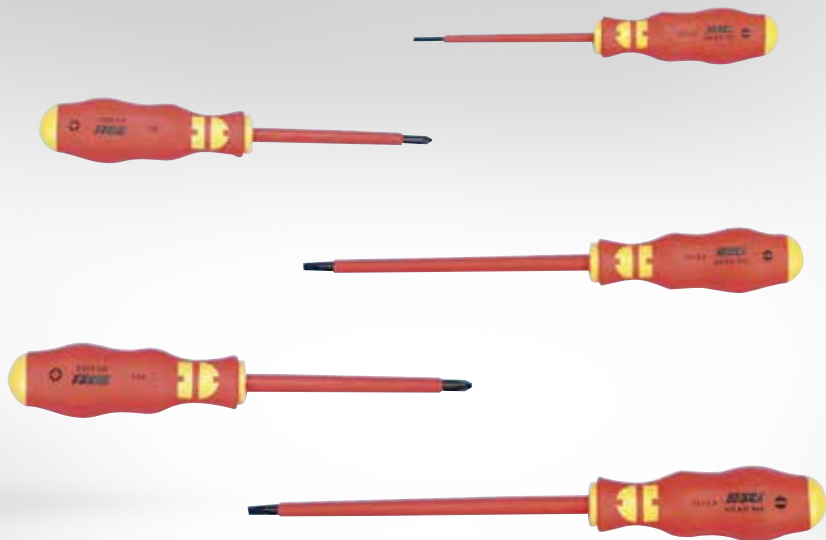
Number of pieces in assortment/set	2 PCS
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Art. no. 0613 939 2

P. Qty.: 1

Contents for art. no. 0613 939 2		
Designation	Art. no.	Quantity
VDE screwdriver plus/minus (PZ) PZ1 + slot	0613 639 1	1
VDE screwdriver plus/minus (PZ) PZ2 + slot	0613 639 2	1





VDE screwdriver set, slotted/PH recessed head

5 pieces

- Blade: bronzed, insulated
- Standard: Individually tested in accordance with IEC 60900:2004

VDE tested, 1000 V, GS tested

Number of pieces in assortment/set	5 PCS
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Art. no. 0613 963 25

P. Qty.: 1

Contents for art. no. 0613 963 25		
Designation	Art. no.	Quantity
VDE screwdriver Flat slotted Slot; 0.4 x 2.5 mm	0613 631 025	1
VDE screwdriver Flat slotted Slot; 0.8 x 4.0 mm	0613 631 04	1
VDE screwdriver Flat slotted Slot; 1.2 x 6.5 mm	0613 631 065	1
VDE screwdriver PH recessed head 1	0613 632 1	1
VDE screwdriver PH recessed head 2	0613 632 2	1

VDE screwdriver set slotted/PZ recessed head

5 pcs: 1 x slotted 0.4 x 2.5; 1 x slotted 0.8 x 4.0; 1 x slotted 1.2 x 6.5; 1 x PZ1; 1 x PZ2

Blade: Burnished, insulated

Standard: Individually tested in line with IEC 60900:2004

Contents: 5 pcs

- Slot 0.4 x 2.5 x 80
- Slot 0.8 x 4.0 x 100
- Slot 1.2 x 6.5 x 150
- PZ 1 recessed head
- PZ 2 recessed head



Number of pieces in assortment/set	5 PCS
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Art. no. 0613 963 35

P. Qty.: 1

Contents for art. no. 0613 963 35		
Designation	Art. no.	Quantity
VDE screwdriver Flat slotted Slot; 0.4 x 2.5 mm	0613 631 025	1
VDE screwdriver Flat slotted Slot; 0.8 x 4.0 mm	0613 631 04	1
VDE screwdriver Flat slotted Slot; 1.2 x 6.5 mm	0613 631 065	1
VDE screwdriver PZ recessed head 1	0613 633 1	1
VDE screwdriver PZ recessed head 2	0613 633 2	1

VDE tested, GS tested

VDE screwdriver set

14-piece set comprising a handle, a precision engineering rotating cap and 12 interchangeable blades

Can be used as an electronics and precision engineering screwdriver



Number of pieces in assortment/set	14 PCS
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Art. no. 0613 900 14


P. Qty.: 1

Contents for art. no. 0613 900 14		
Designation	Art. no.	Quantity
Handle VDE	0613 900 1	1
Replacement blade VDE Slot; 0.4 x 2.5 mm; Length 150 mm	0613 900 025	1
Replacement blade VDE Slot; 0.5 x 3.0 mm; Length 175 mm	0613 900 030	1
Replacement blade VDE Slot; 0.6 x 3.5 mm; Length 175 mm	0613 900 035	1
Replacement blade VDE Slot; 0.8 x 4.0 mm; Length 175 mm	0613 900 040	1
Replacement blade VDE Slot; 1.0 x 5.5 mm; Length 175 mm	0613 900 055	1
Replacement blade VDE Slot; 1.2 x 6.5 mm; Length 175 mm	0613 900 065	1
Replacement blade VDE PH1; Length 155 mm	0613 900 01	1

Continuation **VDE screwdriver set**

Designation	Art. no.	Quantity
Replacement blade VDE PH2; Length 175 mm	0613 900 02	1
Replacement blade VDE PZ2; Length 175 mm	0613 900 002	1
Replacement blade VDE TX10; Length 175 mm	0613 900 010	1
Replacement blade VDE TX15; Length 175 mm	0613 900 015	1
Replacement blade VDE TX20; Length 175 mm	0613 900 020	1

Individually tested in line with IEC 60900

 1000 V



Single-pole voltage tester

With slotted screwdriver blade

- Full safety insulation
- Metal clip



Thickness of cutting edge x width of cutting edge	0.5 x 3 mm
Min./max. voltage range AC	150-250 V/AC

Blade length	Length	Art. no.	P. Qty.
65 mm	140 mm	0715 53 05	1
68 mm	163 mm	0613 247 360	1

According to DIN 57680, Part 6 and VDE 0680/6

Wooden-handled flat slotted screwdriver

One-piece round blade with wrench adapter

- Blade: Bright chrome-plated, tempered, impact-resistant
- Tip: DIN 5264, ISO 2380, Black Point
- Handle: Zebra screwdriver handle, beech wood, with double leather cap



Tip type	Slot
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Thickness of cutting edge x width of cutting edge	Blade length (A)	Handle length/ handle width	Length	Art. no.	P. Qty.
0.6 x 3.5 mm	75 mm	102/31 mm	177 mm	0613 041 035	1
0.8 x 4.5 mm	90 mm	102/31 mm	192 mm	0613 041 045	1
1 x 5.5 mm	100 mm	112/35 mm	212 mm	0613 041 055	1
1.2 x 7 mm	125 mm	112/35 mm	237 mm	0613 041 07	1
1.6 x 9 mm	150 mm	120/38 mm	270 mm	0613 041 09	1
1.6 x 10 mm	175 mm	120/38 mm	295 mm	0613 041 10	1
2 x 12 mm	200 mm	128/40.5 mm	320 mm	0613 041 12	1

Angled gear

Powerful angled gear for screwing and drilling work

- High-quality angled gear made from specially hardened steel
- Secure hold thanks to adjustable soft grip
- Compact design
- Magnetic 1/4" bit holder with quick-change chuck



Blade holder	1/4 inch, E 6.3 hexagon
Drive type	Outer hexagon
Bit holder	1/4 inch hexagon
Tip type	For outer hexagon
Max. torque	57 Nm
Length	165 mm



Art. no. 0614 900 0

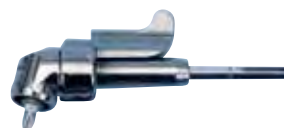
P. Qty.: 1

Angled gear Wibos Junior Metal

Magnetic angled gear for screwing tasks up to max. 11 Nm

- Ideal for use in inaccessible areas

Blade holder	6 mm hexagon
Drive type	Outer hexagon
Bit holder	1/4 inch hexagon
Tip type	For outer hexagon
Max. torque	11 Nm
Length	130 mm



Art. no. 0713 92 07

P. Qty.: 1

Unsuitable for use on machines.

Magnetic lifter with plastic handle

Flexible shaft for versatile applications



Max. loading weight	Head diameter	Length	Art. no.	P. Qty.
600 g	8 mm	460 mm	0715 35 35	1
1000 g	12 mm	460 mm	0715 35 45	1
3000 g	15 mm	520 mm	0715 35 50	1
7500 g	19 mm	520 mm	0715 35 60	1

Telescopic magnet

Magnetic retention force 500 g

- With wash nozzle adjustment needle, magnetic head, cover cap and pocket clip
- Extension length 155-670 mm



Min./max. length	155-670 mm
Max. loading weight	500 g

Art. no. 0715 34 96

P. Qty.: 1

Precision screwdriver, flat slotted

Ideal for all fine and delicate screw work in electrical and precision engineering

- Rotatable centring head with large finger recess
- Centring cap marked with screw symbol and size
- Multi-component handle with large, soft-grip components
- Quick-action rotating zone
- Chrome-plated blades made from highly tempered special steel
- Black Point tip
- Blade: Circular blade, brushed chromium-plated
- Output: DIN 5264-A, ISO 2380, Black Point



Tip size	Slot
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Thickness of cutting edge x width of cutting edge	Blade length	Art. no.	P. Qty.
0.16 x 0.8 mm	40 mm	0613 480 008	1/10
0.18 x 1 mm	40 mm	0613 480 010	1/10
0.25 x 1.2 mm	40 mm	0613 480 012	1/10
0.3 x 1.5 mm	40 mm	0613 480 015	1/10
0.3 x 1.8 mm	60 mm	0613 480 018	1/10
0.4 x 2 mm	60 mm	0613 480 020	1/10
0.4 x 2.5 mm	75 mm	0613 480 025	1/10
0.5 x 3 mm	75 mm	0613 480 030	1/10
0.6 x 3.5 mm	100 mm	0613 480 035	1/10

Precision screwdriver set, slotted and PH

7 pieces, ideal for all fine and delicate screws in electrical engineering and precision engineering

- Rotatable centring head with large finger recess
- Centring cap marked with screw symbol and size
- Multi-component handle with large, soft-grip components
- Quick-action rotating zone
- Chromium-plated blades of highly tempered special steel
- Black Point tip
- Blade: Circular blade, brushed chromium-plated

Contents: 7 pieces

- Slot 0.30 x 1.5 x 40
- Slot 0.4 x 2.0 x 60
- Slot 0.4 x 2.5 x 75
- Slot 0.5 x 3.0 x 75
- PH 00
- PH 0
- PH 1



Number of pieces in assortment/set	7 PCS
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Art. no. 0613 489 2

P. Qty.: 1

Contents for art. no. 0613 489 2		
Designation	Art. no.	Quantity
Precision screwdriver, flat slotted 0.3 x 1.5 mm	0613 480 015	1
Precision screwdriver, flat slotted 0.4 x 2.0 mm	0613 480 020	1
Precision screwdriver, flat slotted 0.4 x 2.5 mm	0613 480 025	1
Precision screwdriver, flat slotted 0.5 x 3.0 mm	0613 480 030	1
Precision screwdriver, Philips PH 0	0613 481 0	1
Precision screwdriver, Philips PH 00	0613 481 00	1
Precision screwdriver, Philips PH 1	0613 481 1	1

Precision screwdriver set TX

7 pieces, ideal for all fine and delicate screws in electrical engineering and precision engineering

- Rotatable centring head with large finger recess
- Centring cap marked with screw symbol and size
- Multi-component handle with large, soft-grip components
- Quick-action rotating zone
- Chromium-plated blades of highly tempered special steel
- Black Point tip
- Blade: Circular blade, brushed chromium-plated

Contents: 7 pieces

TX 5, TX 6, TX 7, TX 8, TX 9, TX 10, TX 15



Number of pieces in assortment/set	7 PCS
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Continuation **Precision screwdriver set TX**

Art. no. 0613 489 1

P. Qty.: 1

Contents for art. no. 0613 489 1		
Designation	Art. no.	Quantity
Precision screwdriver, TX 5	0613 482 05	1
Precision screwdriver, TX 6	0613 482 06	1
Precision screwdriver, TX 7	0613 482 07	1
Precision screwdriver, TX 8	0613 482 08	1
Precision screwdriver, TX 9	0613 482 09	1
Precision screwdriver, TX 10	0613 482 10	1
Precision screwdriver, TX 15	0613 482 15	1

VDE precision screwdriver assortment, slotted/PH

7 pieces. Consisting of five slot and two Phillips screwdrivers.

- Routine test in water bath with test voltage 10 kV, identification marking with the year of manufacture
- Cold impact test at -40°C (marking C)
- Blade: Circular blade Insulated, bronzed, slotted drive: DIN 5264-A, ISO 2380 and cross-head drive: ISO 8764-PH



Number of pieces in assortment/set	7 PCS
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Art. no. 0613 489 4

P. Qty.: 1

Contents for art. no. 0613 489 4		
Designation	Art. no.	Quantity
VDE precision screwdriver, flat slotted 0.3 x 1.5 mm	0613 486 015	1
VDE precision screwdriver, flat slotted 0.3 x 1.8 mm	0613 486 018	1
VDE precision screwdriver, flat slotted 0.4 x 2 mm	0613 486 020	1
VDE precision screwdriver, flat slotted 0.4 x 2.5 mm	0613 486 025	1
VDE precision screwdriver, flat slotted 0.5 x 3 mm	0613 486 030	1
VDE precision screwdriver, PH recessed head 0	0613 487 0	1
VDE precision screwdriver, PH recessed head 00	0613 487 00	1

EN 60900, IEC 60900

Small screwdriver with pocket clip

Flat slotted

Handle:

1-component grip with roll-off protection, metal pocket clip and magnet

Blade:

Circular blade, chromium-vanadium steel, fully hardened, bright nickel-plated

Output:

DIN 5264-A



Thickness of cutting edge x width of cutting edge	0.4 x 2.5 mm
Blade length (A)	72 mm
Handle length/handle width	73/14 mm
Length	145 mm

Art. no. 0715 34 010

P. Qty.: 10

Slotted screwdriver

Round blade

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: DIN 5265



Thickness of cutting edge x width of cutting edge	Blade length (A)	Handle length/handle width	Art. no.	P. Qty.
0.5 x 3 mm	80 mm	73/20 mm	0613 231 03	1
0.8 x 4 mm	100 mm	84/27 mm	0613 231 04	1
1 x 5.5 mm	125 mm	96/31 mm	0613 231 055	1
1.2 x 6.5 mm	150 mm	106/35 mm	0613 231 065	1
1.2 x 8 mm	175 mm	114/38 mm	0613 231 08	1
1.6 x 10 mm	200 mm	114/38 mm	0613 231 10	1
1.6 x 12 mm	200 mm	120/41 mm	0613 231 12	1

T-handle socket wrench

For hexagon head screws

- Blade: Round blade, chrome-plated
- Tip: DIN 475/2
- Inner bore for protruding threaded shafts
- Standard: DIN 3125



Surface	Nickel plated
Material	Steel



Width across flats	Handle width x handle length	Blade length (L1)	Handle width (C)	Handle length (B)	Art. no.	P. Qty.
6 mm	35 x 104 mm	125 mm	35 mm	104 mm	0613 120 06	1/10
6 mm	35 x 104 mm	200 mm	35 mm	104 mm	0613 121 06	1/10
7 mm	35 x 104 mm	125 mm	35 mm	104 mm	0613 120 07	1/10
7 mm	35 x 104 mm	200 mm	35 mm	104 mm	0613 121 07	1/10
8 mm	35 x 104 mm	125 mm	35 mm	104 mm	0613 120 08	1/10
8 mm	35 x 104 mm	200 mm	35 mm	104 mm	0613 121 08	1/10
8 mm	35 x 104 mm	300 mm	35 mm	104 mm	0613 122 08	1/10
9 mm	35 x 104 mm	125 mm	35 mm	104 mm	0613 120 09	1/10
9 mm	35 x 104 mm	200 mm	35 mm	104 mm	0613 121 09	1/10
10 mm	35 x 104 mm	125 mm	35 mm	104 mm	0613 120 10	1/10
10 mm	35 x 104 mm	230 mm	35 mm	104 mm	0613 121 10	1/10
10 mm	35 x 104 mm	300 mm	35 mm	104 mm	0613 122 10	1/10
11 mm	35 x 104 mm	125 mm	35 mm	104 mm	0613 120 11	1/10
11 mm	35 x 104 mm	230 mm	35 mm	104 mm	0613 121 11	1/10
11 mm	35 x 104 mm	300 mm	35 mm	104 mm	0613 122 11	1/10
12 mm	35 x 104 mm	125 mm	35 mm	104 mm	0613 120 12	1/10
12 mm	35 x 104 mm	230 mm	35 mm	104 mm	0613 121 12	1/10
12 mm	35 x 104 mm	300 mm	35 mm	104 mm	0613 122 12	1/10
13 mm	35 x 104 mm	125 mm	35 mm	104 mm	0613 120 13	1/10
13 mm	35 x 104 mm	230 mm	35 mm	104 mm	0613 121 13	1/10
13 mm	35 x 104 mm	300 mm	35 mm	104 mm	0613 122 13	1/10
14 mm	35 x 104 mm	125 mm	35 mm	104 mm	0613 120 14	1/10
14 mm	35 x 104 mm	300 mm	35 mm	104 mm	0613 122 14	1/10
15 mm	35 x 104 mm	125 mm	35 mm	104 mm	0613 120 15	1/10
16 mm	35 x 104 mm	125 mm	35 mm	104 mm	0613 120 16	1/10
17 mm	39 x 117 mm	125 mm	39 mm	117 mm	0613 120 17	1/10

T-handle hexagon socket assortment

6 pieces

Scope of delivery

- 1 each of T-handle wrench with ball head hexagon socket, size 5 mm, 6 mm, 8 mm
- 1 each of T-handle wrench with hexagon socket, size 2.5 mm, 3 mm, 4 mm



Number of pieces in assortment/set	6 PCS
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Art. no. 0613 913 06

P. Qty.: 1



Contents for art. no. 0613 913 06		
Designation	Art. no.	Quantity
T-handle hexagon socket with ball head 5 mm	0613 130 05	1
T-handle hexagon socket with ball head 6 mm	0613 130 06	1
T-handle hexagon socket with ball head 8 mm	0613 130 08	1
T-handle wrench, hexagon socket 2.5 mm	0613 132 025	1
T-handle wrench, hexagon socket 3 mm	0613 132 03	1
T-handle wrench, hexagon socket 4 mm	0613 132 04	1

T-handle socket wrench set

5 pcs.

Blade: Round blade, chrome-plated

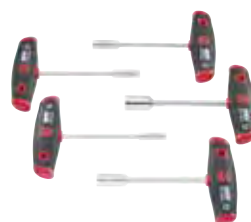
Tip: DIN 475/2

Inner bore for protruding threaded shafts

Standard: DIN 3125

Contents: 5 pieces

1 each of T-handle socket wrench (length 125 mm) size 6; 7; 8; 10; 13



Number of pieces in assortment/set	5 PCS
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Art. no. 0613 912 05

P. Qty.: 1

Contents for art. no. 0613 912 05		
Designation	Art. no.	Quantity
T-handle socket wrench 6 mm	0613 120 06	1
T-handle socket wrench 7 mm	0613 120 07	1
T-handle socket wrench 8 mm	0613 120 08	1
T-handle socket wrench 10 mm	0613 120 10	1
T-handle socket wrench 13 mm	0613 120 13	1

T-handle hexagon socket with ball head

Side tip

- Blade: Hexagon blade with side tip, matt chrome-plated
- Tip: Size similar to DIN 911
- Ball head for screwing at angles of up to 25°
- Black Point



Tip size	Blade length	Handle width x length x length of side tip	Art. no.	P. Qty.
5 mm	150 mm	35 x 105 x 17 mm	0613 130 05	1/10
5 mm	200 mm	35 x 105 x 17 mm	0613 131 05	1/10
6 mm	150 mm	35 x 105 x 17 mm	0613 130 06	1/10
6 mm	200 mm	35 x 105 x 17 mm	0613 131 06	1/10
8 mm	150 mm	35 x 105 x 17 mm	0613 130 08	1/10
8 mm	200 mm	35 x 105 x 17 mm	0613 131 08	1/10
10 mm	200 mm	39 x 117 x 22 mm	0613 131 10	1/10
12 mm	200 mm	39 x 117 x 22 mm	0613 131 12	1/10

T-handle wrench, hexagon socket

Side tip

- Blade: Hexagon blade with side tip, matt chrome-plated
- Tip: Size similar to DIN 911



Tip size	Blade length	Handle width x length x length of side tip	Art. no.	P. Qty.
2.5 mm	150 mm	27 x 82 x 13 mm	0613 132 025	1/10
2.5 mm	200 mm	27 x 82 x 13 mm	0613 133 025	1/10
3 mm	150 mm	27 x 82 x 13 mm	0613 132 03	1/10
3 mm	200 mm	27 x 82 x 13 mm	0613 133 03	1/10
4 mm	150 mm	27 x 82 x 13 mm	0613 132 04	1/10
4 mm	200 mm	27 x 82 x 13 mm	0613 133 04	1/10
5 mm	150 mm	35 x 105 x 17 mm	0613 132 05	1/10
5 mm	200 mm	35 x 105 x 17 mm	0613 133 05	1/10
6 mm	150 mm	35 x 105 x 17 mm	0613 132 06	1/10
6 mm	200 mm	35 x 105 x 17 mm	0613 133 06	1/10
8 mm	150 mm	35 x 105 x 17 mm	0613 132 08	1/10
8 mm	200 mm	35 x 105 x 17 mm	0613 133 08	1/10
10 mm	200 mm	39 x 117 x 22 mm	0613 133 10	1/10

T-handle, TX with side tip

TX socket

- Integrated side output
- Brushed chromium-plated hexagon blade for optimal corrosion protection and long service life
- Multi-component handle comprising solid core and soft casing
- Black Point tip
- One-piece blade
- Output: For TX socket

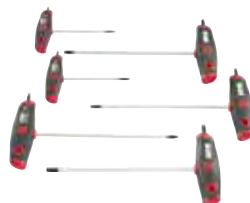


Tip size	Blade length	Handle width x length x length of side tip	Art. no.	P. Qty.
TX9	100 mm	27 x 82 x 13 mm	0613 140 09	1/10
TX10	100 mm	27 x 82 x 13 mm	0613 140 10	1/10
TX15	100 mm	27 x 82 x 13 mm	0613 140 15	1/10
TX20	200 mm	35 x 105 x 17 mm	0613 140 20	1/10
TX25	200 mm	35 x 105 x 17 mm	0613 140 25	1/10
TX27	200 mm	35 x 105 x 17 mm	0613 140 27	1/10
TX30	200 mm	35 x 105 x 17 mm	0613 140 30	1/10
TX40	200 mm	35 x 105 x 17 mm	0613 140 40	1/10
TX45	200 mm	39 x 117 x 22 mm	0613 140 45	1/10

T-handle screwdriver set TX

For TX socket, with side output, 6 pieces

- Integrated side output
- Brushed chromium-plated hexagon blade for optimal corrosion protection and long service life
- Multi-component handle comprising solid core and soft casing



Contents: 6 parts

6 T-handle screwdrivers for TX socket, TX 10, 15, 20, 25, 30, 40

Number of pieces in assortment/set	6 PCS
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Art. no. 0613 914 06

P. Qty.: 1

Contents for art. no. 0613 914 06		
Designation	Art. no.	Quantity
T-handle, TX with side tip TX10	0613 140 10	1
T-handle, TX with side tip TX15	0613 140 15	1
T-handle, TX with side tip TX20	0613 140 20	1
T-handle, TX with side tip TX25	0613 140 25	1
T-handle, TX with side tip TX30	0613 140 30	1
T-handle, TX with side tip TX40	0613 140 40	1

T-handle hexagon socket ball head set

6 pieces in a sheet steel rack

- Integrated side tip
- Brushed chrome-plated hexagon blade for optimal corrosion protection and long service life
- Multi-component handle comprising solid core and soft casing
- One-piece blade
- Can be used as a workbench stand



Number of pieces in assortment/set	6 PCS
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Art. no. 0613 913 6

P. Qty.: 1



Contents for art. no. 0613 913 6		
Designation	Art. no.	Quantity
T-handle wrench, hexagon socket 2.5 mm	0613 132 025	1
T-handle wrench, hexagon socket 3 mm	0613 132 03	1
T-handle wrench, hexagon socket 4 mm	0613 132 04	1
T-handle hexagon socket with ball head 5 mm	0613 130 05	1
T-handle hexagon socket with ball head 6 mm	0613 130 06	1
T-handle hexagon socket with ball head 8 mm	0613 130 08	1

T-handle TX socket set

7 pieces in a sheet steel rack

- Integrated side tip
- Multi-component handle comprising solid core and soft casing
- Black Point tip
- One-piece blade



Number of pieces in assortment/set	7 PCS
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Art. no. 0613 914 7

P. Qty.: 1



Contents for art. no. 0613 914 7		
Designation	Art. no.	Quantity
T-handle, TX with side tip TX10	0613 140 10	1
T-handle, TX with side tip TX15	0613 140 15	1
T-handle, TX with side tip TX20	0613 140 20	1
T-handle, TX with side tip TX25	0613 140 25	1
T-handle, TX with side tip TX30	0613 140 30	1
T-handle, TX with side tip TX40	0613 140 40	1
T-handle, TX with side tip TX45	0613 140 45	1

Allen key set

9 pieces. In plastic holder, long version.

- Bright nickel-plated
- Chamfered front edges
- Contents: Size 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10



Tip type	For hexagon socket
Included in delivery (Lieferumfang)	1.5; 2; 2,5; 3; 4; 5; 6; 8; 10 mm
Number of pieces in assortment/set	9 PCS



Art. no. 0715 31 120

P. Qty.: 1/10

ISO 2936L (comparable to DIN 911)

Allen key, hexagon socket

Short version

- Bright nickel-plated
- Chamfered front edges



Tip size	Length (L1)	Short-limb dimension	Art. no.	P. Qty.
1 mm	45 mm	14 mm	0715 31 59	1/20
1.5 mm	46.5 mm	15.5 mm	0715 31 35	1/20
2 mm	52 mm	18 mm	0715 31 36	1/20
2.5 mm	58.5 mm	20.5 mm	0715 31 37	1/20
3 mm	66 mm	23 mm	0715 31 38	1/20
3.5 mm	69.5 mm	25.5 mm	0715 31 57	1/10
4 mm	74 mm	29 mm	0715 31 39	1/10
4.5 mm	80 mm	30.5 mm	0715 31 391	1/10
5 mm	85 mm	33 mm	0715 31 40	1/10
5.5 mm	90.5 mm	35.5 mm	0715 31 401	1/10
6 mm	96 mm	38 mm	0715 31 41	1/10
7 mm	102 mm	41 mm	0715 31 42	1/10
8 mm	108 mm	44 mm	0715 31 43	1/10
9 mm	114 mm	47 mm	0715 31 44	1/10
10 mm	122 mm	50 mm	0715 31 45	1/10
11 mm	129 mm	53 mm	0715 31 46	1/10
12 mm	137 mm	57 mm	0715 31 47	1/5
14 mm	154 mm	70 mm	0715 31 48	1/5
16 mm	168 mm	76 mm	0715 31 481	1/5
17 mm	177 mm	80 mm	0715 31 49	1/5
19 mm	199 mm	89 mm	0715 31 50	1/5
22 mm	222 mm	102 mm	0715 31 51	1/5

ISO 2936 (similar to DIN 911)

Allen key hexagon socket

Long version

- Bright nickel-plated
- Chamfered front edges



Tip size	Short-limb dimension	Long-limb dimension (L2)	Art. no.	P. Qty.
2 mm	18 mm	102 mm	0715 31 17	1/10
2.5 mm	21 mm	115 mm	0715 31 18	1/10
3 mm	23 mm	129 mm	0715 31 19	1/10
3.5 mm	26 mm	140 mm	0715 31 58	1/10
4 mm	29 mm	144 mm	0715 31 20	1/10
5 mm	33 mm	165 mm	0715 31 21	1/10
6 mm	38 mm	186 mm	0715 31 22	1/10
7 mm	41 mm	197 mm	0715 31 23	1/10
8 mm	44 mm	208 mm	0715 31 24	1/10
9 mm	47 mm	219 mm	0715 31 25	1/10
10 mm	50 mm	234 mm	0715 31 26	1/10
11 mm	51 mm	238 mm	0715 31 27	1/5
12 mm	57 mm	262 mm	0715 31 28	1/5
14 mm	70 mm	294 mm	0715 31 29	1/5
17 mm	80 mm	337 mm	0715 31 30	1/5
19 mm	89 mm	379 mm	0715 31 31	1/5

ISO 2936L (comparable to DIN 911)

Allen key, hexagon socket with ball head

Extra-long version

- Brushed chromium-plated
- Allen key with a max. angle of 25°



Tip size	Short-limb dimension	Long-limb dimension (L2)	Art. no.	P. Qty.
1.3 mm	12 mm	73 mm	0715 40 013	1/10
1.5 mm	15 mm	89 mm	0715 40 015	1/10
2 mm	18 mm	99 mm	0715 40 02	1/10
2.5 mm	20 mm	111 mm	0715 40 025	1/10
3 mm	22 mm	125 mm	0715 40 03	1/10
4 mm	29 mm	138 mm	0715 40 04	1/10
5 mm	32 mm	158 mm	0715 40 05	1/10
6 mm	36 mm	178 mm	0715 40 06	1/10
8 mm	43 mm	198 mm	0715 40 08	1/10
10 mm	50 mm	221 mm	0715 40 10	1/10
12 mm	57 mm	247 mm	0715 40 12	1/10

ISO 2936L



Allen key set, hexagon socket

Ball head, extra-long, in plastic holder with fan rotary movement, 9 pieces.

- Simple removal of the keys: Rotating one key in the holder fans out all other keys.
- Allen keys with an angle of max. 25°.

Tip type	Hexagon socket
Included in delivery (Lieferumfang)	1.5; 2; 2,5; 3; 4; 5; 6; 8; 10 mm
Number of pieces in assortment/set	9 PCS
Design	With ball head on one side



Art. no. 0715 40 50

P. Qty.: 1

Contents for art. no. 0715 40 50		
Designation	Art. no.	Quantity
Allen key, hexagon socket with ball head 1.5 mm	0715 40 015	1
Allen key, hexagon socket with ball head 2 mm	0715 40 02	1
Allen key, hexagon socket with ball head 2.5 mm	0715 40 025	1
Allen key, hexagon socket with ball head 3 mm	0715 40 03	1
Allen key, hexagon socket with ball head 4 mm	0715 40 04	1
Allen key, hexagon socket with ball head 5 mm	0715 40 05	1

Designation	Art. no.	Quantity
Allen key, hexagon socket with ball head 6 mm	0715 40 06	1
Allen key, hexagon socket with ball head 8 mm	0715 40 08	1
Allen key, hexagon socket with ball head 10 mm	0715 40 10	1

Allen key set, hexagon socket

9 pieces. Ball head, extra-long version, in plastic holder with sliding function.

- Plastic holder with sliding function for one-handed opening
- Allen key with an angle of max. 25°



Included in delivery (Lieferumfang)	1.5; 2; 2,5; 3; 4; 5; 6; 8; 10 mm
Number of pieces in assortment/set	9 PCS
Design	With ball head on one side



Art. no. 0715 40 100

P. Qty.: 1

Contents for art. no. 0715 40 100		
Designation	Art. no.	Quantity
Allen key, hexagon socket with ball head 1.5 mm	0715 40 015	1
Allen key, hexagon socket with ball head 2 mm	0715 40 02	1
Allen key, hexagon socket with ball head 2.5 mm	0715 40 025	1
Allen key, hexagon socket with ball head 3 mm	0715 40 03	1
Allen key, hexagon socket with ball head 4 mm	0715 40 04	1
Allen key, hexagon socket with ball head 5 mm	0715 40 05	1
Allen key, hexagon socket with ball head 6 mm	0715 40 06	1
Allen key, hexagon socket with ball head 8 mm	0715 40 08	1
Allen key, hexagon socket with ball head 10 mm	0715 40 10	1

Allen key set, hexagon socket

7 pieces. In glass fibre reinforced plastic housing.

- Brushed chromium-plated hexagon blade
- Handy eject button for simple selection of the desired wrench size
- 180° position allows it to be used as a screwdriver
- Contents: Size 2; 2.5; 3; 4; 5; 6; 8



Number of pieces in assortment/set	7 PCS
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Design	Art. no.	P. Qty.
With ball head and retaining ring	0715 31 71	1/10
Without ball head	0715 31 70	1/10

Size similar to DIN 911

Allen key

TX, short version

- TX socket
- Round blade
- Bright nickel-plated



Tip size	Long-limb dimension	Short-limb dimension	Art. no.	P. Qty.
TX6	45 mm	19 mm	0715 36 06	1/12
TX7	51 mm	19 mm	0715 36 07	1/12
TX8	51 mm	19 mm	0715 36 08	1/12
TX9	51 mm	19 mm	0715 36 09	1/12
TX10	54 mm	20 mm	0715 36 10	1/12
TX15	58 mm	22 mm	0715 36 15	1/12
TX20	61 mm	23 mm	0715 36 20	1/12
TX25	65 mm	25 mm	0715 36 25	1/12
TX27	70 mm	27 mm	0715 36 27	1/12
TX30	76 mm	30 mm	0715 36 30	1/12
TX40	83 mm	33 mm	0715 36 40	1/12
TX45	91 mm	37 mm	0715 36 45	1/12
TX50	104 mm	41 mm	0715 36 50	1/12
TX55	120 mm	47 mm	0715 36 55	1/12
TX60	134 mm	52 mm	0715 36 60	1/12

Allen key folding set, TX

TX, in fibreglass reinforced plastic housing, 8 pcs.

- TX socket
- Round blade
- Matt chrome-plated
- Contents: TX 9, 10, 15, 20, 25, 27, 30, 40
- Handy eject button for simple selection of the desired wrench size
- 180° position allows it to be used as a screwdriver



Included in delivery (Lieferumfang)	Contents: TX 9, 10, 15, 20, 25, 27, 30, 40
Number of pieces in assortment/set	8 PCS



Art. no. 0715 36 70

P. Qty.: 1/10

Allen key set

TX, in plastic holder, 8 pcs., short version

- TX socket
- Round blade
- Bright nickel-plated
- Contents: TX 9, 10, 15, 20, 25, 27, 30, 40



Tip type	TX
Included in delivery (Lieferumfang)	TX 9, 10, 15, 20, 25, 27, 30, 40
Number of pieces in assortment/set	8 PCS

Art. no. 0715 36 100

P. Qty.: 1/10

Contents for art. no. 0715 36 100		
Designation	Art. no.	Quantity
Allen key TX9	0715 36 09	1
Allen key TX10	0715 36 10	1
Allen key TX15	0715 36 15	1
Allen key TX20	0715 36 20	1
Allen key TX25	0715 36 25	1
Allen key TX27	0715 36 27	1
Allen key TX30	0715 36 30	1
Allen key TX40	0715 36 40	1

Allen key set, TX

Ball head, in plastic holder, short version, 8 pcs.

- TX socket with ball head
- Round blade
- Bright nickel-plated
- Contents: TX 9, 10, 15, 20, 25, 27, 30, 40



Number of pieces in assortment/set	8 PCS
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Art. no. 0715 37 100

P. Qty.: 1/10

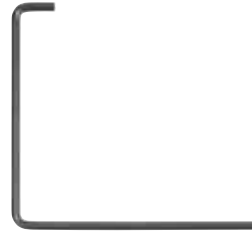
Contents for art. no. 0715 37 100		
Designation	Art. no.	Quantity
Allen key TX9	0715 37 09	1
Allen key TX10	0715 37 10	1
Allen key TX15	0715 37 15	1
Allen key TX20	0715 37 20	1
Allen key TX25	0715 37 25	1
Allen key TX27	0715 37 27	1
Allen key TX30	0715 37 30	1
Allen key TX40	0715 37 40	1

Allen key, hexagon socket, window adjusting tool

For corner and scissor hinges

Highly versatile in the tightest of spaces thanks to long lever

Tip size	4 mm
Length (L1)	103 mm
Short-limb dimension	15 mm
Long-limb dimension (L2)	91 mm



Art. no. 0715 31 85

P. Qty.: 1

Multifunction electrical T-handle wrench

Practical T-handle wrench for locking systems with 5/6 mm square, 9 mm triangle, 3–5 mm diameter double bit, 7–8 mm square, 1/4 inch PH2 bit

- Practical folding T-handle wrench with plastic clip
- With dual turning mechanism

Art. no. 0715 16 20

P. Qty.: 1



Multifunction T-handle wrench, construction/wood

Practical T-handle wrench for locking systems

Practical folding T-handle wrench with plastic clip

For storage in a shirt or overall pocket

With dual turning mechanism

Various keys can be brought into position

Incl.

1/4-inch PH2 bit

Consisting of

5/8-mm square, 8-mm triangle, 6-9-mm stepped square drive, 1/4-inch PH2 bit

Art. no. 0715 16 21

P. Qty.: 1



Universal 5-in-1 switch cabinet key

For switch cabinet locking mechanisms

Chain, adapter and dual bit PH 2/slotted 1.0 x 7.0 mm



Material	Die-cast zinc
Width	92 mm
Length	96 mm

Art. no. 0715 16 23

P. Qty.: 1

Electric switch cabinet key Black Finish

6-in-1 switch cabinet key with hanging eyelet, 1/4 inch bit holder and bottle opener



Art. no. 0715 16 26

P. Qty.: 1

Switch cabinet key „Mini“ 6-in-1

Dual turning mechanism so that four different closures can be effected.

Closures are each rotatable by 360°



Width	25 mm
Length	72 mm
Height	21 mm

Art. no. 0715 16 24

P. Qty.: 1



Pickaxe

With shaft

Pick and axe with a tip and a cross-shafted, flattened axe blade

Weight of head	2200 g
Length	950 mm
Material of the handle	Ash
Length of handle	930 mm

Art. no. 0695 945 085

P. Qty.: 1

Potato hoe

With ash handle, 1,300 mm, spring socket and four hardened prongs

Width	200 mm
Length	1400 mm
Number of tines	4 PCS

Art. no. 0695 945 080

P. Qty.: 1



Garden hoe/small hoe

Lightweight garden hoe with 1350 mm ash wood handle for cultivated soils

- Conically milled, fully forged and hardened blade

Width	100 mm
Sheet length x sheet width	145 x 100 mm
Length	1350 mm

Art. no. 0695 945 062

P. Qty.: 1



Garden hoe/Ulm hoe

Universal garden hoe with 1350 mm ash wood handle for vegetation and garden soil

- Conically milled, fully forged and hardened blade
- Blade with inset cut

Width	110 mm
Sheet length x sheet width	180 x 110 mm
Length	1350 mm

Art. no. 0695 945 061

P. Qty.: 1



Garden hoe with wide and narrow blade

With 1350 mm ash wood handle for bed cultivation

- Conically milled, fully forged and hardened blade
- 35 mm narrow handle

Width	270 mm
Sheet length x sheet width	270 x 75 mm
Length	1350 mm

Art. no. 0695 945 066

P. Qty.: 1



Garden hoe with prongs

Lightweight garden hoe with 1350 mm ash wood handle, wide blade and two tines

- Conically milled, fully forged and hardened blade

Width	270 mm
Sheet length x sheet width	270 x 75 mm
Length	1350 mm
Number of tines	2 PCS

Art. no. 0695 945 065

P. Qty.: 1



Pulaski hoe axe

Fully forged high-quality hoe with oval blade and ash wood handle

Long service life

Fully forged blade

Width	120 mm
Sheet length x sheet width	455 x 120 mm
Length	1050 mm

Art. no. 0695 945 070

P. Qty.: 1



Garden hoe/clearing hoe

Heavyweight hoe with 1350 mm ash wood handle for natural earth and land clearing tasks

- Conically milled, fully forged and hardened blade

Width	100 mm
Sheet length x sheet width	210 x 100 mm
Length	1350 mm

Art. no. 0695 945 063

P. Qty.: 1



Spade shovel

Forged from a single piece, with 1200 mm ash wood handle

- Made from hardened steel
- With foot grip

Length of handle	1200 mm
Sheet width	225 mm
Sheet length	300 mm

Art. no. 0695 945 200

P. Qty.: 1



Manure fork

With four tines and 1350 mm ash wood handle

- Specially hardened steel
- With bar clamp

Number of tines	4 PCS
Width	230 mm
Length of handle	1350 mm

Art. no. 0695 945 001

P. Qty.: 1



Spade fork

With hardened lance tines

- Made from powder-coated steel
- Fully forged blade section is resistant to extremely high loads

Number of tines	4 PCS
Length	310 mm
Width	200 mm

Art. no. 0695 945 005

P. Qty.: 1



Lawn rake

Extremely robust rake made from powder-coated steel

Number of tines	40 PCS
Width	700 mm

Art. no. 0695 945 102

P. Qty.: 1



Levelling rake

Very lightweight rake made from aluminium with straight tines

Number of tines	16 PCS
Width	750 mm

Art. no. 0695 945 105

P. Qty.: 1



Plastic rake

With edge for levelling and flattening humus and light soil

Number of tines	16 PCS
Width	650 mm

Art. no. 0695 945 106

P. Qty.: 1



Adjustable leaf broom

Stable leaf broom made from galvanised steel with reinforced outer tines

Number of tines	22 PCS
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Art. no. 0695 945 115

P. Qty.: 1



Plastic leaf rake

Very well-suited to removing leaves and garden waste

For use as a leaf rake and garden fork

Number of tines	26 PCS
Width	600 mm

Art. no. 0695 945 110

P. Qty.: 1



Splitting axe

With premium ash handle and wedge for splitting tasks

- Sharpened and polished blade



Weight of head	2000 g
Length	800 mm
Material of the handle	Ash

Art. no. 0714 727 200

P. Qty.: 1



Loppers 600 mm

High-quality loppers with forged blade allows for cutting branches up to 35 mm diameter

- Expertly forged and finished cutting head with non-stick coated blade
- Drop-forged grooving
- Forged grooving in counter blade
- High-strength aluminium tubing

Length	Cutting edge length	Wood cutting capacity	Art. no.	P. Qty.
600 mm	90 mm	35 mm	0714 03 970	1
900 mm	120 mm	50 mm	0714 03 971	1

Secateurs, 200 mm

High quality secateurs with a two-component handle for the professional gardener.

- Forged body with high-quality two-part plastic handle
- Wire cutting device for cutting binding wire
- Forged oil reservoir
- With locking lever

Length	200 mm
Cutting edge length	84 mm
Wood cutting capacity	20 mm

Art. no. 0714 03 928

P. Qty.: 1



Secateurs, 215 mm

High-quality secateurs for the professional gardener

- Forged body with high-quality plastic handle
- Integral sap groove
- Replaceable blade
- Forged groove in the hook
- Blocking lever

Length	215 mm
Cutting edge length	84 mm
Wood cutting capacity	25 mm

Art. no. 0714 03 926

P. Qty.: 1



Hedge shears

High-quality hedge shears with crimped blades

- Hard-chrome plated cutting edges
- Both blades have a juice groove for plant residues
- Self-sharpening blades
- Rubber stop
- Adjustable metal screw joint to regulate the clamping pressure of the blades
- Beech wood handles

Cutting edge length	240 mm
Length	540 mm

Art. no. 0714 03 938

P. Qty.: 1



UV weed control fabric 105 g/m²

For gardening and landscaping applications

- The fleece structure allows up to 70% of air to pass through
- Can be used universally, both covered and uncovered (up to max. 4 years)
- The water-permeable fleece allows up to 20 l/(m²xs) of water through



Material	HDPE - High density polyethylene
Colour	Black
Length	100 m

Width	Art. no.	P. Qty.
105 cm	0681 001 700	105
210 cm	0681 001 701	210



Vernier calliper

With torque fixing

- Thread table on reverse side, depth gauge on slider
- Matt chrome-plated scale and vernier, measuring surfaces polished and lapped
- Rust-free, DIN 862

Max. length measuring range	150 mm
Min./max. length measuring range	0-150 mm
Vernier scale (imperial)	1/128 inch
Vernier scale	0.05 mm
Length of jaw	40 mm

Art. no. 0715 76 01

P. Qty.: 1

Vernier callipers

With locking screw

- Thread table on the reverse
- Measuring surfaces ground and lapped
- Depth gauge on calliper
- DIN 862



Max. length measuring range	150 mm
Min./max. length measuring range	0-150 mm
Vernier scale (imperial)	1/128 inch
Vernier scale	0.05 mm
Length of jaw	40 mm

Art. no. 0715 76 02

P. Qty.: 1

Digital vernier calipers

With data output RS 232

- Stainless steel, hardened, IP54 rating
- Features: mm/inch switch, on/off, zero (0-button)
- Measuring surfaces polished and lapped, flat depth gauge, set screw at the top, including battery



Max. length measuring range	Length of jaw	Art. no.	P. Qty.
150 mm	40 mm	0715 76 122	1
200 mm	50 mm	0715 76 124	1
300 mm	60 mm	0715 76 126	1

Supplied in plastic box

Precision feeler gauge stock

Precision tool for accurate alignment and setting of machine parts.

- Made of hardened, white-polished steel strip
- The strip thickness is marked every 200 mm
- In plastic box with a practical winding/unwinding mechanism.



Width of band	12.7 mm
Length of tape	5 m

Thickness of tape	Material	Art. no.	P. Qty.
0.01 mm	Stainless steel	0713 51 001	1
0.02 mm	Stainless steel	0713 51 002	1
0.03 mm	Steel	0713 51 00	1
0.04 mm	Steel	0713 51 004	1
0.05 mm	Steel	0713 51 01	1
0.06 mm	Steel	0713 51 02	1
0.08 mm	Steel	0713 51 03	1
0.1 mm	Steel	0713 51 05	1

Thickness of tape	Material	Art. no.	P. Qty.
0.12 mm	Steel	0713 51 06	1
0.13 mm	Steel	0713 51 07	1
0.14 mm	Steel	0713 51 08	1
0.15 mm	Steel	0713 51 09	1
0.16 mm	Steel	0713 51 10	1
0.18 mm	Steel	0713 51 11	1
0.2 mm	Steel	0713 51 12	1
0.22 mm	Steel	0713 51 13	1
0.25 mm	Steel	0713 51 14	1
0.3 mm	Steel	0713 51 15	1
0.35 mm	Steel	0713 51 16	1
0.4 mm	Steel	0713 51 17	1
0.5 mm	Steel	0713 51 19	1
0.6 mm	Steel	0713 51 34	1

Precision protractor

Precision dial gauge for measuring angles of 0 to 180 degrees

- Measuring arms and degree arcs are movably connected to the knurled nut and can be locked at any point



Min./max angle measuring range	0-180 Degree
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Degree arc diameter	Free length of protractor arm	Surface	Art. no.	P. Qty.
80 mm	120 mm	Chrome plated	0715 774 120	1
120 mm	150 mm	Chrome plated	0715 774 150	1
120 mm	150 mm	Plain	0715 775 150	1
150 mm	200 mm	Chrome plated	0715 774 200	1
150 mm	200 mm	Plain	0715 775 200	1
200 mm	300 mm	Chrome plated	0715 774 300	1
200 mm	300 mm	Plain	0715 775 300	1
300 mm	500 mm	Chrome plated	0715 774 500	1

Marking gauge

Made of stainless steel with hardened marking edge and millimetre graduation



Rail width	40 mm
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Max. length measuring range	Art. no.	P. Qty.
200 mm	0715 70 200	1
300 mm	0715 70 300	1

Marking gauge

Material: White beech, protective lacquer coating
Two inlaid millimetre scales and locking screws

Length of scales: 150 mm

Scale can be set individually

Art. no. 0715 70 02

P. Qty.: 1



Steel measuring tape

From stainless, flexible steel

Hard-rolled, springy steel with matt-stained surface

No corrosion and long service life

Scale etched in black

Allows simple, precise reading



Thickness of tape (S)	0.5 mm
Scale marking on top edge (length)	0.5 mm
Scale marking on bottom edge (length)	0.5 mm

Length of tape (L)	Width of band (B)	Art. no.	P. Qty.
300 mm	13 mm	0695 072 300	1/10
500 mm	18 mm	0695 072 500	1/10

According to EEC precision class II

Steel square

With stop

Galvanised design

No corrosion

Accuracy in line with DIN 7168 m



Thickness (B1)	Width (B)	Long-limb dimension (L1)	Short-limb dimension (L2)	Art. no.	P. Qty.
				0695 940 36	1
5 mm	30 mm	100 mm	75 mm	0695 940 360	1
5 mm	30 mm	150 mm	100 mm	0695 940 362	1
5 mm	30 mm	200 mm	130 mm	0695 940 363	1
5 mm	30 mm	250 mm	160 mm	0695 940 364	1
5 mm	30 mm	300 mm	180 mm	0695 940 365	1
5 mm	30 mm	400 mm	230 mm	0695 940 366	1
5 mm	30 mm	500 mm	280 mm	0695 940 367	1
5 mm	30 mm	600 mm	330 mm	0695 940 368	1
5 mm	30 mm	750 mm	375 mm	0695 940 369	1

Flat square

Accuracy 1 to DIN 875, made from standard steel

Very low rectangularity tolerance

Suitable for monitoring and precision work.

Top edges finely ground and calibrated

Flat sides finely ground and trued



Long-limb dimension	Short-limb dimension	Thickness	Width	Art. no.	P. Qty.
75 mm	50 mm	5 mm	15 mm	0715 763 075	1
100 mm	70 mm	5 mm	20 mm	0715 763 100	1
150 mm	100 mm	6 mm	25 mm	0715 763 150	1
200 mm	130 mm	6 mm	30 mm	0715 763 200	1
250 mm	165 mm	6 mm	35 mm	0715 763 250	1
300 mm	200 mm	10 mm	40 mm	0715 763 300	1

Stop angle

Accuracy 1

Made from standard steel DIN 875/1

Very low rectangularity tolerance

Suitable for monitoring and precision work

Top edges finely ground and calibrated

Flat sides finely ground and trued



Thickness (B1)	Width (B)	Long-limb dimension (L1)	Short-limb dimension (L2)	Art. no.	P. Qty.
5 mm	15 mm	75 mm	50 mm	0715 765 075	1
5 mm	20 mm	100 mm	70 mm	0715 765 100	1
6 mm	25 mm	150 mm	100 mm	0715 765 150	1
6 mm	30 mm	200 mm	130 mm	0715 765 200	1
6 mm	35 mm	250 mm	165 mm	0715 765 250	1
6 mm	35 mm	300 mm	200 mm	0715 765 300	1

Try square

Accuracy 2

Made from carbon steel DIN 875/2

Low rectangularity tolerance

High edges finely ground and adjusted

Flat sides finely ground and trued



Thickness (B1)	Width (B)	Long-limb dimension (L1)	Short-limb dimension (L2)	Art. no.	P. Qty.
5 mm	15 mm	75 mm	50 mm	0715 766 075	1
5 mm	20 mm	100 mm	70 mm	0715 766 100	1
6 mm	25 mm	150 mm	100 mm	0715 766 150	1
6 mm	30 mm	200 mm	130 mm	0715 766 200	1
6 mm	35 mm	250 mm	165 mm	0715 766 250	1
6 mm	35 mm	300 mm	200 mm	0715 766 300	1

Flange angle

Galvanized steel

Width	30 mm
Thickness	5 mm

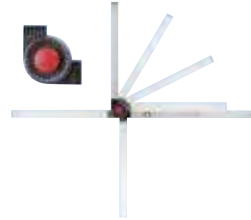


Limb length x limb length 2	Art. no.	P. Qty.
300 x 300 mm	0715 763 530	1
400 x 400 mm	0715 763 540	1
500 x 500 mm	0715 763 550	1
600 x 600 mm	0715 763 560	1

Building square

Lightweight, handy square for construction work

- Consists of two light metal spirit levels
- Very precise angle transcription
- With horizontal and vertical level
- Optionally with 15° locking or infinitely variable adjustment
- Adjustment range 0-270°
- Reading range 0-180°



Min. angle indication	1 Degree
Long-limb dimension x short-limb dimension	60 x 80 cm
Measuring accuracy (per length)	1 mm/m
Thickness	20 mm

Art. no. 0714 647 080

P. Qty.: 1

Alpha square

For carpenters, formwork setters and staircase builders.

From stainless spring band steel, 1.4 mm thick.

Long-limb dimension	800 mm
Short-limb dimension	320 mm
Thickness	1.4 mm



Art. no. 0695 940 410

P. Qty.: 1

Carpenter's square

With marking holes

- 35 mm wide



Long-limb dimension x short-limb dimension	Art. no.	P. Qty.
300 x 700 mm	0695 940 377	1
800 x 320 mm	0695 940 378	1
1000 x 380 mm	0695 940 371	1

Carpenter's square

With marking holes and four dimensions

- Made from rustproof stainless steel
- The high edges are ground



Long-limb dimension x short-limb dimension	320 x 800 mm
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Art. no. 0695 940 380

P. Qty.: 1

Telescopic measuring tool Messfix

8 m, makes work easier and quicker when substantial successive sections have to be measured.

- Locking screws to secure the individual sections at any given length
- With level for vertical and horizontal measurements
- Fibre glass cloth tape with millimetre pitch
- Messfix conforms to EC accuracy class 2
- Supplied in a plastic case



Min. length measuring range (L min)	1.53 m
Max. length measuring range (L max)	8 m

Art. no. 0715 64 98

P. Qty.: 1

Telescopic rule

Analogue measuring tool for trade professionals. For vertical and horizontal measurements.

- Fast, simple measurement of successive sections
- Individual telescopic sections made from round aluminium
- With horizontal and vertical level
- Coated tape measure with millimetre pitch
- Reading window with magnifying effect



Continuation **Telescopic rule**

Min. length measuring range (L min)	Max. length measuring range (L max)	Art. no.	P. Qty.
0.6 m	3 m	0714 642 103	1
0.9 m	5 m	0714 642 105	1

Telescopic rule conforms to EEC precision class 2

Goniometer Winkelfix mini

Compact analogue goniometer for simple measurement of angles.

- Short design and symmetrical arrangement of the measuring arms
- Locking screw allows locking in each setting
- Horizontal and vertical level
- Delivered in a plastic case



Min./max angle measuring range	0-180 Degree
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Art. no. 0715 64 92

P. Qty.: 1

Goniometer Winkeltronik

Electronic goniometer for quick and easy measurement of angles.

- Digital display (0.1 degree division), horizontal and vertical level
- Arms of the Winkeltronik fit into each other
- Automatic switch-off after 3 minutes



Limb length (L1)	600 mm
Min./max angle measuring range	0-355 Degree
Number of rechargeable batteries/batteries	4 PCS
Colour	Red
Product weight (per item)	1501.5 g

Art. no. 0715 64 950

P. Qty.: 1

Digital goniometer DWM 350

Short digital goniometer.

- With horizontal and vertical level
- Large digital display field
- Optional illumination
- Easy to use thanks to simple long-display and deletion of measurement values
- High-precision aluminium measuring arm
- Short arm length



Limb length (L1)	348 mm
Min./max angle measuring range	0-185 Degree
Number of rechargeable batteries/batteries	2 PCS
Rechargeable battery/battery permanently installed	Yes
Surface	Aluminium FINISH
Material	Aluminium
Colour	Red
Product weight (per item)	296 g

Art. no. 0715 641 91

P. Qty.: 1

Small spirit level with magnet

Professional small spirit level with two magnetic surfaces

- Excellent readability and long service life
- Fluorescent level liquid, highly-resistant to UV radiation
- Milled measuring surface with strong magnets and V-shaped groove for strong hold on pipes, profiles etc.



Length (L)	74 mm
Height (H)	34 mm
Width (B)	41 mm
Number of magnets	2 PCS
Measuring accuracy (per length)	1 mm/m
Measuring accuracy for overhead measurements (per length)	1 mm/m
Degrees measuring accuracy for overhead measurements	1 Degree



Art. no. 0714 644 505

P. Qty.: 1

Small spirit level, electric

Spirit level for aligning switches and sockets

- Extra-strong rare earth magnet
- Acrylic glass level block with integrated corrosion-free reading rings
- Fluorescent level liquid, highly resistant to UV radiation
- Additional ground measuring surface, can therefore be used as a standard spirit level



Length (L)	67 mm
Height (H)	18 mm
Width (B)	41 mm
Number of magnets	1 PCS
Measuring accuracy (per length)	1 mm/m
Measuring accuracy for overhead measurements (per length)	1 mm/m

Art. no. 0714 644 510

P. Qty.: 1



Light metal spirit level

Stable rectangular profile with smooth lateral surfaces

- Excellent readability and long service life
- Fluorescent level liquid, highly-resistant to UV radiation
- High degree of accuracy thanks to milled measuring surface (up to 120 cm)

Height (H)	20 mm
Width (B)	50 mm
Measuring accuracy (per length)	0.5 mm/m
Measuring accuracy for overhead measurements (per length)	0.75 mm/m
Degrees measuring accuracy	0.029 degree
Degrees measuring accuracy for overhead measurements	0.043 Degree

Length (L)	Art. no.	P. Qty.
20 cm	0714 644 202	1
30 cm	0714 644 203	1
40 cm	0714 644 204	1
50 cm	0714 644 205	1
60 cm	0714 644 206	1
80 cm	0714 644 208	1
100 cm	0714 644 210	1

Continuation **Light metal spirit level**

Length (L)	Art. no.	P. Qty.
120 cm	0714 644 212	1
180 cm	0714 644 218	1
200 cm	0714 644 220	1

Magnetic spirit level

Rugged design with strong magnets

- Acrylic glass level block with integrated corrosion-free reading rings
- Fluorescent level liquid, highly resistant to UV radiation
- Powerful magnets
- Milled measuring surface (up to 120 cm)



Measuring accuracy (per length)	0.5 mm/m
Measuring accuracy for overhead measurements (per length)	0.75 mm/m
Degrees measuring accuracy	0.029 degree
Degrees measuring accuracy for overhead measurements	0.043 Degree

Length (L)	Height (H)	Width (B)	Number of magnets	Art. no.	P. Qty.
40 cm	20 mm	50 mm	2 PCS	0714 644 304	1
60 cm	20 mm	50 mm	2 PCS	0714 644 306	1
80 cm	20 mm	50 mm	4 PCS	0714 644 308	1
100 cm	50 mm	20 mm	4 PCS	0714 644 310	1
120 cm	20 mm	50 mm	4 PCS	0714 644 312	1
180 cm	20 mm	50 mm	6 PCS	0714 644 318	1

Digital spirit level

Waterproof and dustproof digital spirit level with stable light metal profile

- Two large, clearly laid-out, illuminated displays
- Acoustic tilt guide that can be switched off
- Level block made from acrylic glass with inlaid, corrosion-free reading rings
- Fluorescent level liquid, highly-resistant to UV radiation
- Two milled measuring surfaces
- Easy-to-remove, impact-reducing end caps
- Two vertical levels



Width (B)	60 mm
Height (H)	30 mm
Number of rechargeable batteries/batteries	2 PCS
IP protection class	IP 65
Measured value display	0.1 mm
Measuring accuracy (per length)	0.5 mm/m

Measuring accuracy for overhead measurements (per length)	0.5 mm/m
Degrees measuring accuracy	0.029 degree
Degrees measuring accuracy for overhead measurements	0.029 Degree

Length (L)	Rechargeable battery/battery designation	Art. no.	P. Qty.
61 cm	1.5 V Mignon AA	0714 644 060	1
80 cm		0714 644 080	1

Digital magnetic spirit level

Waterproof and dustproof digital magnetic spirit level with stable light metal profile

- Two large, clearly laid-out, illuminated displays (front and upper milled measuring surface)
- Acoustic tilt guide that can be switched off
- Rare earth magnets
- Two milled measuring surfaces
- Easy-to-remove, impact-reducing end caps



Length (L)	61 cm
Width (B)	60 mm
Height (H)	30 mm
Number of rechargeable batteries/batteries	2 PCS
Rechargeable battery/battery designation	Micro AAA
IP protection class	IP 65
Measured value display	0.1 mm
Measuring accuracy (per length)	0.5 mm/m
Measuring accuracy for overhead measurements (per length)	0.5 mm/m
Degrees measuring accuracy	0.029 degree
Degrees measuring accuracy for overhead measurements	0.029 Degree

Art. no. 0714 644 360

P. Qty.: 1

Light metal spirit level

Rugged light metal spirit level for metalworking and construction trades

- Excellent readability and simple determination of gradients
- Direct testing of gradients with angle level
- Fluorescent level liquid, highly-resistant to UV radiation
- Milled measuring surface with strong magnets and V-shaped groove for strong hold on pipes, profiles etc.



Length (L)	25 cm
Height (H)	20 mm

Continuation **Light metal spirit level**

Width (B)	50 mm
Number of magnets	2 PCS
Measuring accuracy (per length)	0.5 mm/m
Measuring accuracy for overhead measurements (per length)	0.75 mm/m
Degrees measuring accuracy	0.029 degree
Degrees measuring accuracy for overhead measurements	0.043 Degree

Art. no. 0714 644 125

P. Qty.: 1

Light metal spirit level with magnet

Extra-strong, stable light metal rectangular profile

- Excellent readability and long service life
- Fluorescent level liquid with high resistance to UV radiation.
- Very strong magnets
- Extremely high accuracy even for overhead measurements
- Transfer of measuring levels flush with workpiece thanks to removable end caps.
- Two vertical levels



Height (H)	30 mm
Width (B)	60 mm
Measuring accuracy (per length)	0.5 mm/m
Measuring accuracy for overhead measurements (per length)	0.75 mm/m
Degrees measuring accuracy	0.029 degree
Degrees measuring accuracy for overhead measurements	0.043 Degree

Length (L)	Number of magnets	Art. no.	P. Qty.
61 cm	2 PCS	0714 644 106	1
80 cm	2 PCS	0714 644 108	1
100 cm	4 PCS	0714 644 110	1
122 cm	4 PCS	0714 644 112	1
183 cm	4 PCS	0714 644 118	1

Light metal spirit level

Lightweight design

- Acrylic glass level block with integrated corrosion-free reading rings
- Fluorescent level liquid with high resistance to UV radiation
- Very smooth, easy-clean surface



Measuring accuracy (per length)	0.5 mm/m
Degrees measuring accuracy	0.029 degree

Length (L)	Height (H)	Width (B)	Art. no.	P. Qty.
40 cm	20 mm	50 mm	0714 644 404	1
50 cm	20 mm	50 mm	0714 644 405	1
60 cm	20 mm	50 mm	0714 644 406	1
80 cm	20 mm	50 mm	0714 644 408	1
100 cm	20 mm	50 mm	0714 644 410	1
120 cm	20 mm	50 mm	0714 644 412	1
180 cm	20 mm	50 mm	0714 644 418	1
200 cm	50 mm	20 mm	0993 715 200	1

Spirit level straight edge with bubbles

From thick-walled light metal profile with middle web and two plastic end caps

Width (B)	94 mm
Height (H)	18 mm



Length (L)	Art. no.	P. Qty.
180 cm	0714 64 30	1
200 cm	0714 64 31	1

Spirit level

Extra-strong, stable light metal rectangular profile with two handles

- Precise measurements by means of two milled measuring surfaces
- Transferring of measuring planes flush with workpiece by means of removable end caps
- Two vertical bubbles mean there is no need to turn the spirit level to read vertically.
- Acrylic glass level block with integrated corrosion-free reading rings
- Fluorescent bubble liquid, highly resistant to UV radiation, no liquid discolouration, maximum precision with fluctuating temperatures.
- Easy to clean thanks to very smooth electrostatic powder coating



Height (H)	30 mm
Width (B)	60 mm
Measuring accuracy (per length)	0.5 mm/m
Measuring accuracy for overhead measurements (per length)	0.5 mm/m
Degrees measuring accuracy	0.029 degree
Degrees measuring accuracy for overhead measurements	0.029 Degree

Length (L)	Number of handles	Art. no.	P. Qty.
61 cm	1 PCS	0714 644 006	1
80 cm	2 PCS	0714 644 008	1
100 cm	2 PCS	0714 644 010	1

Continuation **Spirit level**

Length (L)	Number of handles	Art. no.	P. Qty.
122 cm	2 PCS	0714 644 012	1
183 cm	2 PCS	0714 644 018	1
200 cm	2 PCS	0714 644 020	1

Straight-edge

From thick-walled light metal profile with middle web and two plastic end caps

Width (B)	100 mm
Height (H)	18 mm



Length (L)	Art. no.	P. Qty.
200 cm	0714 64 200	1
300 cm	0714 64 300	1
400 cm	0993 000 101	1
500 cm	0993 000 102	1
600 cm	0993 997 006	1

Wall bracket WM 1

Universal bracket for the CLL 18, CLLG 18 and PLL18 lasers.

Art. no. 5709 300 908

P. Qty.: 1



Only for use in combination with the corresponding bracket (CLL-A or PLL-A).

Levelling set

3 pieces: Builder's level, telescopic levelling rule, Tenimeter, aluminium construction tripod for levelling instruments 90-170 mm

Art. no. 0714 646 93

P. Qty.: 1



Meter tear plaque

Meter tear and axis plaque as a transfer aid for heights into the shell.

- With elastic cleaning brushes
- With suspender strip for the folding rule
- Flexible attachment thanks to slots
- The plaque can be screwed on or nailed



Length	50 mm
Width	80 mm
Thickness	2 mm

Adhesive system	Art. no.	P. Qty.
	0714 640 620	50
Self-adhesive	0714 640 621	50

Telescopic levelling staff

Aluminium measurement aid for levelling with millimetre graduation

Min./max. length	131-242 cm
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Art. no. 0714 64 425

P. Qty.: 1

Charging cable for CLL 18, CLLG 18 and PLL 18

High-quality charging cable for cross and line lasers CLL 18 and CLLG 18, as well as dot laser PLL 18.

Art. no. 5709 300 921

P. Qty.: 1



Automatic construction levelling instrument

Additional rough sight

- Levelling of the line of sight: Automatic (pre-adjustment via level)
- Additional rough sight
- Very short sighting distance
- Large, non-slip operating buttons
- Metal horizontal circle behind glass, 400 gon
- Housing: Aluminium, splash-proof
- Continuous spring-mounted horizontal tangent screw
- Mirror with box level



Length	220 mm
Magnification	24-times
Min. graduation (size of angle)	1 gon

Continuation **Automatic construction levelling instrument**

Max. graduation (size of angle)	400 gon
Lens opening	36 mm

Art. no. 0714 646 21

P. Qty.: 1

- cm estimation: approx. 150 m
- Graduation: upright
- Image: upright
- Compensator: with magnetic damping
- Numbering: 1 gon

Telescopic levelling rule, Tenimeter

Aluminium profiles: Anodised, telescopically extending

Easy and precise guidance of the individual sections

Push button screen

- Easy, fast operation
- Safety mechanism

Graduation: both sides, protected by protruding edges and anodic coating

- Front side: Level graduation = cm-E graduation.
- Rear side: mm graduation.

For measuring heights and lengths

For vertical alignment with a box level

Material	Aluminium
Min./max. length	1.24-5 m

Art. no. 0714 646 210

P. Qty.: 1



Point line laser PLL 18

Self-levelling point line laser for indoor and outdoor use with highly visible red laser lines and points.

- Excellent visibility of laser lines and points
- Self-levelling in seconds
- Simple one-button operation
- Can be used over longer distances (with the LRU 18 handheld receiver)
- Suitable for making perpendicular lines and separating rooms
- Level monitoring
- Flexible mounting options with brackets and tripods
- Simultaneous charging and working is made possible with the lithium-ion battery pack.



Laser category	2
Self-levelling range (+/-)	4 Degree
Min. working temperature	-10 °C

Max. working temperature	50 °C
Length	120 mm
Width	65 mm
Height	100 mm
IP protection class	IP 54
Rechargeable battery/battery designation	Li-Ion
Range with receiver	80 m
Range without receiver	25 m
Measuring accuracy (per length)	2 mm/10m

Art. no. 5709 300 222

P. Qty.: 1

Horizontal rotation laser RL2-14

Specifically designed for outdoor use. Extremely robust with a long service life, and easy to operate. The glass-fibre-reinforced composite housing makes the RL2-14 perfect for use on construction sites.

- Fulfils ISO 17123-7
- Automatic self-levelling takes just seconds
- Automatic level monitoring prevents levelling errors caused by wind, soft surfaces and impacts against the stand.
- Complete protection against dirt and water



Laser category	2
Coverage distance	400 m
Measuring accuracy (per length)	1 mm/10m
Self-levelling range (+/-)	5 Degree
IP protection class	IP 67
Type of rechargeable battery/battery	Alkali
Number of rechargeable batteries/batteries	4 PCS
Min./max. storage temperature	-20 to 70 °C
Min. application temperature	-10 °C
Max. application temperature	50 °C
Max. usage duration	60 h

Art. no. 5709 300 302

P. Qty.: 1

Batteries not included in the scope of delivery

Rotation laser RL5-14

Specifically designed for indoor and outdoor use. Vertical and horizontal alignment for all levelling tasks. The glass-fibre-reinforced composite housing makes the RL5-14 perfect for use on construction sites.

- Fulfils ISO 17123-6
- Automatic self-levelling takes just seconds
- Remote control for controlling the laser lines
- Automatic level monitoring prevents levelling errors caused by wind, soft surfaces and impacts against the stand.
- Complete protection against dirt and water
- Li-ion battery pack included



Laser category	2
Coverage distance	600 m
Measuring accuracy (per length)	0.75 mm/10m
Self-levelling range (+/-)	6 Degree
IP protection class	IP 67
Type of rechargeable battery/battery	Li-Ion
Number of rechargeable batteries/batteries	1 PCS
Min./max. storage temperature	-20 to 70 °C
Min. application temperature	-20 °C
Max. application temperature	50 °C

Art. no. 5709 300 305

P. Qty.: 1

Rotation laser set RL1-18

4 pieces. Specifically designed for outdoor use. Extremely robust with a long service life and easy to operate. The fibreglass-reinforced composite housing makes the RL1-18 perfect for use on the construction site.

- For indoor and outdoor work performed horizontally
- Manual tilt function in one axis possible
- Maximum rotational speed of 2000 rpm

Number of pieces in assortment/set	4 PCS
Product weight (per item)	8500 g



Art. no. 5709 300 980

P. Qty.: 1

Tilting wedge

For rotation lasers

Art. no. 0714 649 128

P. Qty.: 1



Remote control

Controls the laser lines on rotation laser RL5-14

Art. no. 5709 300 306

P. Qty.: 1



Adapter for LRU13

Art. no. 5709 300 910

P. Qty.: 1



Receiver bracket

For using the laser receiver LR5-14 on a rod

Art. no. 5709 300 901

P. Qty.: 1



Battery for CLL 18, CLLG 18 and PLL 18

High-quality lithium-ion battery for cross and line lasers CLL 18 and CLLG 18 as well as dot laser PLL 18.

- Runs for up to 24 hours
- Charging socket allows you to remove the battery from the device while charging

Art. no. 5709 300 920

P. Qty.: 1



Laser receiver LR5-14

High-quality laser receiver with millimetre indicator for rotation laser including holder for measuring rod.

- 600-metre work area
- Setting of pitches, controls the RL5-14 via radio communication
- Complete protection against dirt and water
- Large reception window
- Two LCD displays on front and back
- Five sensitivity levels
- Levelling instrument as alignment tool
- Receiver holder for application with a rod
- Three acoustic signal levels



Reception range	120 mm
Display	LED/LCD
IP protection class	IP 67
Rechargeable battery/battery life	50 hours
Type of rechargeable battery/battery	Alkali
Min./max. temperature conditions	-20 to 50 °C
Min./max. storage temperature	-40 to 70 °C
Rechargeable battery/battery designation	1.5 V Mignon AA
Number of rechargeable batteries/batteries	2 PCS

Art. no. 5709 300 451

P. Qty.: 1

Batteries not included

Laser receiver Universal LRU 18

Universal receiver for red and green rotation and line lasers.

- Long range, up to 500 m
- LCD and switchable LED display offer maximum readability
- Can be read from both front and back of receiver
- Adjustable audible signal
- Degree of protection IP 67 (waterproof and dustproof)
- Two strong retaining magnets on the top enable mounting on metallic surfaces.
- With battery level indicator
- Measuring rod holder and battery included in scope of delivery



Max. working range	400 m
Reception range	60 mm
Display	LED, LCD
IP protection class	IP 67
Rechargeable battery/battery life	50 hours
Type of rechargeable battery/battery	AlMn
Min./max. temperature conditions	-10 to 50 °C
Rechargeable battery/battery designation	Mignon AA
Number of rechargeable batteries/batteries	1 PCS

Art. no. 5709 300 452

P. Qty.: 1

Multi-line laser MLLG 18

High-quality, electronic, self-levelling line laser with very clearly visible, green laser lines. Including laser vision goggles and rechargeable battery.

- Electronic self-levelling
- Lines can be switched individually
- Continuous 360° line in horizontal and vertical plane.
- 4 x 90° lines in the vertical plane. 90° angle to the ground.
- Lithium-ion battery pack
- For horizontal and vertical application without having to move the device thanks to soldering function
- Problem-free use in bright light conditions at greater distances in conjunction with the hand receiver
- Can be used in rain, as well as in dust-laden surroundings (protection class IP 55)



Laser category	2M
Levelling measuring accuracy (+/- per length)	1 mm/10m
Self-levelling range (+/-)	4 Degree
Range without receiver	50 m
Range with receiver	80 m
Min. temperature conditions	-10 °C

Continuation **Multi-line laser MLLG 18**

Max. temperature conditions	45 °C
Length	215 mm
Width	150 mm
Height	156 mm
IP protection class	IP 55
Type of rechargeable battery/ battery	Li-Ion

Art. no. 5709 300 110

P. Qty.: 1



Cross line laser CLL 18

Self-levelling cross and line laser for indoor and outdoor use with highly visible red laser lines.

- Excellent visibility of laser lines
- Self-levelling in seconds
- Simple one-button operation
- Can be used over longer distances (with the LRU 18 handheld receiver)
- Level monitoring
- Flexible mounting options with brackets and tripods
- The lithium-ion battery pack enables the device to be used while it is charging.

Laser category	2
Levelling measuring accuracy (+/- per length)	2 mm/10m
Self-levelling range (+/-)	4 Degree
Range without receiver	25 m
Range with receiver	80 m
Min. temperature conditions	-10 °C
Max. temperature conditions	50 °C
Length	115 mm
Width	65 mm
Height	100 mm
IP protection class	IP 54

Continuation **Cross line laser CLL 18**

Type of rechargeable battery/ battery	Li-Ion
Rechargeable battery/battery life	Up to 44 hours

Art. no. 5709 300 021

P. Qty.: 1

Cross line laser CLG 18

Self-levelling cross and line laser for indoor and outdoor use with highly visible green laser lines.

- Excellent visibility of laser lines
- Self-levelling in seconds
- Simple one-button operation
- Can be used over longer distances (with the LRU 18 handheld receiver)
- Level monitoring
- Flexible mounting options with brackets and tripods
- The lithium-ion battery pack enables the device to be used while it is charging.



Laser category	2
Levelling measuring accuracy (+/- per length)	2 mm/10m
Self-levelling range (+/-)	4 Degree
Range without receiver	35 m
Range with receiver	80 m
Min. temperature conditions	-10 °C
Max. temperature conditions	50 °C
Length	110 mm
Width	65 mm
Height	100 mm
IP protection class	IP 54
Type of rechargeable battery/ battery	Li-Ion
Rechargeable battery/battery life	Up to 28 hours

Art. no. 5709 300 041

P. Qty.: 1

Aluminium flat-headed stand

High-quality flat-headed stand for levelling and laser devices

- Made from high-quality anodised aluminium.
- All plastic parts made from high-quality fibreglass-reinforced polyamide
- Ground spikes with inlet tappet
- With horizontal level

Min./max. length	90-170 cm
Connection thread	5/8 inch

Art. no. 0714 649 302

P. Qty.: 1



Aluminium elevator tripod

High-quality aluminium elevator tripod for indoor and outdoor use

- Made from high-quality anodised aluminium
- All plastic parts made from high-quality fibreglass-reinforced polyamide
- The working height is reached smoothly and with millimetre accuracy with the crank handle
- Ground spikes with inlet tappet
- Integrated protective caps that cover the ground spike
- Integrated extension tube for increasing the usage height
- With horizontal level

Min./max. length	95-269 cm
Connection thread	5/8 inch

Art. no. 0714 649 303

P. Qty.: 1



Tile layer laser FLL 13

High-quality line laser with highly visible laser lines for floor layers

- 4 laser lines at 90° angles
- One additional line can be activated
- One-button operation
- Laser lines can be pulsed
- Precise levelling thanks to high-quality levels
- Degree of protection IP 55

Scope of delivery:

Batteries, homing board, protective case, quick start guide, operating instructions

Laser category	2M
Levelling measuring accuracy (+/- per length)	1 mm/m



Continuation **Tile layer laser FLL 13**

Self-levelling range (+/-)	4 Degree
Range without receiver	10 m
Range with receiver	40 m
Min. temperature conditions	-10 °C
Max. temperature conditions	40 °C
Length	115 mm
Width	76 mm
Height	108 mm
IP protection class	IP 54
Type of rechargeable battery/ battery	Alkali
Rechargeable battery/battery life	20 h

Art. no. 5709 300 030

P. Qty.: 1

Laser distance meter WDM 2-18

Handy, precise laser distance meter for measuring lengths and calculating surfaces.

- Simple and fast working
- Very robust
- Accurate measurement of distances with only one person
- Excellent legibility
- Special functions



Max. length measuring range	50 m
Rechargeable battery/battery life	Up to 10000 measurements
Number of rechargeable batteries/batteries	2 PCS
Type of rechargeable battery/ battery	Alkali
Length	116.5 mm
Width	52 mm
Height	26 mm
Min./max. temperature conditions	-10 to 50 °C
Laser wavelength	635 nm
IP protection class	IP 54
Error of measurement for length (+/-)	+/- 1.5 mm

Art. no. 5709 300 522

P. Qty.: 1

Laser range finder WDM 5-12

High-precision, robust laser range finder with inclinometer and compass

- Technical specifications (accuracy ± 1.0 mm, range 80 m) satisfy all the requirements of the new ISO Standard 16331-1
- Large, illuminated display, shock protection through extra-thick soft components
- 8-point compass, 360° tilt sensor, automatic detection of end position, tripod screw allows for precise measuring from the tripod

Functions

- Area calculation
- Volume calculation
- Cubic dimensions
- Tracking (permanent measurement)
- Pythagorean theorem
- Delimiting function
- Timer
- Inclinometer
- Memory (20 locations)
- Compass



Rechargeable battery/battery life	up to 5000 measurements
Number of rechargeable batteries/batteries	2 PCS
Length	130 mm
Width	61 mm
Height	31 mm
Min./max. temperature conditions	-10 to 50 °C
Laser wavelength	635 nm
IP protection class	IP 65
Error of measurement for length (+/-)	+/- 1 mm

Art. no. 5709 300 510

P. Qty.: 1

Laser range finder WDM 8-14

Highly-precise distance measuring unit according to ISO standard 16331-1

- Built-in colour camera enables digital target acquisition, target finder with 4x zoom
- Numerous indirect measuring options and spirit levels
- Protects against dust and splash water

Functions

- Minimum/maximum measurement
- Area/volume
- Triangle/solid angle
- Trapezoidal measurement
- Pythagorean theorem
- Tracking/inclination
- Height profile measurement
- Delimiting function
- Addition/subtraction
- Pocket calculator



Scope of delivery

One each of laser range finder WDM 8-14, belt holster, operating instructions on CD, quick-start guide

Max. length measuring range	200 m
Rechargeable battery/battery life	up to 5000 measurements
Number of rechargeable batteries/batteries	2 PCS
Type of rechargeable battery/battery	Alkali
Length	143 mm
Width	58 mm
Height	29 mm
Min./max. temperature conditions	-10 to 50 °C
Laser wavelength	635 nm
IP protection class	IP 54
Error of measurement for length (+/-)	+/- 1 mm

Art. no. 5709 300 515

P. Qty.: 1

Data transmission to iPhone and iPad

The measured values can be transmitted to the iPad or iPhone via the Bluetooth smart function using the free Würth app.

Elevator tripod

For rangefinder

Min./max. length	63.5-170 cm
Connection thread	1/4 inch

Art. no. 0714 649 210

P. Qty.: 1



Position finder MD 12

Digital position finder for locating metal, wood and electrical cables

- Automatic calibration
- Effortlessly locate energised and non-energised cables
- Clear borehole guides
- Illuminated display
- 3 detection modes: Dry construction mode, metal mode, mode for energised cables

Max. detection depth	120 mm
Steel detection depth	120 mm
Copper detection depth	80 mm
Current-carrying line detection depth	50 mm
Wooden substructure detection depth	38 mm
Automatic switch-off	5min
Rechargeable battery/battery designation	9 V block; 6LR61; 6AM6
Number of rechargeable batteries/batteries	1 PCS
Length	200 mm
Width	85 mm
Height	32 mm



Art. no. 5709 300 800

P. Qty.: 1

Folding rule

Fibreglass-reinforced, high-quality folding rule for the very toughest jobs

- Fibreglass-reinforced polyamide, indented black graduation in 1 mm increments
- Every tenth number is embossed in red, 90° joint locking, joints with spring rod for even tension
- Can be read from both sides thanks to a backwards-running scale, rule conforms to EEC precision class 3



Continuation **Folding rule**

Max. length measuring range	2 m
Length of link (pivot point)	200 mm
Length (folded up) x width (folded up) x height	235 x 32 x 15 mm

Art. no. 0715 64 605

P. Qty.: 3

Pocket tape measure

High-quality measuring rule with rubberised housing

- Housing made from rubberised, impact-resistant plastic
- Easy to read
- Movable end hooks



Max. length measuring range (L max)	3 m
Width of band (b)	16 mm
Material of the housing	Plastic
Accuracy class	II
Maximum extension before the tape bends (vertical)	2.2 m

Art. no. 0714 64 530

P. Qty.: 1

Corresponds to accuracy class II

Pocket tape measure

High-quality tape measure with plastic housing for simple measuring of all measuring ranges.

- Automatic tape retraction, movable end hooks
- Complies with EC accuracy class II
- Removable belt clip



Material of the housing	ABS
Accuracy class	II

Max. length measuring range (L max)	Width of band (b)	Design	Art. no.	P. Qty.
3 m	16 mm		0714 64 566	1
5 m	25 mm		0714 64 567	1
5 m	25 mm	With magnetic end hook	0714 64 569	1
8 m	25 mm		0714 64 568	1

Pocket tape measure 1C-PT18

High-quality and handy pocket tape measure with impact-resistant plastic housing and yellow painted tape.

- With 2-component lock button, belt clip and wrist strap
- Movable end hooks for internal and external measurements
- Meets EC precision class 2



Material of the housing	Plastic
Accuracy class	II

Max. length measuring range (L max)	Width of band (b)	Maximum extension before the tape bends (vertical)	Art. no.	P. Qty.
2 m	16 mm	220 cm	0714 65 002	1/10
3 m	16 mm	220 cm	0714 65 003	1/10
5 m	19 mm	240 cm	0714 65 005	1/10
8 m	25 mm	3.6 m	0714 65 008	1/10

Tape rule, compact

Sturdy and handy tape measure for professionals

Polyamide capsule

Low weight and high strength

All metallic parts made from stainless steel

Long service life

Crank handle released via a button

Start of tape on front edge of the fitting

Easy measuring at corners

Corresponds to EC accuracy class II



Length of tape (L)	15 m
Width of band (B)	10 mm
Accuracy class	II

Art. no. 0714 641 115

P. Qty.: 1

Steel enclosed tape measure

Complete with 3:1 crank ratio for retracting the tape three times faster

- Painting white with millimetre pitch and metre markers, high abrasion resistance and long service life thanks to the tape's special coating
- The plastic reinforcement prevents the end of the tape from kinking or becoming scratched
- Must be lined up flush, e.g. to a table edge, using the folding plastic anchor



Width of band (B)	13 mm
Accuracy class	II

Continuation **Steel enclosed tape measure**

Length of tape (L)	Art. no.	P. Qty.
10 m	0714 641 601	1
20 m	0714 641 602	1
30 m	0714 641 603	1

Odometer

For distance measurement on construction sites and at roadworks

- High-quality counter, „Made in Germany“
- Dust- and splash-proof
- Backward counting possible
- Sturdy solid wheel in die cast aluminium for maximum running smoothness.
- Fold-out support
- Integrated brake prevents measuring errors.
- Folding guide rod
- All-round rubber precisely ground to 318.5 mm diameter – corresponds to precisely 1 m circumference.
- Every measuring wheel individually inspected and provided with inspection labels.
- Robot-welded frame – for consistent quality.
- Together with rail adapter, also suitable for rail measurements (not included in scope of delivery).
- Including storage bag



Wheel circumference	1 m
Wheel diameter	318.5 mm
Measuring accuracy	< 0.05%
Max. length measuring range	9999.99 m
Material	Aluminium diecasting
Weight	3900 g

Art. no. 0993 714 004

P. Qty.: 1



Hand-held rivet pliers

For processing Ø 2.4 mm, 3 mm and 4 mm blind rivets made of aluminium, copper, steel and stainless steel and Ø 5 mm blind rivets made of aluminium.

Min./max. rivet diameter	2.4-4 mm
Material	Steel
Weight	590 g



Art. no. 0915 12

P. Qty.: 1

Hand-held rivet pliers

With long nozzle for processing 3.2 mm, 4 mm, 4.8 mm diameter blind rivets in aluminium, copper, steel and stainless steel.

- Length of chuck mount incl. chuck: 52 mm
- Diameter of chuck mount: 19 mm

Min./max. rivet diameter	3.2-4.8 mm
Material	Steel



Art. no. 0915 11

P. Qty.: 1

Hand-held rivet pliers

For processing Ø 2.4 mm, 3 mm and 4 mm blind rivets in aluminium, copper, steel and stainless steel and Ø 5 mm blind rivets in aluminium



- Weight: 590 g
- Total length: 260 mm

Min./max. rivet diameter	4-2.4 mm
Material	Steel

Art. no. 0949 15

P. Qty.: 1

Chuck for hand-held rivet pliers

Material	Steel
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Diameter of hole	Length	Surface	Art. no.	P. Qty.
1.7 mm		Zinc plated	0946 10 18	1
2.2 mm		Zinc plated	0915 140	1
2.3 mm	7.5 mm	Zinc plated	0946 10 24	1
2.9 mm		Zinc plated	0946 10 29	1
3.2 mm		Zinc plated	0946 10 32	1
3.3 mm		Zinc plated	0915 150	1

Hand-held rivet pliers with rotating head

Complete with carrying case
Head rotatable by 360°

Contents:

- Hand rivet tool
- Thread mandrel with nozzle for rivet nuts
M3, M4 and M5
- Chuck with rivet diameter
2.4 mm, 3.0 mm, 3.2 mm and 4.0 mm
- Adapter set for cavity anchor
- Installation key



Min./max. rivet diameter	2.4-4 mm
Material	Steel
Colour	Black
Weight	1950 g
Surface	Lacquered

Art. no. 0949 16

P. Qty.: 1

Nozzle for lever riveter HNG 26/28

Material	Steel
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Suitable for rivet diameter	Diameter of hole	Length	Surface	Art. no.	P. Qty.
	3 mm	13.5 mm	Anodised	0946 569 32	1
	3.1 mm	16.1 mm	Anodised	0946 569 50	1
4 mm	2.7 mm	14.9 mm	Anodised	0946 569 40	1
6 mm	3.7 mm	18.1 mm	Anodised	0946 569 60	1
6.4 mm	4.6 mm			0946 56 880	1
6.4 mm	4.7 mm	19.1 mm	Anodised	0946 569 880	1

Pneumatic rivet nut unit PEG 312

The smallest, most lightweight pneumatic rivet nut unit for fast and easy processing of rivet nuts made of aluminium, steel and stainless steel in diameter dimensions M3–M12

- Tool-free quick-change system for threaded mandrels
- with clear stroke scale
- Modern, lightweight design
- Automatic drill-in and drill-out system for rivet nuts
- Hanging hook for stationary work
- Deactivation option for 360° air supply
- Additional drill-off button at the back of the casing



Working pressure	7 bar
Stroke length	7 mm
Length	260 mm
Width	85 mm
Height	280 mm

Art. no. 0703 937 55

P. Qty.: 1

- Threaded mandrels and mouthpieces not included in delivery
- For processing stainless steel rivet nuts up to M10



Hand-held rivet setting pliers assortment HES 412

16 pieces in system box 8.4.1. Hand-held rivet setting pliers with quick-change system for processing blind rivet nuts and M4 - M12 bolts.

- Requires less force compared to manual setting pliers
- Quick-change system for mandrels and sleeves
- Clear stroke scale
- Colour coding system for nozzles

Min./max. diameter of rivet-nut thread	4-12 mm
System dimensions	8.4.1
Min./max. rivet diameter	2.4-6.4 mm
Min. diameter of rivet-nut thread	4 mm



Art. no. 5964 094 803

P. Qty.: 1

Hand rivet tool combination assortment

15 pieces in system case. For use with blind rivets and rivet nuts.

Min./max. diameter of rivet-nut thread	4-10 mm
System dimensions	8.4.1
Min./max. rivet diameter	3.2-6.4 mm
Min. diameter of rivet-nut thread	4 mm

Art. no. 5964 949 400

P. Qty.: 1



Hand-held riveting device

Without pin and sleeve

Art. no. 0948 900

P. Qty.: 1



Thread mandrel

Material	Steel
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Thread type x nominal diameter	Nominal diameter	Art. no.	P. Qty.
M4	4 mm	0949 904	1
M5	5 mm	0949 905	1
M6	6 mm	0949 906	1
M8	8 mm	0949 908	1
M10	10 mm	0949 910	1
M12	12 mm	0949 912	1

Thread mandrel for PEG 312



Nominal diameter	Art. no.	P. Qty.
3 mm	0948 937 3	1
4 mm	0948 937 4	1
5 mm	0948 937 5	1
6 mm	0948 937 6	1
8 mm	0948 937 8	1
10 mm	0948 937 10	1
12 mm	0948 937 12	1

Rivet nut pliers

Hand rivet tool with nozzle quick-change system for use with M3 to M8 rivet nuts (limitations in the M8 range)

Length	276 mm
Product weight (per item)	750 g



Art. no. 0917 101

P. Qty.: 1



Thread mandrel

With nozzle, for all rivet nuts with round pan and countersunk heads of articles with prefix number 0948

Material	Steel
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Thread type x nominal diameter	Nominal diameter	Suitable for thread	Art. no.	P. Qty.
M3	3 mm	M3	0917 948 30	1
M4	4 mm	M4	0917 948 40	1
M5	5 mm	M5	0917 948 50	1
M6	6 mm	M6	0917 948 60	1
M8	8 mm	M8	0917 948 80	1

Conduct your own tests before using non-Würth rivet nuts.

Attention! The use of the M8 thread mandrel is limited to the rivet nuts listed as accessories.

Thread mandrel

With nozzle for rivet nuts with small countersunk heads



Thread type x nominal diameter	Nominal diameter	Art. no.	P. Qty.
M3	3 mm	0917 130	1
M4	4 mm	0917 140	1
M5	5 mm	0917 150	1
M6	6 mm	0917 160	1
M8	8 mm	0917 180	1

Conduct your own tests before using non-Würth rivet nuts.
 Attention! The use of the M8 thread mandrel is limited to the rivet nuts listed as accessories.

Threaded mandrel with chuck

Suitable for rivet nut pliers 0917 1

Material	Steel
Surface	Zinc plated



Thread type x nominal diameter	Nominal diameter	Suitable for thread	Art. no.	P. Qty.
M3	3 mm	M3	0917 13	1
M4	4 mm	M4	0917 14	1
M5	5 mm	M5	0917 15	1
M6	6 mm	M6	0917 16	1
M8	8 mm	M8	0917 18	1

Conduct your own tests before using non-Würth rivet nuts.

Threaded mandrel with chuck

Suitable for rivet nut pliers 0917 1

Material	Steel
Surface	Zinc plated



Thread type x nominal diameter	Nominal diameter	Art. no.	P. Qty.
M3	3 mm	0917 948 3	1
M4	4 mm	0917 948 4	1
M5	5 mm	0917 948 5	1
M6	6 mm	0917 948 6	1
M8	8 mm	0917 948 8	1

Conduct your own tests before using non-Würth rivet nuts.

Rivet nut setting pliers HES 510 N

Manual rivet nut setting pliers with twisted rod and quick-change system for working with threaded rivet nuts (M5-M10) and rivet screws (M5-M8).



- Quick-change system
- Thread mandrels with colour-coding system
- Easy stroke adjustment
- Ergonomic hand lever design
- Thread mandrels are pre-mounted on the hand levers
- With pin collector and installation key for thread mandrels

Length	500 mm
Height	50 mm
Width	160 mm
Product weight (per item)	3850 g

Art. no. 0948 880

P. Qty.: 1

Rivet nut setting pliers HES 512 D with twisted rod

Rivet nut setting pliers with patented force transmission for processing M5–M12 rivet nuts.



- 60% less force required when setting rivet nuts compared to conventional hand-held rivet pliers on the market
- Patented tool-free quick-change system for threaded mandrels
- For processing aluminium, steel and stainless steel rivet nuts
- Clear stroke scale
- Supplied in robust metal case
- Threaded mandrels and chucks identical to rivet nut setting pliers HES 512

Length	550 mm
Product weight (per item)	5144 g

Art. no. 0948 870

P. Qty.: 1



Hammer tacker ST 19 Ergonomic

Light-weight professional hammer tacker for staples up to 6 mm long

- Balanced weight distribution
- Rebounding head
- Ergonomic handle for fatigue-free operation
- Hinged magazine for 156 staples

Magazine capacity	156 PCS
Suitable for min./max. staple length	4-6 mm

Art. no. 0714 819

P. Qty.: 1

Hammer tacker ST 54

Robust professional tacker with ergonomic handle for staples up to 14 mm long

- Balanced weight distribution
- Rebounding head
- Slip-proof, ergonomic handle
- Large magazine for 168 staples (2 full sticks)
- Wide impact face protects the material being stapled



Magazine capacity	168 PCS
Suitable for min./max. staple length	10-14 mm

Art. no. 0714 854

P. Qty.: 1



Manual stapler HT 34

High-performance manual stapler for staples up to 14 mm long

- Adjustable impact force (max. and min.)
- Recoil-free
- Large magazine for 84 staples
- Rapid loading
- High operational safety

Staple length	6 mm, 8 mm, 10 mm, 12 mm, 14 mm
Suitable for min./max. staple length	6-14 mm
Magazine capacity	84 PCS

Art. no. 0714 834

P. Qty.: 1

Manual stapler HT 53

High impact strength for thinner materials

- Convenient handling
- Recoil-free
- Large magazine for approx. 156 staples
- Simple loading
- High operational safety



Staple length	4 mm, 6 mm, 8 mm, 10 mm
Suitable for min./max. staple length	4-10 mm
Magazine capacity	156 PCS

Art. no. 0714 853

P. Qty.: 1

Staples for hammer stapler

Plain steel

Width (b _i)	10.5 mm
Nominal diameter	0.7 mm
Material	Steel
Surface	Plain



Length (l _i)	Art. no.	P. Qty.
6 mm	0480 113 006	5000
8 mm	0480 113 008	5000

Staples for hand-held and hammer stapler

For universal use for all appropriate staplers

Width (b _i)	10.6 mm
Nominal diameter	1.25 mm
Material	Steel
Surface	Zinc plated



Length (l _i)	Art. no.	P. Qty.
6 mm	0480 140 006	5000
8 mm	0480 140 008	5000
10 mm	0480 140 010	5000
12 mm	0480 140 012	5000
14 mm	0480 140 014	5000

Staples for hand-held stapler

Plain steel

Suitable for hand-held stapler HT53, art. no. 0714853



Width (b ₁)	11.4 mm
Nominal diameter	0.75 mm
Material	Steel
Surface	Zinc plated

Length (l ₁)	Art. no.	P. Qty.
6 mm	0480 153 006	5000
8 mm	0480 153 008	5000
10 mm	0480 153 010	5000



Recoil-free hammer

Housing filled with steel shot

- Nylon striking inserts
- On striking, the steel shot delivers additional impact
- No force lost to recoil

Length	Hammer weight	Art. no.	P. Qty.
350 mm	400 g	0715 72 52	1
375 mm	700 g	0715 72 54	1
385 mm	1000 g	0715 72 56	1
420 mm	1650 g	0715 72 58	1

Simplex soft face hammer

Steel housing

- Impact inserts and handle rapidly replaceable
- Inserts and handle immovably secured
- Soft face hammer with custom equipment
- Impact insert combination creates 2-in-1 soft face hammer
- Includes inserts: Black rubber composition and red plastic



Material	Steel
Material of the handle	Wood

Length of handle	Length	Hammer weight	Art. no.	P. Qty.
278 mm	330 mm	655 g	0715 72 10	1
312 mm	365 mm	1130 g	0715 72 20	1
335 mm	400 mm	1580 g	0715 72 27	1
395 mm	500 mm	3080 g	0715 72 28	1
700 mm	800 mm	3290 g	0715 72 29	1

Impact insert



Material	Design	Hammer head insert diameter (Ø)	Art. no.	P. Qty.
Metal	Heat-resistant	40 mm	0715 72 16	2
Metal	Heat-resistant	50 mm	0715 72 26	2
Nylon (polyamide)	Grease- and oil-resistant	40 mm	0715 72 15	2
Nylon (polyamide)	Grease- and oil-resistant	50 mm	0715 72 25	2
Plastic	Acid- and alkali-resistant	60 mm	0715 72 274	2
Plastic	Acid- and alkali-resistant	80 mm	0715 72 284	2
Plastic	Grease- and oil-resistant	40 mm	0715 72 13	2
Plastic	Grease- and oil-resistant	50 mm	0715 72 23	2
Rubber	Shore hardness approx. 95 A	40 mm	0715 72 14	2
Rubber	Shore hardness approx. 95 A	50 mm	0715 72 24	2
Rubber	Shore hardness approx. 95 A	60 mm	0715 72 275	2
Rubber	Shore hardness approx. 95 A	80 mm	0715 72 285	2

Hammer handle for Simplex soft-face hammer

Material	Wood
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Length	Hammer head insert diameter (Ø)	Art. no.	P. Qty.
278 mm	40 mm	0715 72 12	1
312 mm	50 mm	0715 72 22	1
335 mm	60 mm	0715 72 271	1
395 mm	80 mm	0715 72 281	1
700 mm	80 mm	0715 72 291	1

Impact insert for recoil-free hammer



Hammer head insert diameter (Ø)	Art. no.	P. Qty.
30 mm	0715 72 53	2
40 mm	0715 72 55	2
50 mm	0715 72 57	2
60 mm	0715 72 59	2

Simplex soft face hammer

Aluminium housing

- The light aluminium housing means the hammer is only slightly top-heavy, allowing a targeted striking action
- Major weight advantage over conventional soft face hammers
- The large diameter of the inserts compared to the housing prevents off-target impacts from damaging the workpiece
- Impact inserts do not stain
- 2 hammers in 1 with 2 different impact inserts



Material of the handle	Wood
Length of handle	278 mm
Length	325 mm

Art. no. 0715 72 30

P. Qty.: 1

Secural soft face hammer

Recoil-free soft-face hammer for corners, edges and surfaces for which hammers with round impact inserts are unsuitable.

- Shaped, sheet steel housing
- Ergonomic rubber handle
- Replaceable inserts in yellow polyurethane



Material of the handle	Steel-pipe reinforced rubber
Hammer head insert length x hammer head insert width	30 x 40 mm
Length of handle	278 mm
Length	300 mm
Hammer weight	655 g

Art. no. 0715 72 35

P. Qty.: 1

Machinists' hammer

German type in line with DIN 1041, double-curved ash handle

- Electro-inductively hardened
- Double-curved, varnished ash handle
- Handle secured by ring wedge sealed with synthetic resin



Hammer weight	Length (L)	Art. no.	P. Qty.
100 g	260 mm	0715 731 10	1
200 g	280 mm	0715 731 20	1
300 g	300 mm	0715 731 30	1
400 g	310 mm	0715 731 40	1
500 g	320 mm	0715 731 50	1
800 g	350 mm	0715 731 80	1
1000 g	360 mm	0715 731 100	1
1500 g	380 mm	0715 731 150	1
2000 g	400 mm	0715 731 200	1

Ash handle

- Double scutch
- Varnished
- Good handling
- Long service life



Material	Ash
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Length	Art. no.	P. Qty.
260 mm	0715 735 10	5
280 mm	0715 735 20	5
300 mm	0715 735 30	5
310 mm	0715 735 40	5
320 mm	0715 735 50	5
330 mm	0715 735 60	5
350 mm	0715 735 80	5
360 mm	0715 735 100	5
380 mm	0715 735 150	5
400 mm	0715 735 200	5



Machinists' hammer with protective handle sheath

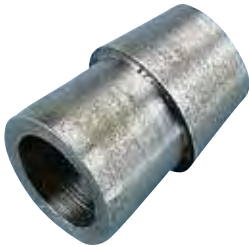
German type in line with DIN 1041 with double-curved hickory handle

- With robust protective handle sheath

Hammer weight	Length (L)	Art. no.	P. Qty.
200 g	280 mm	0715 73 20	1
300 g	300 mm	0715 73 30	1
500 g	320 mm	0715 73 50	1
800 g	350 mm	0715 73 80	1
1000 g	360 mm	0715 73 100	1

Ring wedge

Material	Steel
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Area of application of ring wedge	Art. no.	P. Qty.
100 - 200 g	0715 736 01	5
250 - 300 g	0715 736 02	5
400 - 500 g	0715 736 03	5
600 g	0715 736 04	5
800 g	0715 736 05	5
1000 g	0715 736 06	5
1250 - 10000 g	0715 736 07	5

Double-curved hickory handle

Material	Hickory
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Length	Art. no.	P. Qty.
280 mm	0714 730 102	1
300 mm	0714 730 103	1
320 mm	0714 730 105	1
350 mm	0714 730 108	1
360 mm	0714 730 110	1

Machinist's hammer with plastic handle

Robust 3-component hammer handle for use in the toughest conditions

- Aluminium alloy handle core
- Polyamide component is permanently bonded to hammer head.
- Additional protection by means of a steel wedge
- Soft handle in non-slip, thermoplastic rubber



Hammer weight	Length (L)	Art. no.	P. Qty.
300 g	287 mm	0714 732 403	1
500 g	316 mm	0714 732 405	1
1000 g	360 mm	0714 732 410	1
1500 g	380 mm	0714 732 412	1
2000 g	400 mm	0714 732 415	1

Club hammer

Robust 3-component handle for use in the toughest conditions

- Sturdy and easy to handle under high-stress conditions
- German type in line with DIN 6475



Hammer weight	Length (L)	Art. no.	P. Qty.
1000 g	260 mm	0714 734 510	1
1500 g	280 mm	0714 734 515	1
2000 g	300 mm	0714 734 520	1

Club hammer

German type in line with DIN 6475, double-curved ash handle



Hammer weight	Length (L)	Art. no.	P. Qty.
1000 g	260 mm	0715 732 100	1
1250 g	260 mm	0715 732 125	1
1500 g	280 mm	0715 732 150	1
2000 g	300 mm	0715 732 200	1

Copper hammer

Mallet shape, with double-curved hickory handle



Hammer weight	Length	Art. no.	P. Qty.
250 g	280 mm	0715 733 020	1
500 g	310 mm	0715 733 050	1
750 g	320 mm	0715 733 070	1
1000 g	350 mm	0715 733 100	1

Sledgehammer

German type in line with DIN 1042, with ash handle

Material	Steel
Material of the handle	Wood



Hammer weight	Length of handle	Art. no.	P. Qty.
3000 g	600 mm	0715 732 300	1
4000 g	700 mm	0715 732 400	1
5000 g	800 mm	0715 732 500	1
6000 g	800 mm	0715 732 600	1
8000 g	800 mm	0715 732 800	1
10000 g	900 mm	0715 732 900	1

Ash handle

Material	Ash
----------	-----



Length	Art. no.	P. Qty.
600 mm	0715 735 300	1/5
800 mm	0715 735 500	1/5
900 mm	0715 735 900	1/5

Double-curved ash handle

Material	Ash
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Length	Art. no.	P. Qty.
260 mm	0715 735 01	1/5
280 mm	0715 735 02	1/5
300 mm	0715 735 03	1/5

Nail puller

With hexagonal shaft

Special tool steel

Long service life

Hardened working ends

Low wear

Red powder-coated



Length (L)	Art. no.	P. Qty.
600 mm	0714 63 47	1
800 mm	0714 631 080	1

Claw hammer C45

For aligning finished concrete parts etc.



Length	Art. no.	P. Qty.
1250 mm	0993 997 028	2
1500 mm	0993 000 111	2

Splitting maul

With premium ash handle for chopping and splitting tasks

- Sharpened and polished blade



Product weight (per item)	3200 g
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Art. no. 0714 725 970

P. Qty.: 1

Rubber mallet Type A

DIN 5128

- Both hammer faces flat
- Varnished ash handle



Diameter (Ø)	Length of head	Length of handle	Art. no.	P. Qty.
65 mm	115 mm	340 mm	0715 734 08	1
90 mm	135 mm	380 mm	0715 734 009	1

Roofing hammer

Professional roofer's hammer for the most exacting demands

- High power transmission and long service life thanks to chromium-steel tube handle
- Precision-ground hammer head
- High-quality claw manufacture makes it possible to pull out small and large nails
- Cross-roughened strip prevents slipping upon impact
- With magnetic nail holder



Hammer weight	600 g
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Art. no. 0714 733 030

P. Qty.: 1

Roofing hammer

German design in line with DIN 7239 with nail groove

- Die-forged and hardened hammer head, black powder-coated
- Crosswise ribbed striking surface
- Non-slip plastic handle and firmly pressed-in, hardened steel tube handle



Hammer weight	600 g
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Art. no. 0715 733 01

P. Qty.: 1



Roofer's hammer

With magnetic nail holder

- Die-forged and hardened hammer head, black powder-coated
- Crosswise ribbed striking surface
- Non-slip plastic handle and firmly pressed-in, hardened steel tube handle

Hammer weight	600 g
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		Art. no.	P. Qty.
		0714 733 02	1
		0715 733 02	1

Brick hammer

Berlin type

- High-quality steel tube handle
- Nail puller

Material	Steel
Hammer weight	600 g
Length	320 mm



Art. no. 0715 733 04

P. Qty.: 1

Joint chisel

Flat oval

- Chromium-vanadium air hardening steel
- Hardened safety hammer
- Full length of shaft hardened
- Regrindable blade
- Oil-resistant PVC handles
- Rebound impacts are absorbed by the handle
- Octagonal handle



Length	250 mm
Striking-surface width	13 mm
Striking-surface length x width	26 x 13 mm
Cutting edge width	50 mm

Art. no. 0714 63 37

P. Qty.: 1

Bodywork chisel

Flat oval

- Chromium-vanadium air hardening steel
- Hardened safety hammer
- Full length of shaft hardened
- Regrindable blade
- Oil-resistant PVC handles
- Rebound impacts are absorbed by the handle
- Octagonal handle



Length	230 mm
Cutting edge width	26 mm
Striking-surface length x width	26 x 7 mm

Art. no. 0714 63 35

P. Qty.: 1

Stone chisel

Octagonal

- Chromium-vanadium air hardening steel
- Hardened safety hammer
- Full length of shaft hardened
- Regrindable blade
- Oil-resistant PVC handles
- Rebound impacts are absorbed by the handle
- Octagonal handle



Length	300 mm
Cutting edge width (S)	26 mm
Striking-surface diameter (a)	18 mm

Art. no. 0714 63 36

P. Qty.: 1

Electrician's chisel

- Chromium-vanadium air hardening steel
- Hardened safety hammer
- Full length of shaft hardened
- Regrindable blade
- Oil-resistant PVC handles
- Rebound impacts are absorbed by the handle
- Octagonal handle



Length	Cutting edge width (S)	Striking-surface diameter (a)	Art. no.	P. Qty.
200 mm	8 mm	6 mm	0714 63 60	1/10
200 mm	10 mm	8 mm	0714 63 61	1/10
250 mm	10 mm	8 mm	0714 63 62	1/10
250 mm	12 mm	10 mm	0714 63 63	1/10
300 mm	12 mm	10 mm	0714 63 64	1/10
300 mm	15 mm	12 mm	0714 63 65	1/10

Flat chisel In line with DIN 6453

Tempered hammer head



Length	Art. no.	P. Qty.
125 mm	0714 63 01	1/10
150 mm	0714 63 02	1/10
175 mm	0714 63 03	1/5/10
200 mm	0714 63 04	1/10
250 mm	0714 63 05	1/10
300 mm	0714 63 06	1/10

Stone or bricklayer's chisel Acc. to DIN 7254, type B

With hardened hammer head



Length	Cutting edge width (S)	Striking-surface diameter (a)	Art. no.	P. Qty.
200 mm	22 mm	14 mm	0714 63 109	1/10
300 mm	24 mm	16 mm	0714 63 11	1/10
400 mm	28 mm	18 mm	0714 63 12	1/10

Pin punch

2-component plastic handle

Ergonomically shaped 2-component handle

Secure grip, effortless work

Vibration protection

The handle dampens impact vibrations and oscillations

Impact protection

Prevents injuries to the hand

Made from hardened tool steel

Long service life

Hardness at working end 54–58 HRC

Hardness on hammer head 38–46 HRC



Length (L)	150 mm
Striking-surface diameter (S)	10 mm

Width of tip (d)	Art. no.	P. Qty.
2 mm	0714 63 252	1
3 mm	0714 63 253	1
4 mm	0714 63 254	1
5 mm	0714 63 255	1
6 mm	0714 63 256	1

Pin punch

In accordance with DIN 6450, shape C with hardened impact head

Chrome vanadium air hardening steel

Tempered safety impact heads

Prevents impact head from deforming or fracturing

Fully hardened shaft

Particularly tough and wear resistant



Length (L)	Blade length (L2)	Width of tip (d)	Striking-surface diameter (S)	Art. no.	P. Qty.
150 mm	30 mm	2 mm	10 mm	0714 63 25	1
150 mm	30 mm	2.5 mm	10 mm	0714 63 26	1
150 mm	40 mm	3 mm	10 mm	0714 63 27	1
150 mm	50 mm	4 mm	10 mm	0714 63 28	1
150 mm	50 mm	5 mm	10 mm	0714 63 29	1
150 mm	50 mm	6 mm	10 mm	0714 63 30	1
150 mm	50 mm	8 mm	12 mm	0714 63 31	1
150 mm	50 mm	10 mm	12 mm	0714 63 32	1
175 mm	80 mm	4 mm	10 mm	0714 63 33	1

Pin punch set

6-piece set

Chromium-vanadium air hardening steel

Tempered safety hammer heads

Prevents hammer head from developing bulges or splintering

Full length of shaft hardened

Particularly tough and wear-resistant as a result

According to DIN 6450, type C

Tempered hammer head

Contents: 6 pin punches, sizes 2, 3, 4, 5, 6, 8



Number of pieces in assortment/set	6 PCS
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Art. no. 0714 63 41

P. Qty.: 1

Contents for art. no. 0714 63 41		
Designation	Art. no.	Quantity
Pin punch Width of tip 2 mm	0714 63 25	1
Pin punch Width of tip 3 mm	0714 63 27	1
Pin punch Width of tip 4 mm	0714 63 28	1
Pin punch Width of tip 5 mm	0714 63 29	1
Pin punch Width of tip 6 mm	0714 63 30	1
Pin punch Width of tip 8 mm	0714 63 31	1

Pin punch, large dimensions

2-component plastic handle

Ergonomically shaped 2C handle

- Secure grip
- Effortless work

Vibration protection

The handle dampens impact vibrations and oscillations

Impact protection

Prevents injuries to the hand

Made from hardened tool steel

Long service life

Hardness at working end: 54 – 58 HRC

Hardness at hammer head: 38 – 46 HRC



Length (L)	Width of tip (d)	Striking-surface diameter (S)	Art. no.	P. Qty.
230 mm	8 mm	10 mm	0714 63 308	1
240 mm	10 mm	10 mm	0714 63 310	1
260 mm	12 mm	10 mm	0714 63 312	1
280 mm	14 mm	15 mm	0714 63 314	1
290 mm	16 mm	15 mm	0714 63 316	1

Pin punch assortment

5-piece assortment with Ø 2–6 mm

- Ergonomically shaped 2-component handle
- Vibration protection
- Impact protection
- Made from hardened tool steel
- Hardness at working end 54 - 58 HRC
- Hardness at hammer head 38 - 46 HRC



Number of pieces in assortment/set	5 PCS
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Art. no. 0714 63 259

P. Qty.: 1



Contents for art. no. 0714 63 259

Designation	Art. no.	Quantity
Pin punch Width of tip 2 mm	0714 63 252	1
Pin punch Width of tip 3 mm	0714 63 253	1
Pin punch Width of tip 4 mm	0714 63 254	1
Pin punch Width of tip 5 mm	0714 63 255	1
Pin punch Width of tip 6 mm	0714 63 256	1

Pin punch set, large dimensions

5 pcs., 2-component plastic handle

- Ergonomically shaped 2-component handle
- Vibration protection
- Impact protection
- Made from hardened tool steel
- Hardness on hammer head: 54 - 58 HRC
- Hardness at hammer head: 38 - 46 HRC



Contents:

- Pin punch, length 230 mm, Ø 8 mm
- Pin punch, length 240 mm, Ø 10 mm
- Pin punch, length 260 mm, Ø 12 mm
- Pin punch, length 280 mm, Ø 14 mm
- Pin punch, length 290 mm, Ø 16 mm

Number of pieces in assortment/set	5 PCS
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Art. no. 0714 63 320

P. Qty.: 1

Contents for art. no. 0714 63 320		
Designation	Art. no.	Quantity
Pin punch, large dimensions Width of tip=8 mm	0714 63 308	1
Pin punch, large dimensions Width of tip=10 mm	0714 63 310	1
Pin punch, large dimensions Width of tip=12 mm	0714 63 312	1
Pin punch, large dimensions Width of tip=14 mm	0714 63 314	1
Pin punch, large dimensions Width of tip=16 mm	0714 63 316	1

Bevelled-edge chisel

- High-quality chrome vanadium blades, prevents cutting edges from chipping
- Consistent hardness of 60–61 HRC guarantees high edge retention and optimum effective lengths of blades
- Blades are polished and protected against corrosion with clear lacquer
- The wooden handle is made from hornbeam and varnished nut brown



Width of knife blade	Art. no.	P. Qty.
2 mm	0715 653 02	1
4 mm	0715 653 04	1
6 mm	0715 653 06	1
8 mm	0715 653 08	1
10 mm	0715 653 10	1
12 mm	0715 653 12	1
14 mm	0715 653 14	1
16 mm	0715 653 16	1
18 mm	0715 653 18	1
20 mm	0715 653 20	1
22 mm	0715 653 22	1
24 mm	0715 653 24	1
26 mm	0715 653 26	1
28 mm	0715 653 28	1
30 mm	0715 653 30	1
32 mm	0715 653 32	1
35 mm	0715 653 35	1
40 mm	0715 653 40	1

Produced in line with DIN 5139

Bevelled-edge chisel assortment

6-piece assortment with high-quality, polished and clear-varnished chromium-vanadium blades and wooden handle.

- High-quality chrome vanadium blades, prevents cutting edges from chipping
- Consistent hardness of 60–61 HRC guarantees high edge retention and optimum effective lengths of blades
- Blades are polished and protected against corrosion with clear lacquer
- The wooden handle is made from hornbeam and varnished nut brown



Art. no. 0715 653 001

P. Qty.: 1

Produced in line with DIN 5139

Bevelled-edge chisel

2-component handle for maximum resistance in line with DIN 5139

- Ergonomically shaped 2-component handle
- Metal striking cap
- Polished chromium-vanadium blade



Width of knife blade	Art. no.	P. Qty.
10 mm	0715 653 410	1/6
12 mm	0715 653 412	1/6
14 mm	0715 653 414	1/6
16 mm	0715 653 416	1/6
18 mm	0715 653 418	1/6
20 mm	0715 653 420	1/6
22 mm	0715 653 422	1/6
24 mm	0715 653 424	1/6
26 mm	0715 653 426	1/6
30 mm	0715 653 430	1/6
35 mm	0715 653 435	1/6
40 mm	0715 653 440	1/6

Bevelled-edge chisel set

6 pieces. 2-component handle for maximum loads in line with DIN.

- Non-slip 2-component handle
- Metal striking cap for optimum transfer of impact force, durable
- Polished chromium-vanadium blade
- Clean cuts, long service life



Number of pieces in assortment/set	6 PCS
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Art. no. 0715 653 400

P. Qty.: 1

Contents for art. no. 0715 653 400		
Designation	Art. no.	Quantity
Bevelled-edge chisel 10 mm	0715 653 410	1
Bevelled-edge chisel 16 mm	0715 653 416	1
Bevelled-edge chisel 20 mm	0715 653 420	1
Bevelled-edge chisel 24 mm	0715 653 424	1
Bevelled-edge chisel 26 mm	0715 653 426	1
Bevelled-edge chisel 30 mm	0715 653 430	1

Automatic centre punch

For quick and convenient centre punching

- Automatic impact force triggered by single hand operation
- Infinitely adjustable impact force regulation on knurled cap
- Replaceable impact tips



Length	Shaft diameter	Min. adjustable striking force	Max. adjustable striking force	Art. no.	P. Qty.
95 mm	11 mm	2 kg	5 kg	0714 63 410	1
125 mm	14 mm	6 kg	13 kg	0714 63 450	1
130 mm	17 mm	18 kg	25 kg	0714 63 455	1

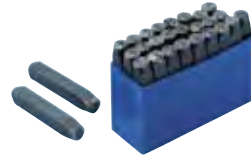
Centre punch

Acc. to DIN 7250 with tempered hammer head



Length (L)	Striking-surface diameter (a)	Width of tip (d)	Art. no.	P. Qty.
120 mm	10 mm	4 mm	0714 63 15	1
150 mm	12 mm	5 mm	0714 63 16	1

Letter punches



Character height	Art. no.	P. Qty.
3 mm	0695 941 623	1
4 mm	0695 941 624	1
5 mm	0695 941 625	1
6 mm	0695 941 626	1
8 mm	0695 941 628	1
10 mm	0695 941 62	1
12 mm	0695 941 620	1

Pin punch set

8 pieces: Diameters 0.9; 1.4; 1.8; 2.4; 2.8; 3.4; 3.9; and 5.9 mm

**Ejector drift set with coded guide sleeve
Hardened chromium-vanadium steel inserts
For clamping sleeves**

Art. no. 0714 63 46

P. Qty.: 1



Scriber

Knurled steel handle with screw in straight and bent steel nails

Length	235 mm
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Art. no. 0714 70 10

P. Qty.: 1



Carbide scriber

For clear and precise scribing

- Captive carbide needle in brass sleeve
- Needle can be switched quickly into working and neutral position using drop-down mechanism

Length	150 mm
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Art. no. 0714 70 04

P. Qty.: 1



Universal scriber

With locking screw

- Stainless steel
- Ideal for marking off parallel lines and circles
- Includes plastic bag



Scribing accuracy	0.1 mm
Max. length measuring range	200 mm

Art. no. 0715 70 20

P. Qty.: 1

Oil marking chalk

Non-papered hexagonal oil-marking chalk for wood, cardboard, textiles, cold and warm iron.



Width x length	12 mm x 120 mm
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Colour	Art. no.	P. Qty.
Blue	0984 400 4	12
Red	0984 400 3	12
White	0984 400 1	12
Yellow	0984 400 2	12

Chalk holder

Suitable for oil and tyre chalk

Art. no. 0984 400 6

P. Qty.: 1



Tyre chalk

Length	120 mm
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Colour	Art. no.	P. Qty.
White	0984 400 7	10
Yellow	0984 400 8	10

Particularly suitable for tyres, even when wet or cold

Carpenter's pencil

With flat lead

- Polished
- Oval, pre-sharpened



Length	240 mm
Width	12 mm
Height	8 mm

Art. no. 0715 64 01

P. Qty.: 6

Masons' pencil

With pointed flat lead



Length	Width	Height	Art. no.	P. Qty.
250 mm	11 mm	7.5 mm	0714 647 13	6
300 mm	13 mm	8 mm	0993 715 030	100

Chalk line reel with gear ratio

For marking out with chalk powder

- Cord reels in rapidly thanks to 5:1 ratio
- Magnesium die-cast housing
- Cord can be extracted in neutral by pushing the handle



Material of the housing	Die-cast magnesium
Colour	Red
Width	84 mm
Length	133 mm
Cord length	30 m

Art. no. 0713 70 220

P. Qty.: 1

Chalk line reel

For marking out with chalk powder

Very light, extremely impact-resistant

Magnesium die-cast housing

Cord rapidly extracted

Cord can be extracted in neutral by pushing the handle

No hook slippage

Toothed, tempered end hook

Safe storage

Hook fixture in housing

Stainless steel belt clip



Material of the housing	Die-cast magnesium
Colour	Red
Width	78 mm
Length	126 mm
Cord length	30 m

Art. no. 0713 70 240

P. Qty.: 1

Powdered chalk

Fine calcium carbonate powder for general work indoors and outdoors

- Good adhesion properties, resistant to rain and wind
- In transparent, resealable plastic bottle

Weight of content	300 g
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Colour	Art. no.	P. Qty.
Blue	0713 70 08	1
Red	0713 70 082	1
Yellow	0713 70 081	1

RALI® chromium steel reversible blade

For RALI® rabbet plane

Art. no. 0714 64 20

P. Qty.: 5



RALI®

RALI® plane 220

Replaces jack, smoothing and scrub planes

- Replacement blade magazine
- Reversible blades mean no sharpening or whetting of plane iron
- Wear-resistant metal plane base

Art. no. 0714 64 16

P. Qty.: 1



RALI® plane 105

Replaces jack, smoothing and scrub planes

- No sharpening or whetting of plane iron thanks to reversible blades
- Wear-resistant metal plane base
- Impact-resistant, manageable plastic housing
- Adjustable plane mouth
- No adjustment work on plane iron thanks to continuously adjustable chip removal

Art. no. 0714 64 17

P. Qty.: 1



Carbide reversible blade

For RALI® plane

Art. no. 0714 64 18

P. Qty.: 2



Reversible blade, chromium steel

For RALI® plane

Art. no. 0714 64 19

P. Qty.: 5



Replacement blade for smoothing plane

Length	260 mm
Width	40 mm

Art. no. 0713 64 101

P. Qty.: 10



Smoothing plane

Versatile tool for woodwork, metalwork and automobile work

- For skimming filler material such as plaster etc.
- For working plasterboard
- Removes paint residues and rust
- Works hardwood and softwood, hard fibres, plywood, asbestos and plastics



Length	260 mm
Width	40 mm

Art. no. 0713 64 10

P. Qty.: 1



Combination wrench, short type

Metric DIN 3113A/ISO 3318/7738

- Ring side drive: POWERDRIV bi-hex
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished heads and ring
- Geometry: Ring end angled 15°, jaw angle 15°

POWERDRIV



Width across flats	External diameter of ring (d)	Width of jaws (outside) (b)	Ring thickness (a1)	Thickness of jaw (a2)	Art. no.	P. Qty.
5.5 mm	10.5 mm	14 mm	5.5 mm	3.7 mm	0713 301 055	1/10
6 mm	10.5 mm	14 mm	5.5 mm	3.7 mm	0713 301 06	1/10
7 mm	11.8 mm	16 mm	6 mm	4 mm	0713 301 07	1/10
8 mm	13.2 mm	18 mm	6 mm	4 mm	0713 301 08	1/10
9 mm	14.6 mm	20 mm	7 mm	4 mm	0713 301 09	1/10
10 mm	16.1 mm	22.5 mm	7.5 mm	4.5 mm	0713 301 10	1/10
11 mm	17.4 mm	25 mm	8 mm	5 mm	0713 301 11	1/10
12 mm	18.9 mm	27 mm	8.5 mm	5.5 mm	0713 301 12	1/10
13 mm	20.4 mm	29 mm	9 mm	5.5 mm	0713 301 13	1/10
14 mm	21.6 mm	31 mm	9.5 mm	6 mm	0713 301 14	1/10

Width across flats	External diameter of ring (d)	Width of jaws (outside) (b)	Ring thickness (a1)	Thickness of jaw (a2)	Art. no.	P. Qty.
15 mm	22.9 mm	33.5 mm	10 mm	6 mm	0713 301 15	1/10
16 mm	24.6 mm	36 mm	10 mm	6 mm	0713 301 16	1/10
17 mm	26.1 mm	38 mm	10.5 mm	6.5 mm	0713 301 17	1/10
18 mm	27.7 mm	40 mm	11 mm	7 mm	0713 301 18	1/10
19 mm	29.9 mm	42 mm	11.5 mm	7.5 mm	0713 301 19	1/10
20 mm	30.7 mm	45 mm	12 mm	8 mm	0713 301 20	1/10
21 mm	32.2 mm	47 mm	12.5 mm	8 mm	0713 301 21	1/10
22 mm	33.7 mm	49 mm	13.5 mm	8 mm	0713 301 22	1/10
23 mm	35.2 mm	51 mm	14 mm	8 mm	0713 301 23	1/5
24 mm	36.9 mm	53 mm	14.5 mm	9 mm	0713 301 24	1/5
25 mm	38.5 mm	55 mm	15 mm	9 mm	0713 301 25	1/5
26 mm	39.8 mm	57 mm	15.5 mm	9 mm	0713 301 26	1/5
27 mm	40.8 mm	59 mm	15.5 mm	9 mm	0713 301 27	1/5
28 mm	42.8 mm	62 mm	16 mm	9 mm	0713 301 28	1/5
29 mm	43.8 mm	63.5 mm	16.5 mm	10 mm	0713 301 29	1/5
30 mm	44.8 mm	65 mm	17 mm	10 mm	0713 301 30	1/5
32 mm	47.8 mm	69 mm	17.5 mm	11 mm	0713 301 32	1/5
34 mm	50.8 mm	73 mm	18 mm	12 mm	0713 301 34	1/5

Combination wrench

Design: metric

- Drive: Ring side POWERDRIV, bi-hex
- Standard: DIN 3113B/ISO 3318
- Material: Chrome-vanadium steel
- Surface: chrome-plated, heads and ring polished
- Geometry: Ring ends offset 10°, jaw angle 15°

Surface	Chrome plated
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POWERDRIV



Width across flats	Length (L)	Width of jaws (outside) (b1)	External diameter of ring (d)	Art. no.	P. Qty.
10 mm	148 mm	22 mm	15.6 mm	0713 302 10	1/10
11 mm	160 mm	24.2 mm	17 mm	0713 302 11	1/10
12 mm	172 mm	26.3 mm	18 mm	0713 302 12	1/10
13 mm	184 mm	28.3 mm	19.4 mm	0713 302 13	1/10
14 mm	196 mm	30.4 mm	20.6 mm	0713 302 14	1/10
15 mm	208 mm	32.4 mm	22 mm	0713 302 15	1/10
16 mm	220 mm	34.6 mm	23.2 mm	0713 302 16	1/10
17 mm	232 mm	36.6 mm	24.4 mm	0713 302 17	1/10
18 mm	244 mm	38.7 mm	25.7 mm	0713 302 18	1/10
19 mm	256 mm	40.7 mm	27 mm	0713 302 19	1/10
20 mm	268 mm	42.8 mm	28.4 mm	0713 302 20	1/10
21 mm	280 mm	45 mm	29.7 mm	0713 302 21	1/10
22 mm	292 mm	47 mm	31 mm	0713 302 22	1/10
24 mm	315 mm	51 mm	33.8 mm	0713 302 24	1/10
27 mm	350 mm	56.7 mm	37.8 mm	0713 302 27	1/5
30 mm	386 mm	62.4 mm	41.8 mm	0713 302 30	1/5
32 mm	410 mm	66.3 mm	44.5 mm	0713 302 32	1/5
34 mm	434 mm	70 mm	47.2 mm	0713 302 34	1/5

Continuation **Combination wrench**

Width across flats	Length (L)	Width of jaws (outside) (b1)	External diameter of ring (d)	Art. no.	P. Qty.
36 mm	458 mm	74 mm	50 mm	0713 302 36	1/5
41 mm	518 mm	83.6 mm	56.6 mm	0713 302 41	1/3
46 mm	580 mm	95.6 mm	67.8 mm	0713 302 46	1

Combination wrench assortment, offset

9 pcs

Drive: Ring side POWERDRIV, bi-hex

Standard: DIN 3113B/ISO 3318

Geometry: Ring side offset 10°, jaw angle 15°

The narrow design has minimised outer dimensions, pronounced rounded contours and de-burred edges

Material: Chromium-vanadium steel

Surface: chrome-plated, polished heads and ring

Contents: 9 pieces

1 each of combination wrench size 10, 13, 16, 17, 18, 19, 21, 22, 24



POWERDRIV



Number of pieces in assortment/set	9 PCS
Included in delivery (Lieferumfang)	10, 13, 16, 17, 18, 19, 21, 22, 24 mm

Art. no. 0713 302 50

P. Qty.: 1

Contents for art. no. 0713 302 50		
Designation	Art. no.	Quantity
Combination wrench 10 mm	0713 302 10	1
Combination wrench 13 mm	0713 302 13	1
Combination wrench 16 mm	0713 302 16	1
Combination wrench 17 mm	0713 302 17	1
Combination wrench 18 mm	0713 302 18	1
Combination wrench 19 mm	0713 302 19	1
Combination wrench 21 mm	0713 302 21	1
Combination wrench 22 mm	0713 302 22	1
Combination wrench 24 mm	0713 302 24	1

Combination wrench set, offset

11 pcs.

Drive: Ring side POWERDRIV, bi-hex

Standard: DIN 3113B/ISO 3318

Geometry: Ring end offset 10°, jaw angle 15°

Minimised outer dimensions, pronounced rounded contours and de-burred edges

Material: Chromium-vanadium steel

Surface: Chrome-plated, heads and ring polished

Contents:

1 each of combination wrench, depressed centre, size 10, 13, 16, 17, 18, 19, 21, 22, 24, 27, 30



POWERDRIV



Number of pieces in assortment/set	11 PCS
Included in delivery (Lieferumfang)	10, 13, 16, 17, 18, 19, 21, 22, 24, 27, 30 mm

Art. no. 0713 302 51

P. Qty.: 1

Contents for art. no. 0713 302 51		
Designation	Art. no.	Quantity
Combination wrench 10 mm	0713 302 10	1
Combination wrench 13 mm	0713 302 13	1
Combination wrench 16 mm	0713 302 16	1
Combination wrench 17 mm	0713 302 17	1
Combination wrench 18 mm	0713 302 18	1
Combination wrench 19 mm	0713 302 19	1
Combination wrench 21 mm	0713 302 21	1
Combination wrench 22 mm	0713 302 22	1
Combination wrench 24 mm	0713 302 24	1
Combination wrench 27 mm	0713 302 27	1
Combination wrench 30 mm	0713 302 30	1

Combination wrench assortment, offset

21 pcs

- Drive: Ring side POWERDRIV, bi-hex
- Standard: DIN 3113B/ISO 3318
- Geometry: Ring side offset 10°, jaw angle 15°
- The narrow design has minimised outer dimensions, pronounced rounded contours and de-burred edges
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, heads and ring polished

Contents: 21 pieces

1 each of combination wrench in size 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32, 34, 36, 41, 46



POWERDRIV



Number of pieces in assortment/set	21 PCS
Included in delivery (Lieferumfang)	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32, 34, 36, 41, 46 mm

Continuation **Combination wrench assortment, offset**

Art. no. 0713 302 52

P. Qty.: 1

Contents for art. no. 0713 302 52		
Designation	Art. no.	Quantity
Combination wrench 10 mm	0713 302 10	1
Combination wrench 11 mm	0713 302 11	1
Combination wrench 12 mm	0713 302 12	1
Combination wrench 13 mm	0713 302 13	1
Combination wrench 14 mm	0713 302 14	1
Combination wrench 15 mm	0713 302 15	1
Combination wrench 16 mm	0713 302 16	1
Combination wrench 17 mm	0713 302 17	1
Combination wrench 18 mm	0713 302 18	1
Combination wrench 19 mm	0713 302 19	1
Combination wrench 20 mm	0713 302 20	1
Combination wrench 21 mm	0713 302 21	1
Combination wrench 22 mm	0713 302 22	1
Combination wrench 24 mm	0713 302 24	1
Combination wrench 27 mm	0713 302 27	1
Combination wrench 30 mm	0713 302 30	1
Combination wrench 32 mm	0713 302 32	1
Combination wrench 34 mm	0713 302 34	1
Combination wrench 36 mm	0713 302 36	1
Combination wrench 41 mm	0713 302 41	1
Combination wrench 46 mm	0713 302 46	1

Combination wrench assortment

29 pieces

Size foam section	4
Min./max. width across flats	7-27 mm

Art. no. 0965 900 927

P. Qty.: 1



Heavy-duty box wrench

Type: metric, offset

- Sturdy design
- Output: Bi-hexagon
- Material: Chromium-vanadium steel
- Surface: Chromium-plated
- Geometry: Offset ring end



Width across flats	Ring thickness (a)	External diameter of ring (d1)	Length (L1)	Art. no.	P. Qty.
24 mm	17 mm	38 mm	180 mm	0715 28 24	1
27 mm	17 mm	41 mm	190 mm	0715 28 27	1
30 mm	18 mm	48 mm	200 mm	0715 28 30	1
32 mm	18 mm	49 mm	235 mm	0715 28 32	1
36 mm	20 mm	55 mm	245 mm	0715 28 36	1
41 mm	22 mm	62 mm	265 mm	0715 28 41	1
46 mm	23 mm	69 mm	280 mm	0715 28 46	1
50 mm	26 mm	76 mm	290 mm	0715 28 50	1
55 mm	28 mm	81 mm	300 mm	0715 28 55	1
60 mm	31 mm	90 mm	345 mm	0715 28 60	1
65 mm	33 mm	98 mm	355 mm	0715 28 65	1

Combination wrench

Short type

- Drive: Ring side POWERDRIV, bi-hex
- Standard: DIN 3113A/ISO 3318/773
- Material: Chrome-vanadium steel
- Surface: chrome-plated, heads and ring polished
- Geometry: Ring side angled 15°, jaw offset 15°



Material	Chrome-vanadium steel
Surface	Chrome plated

Width across flats	External diameter of ring (d)	Width of jaws (outside) (b)	Ring thickness (a1)	Thickness of jaw (a2)	Art. no.	P. Qty.
1/2 inch	20.4 mm	29 mm	9 mm	5.5 mm	0713 303 05	1/10
1/4 inch	10.5 mm	14 mm	5.5 mm	3.7 mm	0713 303 01	1/10
1 1/4 inch	47.8 mm	69 mm	17.5 mm	11 mm	0713 303 16	1/5
1 1/8 inch	43.8 mm	63.5 mm	16.5 mm	10 mm	0713 303 15	1/5
1 1/16 inch	40.8 mm	59 mm	15.5 mm	9 mm	0713 303 14	1/5
1 5/16 inch	50.8 mm	73 mm	18 mm	12 mm	0713 303 17	1/5
1 inch	38.5 mm	55 mm	15 mm	9 mm	0713 303 13	1/5
3/4 inch	29.9 mm	42 mm	11.5 mm	7.5 mm	0713 303 09	1/10
3/8 inch	16.1 mm	22.5 mm	7.5 mm	4.5 mm	0713 303 03	1/10
5/8 inch	24.6 mm	36 mm	10 mm	6 mm	0713 303 07	1/10
5/16 inch	13.2 mm	18 mm	6 mm	4 mm	0713 303 02	1/10
7/8 inch	33.7 mm	49 mm	13.5 mm	8 mm	0713 303 11	1/10
7/16 inch	17.4 mm	25 mm	8 mm	5 mm	0713 303 04	1/10
9/16 inch	21.6 mm	31 mm	9.5 mm	6 mm	0713 303 06	1/10
11/16 inch	26.1 mm	38 mm	10.5 mm	6.5 mm	0713 303 08	1/10
13/16 inch	32.2 mm	47 mm	12.5 mm	8 mm	0713 303 10	1/10
15/16 inch	36.9 mm	53 mm	14.5 mm	9 mm	0713 303 12	1/5

Combination wrench assortment, inch

Short design, 12 pcs

Drive: Ring side POWERDRIV, bi-hex

Standard: DIN 3113A/ISO 3318/778

Geometry: Ring end angled 15°, jaw angle 15°

Material: Chromium-vanadium steel

Surface: Chrome-plated, heads and ring polished

Contents: 12 pieces

1 combination wrench in each size (inch) 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 7/8; 1; 1 1/16; 1 1/8; 1 1/4



Number of pieces in assortment/set	12 PCS
Width across flats	9/16 inch, 7/8 inch, 7/16 inch, 5/8 inch, 3/8 inch, 3/4 inch, 1 inch, 1 1/8 inch, 1 1/4 inch, 11/16 inch, 1 1/16 inch, 1/2 inch



Art. no. 0713 303 41

P. Qty.: 1

Contents for art. no. 0713 303 41

Designation	Art. no.	Quantity
Combination wrench 3/8 inch	0713 303 03	1
Combination wrench 7/16 inch	0713 303 04	1
Combination wrench 1/2 inch	0713 303 05	1
Combination wrench 9/16 inch	0713 303 06	1
Combination wrench 5/8 inch	0713 303 07	1
Combination wrench 11/16 inch	0713 303 08	1
Combination wrench 3/4 inch	0713 303 09	1
Combination wrench 7/8 inch	0713 303 11	1
Combination wrench 1 inch	0713 303 13	1
Combination wrench 1 1/16 inch	0713 303 14	1
Combination wrench 1 1/8 inch	0713 303 15	1
Combination wrench 1 1/4 inch	0713 303 16	1

Combination wrench, ultra slim

Metric, ultra slim type

Ultra slim jaw design

For comfortable work in hard-to-reach places. Lateral grinding is not necessary, in contrast to conventional combination wrenches.

Drive: Ring end POWERDRIV bi-hex

Standard: DIN 3113A/ISO 3318/7738

Geometry: Ring side angled 15°, jaw offset 15

Material: Chromium-vanadium steel

Surface: Chrome-plated, matt satin finish



POWERDRIV

Material	Chrome-vanadium steel
Surface	Chrome plated

Width across flats	External diameter of ring (d)	Width of jaws (out-side) (b)	Ring thick-ness (a1)	Thickness of jaw (a2)	Art. no.	P. Qty.
8 mm	12 mm	14.7 mm	6.5 mm	4.2 mm	0713 309 08	1/20
16 mm	22.3 mm	29.2 mm	12.1 mm	7 mm	0713 309 16	1
18 mm	25.3 mm	32.2 mm	13.1 mm	8 mm	0713 309 18	1
19 mm	26.8 mm	33.7 mm	13.5 mm	8 mm	0713 309 19	1/10

Combination wrench, extra long

Metric, extra long type

- Drive: Ring side POWERDRIV, bi-hex
- Standard: DIN 3113A/ISO 3318/7738
- Geometry: Ring side angled 15°, head offset 15°
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, heads and ring polished



Material	Chrome-vanadium steel
Surface	Chrome plated

Width across flats	External diameter of ring (d)	Width of jaws (out-side) (b)	Ring thick-ness (a1)	Thickness of jaw (a2)	Art. no.	P. Qty.
8 mm	13 mm	20 mm	7.5 mm	4.5 mm	0713 308 08	1/10
9 mm	14.5 mm	22 mm	8 mm	4.5 mm	0713 308 09	1/10
10 mm	16 mm	23.5 mm	8.5 mm	5 mm	0713 308 10	1/10
11 mm	17 mm	25.5 mm	9 mm	5.5 mm	0713 308 11	1/10
12 mm	19 mm	28 mm	9.5 mm	6 mm	0713 308 12	1/10
13 mm	20 mm	29.5 mm	10 mm	6.5 mm	0713 308 13	1/10
14 mm	21.5 mm	31.5 mm	11 mm	7 mm	0713 308 14	1/10
15 mm	23 mm	33.5 mm	12 mm	7.5 mm	0713 308 15	1/10
16 mm	24.5 mm	36.5 mm	13 mm	8 mm	0713 308 16	1/10
17 mm	26 mm	37 mm	14 mm	8.5 mm	0713 308 17	1/10
18 mm	28 mm	40.5 mm	15 mm	9 mm	0713 308 18	1/10
19 mm	29 mm	41.5 mm	16 mm	9.5 mm	0713 308 19	1/10
20 mm	31 mm	44.5 mm	16 mm	9.5 mm	0713 308 20	1/10
21 mm	33 mm	46.5 mm	17 mm	10 mm	0713 308 21	1/10
22 mm	34 mm	48 mm	18 mm	11 mm	0713 308 22	1/10
24 mm	37 mm	51 mm	19 mm	12 mm	0713 308 24	1/5
27 mm	41 mm	58 mm	20 mm	13 mm	0713 308 27	1/5
30 mm	46 mm	63 mm	21 mm	14 mm	0713 308 30	1/5
32 mm	49 mm	66 mm	22 mm	15 mm	0713 308 32	1/5
34 mm	53 mm	70 mm	23 mm	15 mm	0713 308 34	1
36 mm	57 mm	73 mm	24 mm	16 mm	0713 308 36	1
41 mm	63 mm	86 mm	26 mm	16 mm	0713 308 41	1
46 mm	69.5 mm	96 mm	27 mm	17.5 mm	0713 308 46	1

Combination wrench set, extra long

12 pcs.

Drive: Ring side POWERDRIV, bi-hexagon

Material: Chromium-vanadium steel

Surface: Chrome-plated, heads and ring polished



Number of pieces in assortment/set	12 PCS
Width across flats	10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 17 mm, 19 mm, 22 mm, 24 mm, 27 mm, 30 mm, 32 mm

Art. no. 0713 308 51

P. Qty.: 1

Contents for art. no. 0713 308 51		
Designation	Art. no.	Quantity
Combination wrench, extra long 10 mm	0713 308 10	1
Combination wrench, extra long 11 mm	0713 308 11	1
Combination wrench, extra long 12 mm	0713 308 12	1
Combination wrench, extra long 13 mm	0713 308 13	1
Combination wrench, extra long 14 mm	0713 308 14	1
Combination wrench, extra long 17 mm	0713 308 17	1
Combination wrench, extra long 19 mm	0713 308 19	1
Combination wrench, extra long 22 mm	0713 308 22	1
Combination wrench, extra long 24 mm	0713 308 24	1
Combination wrench, extra long 27 mm	0713 308 27	1
Combination wrench, extra long 30 mm	0713 308 30	1
Combination wrench, extra long 32 mm	0713 308 32	1



Ratchet combination wrench, metric, straight

- Drive: Modified POWERDRIV bi-hexagon ring end, finely toothed, 72 teeth
- Standard: max. torque according to DIN 899
- Geometry: Straight ring end, jaw angle 15°
- Loosen bolts with the open end and tighten with the ratchet mechanism of the ring end
- Ultra slim ring end for working in tight spaces, 5° angle of rotation, precision-manufactured ring core for smooth, secure movement
- Material: Chromium-vanadium steel
- Basic body surface: chrome-plated, matt satin finish

POWERDRIV



Width across flats (SW)	Thickness of jaw (a1)	Width of jaws (outside) (b1)	Ring thickness (a2)	External diameter of ring (d)	Art. no.	P. Qty.
8 mm	6.6 mm	16.7 mm	4.4 mm	16 mm	0714 251 08	1
9 mm	7 mm	18.8 mm	4.8 mm	17.5 mm	0714 251 09	1/20
10 mm	7.3 mm	20.9 mm	5.3 mm	19 mm	0714 251 10	1/10
11 mm	7.7 mm	23 mm	5.8 mm	20.6 mm	0714 251 11	1/10
12 mm	8.3 mm	25 mm	6.4 mm	21.7 mm	0714 251 12	1/10
13 mm	8.6 mm	27.2 mm	6.6 mm	23.6 mm	0714 251 13	1/10
14 mm	9 mm	29.3 mm	6.1 mm	25.9 mm	0714 251 14	1/10
15 mm	9.5 mm	31.3 mm	6.4 mm	27.7 mm	0714 251 15	1/10

Continuation **Ratchet combination wrench, metric, straight**

Width across flats (SW)	Thickness of jaw (a1)	Width of jaws (outside) (b1)	Ring thickness (a2)	External diameter of ring (d)	Art. no.	P. Qty.
16 mm	10 mm	33.5 mm	6.7 mm	28.7 mm	0714 251 16	1/10
17 mm	10.3 mm	35.6 mm	8.1 mm	30.5 mm	0714 251 17	1/10
18 mm	10.7 mm	37.6 mm	8.4 mm	31.5 mm	0714 251 18	1/10
19 mm	11.2 mm	39.7 mm	8.7 mm	32.5 mm	0714 251 19	1/10
21 mm	13 mm	45.8 mm	9 mm	40 mm	0714 251 21	1/10
22 mm	13.1 mm	45.9 mm	9.3 mm	40 mm	0714 251 22	1/10
24 mm	14.6 mm	52 mm	9.9 mm	46.5 mm	0714 251 24	1/10
27 mm	10.5 mm	56.4 mm	15.5 mm	52.4 mm	0714 251 27	1/5
30 mm	11.4 mm	62.7 mm	17 mm	58.1 mm	0714 251 30	1/5
32 mm	12.5 mm	66.4 mm	17.5 mm	61.9 mm	0714 251 32	1/5

Ratchet combination wrench set, metric, straight 5 pieces in plastic case

With extremely narrow ring side for working in compact spaces

- Drive: Modified POWERDRIV bi-hexagon ring end, finely toothed, 72 teeth
- Standard: max. torque according to DIN 899
- Geometry: Straight ring end, jaw angle 15°
- Loosen bolts with the open end and tighten with the ratchet mechanism of the ring end
- Ultra slim ring end for working in tight spaces, 5° angle of rotation, precision-manufactured ring core for smooth, secure movement
- Material: Chromium-vanadium steel
- Basic body surface: chrome-plated, matt satin finish



POWERDRIV



Contents: 5 pieces

1 ratchet combination wrench in each of the following sizes 8; 10; 13; 17; 19

Number of pieces in assortment/set	5 PCS
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Art. no. 0714 251 100

P. Qty.: 1

Contents for art. no. 0714 251 100		
Designation	Art. no.	Quantity
Ratchet combination wrench, metric, straight 8 mm	0714 251 08	1
Ratchet combination wrench, metric, straight 10 mm	0714 251 10	1
Ratchet combination wrench, metric, straight 13 mm	0714 251 13	1
Ratchet combination wrench, metric, straight 17 mm	0714 251 17	1
Ratchet combination wrench, metric, straight 19 mm	0714 251 19	1

Multi-ratchet combination wrench

Multiple profile suitable for five most common screw head drives! Hexagon metric, square metric, bi-hex metric, hexagon inch, TX head.



- Drive: Ring side bi-hex, fine tooth, 72 teeth with reverse lever for clockwise and anti-clockwise running
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, high-gloss polished
- Geometry: Head offset: 15°
- Ring side angled 15°
- Strong heads for heavy-duty applications

Width across flats (SW)	Thickness of jaw (a1)	Width of jaws (out-side) (b1)	Ring thick-ness (a2)	External diameter of ring (d)	Art. no.	P. Qty.
6 mm	3.9 mm	16.4 mm	6.55 mm	15.8 mm	0714 256 06	1/20
7 mm	3.9 mm	16.4 mm	6.55 mm	16.5 mm	0714 256 07	1/20
8 mm	4 mm	17.7 mm	6.55 mm	17.8 mm	0714 256 08	1/20
9 mm	4 mm	20 mm	7.45 mm	19.5 mm	0714 256 09	1/20
10 mm	5 mm	21.9 mm	8.05 mm	21.5 mm	0714 256 10	1/10
11 mm	5.5 mm	23.9 mm	8.55 mm	22 mm	0714 256 11	1/10
12 mm	5.5 mm	25 mm	9.05 mm	23.5 mm	0714 256 12	1/10
13 mm	6.3 mm	25.9 mm	10.05 mm	25 mm	0714 256 13	1/10
14 mm	6.5 mm	29.9 mm	10.05 mm	27 mm	0714 256 14	1/10
15 mm	7 mm	31.1 mm	11.05 mm	28.5 mm	0714 256 15	1/10
16 mm	7 mm	33.7 mm	11.05 mm	30.5 mm	0714 256 16	1/10
17 mm	7 mm	36.5 mm	12.05 mm	32 mm	0714 256 17	1/10
18 mm	8 mm	38.5 mm	12.05 mm	34.5 mm	0714 256 18	1/10
19 mm	8.7 mm	38.7 mm	12.95 mm	36.5 mm	0714 256 19	1/10
21 mm	9.6 mm	43.2 mm	13.6 mm	39.2 mm	0714 256 21	1/5
22 mm	9.6 mm	46.2 mm	14.4 mm	41.5 mm	0714 256 22	1/5
24 mm	11.6 mm	49.5 mm	15.5 mm	46.2 mm	0714 256 24	1/5

This is a specialist tool, therefore the ring side is only suitable for loosening bolts to a limited extent.

Multi ratchet combination wrench set

6-piece set including the most common sizes. More free space for fingers or for negotiating obstacles owing to 15° angle of box wrench.



- The multiple profile is suitable for the five most common screw head drives (hexagon metric, square metric, bi-hex metric, hexagon inch, external TX)
- Drive: Ring side bi-hex, fine tooth, 72 teeth with reverse lever for clockwise and anti-clockwise turning
- Geometry: 15° offset heads
- Ring side angled down 15°



Number of pieces in assortment/set	6 PCS
Width across flats	10 mm, 12 mm, 13 mm, 17 mm, 19 mm, 8 mm
Number of teeth	72 PCS

Art. no. 0714 256 50

P. Qty.: 1

Continuation **Multi ratchet combination wrench set**

Contents for art. no. 0714 256 50		
Designation	Art. no.	Quantity
Multi-ratchet combination wrench 8 mm	0714 256 08	1
Multi-ratchet combination wrench 10 mm	0714 256 10	1
Multi-ratchet combination wrench 12 mm	0714 256 12	1
Multi-ratchet combination wrench 13 mm	0714 256 13	1
Multi-ratchet combination wrench 17 mm	0714 256 17	1
Multi-ratchet combination wrench 19 mm	0714 256 19	1

Double ring ratchet wrench 4-in-1

Metric, straight

- Tip: Double ring end POWERDRIV® bi-hexagon
- Finely toothed, 72 teeth
- Single-handed operation via reversing lever for clockwise and anti-clockwise rotation
- Material: Chromium-vanadium steel
- Basic body surface: chromium-plated, high-gloss polished
- Geometry: Straight ring end
- 4 sizes in one ratchet wrench
- 1/4 inch bit adapter available
- Narrow ratchet head



POWERDRIV

Tip type	Twelve-sided head
Surface	Chrome plated

Width across flats	Length (L)	Ratchet head height 2 (b2)	External diameter of ring (d1)	External diameter of ring 2 (d2)	Art. no.	P. Qty.
8 x 10 mm, 12 x 13 mm	150 mm	16.8 mm	20.2 mm	24.8 mm	0714 257 013	1/10
10 x 19 mm, 13 x 17 mm	200 mm	21.9 mm	31.5 mm	33.5 mm	0714 257 017	1/10
16 x 17 mm, 18 x 19 mm	230 mm	20 mm	33 mm	35 mm	0714 257 019	1/10

Double ring ratchet spanner set

3-piece set covers the 8 most common sizes.

Contents: 3 pieces

- 1 double-ring ratchet spanner 8x10 + 12x13
- 1 double-ring ratchet spanner 16x17 + 18x19
- 1 bit adapter 10 mm x 1/4 inch, length 20 mm



POWERDRIV



Number of pieces in assortment/set	3 PCS
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Art. no. 0714 257 30

P. Qty.: 1

Contents for art. no. 0714 257 30

Designation	Art. no.	Quantity
Double ring ratchet wrench 4-in-1 8 x 10 mm 12 x 13 mm	0714 257 013	1
Double ring ratchet wrench 4-in-1 16 x 17 mm 18 x 19 mm	0714 257 019	1
Bit adapter	0715 11 03	1

Ratchet combination wrench

Innovative wrench with ratchet function both on ring and open sides

- Drive: Modified POWERDRIV bi-hexagon ring end, open end with open ratchet segment
- Standard: max. torque to DIN 899
- Geometry: Straight ring end, jaw angle 15°
- Extremely slimline version for working in extremely tight spaces, precision-manufactured ring core at ring end for smooth, secure movement
- Material: Chromium-vanadium steel
- Basic body surface: chrome-plated, matt satin finish


POWERDRIV


Width across flats (SW)	Thickness of jaw (a1)	Width of jaws (out-side) (b1)	Ring thick-ness (a2)	External diameter of ring (d)	Art. no.	P. Qty.
8 mm	6.5 mm	16.7 mm	4.1 mm	16.8 mm	0714 259 08	1/20
9 mm	6.9 mm	18.7 mm	4.3 mm	18.8 mm	0714 259 09	1/20
10 mm	7.3 mm	20.8 mm	4.8 mm	20.8 mm	0714 259 10	1/10
11 mm	7.7 mm	23.5 mm	5.1 mm	21.8 mm	0714 259 11	1/10
12 mm	8.2 mm	24.6 mm	5.3 mm	22.8 mm	0714 259 12	1/10
13 mm	8.6 mm	26.8 mm	5.9 mm	24.8 mm	0714 259 13	1/10
14 mm	9 mm	29 mm	6.3 mm	27.8 mm	0714 259 14	1/10
15 mm	9.4 mm	31 mm	6.6 mm	28.8 mm	0714 259 15	1/10
16 mm	9.9 mm	33 mm	6.9 mm	30.8 mm	0714 259 16	1/10
17 mm	10.3 mm	35.5 mm	7.3 mm	31.8 mm	0714 259 17	1/10
18 mm	10.7 mm	37.5 mm	7.8 mm	32.8 mm	0714 259 18	1/10
19 mm	11.2 mm	39.4 mm	8.3 mm	33.8 mm	0714 259 19	1/10
21 mm	8.8 mm	45.8 mm	13 mm	45.8 mm	0714 259 21	1/10
22 mm	8.8 mm	45.8 mm	13 mm	13 mm	0714 259 22	1/10
24 mm	9.8 mm	51.8 mm	14.5 mm	46 mm	0714 259 24	1/10

Ratchet combination wrench assortment, double-ended

6 pieces Innovative wrenches with ratchet function both on ring and open sides.

- Drive: Ring side POWERDRIV® modified, bi-hex, open end with open ratchet segment
- Standard: max. torque in line with DIN 899
- Geometry: Ring side straight, 15° offset head



Number of pieces in assortment/set	6 PCS
Number of teeth	72 PCS


Art. no. 0714 259 50

P. Qty.: 1

POWERDRIV

Continuation **Ratchet combination wrench assortment, double-ended**

Contents for art. no. 0714 259 50		
Designation	Art. no.	Quantity
Ratchet combination wrench 8 mm	0714 259 08	1
Ratchet combination wrench 10 mm	0714 259 10	1
Ratchet combination wrench 12 mm	0714 259 12	1
Ratchet combination wrench 13 mm	0714 259 13	1
Ratchet combination wrench 17 mm	0714 259 17	1
Ratchet combination wrench 19 mm	0714 259 19	1

Ratchet combination wrench

Flexible ratchet head provides greater free space for fingers or for negotiating obstacles

- Very rugged, strong ratchets for high tightening torques
- Design: Metric
- Drive: Ring side POWERDRIV bi-hexagon, fine-tooth 72 teeth
- Standard: Max. Torque according to DIN 899
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, matt satin finish
- Geometry: Head offset 15°, ring side 180° joint, strong heads for heavy-duty applications



POWERDRIV



Width across flats (SW)	Thickness of jaw (a1)	Width of jaws (outside) (b1)	Ring thickness (a2)	External diameter of ring (d)	Art. no.	P. Qty.
8 mm	4.3 mm	16.7 mm	6.5 mm	16.1 mm	0714 263 08	1/20
9 mm	4.6 mm	18.8 mm	6.9 mm	17.9 mm	0714 263 09	1/20
10 mm	5 mm	20.9 mm	7.3 mm	19.6 mm	0714 263 10	1/10
11 mm	5.4 mm	23 mm	7.7 mm	21.4 mm	0714 263 11	1/10
12 mm	5.8 mm	25.1 mm	8.2 mm	22.7 mm	0714 263 12	1/10
13 mm	6.1 mm	27.2 mm	8.6 mm	24.7 mm	0714 263 13	1/10
14 mm	6.4 mm	29.3 mm	9 mm	26.4 mm	0714 263 14	1/10
15 mm	6.9 mm	31.3 mm	9.4 mm	27.7 mm	0714 263 15	1/10
16 mm	7.2 mm	33.4 mm	9.9 mm	29.4 mm	0714 263 16	1/10
17 mm	7.6 mm	35.5 mm	10.3 mm	31.2 mm	0714 263 17	1/10
18 mm	8 mm	37.6 mm	10.7 mm	32.4 mm	0714 263 18	1/10
19 mm	8.6 mm	39.7 mm	11.2 mm	33.4 mm	0714 263 19	1/10
21 mm	9 mm	46 mm	13 mm	39.7 mm	0714 263 21	1/10
22 mm	9 mm	46 mm	13 mm	39.7 mm	0714 263 22	1/10
24 mm	10 mm	52.3 mm	14.5 mm	45.9 mm	0714 263 24	1/10

This special tool may only be subjected to the maximum torque. For this reason, the wrenches are only suitable for loosening bolts to a limited extent.

Ratchet combination wrench

Retaining ring prevents the fastener slipping from the wrench



- Design: metric
- Drive: POWERDRIV bi-hexagon ring end with retaining ring, finely toothed, 72 teeth with reversing lever for clockwise and anti-clockwise rotation and 5° angle of rotation
- Standard: max. torque to DIN 899
- Material: Chromium-vanadium steel
- Surface: Basic body chrome-plated, matt satin finish, ring yellow-nickel-plated
- Geometry: Jaw angle 15°, angled 15°, ring matt nickel-plated

Width across flats (SW)	Thickness of jaw (a1)	Width of jaws (outside) (b1)	Ring thickness (a2)	External diameter of ring (d)	Art. no.	P. Qty.
8 mm	4.6 mm	16.2 mm	6.5 mm	16.4 mm	0714 265 08	1/20
9 mm	4.9 mm	18.2 mm	6.9 mm	18.3 mm	0714 265 09	1/20
10 mm	5.3 mm	20.5 mm	7.3 mm	20 mm	0714 265 10	1/10
11 mm	5.6 mm	22.6 mm	7.7 mm	21.4 mm	0714 265 11	1/10
12 mm	6 mm	24.6 mm	8.2 mm	22.6 mm	0714 265 12	1/10
13 mm	6.4 mm	26.7 mm	8.6 mm	24.5 mm	0714 265 13	1/10
14 mm	6.8 mm	28.8 mm	9 mm	27 mm	0714 265 14	1/10
15 mm	7 mm	30.8 mm	9.4 mm	28.2 mm	0714 265 15	1/10
16 mm	7.2 mm	33.2 mm	9.9 mm	30.3 mm	0714 265 16	1/10
17 mm	7.7 mm	35.1 mm	10.3 mm	31.6 mm	0714 265 17	1/10
18 mm	8.2 mm	37.2 mm	10.7 mm	32.3 mm	0714 265 18	1/10
19 mm	8.8 mm	39.3 mm	11.2 mm	33.7 mm	0714 265 19	1/10
21 mm	9 mm	46.2 mm	13 mm	40.1 mm	0714 265 21	1/10
22 mm	9 mm	46.2 mm	13 mm	40.1 mm	0714 265 22	1/10
24 mm	10 mm	51.5 mm	14.5 mm	46.5 mm	0714 265 24	1/10

Please note: This is a specialist tool, therefore the ring side is only suitable for loosening bolts to a limited extent.

Ratchet combination wrench assortment

Consists of 8 ratchet combination wrenches with a retaining ring that prevents the screw connection slipping off the tool.



- Design: metric
- Drive: Ring side POWERDRIV bi-hex with retaining ring, fine tooth, 72 teeth with reverse lever for clockwise and anti-clockwise rotation and 5° angle of rotation
- Material: Chrome-vanadium steel

POWERDRIV



Number of pieces in assortment/set	8 PCS
Included in delivery (Lieferumfang)	Plastic holder

Art. no. 0714 265 50

P. Qty.: 1

Continuation **Ratchet combination wrench assortment**

Contents for art. no. 0714 265 50		
Designation	Art. no.	Quantity
Ratchet combination wrench 8 mm	0714 265 08	1
Ratchet combination wrench 10 mm	0714 265 10	1
Ratchet combination wrench 12 mm	0714 265 12	1
Ratchet combination wrench 13 mm	0714 265 13	1
Ratchet combination wrench 16 mm	0714 265 16	1
Ratchet combination wrench 17 mm	0714 265 17	1
Ratchet combination wrench 18 mm	0714 265 18	1
Ratchet combination wrench 19 mm	0714 265 19	1

Ratchet combination wrench set

6 pieces. Flexible ratchet head provides greater freedom for fingers and for overcoming obstacles.

Very rugged, strong ratchets for high tightening torques

- Design: Metric
- Drive: Ring side POWERDRIV®, bi-hexagon, finely toothed, 72 teeth
- Standard: Max. torque in line with DIN 899
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, matt satin finish
- Geometry: Head offset 15°, ring side 180° joint, strong heads for heavy-duty applications



POWERDRIV



Number of pieces in assortment/set	6 PCS
Included in delivery (Lieferumfang)	Including plastic holder

Art. no. 0714 263 50

P. Qty.: 1

Contents for art. no. 0714 263 50		
Designation	Art. no.	Quantity
Ratchet combination wrench 8 mm	0714 263 08	1
Ratchet combination wrench 10 mm	0714 263 10	1
Ratchet combination wrench 12 mm	0714 263 12	1
Ratchet combination wrench 13 mm	0714 263 13	1
Ratchet combination wrench 17 mm	0714 263 17	1
Ratchet combination wrench 19 mm	0714 263 19	1

Ring ratchet wrench

Design: metric, flat offset.

- Drive: POWERDRIV modified bi-hex, 24 teeth, right/left reversible with locking push button
- Material: Chrome-vanadium steel
- Surface: matt chrome-plated
- Geometry: Ring ends offset approx. 38°, angle of rotation 22°



Width across flats	Length (L)	External diameter of ring (d1)	External diameter of ring 2 (d2)	Ring thickness 2 (a2)	Art. no.	P. Qty.
10 x 11 mm	206 mm	23.5 mm	26 mm	12 mm	0714 23 25	1
12 x 14 mm	235 mm	27.5 mm	31.5 mm	13 mm	0714 23 26	1
13 x 17 mm	255 mm	32 mm	34 mm	14.5 mm	0714 23 27	1
15 x 16 mm	261 mm	32 mm	37 mm	15 mm	0714 23 28	1
19 x 22 mm	315 mm	40 mm	44 mm	17 mm	0714 23 29	1
24 x 27 mm	385 mm	48.5 mm	53.5 mm	17.5 mm	0714 23 30	1
30 x 32 mm	405 mm	55.5 mm	58 mm	19.5 mm	0714 23 31	1

Scaffolding ratchet

Reversible, with two different jaw sizes, chromium-vanadium steel

- Toggle switches between clockwise/anti-clockwise rotation
- With pointed tapered pin on the ratchet tip



Width across flats	19 x 22 mm
Length (L1)	320 mm
External diameter of ring (B)	42 mm
Tapered-bolt length (L2)	100 mm
Tapered bolt diameter (D1)	16 mm

Art. no. 0713 851 192

P. Qty.: 1/6

Double open-end wrench

Design: Metric

- Standard: DIN 3110 /ISO 1085
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished heads
- Geometry: 15° head offset, strong heavy-duty heads



Width across flats	Length (L)	External dimension of wrench head (b1)	External dimension of wrench head 2 (b2)	Art. no.	P. Qty.
4 x 5 mm	100 mm	12 mm	13 mm	0713 304 045	1/10
5 x 5.5 mm	112 mm	13 mm	14 mm	0713 304 055	1/10
6 x 7 mm	125 mm	14 mm	16 mm	0713 304 067	1/10
8 x 9 mm	138 mm	18 mm	20 mm	0713 304 089	1/10

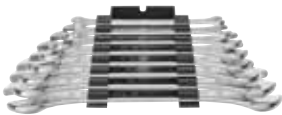
Continuation Double open-end wrench

Width across flats	Length (L)	External dimension of wrench head (b1)	External dimension of wrench head 2 (b2)	Art. no.	P. Qty.
8 x 10 mm	146 mm	18 mm	22.5 mm	0713 304 080	1/10
10 x 11 mm	158 mm	22.5 mm	25 mm	0713 304 101	1/10
10 x 13 mm	168 mm	22.5 mm	29 mm	0713 304 103	1/10
12 x 13 mm	175 mm	27 mm	29 mm	0713 304 123	1/10
13 x 17 mm	200 mm	29 mm	38 mm	0713 304 137	1/10
14 x 15 mm	185 mm	31 mm	33.5 mm	0713 304 145	1/10
16 x 17 mm	205 mm	36 mm	38 mm	0713 304 167	1/10
16 x 18 mm	212 mm	36 mm	40 mm	0713 304 168	1/10
17 x 19 mm	220 mm	38 mm	42 mm	0713 304 179	1/10
18 x 19 mm	225 mm	40 mm	42 mm	0713 304 189	1/10
20 x 22 mm	238 mm	45 mm	49 mm	0713 304 202	1/10
21 x 23 mm	246 mm	47 mm	51 mm	0713 304 213	1/10
22 x 24 mm	256 mm	49 mm	53 mm	0713 304 224	1/10
24 x 26 mm	268 mm	53 mm	57 mm	0713 304 246	1/10
24 x 27 mm	275 mm	53 mm	59 mm	0713 304 247	1/10
25 x 28 mm	285 mm	55 mm	62 mm	0713 304 258	1/10
27 x 29 mm	295 mm	59 mm	63.5 mm	0713 304 279	1/10
30 x 32 mm	310 mm	65 mm	69 mm	0713 304 302	1/5
30 x 34 mm	325 mm	65 mm	73 mm	0713 304 304	1/5

Double open-end wrench assortment

Metric

- Standard: DIN 3110/ISO 1085
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, polished heads
- Geometry: 15° head offset, strong heavy-duty heads



Number of pieces in assortment/set	Width across flats	Art. no.	P. Qty.
8 PCS	6 x 7 mm, 8 x 9 mm, 10 x 11 mm, 12 x 13 mm, 14 x 15 mm, 16 x 17 mm, 18 x 19 mm, 20 x 22 mm	0713 304 40	1
10 PCS	6 x 7 mm, 8 x 9 mm, 10 x 11 mm, 12 x 13 mm, 14 x 15 mm, 16 x 17 mm, 18 x 19 mm, 20 x 22 mm, 21 x 23 mm, 24 x 27 mm	0713 304 41	1
10 PCS	6 x 7 mm, 8 x 9 mm, 10 x 11 mm, 12 x 13 mm, 14 x 15 mm, 16 x 17 mm, 18 x 19 mm, 20 x 22 mm, 24 x 27 mm, 30 x 32 mm	0713 304 42	1
12 PCS	6 x 7 mm, 8 x 9 mm, 10 x 11 mm, 12 x 13 mm, 14 x 15 mm, 16 x 17 mm, 18 x 19 mm, 20 x 22 mm, 21 x 23 mm, 24 x 27 mm, 25 x 28 mm, 30 x 32 mm	0713 304 43	1

Contents for art. no. 0713 304 40

Designation	Art. no.	Quantity
Double open-end wrench 6 x 7 mm	0713 304 067	1
Double open-end wrench 8 x 9 mm	0713 304 089	1
Double open-end wrench 10 x 11 mm	0713 304 101	1
Double open-end wrench 12 x 13 mm	0713 304 123	1
Double open-end wrench 14 x 15 mm	0713 304 145	1
Double open-end wrench 16 x 17 mm	0713 304 167	1
Double open-end wrench 18 x 19 mm	0713 304 189	1
Double open-end wrench 20 x 22 mm	0713 304 202	1
Plastic holder for double open-end wrench assortment Product weight (per item):26.000 g	0713 304 401	1

Contents for art. no. 0713 304 41

Designation	Art. no.	Quantity
Double open-end wrench 6 x 7 mm	0713 304 067	1
Double open-end wrench 8 x 9 mm	0713 304 089	1
Double open-end wrench 10 x 11 mm	0713 304 101	1
Double open-end wrench 12 x 13 mm	0713 304 123	1
Double open-end wrench 14 x 15 mm	0713 304 145	1
Double open-end wrench 16 x 17 mm	0713 304 167	1
Double open-end wrench 18 x 19 mm	0713 304 189	1
Double open-end wrench 20 x 22 mm	0713 304 202	1
Double open-end wrench 21 x 23 mm	0713 304 213	1
Double open-end wrench 24 x 27 mm	0713 304 247	1
Plastic holder for double open-end wrench assortment Product weight (per item):43.000 g	0713 304 411	1

Contents for art. no. 0713 304 42

Designation	Art. no.	Quantity
Double open-end wrench 6 x 7 mm	0713 304 067	1
Double open-end wrench 8 x 9 mm	0713 304 089	1
Double open-end wrench 10 x 11 mm	0713 304 101	1
Double open-end wrench 12 x 13 mm	0713 304 123	1
Double open-end wrench 14 x 15 mm	0713 304 145	1
Double open-end wrench 16 x 17 mm	0713 304 167	1
Double open-end wrench 18 x 19 mm	0713 304 189	1
Double open-end wrench 20 x 22 mm	0713 304 202	1
Double open-end wrench 24 x 27 mm	0713 304 247	1
Double open-end wrench 30 x 32 mm	0713 304 302	1
Plastic holder for double open-end wrench assortment Product weight (per item):43.000 g	0713 304 421	1

Contents for art. no. 0713 304 43

Designation	Art. no.	Quantity
Double open-end wrench 6 x 7 mm	0713 304 067	1
Double open-end wrench 8 x 9 mm	0713 304 089	1
Double open-end wrench 10 x 11 mm	0713 304 101	1
Double open-end wrench 12 x 13 mm	0713 304 123	1
Double open-end wrench 14 x 15 mm	0713 304 145	1
Double open-end wrench 16 x 17 mm	0713 304 167	1
Double open-end wrench 18 x 19 mm	0713 304 189	1
Double open-end wrench 20 x 22 mm	0713 304 202	1
Double open-end wrench 21 x 23 mm	0713 304 213	1
Double open-end wrench 24 x 27 mm	0713 304 247	1

Continuation **Double open-end wrench assortment**

Designation	Art. no.	Quantity
Double open-end wrench 25 x 28 mm	0713 304 258	1
Double open-end wrench 30 x 32 mm	0713 304 302	1
Plastic holder for double open-end wrench assortment Product weight (per item):55.000 g	0713 304 431	1

Double open-end wrench, metric

- Standard: DIN 3110 /ISO 3318
- Material: Chrome vanadium, forged
- Surface: Polished, bright nickel-plated and chrome-plated
- Geometry: Jaw angle 15°, strong heavy-duty heads



Width across flats	Length (L)	External dimension of wrench head (b1)	External dimension of wrench head 2 (b2)	Art. no.	P. Qty.
30 x 36 mm	320 mm	62.5 mm	73.3 mm	0714 293 036	1
32 x 36 mm	345 mm	68.5 mm	74.5 mm	0715 22 51	1
36 x 41 mm	395 mm	77.5 mm	85.5 mm	0715 22 52	1
38 x 42 mm	395 mm	75 mm	83 mm	0715 22 53	1
41 x 46 mm	400 mm	85 mm	94 mm	0715 22 54	1

Adjustable open-end wrench

- Standard: DIN 3117/ISO 6787
- Surface: Polished head
- Geometry: 22.5° offset head, clockwise model with metric scale for rapid and reliable identification of width across flats



Jaw position	22.5 Degree
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Max. width across flats	Length in inches (L)	Length (L)	Jaws thickness (T)	Thickness (S)	Art. no.	P. Qty.
13 mm	4 in	114 mm	4.5 mm	9.5 mm	0715 221 04	1/10
19.2 mm	6 in	159 mm	5.8 mm	10.8 mm	0715 221 06	1/10
24 mm	8 in	206 mm	7 mm	13.5 mm	0715 221 08	1/10
29 mm	10 in	257 mm	8 mm	16 mm	0715 221 10	1/10
34 mm	12 in	320 mm	10 mm	19 mm	0715 221 12	1/5
43 mm	15 in	386 mm	13 mm	24 mm	0715 221 15	1/5
53 mm	18 in	462 mm	16 mm	29 mm	0715 221 18	1/5

Double ring wrench, deep offset

Metric, DIN 838/ISO 3318

- Drive: POWERDRIV bi-hex
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished rings
- Geometry: Ring end offset 18°



Material	Chrome-vanadium steel
Surface	Chrome plated



POWERDRIV

Width across flats	External diameter of ring (d1)	External diameter of ring 2 (d2)	Ring thickness (a1)	Ring thickness 2 (a2)	Art. no.	P. Qty.
6 x 7 mm	10.8 mm	12.2 mm	5.4 mm	5.9 mm	0713 305 067	1/10
8 x 9 mm	13.2 mm	14.7 mm	6.4 mm	6.9 mm	0713 305 089	1/10
8 x 10 mm	13.2 mm	16.3 mm	6.9 mm	7.9 mm	0713 305 080	1/10
10 x 11 mm	16.3 mm	17.4 mm	7.4 mm	7.9 mm	0713 305 101	1/10
10 x 13 mm	16.3 mm	20.7 mm	7.9 mm	9.9 mm	0713 305 103	10
12 x 13 mm	19 mm	20.7 mm	8.4 mm	9.5 mm	0713 305 123	1/10
13 x 17 mm	20.7 mm	26.2 mm	9.9 mm	11.8 mm	0713 305 137	1/10
14 x 15 mm	22.1 mm	23.4 mm	9.9 mm	10.3 mm	0713 305 145	1/10
16 x 17 mm	25.4 mm	26.2 mm	10.8 mm	11.3 mm	0713 305 167	1/10
16 x 18 mm	25.6 mm	28.2 mm	11.3 mm	11.8 mm	0713 305 168	1/10
17 x 19 mm	28 mm	29.4 mm	11.3 mm	11.8 mm	0713 305 179	1/10
18 x 19 mm	28 mm	29.4 mm	11.3 mm	11.8 mm	0713 305 189	1/10
20 x 22 mm	31.2 mm	33.1 mm	11.8 mm	12.8 mm	0713 305 202	1/10
21 x 23 mm	32.1 mm	35.5 mm	12.3 mm	12.8 mm	0713 305 213	1/10
22 x 24 mm	33 mm	37 mm	12.8 mm	14.3 mm	0713 305 224	1/10
24 x 26 mm	37 mm	39 mm	12.8 mm	13.8 mm	0713 305 246	1/10
24 x 27 mm	37 mm	41 mm	12.8 mm	14.3 mm	0713 305 247	1/10
25 x 28 mm	37.8 mm	42 mm	13.8 mm	14.8 mm	0713 305 258	1/10
27 x 29 mm	41 mm	44.3 mm	14.8 mm	15.8 mm	0713 305 279	1/5
30 x 32 mm	45 mm	48.2 mm	14.8 mm	15.8 mm	0713 305 302	1/5
30 x 34 mm	45.3 mm	51.2 mm	15.8 mm	16.7 mm	0713 305 304	1/5

Double-end box wrench, deep depressed centre

8 pieces. Metric, DIN 838/ISO 3318.

- Drive: POWERDRIV bi-hex
- Material: Chromium-vanadium steel
- Surface: Chromium-plated, polished rings
- Geometry: Ring end offset 18°



Number of pieces in assortment/set	8 PCS
Width across flats	6 x 7 mm, 8 x 9 mm, 10 x 11 mm, 12 x 13 mm, 14 x 15 mm, 16 x 17 mm, 18 x 19 mm, 20 x 22 mm



Art. no. 0713 305 40

P. Qty.: 1

Contents for art. no. 0713 305 40		
Designation	Art. no.	Quantity
Double ring wrench, deep offset 6 x 7 mm	0713 305 067	1
Double ring wrench, deep offset 8 x 9 mm	0713 305 089	1
Double ring wrench, deep offset 10 x 11 mm	0713 305 101	1
Double ring wrench, deep offset 12 x 13 mm	0713 305 123	1
Double ring wrench, deep offset 14 x 15 mm	0713 305 145	1
Double ring wrench, deep offset 16 x 17 mm	0713 305 167	1
Double ring wrench, deep offset 18 x 19 mm	0713 305 189	1
Double ring wrench, deep offset 20 x 22 mm	0713 305 202	1

Double-end box wrench assortment, deep offset

10 pieces. Metric, DIN 838/ISO 3318.

- Drive: POWERDRIV bi-hexagon
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, polished rings
- Geometry: Ring end offset 18°

Number of pieces in assortment/set	10 PCS
Width across flats	8 x 9 mm, 10 x 11 mm, 12 x 13 mm, 14 x 15 mm, 16 x 17 mm, 18 x 19 mm, 20 x 22 mm, 21 x 23 mm, 24 x 27 mm, 30 x 32 mm



Art. no. 0713 305 41

P. Qty.: 1



Contents for art. no. 0713 305 41

Designation	Art. no.	Quantity
Double ring wrench, deep offset 8 x 9 mm	0713 305 089	1
Double ring wrench, deep offset 10 x 11 mm	0713 305 101	1
Double ring wrench, deep offset 12 x 13 mm	0713 305 123	1
Double ring wrench, deep offset 14 x 15 mm	0713 305 145	1
Double ring wrench, deep offset 16 x 17 mm	0713 305 167	1
Double ring wrench, deep offset 18 x 19 mm	0713 305 189	1
Double ring wrench, deep offset 20 x 22 mm	0713 305 202	1
Double ring wrench, deep offset 21 x 23 mm	0713 305 213	1
Double ring wrench, deep offset 24 x 27 mm	0713 305 247	1
Double ring wrench, deep offset 30 x 32 mm	0713 305 302	1

Double ring wrench set, deep offset

12 pieces. Metric, DIN 838/ISO 3318.

Drive: POWERDRIV bi-hexagon

Material: Chrome-vanadium steel

Surface: Chrome-plated, polished rings

Geometry: Ring end offset 18°

Contents: 12 pieces

1 each of double-end box wrench, 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32

Number of pieces in assortment/set	12 PCS
Width across flats	6 x 7 mm, 8 x 9 mm, 10 x 11 mm, 12 x 13 mm, 14 x 15 mm, 16 x 17 mm, 18 x 19 mm, 20 x 22 mm, 21 x 23 mm, 24 x 27 mm, 25 x 28 mm, 30 x 32 mm



Art. no. 0713 305 42

P. Qty.: 1

Contents for art. no. 0713 305 42

Designation	Art. no.	Quantity
Double ring wrench, deep offset 6 x 7 mm	0713 305 067	1
Double ring wrench, deep offset 8 x 9 mm	0713 305 089	1
Double ring wrench, deep offset 10 x 11 mm	0713 305 101	1
Double ring wrench, deep offset 12 x 13 mm	0713 305 123	1
Double ring wrench, deep offset 14 x 15 mm	0713 305 145	1
Double ring wrench, deep offset 16 x 17 mm	0713 305 167	1
Double ring wrench, deep offset 18 x 19 mm	0713 305 189	1
Double ring wrench, deep offset 20 x 22 mm	0713 305 202	1
Double ring wrench, deep offset 21 x 23 mm	0713 305 213	1
Double ring wrench, deep offset 25 x 28 mm	0713 305 258	1
Double ring wrench, deep offset 30 x 32 mm	0713 305 302	1

Double ring wrench Powerdriv®

Design: metric, straight

- Drive: POWERDRIV bi-hex
- Standard: DIN 837/ISO 1085
- Material: Chromium-vanadium steel
- Surface: polished, chrome-plated
- Geometry: Straight ring sides, 12° angle of rotation. Thin-walled heads, countersunk on both sides
- Short shaft and slim heads for working in the tightest of spaces.


POWERDRIV

Material	Chrome-vanadium steel
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Width across flats	External diameter of ring (d1)	External diameter of ring 2 (d2)	Ring thickness (a1)	Ring thickness 2 (a2)	Art. no.	P. Qty.
6 x 7 mm	10 mm	11.5 mm	4.5 mm	4.5 mm	0714 216 7	1/10
8 x 9 mm	13 mm	14 mm	5 mm	5 mm	0714 218 9	1/10
10 x 11 mm	16 mm	17 mm	6 mm	6 mm	0714 211 011	1/10
12 x 13 mm	18.5 mm	20.5 mm	7.2 mm	7.2 mm	0714 211 213	1/10
13 x 15 mm	20.5 mm	21.5 mm	7.2 mm	7.2 mm	0714 211 315	1/10
13 x 17 mm	20.5 mm	25.5 mm	8 mm	8 mm	0714 211 317	1/10
14 x 15 mm	21 mm	22 mm	7.2 mm	7.2 mm	0714 211 415	1/10
16 x 17 mm	24.5 mm	25.5 mm	8.5 mm	8.5 mm	0714 211 617	1/10
16 x 18 mm	24.5 mm	25.5 mm	9 mm	9 mm	0714 211 618	1/10
17 x 19 mm	25.5 mm	28 mm	9 mm	9 mm	0714 211 719	1/10
18 x 19 mm	27 mm	28 mm	9 mm	9 mm	0714 211 819	1/10
20 x 22 mm	29.5 mm	32.5 mm	11 mm	11 mm	0714 212 022	1/10
21 x 23 mm	30.5 mm	33.5 mm	11.5 mm	11.5 mm	0714 212 123	1/5
24 x 27 mm	35.5 mm	39 mm	11.5 mm	11.5 mm	0714 212 427	1/5
25 x 28 mm	36.5 mm	41 mm	12 mm	12 mm	0714 212 528	1/5
30 x 32 mm	43.5 mm	46 mm	13 mm	13 mm	0714 213 032	1/5

Double-end box wrench, extra long

For high tightening and releasing forces.

- Design: Metric
- Drive: Ring side POWERDRIV, bihexagonal
- Standard: Width across flats per DIN 475 Part II
- Material: Chrome-vanadium steel
- Surface: Chrome-plated basic body with a matt satin finish
- Geometry: Straight, very slim ring design for hard-to-reach areas



POWERDRIV

Material	Chrome-vanadium steel
Surface	Chrome plated

Width across flats	External diameter of ring (d1)	External diameter of ring 2 (d2)	Ring thickness (a1)	Ring thickness 2 (a2)	Art. no.	P. Qty.
10 x 11 mm	15 mm	18.1 mm	8 mm	9 mm	0714 235 101	1
12 x 14 mm	17.2 mm	20 mm	9.7 mm	10.8 mm	0714 235 124	1
13 x 15 mm	20 mm	21.6 mm	11 mm	12 mm	0714 235 135	1
16 x 18 mm	22.6 mm	26 mm	12.3 mm	13.3 mm	0714 235 168	1
17 x 19 mm	26 mm	26.5 mm	13.8 mm	14 mm	0714 235 179	1
22 x 24 mm	30 mm	32 mm	14.7 mm	16.4 mm	0714 235 224	1

Double-end box wrench set, extra long

6-piece, delivery includes tool roll

- Design: Metric
- Drive: Ring side POWERDRIV, bihexagonal
- Standard: Width across flats per DIN 475 Part II
- Material: Chrome-vanadium steel
- Surface: Chrome-plated basic body with a matt satin finish
- Geometry: Straight, very slim ring design for hard-to-reach areas



Number of pieces in assortment/set	6 PCS
Width across flats	10 x 11 mm, 12 x 14 mm, 13 x 15 mm, 16 x 18 mm, 17 x 19 mm, 22 x 24 mm

Art. no. 0714 235 50

P. Qty.: 1

Contents for art. no. 0714 235 50		
Designation	Art. no.	Quantity
Double-end box wrench, extra long 10 x 11 mm	0714 235 101	1
Double-end box wrench, extra long 12 x 14 mm	0714 235 124	1
Double-end box wrench, extra long 13 x 15 mm	0714 235 135	1
Double-end box wrench, extra long 16 x 18 mm	0714 235 168	1
Double-end box wrench, extra long 17 x 19 mm	0714 235 179	1
Double-end box wrench, extra long 22 x 24 mm	0714 235 224	1

Double-ended socket wrench

- Drive: Hexagon, metric
- Standard: based on DIN 896
- Material: Chrome-vanadium steel, solid forged
- Surface: matt chrome-plated
- Polished heads
- Shaft: Hexagon



Width across flats	Length (L)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Diameter of hole (d3)	Art. no.	P. Qty.
6 x 7 mm	105 mm	10 mm	11 mm	4 mm	0714 246 7	1/10
8 x 9 mm	110 mm	12.5 mm	13.5 mm	4 mm	0714 248 9	1/10
10 x 11 mm	120 mm	15 mm	16 mm	5 mm	0714 241 011	1/10
12 x 13 mm	140 mm	17.5 mm	19 mm	5.5 mm	0714 241 213	1/10
14 x 15 mm	145 mm	20 mm	21.5 mm	6 mm	0714 241 415	1/10
16 x 17 mm	155 mm	22.5 mm	24 mm	7 mm	0714 241 617	1/10
18 x 19 mm	165 mm	25.5 mm	26 mm	8 mm	0714 241 819	1/10
20 x 22 mm	175 mm	28 mm	30 mm	9 mm	0714 242 022	1/10
21 x 23 mm	185 mm	29 mm	31 mm	10 mm	0714 242 123	1/5
24 x 27 mm	195 mm	32.5 mm	36.5 mm	12 mm	0714 242 427	1/5
25 x 28 mm	205 mm	34 mm	37 mm	12 mm	0714 242 528	1/5
30 x 32 mm	210 mm	41.5 mm	44.5 mm	14 mm	0714 243 032	1/5

6 x 7 mm to 8 x 9 mm not drilled end-to-end, 10 x 11 mm to 30 x 32 mm drilled end-to-end for inserting long threaded rods

Double-ended socket wrench assortment, 14 pieces

Number of pieces in assortment/set	14 PCS
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Art. no. 0714 249 010

P. Qty.: 1



Contents for art. no. 0714 249 010		
Designation	Art. no.	Quantity
Double-ended socket wrench 6 x 7 mm	0714 246 7	1
Double-ended socket wrench 8 x 9 mm	0714 248 9	1
Double-ended socket wrench 10 x 11 mm	0714 241 011	1
Double-ended socket wrench 12 x 13 mm	0714 241 213	1
Double-ended socket wrench 14 x 15 mm	0714 241 415	1
Double-ended socket wrench 16 x 17 mm	0714 241 617	1
Double-ended socket wrench 18 x 19 mm	0714 241 819	1
Double-ended socket wrench 20 x 22 mm	0714 242 022	1
Double-ended socket wrench 21 x 23 mm	0714 242 123	1
Double-ended socket wrench 24 x 27 mm	0714 242 427	1
Double-ended socket wrench 25 x 28 mm	0714 242 528	1

Continuation **Double-ended socket wrench assortment, 14 pieces**

Designation	Art. no.	Quantity
Double-ended socket wrench 30 x 32 mm	0714 243 032	1
Stepped tommy bar 180 mm	0714 246 15	1
Stepped tommy bar 280 mm	0714 241 632	1

Double-jointed socket wrench

- Drive: POWERDRIV. Bi-hex socket wrench
- Material: Chrome-vanadium steel
- Surface: matt chrome-plated
- Geometry: both sides swivel by 90°



POWERDRIV

Width across flats	Length (L)	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Art. no.	P. Qty.
8 x 9 mm	175 mm	12 mm	13.5 mm	0714 244 089	1/10
10 x 11 mm	197 mm	14.5 mm	16 mm	0714 244 101	1/10
12 x 13 mm	213 mm	17.5 mm	19 mm	0714 244 123	1/10
13 x 17 mm	250 mm	19 mm	24 mm	0714 244 137	1/10
14 x 15 mm	232 mm	20 mm	21.5 mm	0714 244 145	1/10
16 x 18 mm	272 mm	22.5 mm	25 mm	0714 244 168	1/10
17 x 19 mm	274 mm	24 mm	26.5 mm	0714 244 179	1/10

Open-end slugging wrench

Metric, straight

- Standard: DIN 133
- Material: Special forged steel with high impact resistance
- Surface: Steel grey
- Geometry: Short, strong profile shaft and slugging end for the most demanding of tasks
- Head offset 15°



Width across flats	Art. no.	P. Qty.
30 mm	0715 27 30	1
32 mm	0715 27 32	1
36 mm	0715 27 36	1
41 mm	0715 27 41	1
46 mm	0715 27 46	1
50 mm	0715 27 50	1
55 mm	0715 27 55	1
60 mm	0715 27 60	1
65 mm	0715 27 65	1
70 mm	0715 27 70	1

Slugging box wrench

Metric, straight

- Output: Bi-hexagon
- Standard: DIN 7444
- Material: Special forged steel with high impact resistance
- Surface: Steel grey
- Geometry: Short, strong profile shaft and slugging end for the most demanding of tasks



Tip type	Twelve-sided head
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Width across flats	Ring thickness (a)	External diameter of ring (d1)	Length (L)	Art. no.	P. Qty.
27 mm	16 mm	46 mm	180 mm	0715 261 27	1
30 mm	17 mm	52 mm	190 mm	0715 261 30	1
32 mm	17 mm	52 mm	190 mm	0715 261 32	1
36 mm	18 mm	58 mm	205 mm	0715 261 36	1
41 mm	20 mm	66 mm	230 mm	0715 261 41	1
46 mm	22 mm	74 mm	240 mm	0715 261 46	1
50 mm	24 mm	80 mm	255 mm	0715 261 50	1
55 mm	25 mm	86 mm	270 mm	0715 261 55	1
60 mm	26 mm	93 mm	280 mm	0715 261 60	1
65 mm	30 mm	102 mm	300 mm	0715 261 65	1
70 mm	33 mm	110 mm	330 mm	0715 261 70	1



Malleable cast iron screw clamp with protective cap

For rigid, non-elastic, secure clamping

- Fixed and sliding bars in high-quality, powder-coated malleable iron
- Movable, cold-extruded pressure plate, galvanised
- Slip prevention: if the clamp tilts, a set screw engages in the track guide
- Hollow profile track in cold-drawn quality steel with six-fold ribbing, galvanised
- Spindle with trapezoidal thread, rolled and strain-hardened

Max. clamping width	Overhang (L1)	Profile width (B)	Profile thickness (L2)	Art. no.	P. Qty.
120 mm	60 mm	20 mm	5 mm	0714 671 12	1/10
160 mm	80 mm	25 mm	6 mm	0714 671 16	1/10
200 mm	100 mm	27 mm	7 mm	0714 671 20	10
250 mm	100 mm	27 mm	7 mm	0714 672 25	1/10
250 mm	120 mm	29 mm	9 mm	0714 671 25	1/10
300 mm	120 mm	29 mm	9 mm	0714 672 30	1/5
300 mm	140 mm	32 mm	10 mm	0714 671 30	1/10
400 mm	120 mm	29 mm	9 mm	0714 672 40	1/10
400 mm	175 mm	32 mm	10 mm	0714 671 40	1/5
500 mm	120 mm	29 mm	9 mm	0714 671 500	1/10
500 mm	140 mm	32 mm	10 mm	0714 672 50	1/5
500 mm	175 mm	32 mm	10 mm	0714 673 50	1/5
600 mm	120 mm	29 mm	9 mm	0714 671 600	1/5
600 mm	140 mm	32 mm	10 mm	0714 672 60	1/5
600 mm	175 mm	32 mm	10 mm	0714 673 60	1/5
800 mm	120 mm	29 mm	9 mm	0714 671 800	1/5

Max. clamping width	Overhang (L1)	Profile width (B)	Profile thickness (L2)	Art. no.	P. Qty.
800 mm	175 mm	32 mm	10 mm	0714 672 80	1/5
1000 mm	120 mm	29 mm	9 mm	0714 671 101	1/5
1000 mm	175 mm	32 mm	10 mm	0714 672 100	1/5

Malleable cast iron screw clamp without protective caps

For rigid, non-elastic, secure clamping

- Robust design (bar clamps)
- Fixed and sliding bars in high-quality, powder-coated malleable iron
- Movable, cold-extruded pressure plate, galvanised
- Slip prevention: if the clamp tilts, a set screw engages in the track guide
- Hollow profile track in cold-drawn quality steel with six-fold ribbing, galvanised
- Spindle with trapezoidal thread, rolled and strain-hardened



Overhang (L1)	120 mm
Profile width (B)	35 mm
Profile thickness (L2)	11 mm

Max. clamping width	Art. no.	P. Qty.
500 mm	0714 671 50	1/5
600 mm	0714 671 60	1/5
800 mm	0714 671 80	1/5
1000 mm	0714 671 100	1/5
1250 mm	0714 671 125	1/5
1500 mm	0714 671 150	1/5
2000 mm	0714 671 200	1/5
2500 mm	0714 671 250	1/5

Solid steel quick-action lever clamp

Simple and handy clamping tool, for flexible, elastic and sensitive clamping.

- With swivelling, case-hardened, galvanised steel pressure plate
- Ratchet mechanism with sliding bar forged from one piece, hardened and galvanised
- Sintered steel cam with high surface hardness



Max. external clamping width	Overhang	Profile thickness	Art. no.	P. Qty.
160 mm	80 mm	7.5 mm	0714 676 16	1/10
200 mm	100 mm	9.5 mm	0714 676 20	1/10
250 mm	120 mm	10.5 mm	0714 676 25	1/10
300 mm	140 mm	12 mm	0714 676 30	1/10
400 mm	120 mm	12 mm	0714 676 40	1/10

Terrace construction clamp

Clamp, open and spread with just one hand

- 150 kg clamping force
- Excellent, comfortable handle design
- Spreading function for increased versatility
- Fixed and sliding bars made of fibreglass-reinforced plastic
- Spacer function for increased convenience

Scope of delivery:

- 1 x terrace construction clamp (incl. terrace clamping jaws)
- 2 x universal clamping jaws for use as versatile one-handed clamp



Overhang	100 mm
Profile thickness	6 mm
Tension force	1500 N

Art. no. 0714 662 451

P. Qty.: 1

One-handed assembly tool from VIKING ARM

High-quality, one-handed assembly tool for the professional craftsman

- Millimetre-precision adjustment of heavy objects (150 kg)
- Quick assembly (lifting, lowering, clamping)
- For a wide range of applications

Max. external clamping width	215 mm
Min./max. internal clamping width	155-380 mm
Overhang	38 mm
Profile thickness	6 mm
Tension force	1.5 kN



Art. no. 0714 662 970

P. Qty.: 1/2

Solid steel screw clamp with wooden handle

Easy and handy clamping tool for flexible, elastic and sensitive clamping.

- Dimensionally stable and warp-resistant even under high loads
- Optimum adaptation and enhanced corrosion protection due to movable galvanised pressure plate
- Extremely wear-resistant and effortless to use
- Optimal power transmission



Max. clamping width	Overhang (L1)	Profile width (B)	Profile thickness (L2)	Art. no.	P. Qty.
160 mm	80 mm	16 mm	7.5 mm	0714 674 16	1/10
200 mm	100 mm	19.5 mm	9.5 mm	0714 674 20	1/10
250 mm	120 mm	22 mm	10.5 mm	0714 674 25	1/10
300 mm	140 mm	25 mm	12 mm	0714 674 30	1/10
400 mm	120 mm	25 mm	12 mm	0714 674 40	1/10
500 mm	120 mm	25 mm	12 mm	0714 674 50	1/5
600 mm	120 mm	25 mm	12 mm	0714 674 60	1/5

All-steel screw clamp with T-handle

Simple and handy clamping tool, for flexible, elastic and sensitive clamping.

Robust design with reinforced fixed and sliding bars

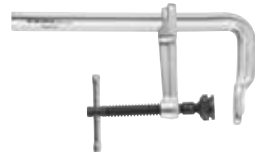
For maximum loads and optimum security.

Movable special pressure plate, swivels to 35°

Effortlessly adapts to the material being clamped.

Spindle with rolled, strain-hardened and hardened trapezoidal thread

T-handle for very heavy-duty applications.



Profile width (B)	30 mm
Profile thickness (L2)	15 mm

Max. clamping width	Overhang (L1)	Art. no.	P. Qty.
250 mm	120 mm	0714 675 25	1/5
300 mm	140 mm	0714 675 30	1/5
500 mm	120 mm	0714 675 50	1/5
800 mm	120 mm	0714 675 80	1/5
1000 mm	120 mm	0714 675 100	1/5
1250 mm	120 mm	0714 675 125	1/5
1500 mm	120 mm	0714 675 150	1/5

Screw clamp, malleable cast iron

Flexible 2-component handle

- Ergonomically sophisticated design
- With soft casing that fits nicely in the hand for the toughest demands
- With seam-free smooth cap
- Integrated slip protection prevents the loosening and slipping of the clamp
- Fixed and sliding bars reinforced with corrugations made of high-quality malleable iron, powder-coated
- High-quality hollow profile rail as a reinforcement against torsional forces with 6x fluting



Max. clamping width	Overhang (L1)	Profile width (B)	Profile thickness (L2)	Art. no.	P. Qty.
160 mm	80 mm	25 mm	6 mm	0714 673 116	1/10
200 mm	100 mm	27 mm	7 mm	0714 673 120	1/10
250 mm	120 mm	29 mm	9 mm	0714 673 125	1/10

Continuation **Screw clamp, malleable cast iron**

Max. clamping width	Overhang (L1)	Profile width (B)	Profile thickness (L2)	Art. no.	P. Qty.
300 mm	120 mm	29 mm	9 mm	0714 673 130	1/10
600 mm	120 mm	29 mm	9 mm	0714 673 160	1/5
800 mm	120 mm	9 mm	9 mm	0714 673 180	1/5

All-steel screw clamp

2-component handle

- Ergonomically engineered design
- Soft casing sits comfortably in the hand for heavy-duty requirements
- Smooth, seamless cap
- Hardened fixed bar and pressure plate
- Sliding bar in forged, hardened steel for flexible and elastic clamping
- Surface-coated spindle with trapezoidal thread



Max. clamping width	Overhang (L1)	Profile width (B)	Profile thickness (L2)	Art. no.	P. Qty.
160 mm	80 mm	16 mm	7.5 mm	0714 674 216	1/10
200 mm	100 mm	19.5 mm	9.5 mm	0714 674 220	1/10
250 mm	120 mm	22 mm	10.5 mm	0714 674 225	1/10
300 mm	120 mm	22 mm	10.5 mm	0714 674 230	1/10

One-handed clamp

Clamp, open and spread with just one hand

- Clamp workpieces more securely
- Excellent, comfortable handle design
- Spreading function for increased versatility
- Fixed and sliding bars made of fibreglass-reinforced plastic
- Spacer function for increased convenience



Overhang	100 mm
Profile thickness	6 mm
Tension force	1500 N

Max. external clamping width	Art. no.	P. Qty.
150 mm	0714 662 150	1
300 mm	0714 662 300	1
450 mm	0714 662 450	1
700 mm	0714 662 700	1

Gluing clamp

Adjustable gluing clamp for gentle clamping

Large clamping range with equal pressure force

Corrugated ratchet for reliable pre-setting of clamping arm

Pressure plates made of soft plastic protect against scratching



Max. external clamping width	Overhang	Art. no.	P. Qty.
60 mm	37 mm	0714 661 900	4
100 mm	50 mm	0714 661 901	4

Window installation clamp

The window installation clamp is an assembly aid for setting and aligning wood, plastic and aluminium window frames.

- Can be used for frame thicknesses from 40 – 85 mm
- Replaces wedges and other spacers which previously had to be used to align window frames with the opening.
- Clamp body in fibre-reinforced super polyamide
- Swivelling plastic protective cap on the spindle is used for attaching the clamp to the inner frame and adapts to any frame profile shape. Supported on the opposite side by two slip-resistant steel jaws.
- Spindle and rails in bright galvanised steel
- Handy wooden handles, riveted burr-free



Material	Steel
Min./max. clamping width	40-85 mm
Min. clamping width	40 mm
Max. clamping width	85 mm
Material of the grip handle	Wood
Overhang	60 mm

Art. no. 0715 67 75

P. Qty.: 4

Inflatable air cushion Amo bag

For rapid positioning and spacing when installing windows

- Protects casing and frame
- Amo bags can be reused again and again
- Immediately ready for completion with mountings and joint compound



Min./max. joint width	3 x 50 mm
Load-bearing capacity (single direct)	100 kg
Material	Fibre-reinforced plastic

Art. no. 0715 67 80

P. Qty.: 1/4

Door frame clamp

The door frame clamp fixes and supports the door frame gently and precisely whilst wall joints are filled with foam.

- Eliminates the need for laborious alignment using inserts, wedges or spreaders
- Eliminates distortion even if the internal pressure of the foam is uneven



Min./max. clamping width	545-1010 mm
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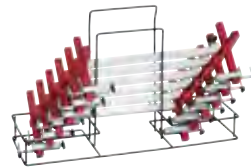
Art. no. 0695 965 1

P. Qty.: 1/2

Door frame clamp rack

Equipped with 6 door frame clamps

- The door frame clamp secures and supports the door frame gently and precisely whilst wall joints are filled with foam.
- No need for laborious alignment using inserts, wedges or spreaders
- Eliminates distortion even if the internal pressure of the foam is uneven



Art. no. 0695 965 2

P. Qty.: 1

Window installation tool set

For the fast and simple assembly of windows and doors

- Rotating the handle pushes the two metal plates against one another, allowing very precise adjustment and bracing of the windows during installation.
- The smooth surface of the metal plates means the window can still be aligned after bracing.
- Handle made from 2-component plastic
- Flexible shank between handle and metal plates
- Can be used even in tight spaces



Min./max. spreading height	10-21 mm
Length	360 mm
Spreading range	21 mm

Art. no. 0715 67 120

P. Qty.: 2

Wood clamp

Light wood clamp with continuous pressure control

- Slip-proof cork surface
- No denting
- Highly robust, best-quality hornbeam wood with bright galvanised steel rail



Overhang	110 mm
----------	--------

Max. external clamping width	Art. no.	P. Qty.
200 mm	0715 67 22	1/10
300 mm	0715 67 23	1/10
400 mm	0715 67 24	1/10
600 mm	0715 67 25	1/10
800 mm	0715 67 26	1/10

Door frame straightening clamp

For fast and precise adjustment of the door jamb

- Eliminates the need for laborious alignment using inserts or wedges
- Clamp body in fibre-reinforced super polyamide
- Two fixed rails as counter supports, one moving rail to align the frame (spring-mounted)
- Spindle and rails in bright galvanised steel
- Pressure plates with large protective caps
- Manageable wooden handles, riveted burr-free



Material	PA - Polyamide
Material of the grip handle	Wood
Overhang	70 mm

Art. no. 0715 67 70

P. Qty.: 2

Nut splitter

For the splitting seized nuts up to strength class 6

- The nut splitter is capable of splitting nuts without damaging the stud bolt (where necessary, positioned on the opposite side)
- Compact design for use in restricted spaces
- Damaged and blunt splitting chisels must be replaced to avoid inadvertent chipping
- Die-forged body
- Hardened chisel



Material	Steel
----------	-------

Width across flats, splitter range (A)	Cabinet width (B)	Width (C)	Length (D)	Art. no.	P. Qty.
Wrench size 10 - 17 mm	4.7 mm	33 mm	90 mm	0714 526 020	1
Wrench size 17 - 24 mm	6.5 mm	42 mm	96 mm	0714 526 030	1
Wrench size 24 - 36 mm	9 mm	60 mm	142 mm	0714 526 040	1

Wear safety goggles

Rafter clamp

Manageable clamping tool

- Fixed clamp with tip for driving into rafters
- Recesses on both sides of fixed bar
- Striking surface for driving in the clamp
- Movable, cold-extruded pressure plate, galvanised
- Spindle with rolled and strain-hardened trapezoidal thread, smooth running
- Profile rail in cold-drawn quality steel, galvanised



Max. clamping width	600 mm
Overhang (L1)	120 mm
Profile width (B)	27 mm
Profile thickness (L2)	13 mm

Art. no. 0714 675 960

P. Qty.: 1/5

Panel grip

Panel grip for transporting and lifting panels and boards easily.

- Clamping jaws made from high-quality plastic with a vulcanised rubber coating, for an extremely secure grip and a long service life.
- Clear rubber coating prevents colour from the jaw marking the workpiece.
- Ergonomically designed handles
- Fork shape means clamping jaws can be pushed into the part to be lifted from either the side or the front.



Min./max. clamping width	0-60 mm
Max. loading weight	120 kg
Length	240 mm
Height	170 mm
Width	150 mm

Art. no. 0715 67 45

P. Qty.: 2

Not suitable for use with cranes, hoists or the like

Press-on roller

For pressing on large areas of material bonded with contact adhesive

- Stable metal handle
- High-quality rubber roller

Width	75 mm
Outer diameter	35 mm
Roller material	Rubber
Material of the grip handle	Plastic



Art. no. 0693 011 756

P. Qty.: 1



16 mm strapping system Spannfix

The strapping can withstand extreme loads of 500 kg

- Five times lighter than steel strapping
- Simple securing by hand or using the tensioner
- UV and weather-resistant

Width of band	16 mm
Material of the clamp band	PES - Polyester
Length of tape	850 m
Number of strap clips	1000 PCS

Art. no. 0899 713 000

P. Qty.: 1

Tensioner

For Spannfix strapping system

Multi-functional

Tension and cut the polyester strapping in one step

Easy to use

Material	Steel
----------	-------



Suitable for min./max. strap width	Art. no.	P. Qty.
9-19 mm	0899 713 003	1
19-25 mm	0899 713 006	1

Impact loads may require a larger number of strapping turns!

Strapping clip

For Spannfix strapping system

Simple securing by hand or using the tensioner

- Easy retensioning
- Does not loosen, even during long storage periods

Clips can be used multiple times

Excellent value for money



Material	Steel
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Width of band	Width	Art. no.	P. Qty.
13 mm		0899 713 040	1000
16 mm	16 mm	0899 713 001	1000
19 mm	19 mm	0899 713 060	1000
25 mm	25 mm	0899 713 070	500

When lashing bundled goods on a loading surface, loads must be properly secured using non-slip mats and lashing straps.

Impact loads may require a larger number of strapping turns!

Polyester strapping For Spannfix strapping system

Flexible polyester strapping for strapping or bundling a wide range of materials

- Five times lighter than steel tape, tape and clips can be used multiple times
- UV and weather resistant, largely chemical resistant
- No sharp edges, leaves no scratches or rust spots

Material of the clamp band	PES - Polyester
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Tear-out force	Width of band	Length of tape	Art. no.	P. Qty.
375 daN	13 mm	1100 m	0899 713 840	2
500 daN	16 mm	850 m	0899 713 850	2
725 daN	19 mm	500 m	0899 713 860	2
1250 daN	25 mm	400 m	0899 713 870	2

Loads subject to impact may require additional strapping.

When lashing bundled goods on a loading surface, loads must be properly secured using non-slip mats and lashing straps.

Edge protection

Sturdy edge protection for Spannfix strapping system

- Can be reused multiple times
- Protects the load against damage and the polyester strapping against sharp edges
- UV and weather-resistant



Width	40 mm
Max. tape width	19 mm

Art. no. 0899 713 005

P. Qty.: 500

- Loads subject to impact may require additional strapping.
- The strapping can withstand extreme loads of 500 kg
- Rules of thumb for determining the system strength

Weight of packed items/number of strapping turns

500 kg/2

750 kg/3

1000 kg/4

1500 kg/5

When lashing bundled goods on a loading surface, non-slip mats and lashing belts are required to properly secure loads.

Twin leg external and internal puller Universal

Use as external or internal puller by switching hooks

- Classic puller for secure and rapid removal of races, gears, ball bearings etc.
- Drop-forged cross-beam and hooks
- Gas nitrocarburised spindle
- Precision-milled feet grip parts being removed securely and gently



Number of arms	2 PCS
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External clamping width (A)	Clamping depth (B)	Min./max. internal clamping width (C)	Spindle length	Hook width (D)	Art. no.	P. Qty.
90 mm	100 mm	90-140 mm	140 mm	22 mm	0714 522 090	1
130 mm	100 mm	100-180 mm	140 mm	22 mm	0714 522 130	1
160 mm	150 mm	130-220 mm	210 mm	30 mm	0714 522 160	1
200 mm	150 mm	130-260 mm	210 mm	30 mm	0714 522 200	1
250 mm	200 mm	190-330 mm	280 mm	36 mm	0714 522 250	1
350 mm	200 mm	190-420 mm	280 mm	36 mm	0714 522 350	1
520 mm	200 mm	250-600 mm	310 mm	36 mm	0714 522 520	1

Triple leg external and internal puller Universal

Use as external or internal puller by switching hooks

- Proven model for secure and rapid removal of races, gears, ball bearings etc.
- Even load distribution over 3 pulling hooks for a secure hold and centred removal
- Cross-beam in cast iron due to geometry
- Drop-forged hooks
- Gas nitrocarburised spindle
- Precision-milled feet grip parts being removed securely and gently



Number of arms	3 PCS
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External clamping width (A)	Clamping depth (B)	Min./max. internal clamping width (C)	Spindle length	Hook width (D)	Art. no.	P. Qty.
90 mm	100 mm	90-140 mm	140 mm	22 mm	0714 523 090	1
130 mm	100 mm	100-180 mm	140 mm	22 mm	0714 523 130	1
160 mm	150 mm	130-220 mm	210 mm	30 mm	0714 523 160	1

Universal puller

Three twin leg pullers in one

- With this set you can combine three pullers, which can be adjusted to the corresponding clamping depth depending on the application
- The long, slender hook geometry is particularly suitable for hard-to-reach areas
- Spindle gas-nitrocarburised
- Precision-milled feet securely and gently grasp pulled parts from behind



External clamping width (A)	130 mm
Clamping depth (B1)	100 mm
Clamping depth 2 (B2)	200 mm
Clamping depth 3 (B3)	250 mm
Spindle length	140 mm
Hook width (D)	27 mm
Hook-tip length (E)	6 mm
Hook-tip thickness (F)	3.6 mm
Max. extraction weight (t max)	2.5 t
Thread dimension	M14 x 1.5
Width across flats	17 mm
Min./max. external clamping width	34-130 mm

Art. no. 0714 52 50

P. Qty.: 1

Universal puller set

For six different twin leg and triple leg pullers

- Generous range of equipment for modular system configuration
- The long, slender hook geometry is particularly suitable for hard-to-reach areas
- Scope of delivery with case: one each of twin and triple leg cross-beam, 9 pullers in 3 sizes, 1 spindle



External clamping width (A)	130 mm
Clamping depth (B1)	100 mm
Clamping depth 2 (B2)	200 mm
Clamping depth 3 (B3)	250 mm
Spindle length	140 mm
Hook width (D)	27 mm
Hook-tip length (E)	6 mm
Hook-tip thickness (F)	3.6 mm
Max. extraction weight (t max)	2.5 t
Thread dimension	M14 x 1.5
Width across flats	17 mm

Art. no. 0714 52 500

P. Qty.: 1

External and internal puller set

The variable puller system can be used with 2 or 3 arms.

- Convert from an internal to an external puller or from 2 to 3 puller arms without using tools
- Thanks to the spring mechanism, only 2 arms must be actuated so that all 3 arms open or close
- Under load, the puller arms attach even more securely, the greater the pulling force applied
- Die-forged cross-beam and hooks
- Extremely wear-resistant spindle
- Precision-milled feet securely and gently grasp pulled parts from behind
- 3 internal and 3 external puller arms included in the scope of delivery



Spindle length	190 mm
Min./max. external clamping width	7-140 mm
Min./max. internal clamping width	23-130 mm
External clamping depth	147 mm
Internal clamping depth	140 mm

Art. no. 0715 52 40

P. Qty.: 1



Manual cartridge gun, High-quality

High-quality design, semi-open, made of sheet steel with plastic handle.

- Easy to use and quick feed
- With quick-release device
- Excellent force transmission, thus easier application

Design	High-quality
Colour	Red, Black

Art. no. 0891 00

P. Qty.: 1

Cartridge gun

Sturdy design, semi-open, made of sheet steel with feeding mechanism.

- Immediate power transmission to the push rod possible
- Great value for money

Design	High-quality
Colour	Black, Red

Art. no. 0891 310 1

P. Qty.: 1



Manual cartridge gun Standard

Standard design, semi-open, made of sheet steel with quick-release device.

Design	High-quality
Colour	Black, Red

Art. no. 0891 000 001

P. Qty.: 1



Manual cartridge gun Basic

Simple design, semi-open, made of sheet steel with riveted struts.

Design	Simple
Colour	Red

Art. no. 0891 001

P. Qty.: 1



Standard application nozzle

For bag goods

Material	Plastic
Colour	Transparent
Length	13 cm
Design	With punching mechanism

Art. no. 0891 601 001

P. Qty.: 20



Standard application nozzle

For 300 ml + 310 ml metal cartridges (fine thread)

- Length approx. 8 cm
- Three marked-out V-shaped nozzle cut-outs
- Colour: Transparent

Colour	Transparent
Length	8 cm
Material	Plastic

Art. no. 0890 100 099

P. Qty.: 12



Cover for cartridge tip

For 310 ml plastic cartridges

- Prevents the cartridge tip from drying out
- Easy to clean
- Can also be used on cut application nozzles

Colour	Red
Length	9 cm

Art. no. 0891 664

P. Qty.: 5



Flat spray nozzle for sprayable seam sealing

Special nozzle restoring original OEM seam structure

- For applying Dichtfix sealant

Colour	Transparent
Length	5 cm

Art. no. 0891 628 613

P. Qty.: 12



Application nozzle Standard

For 310 ml plastic cartridges (coarse thread)

Material	Plastic
Colour	Transparent
Length	10.5 cm

Art. no. 0891 653

P. Qty.: 25



Application nozzle

Can be rotated 360°. For 310 ml plastic cartridges (coarse thread)

- Easy to use in hard-to-reach places
- Easy and quick to use



Material	Colour	Length	Art. no.	P. Qty.
Plastic	Transparent	11 cm	0891 653 31	10
PP - Polypropylene	White, Transparent	110 mm	0891 653 3	10

Long application nozzle

For 310 ml plastic cartridges (coarse thread)

Material	Plastic
Colour	Transparent
Length	15 cm



Art. no. 0891 651 12

P. Qty.: 10

Application nozzle

Resealable. For 310 ml plastic cartridges (coarse thread).

- Injection nozzle can be sealed after use with supplied lid
- Slows down the drying out of the processing material



Material	Plastic
Colour	Transparent
Colour of lid	Red
Length	11 cm

Art. no. 0891 653 2

P. Qty.: 24

Caulking gun up to 300 ml 14:1

Robust sausage pack applicator gun can be converted for cartridges of different sizes and thicknesses

- Little effort and even pressing out of the sealant bags
- Immediate power transmission to the push rod
- By simply unscrewing the blue pack piston, also suitable for processing 290 to 310 ml cartridges



Design	Suitable for	Art. no.	P. Qty.
For 300 ml bags		0891 300 310	1
For 600 ml bags	300/600 ml bag	0891 400 610	1

Double cartridge gun For 380/620 ml

For processing 2-component adhesives AI-1 2C-PUR

Ergonomic and balanced handle

- Makes it easy to use the gun
- Possible to release the catch with one hand

High transmission

- The 400 kg push-out force enables gentle and fatigue-free work
- The double transmission distributes the manual power to both push rods to optimum effect

Material	Plastics - Polyamide PA
Product weight (per item)	1378.5 g

Art. no. 0891 601 23

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



PURLOGIC® 2C foam gun Twinpress

For applying 2-component foams, 2 x 110 ml

- Ergonomic and balanced handle
- High transmission
- Non-drip function prevents material overrun
- Snap-fit function enables improved grip and prevents the cartridge from sliding or falling out

Material	Plastics - Polyamide PA
Length	310 mm
Width	178 mm

Art. no. 0891 601 21

P. Qty.: 1



Battery NiMH-CX 14.4 V/1.4 Ah

Nominal voltage	14.4 V/DC
Rechargeable battery/battery capacity	1.4 Ah
Suitable chargers	AL 60-CX

Art. no. 0700 945 430

P. Qty.: 1



Pneumatic application gun Druckfix

Powerful and lightweight pneumatic application gun for applying products in bag goods. Ideally suited for adhesives and sealants with high and low viscosities.



- Lightweight, compact and ergonomic design
- Rotary pressure controller on handle for slow and fast extrusion
- Damper on quick-trigger valve ensures optimum movement
- Fully enclosed housing

Suitable for	300/600 ml bag
Flow capacity	7.2 l/min
Length	445 mm
Connection thread	1/4 inch
Weight of machine	0.95 kg

Art. no. 0703 891 600

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Please consider the legal instruction at the beginning of this chapter.

The average consumption for pneumatic application guns is approx. 7.2 litres/minute. Caution: The maximum working pressure for applying sealants is 6 bar.

Pneumatic cartridge gun Kombifix

For 310-ml cartridges



- Automatically reduces the mains pressure to 7-bar working pressure
- Infinitely and finely adjustable
- The amount of spraying air and material can each be regulated individually
- Two-step trigger
- Material feed via telescopic cylinder makes ingress of compressed air into the cartridge impossible
- Scope of delivery includes:
 - 10 plastic nozzles for sprayable seam sealant
 - 1 union nut for sprayable seam sealant
 - 1 union nut for standard sealing compounds
 - 1 connecting nipple, 1/4 inch

Suitable for	310 ml cartridge
Length	350 mm

Art. no. 0891 628 6

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Please consider the legal instruction at the beginning of this chapter.

The average consumption for pneumatic application guns is approx. 7.2 litres/minute. – Caution: The maximum working pressure for applying sealants with this pistol is 7 bar.

All-round paint spray gun AP HVLP

Universal low-pressure paint gun for paints, pre-materials and stains

- Fine, soft, homogeneous spray jet
- Integrated material quantity control
- Stepless round/wide jet control
- Self-adjusting air and material seal
- Plug-in paint screen
- Up to 15% less material consumption thanks to HVLP (high volume, low pressure) low-pressure technology
- High material transfer rate/low working speed

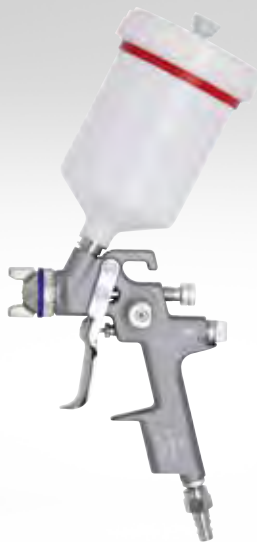


Contents	600 ml
Included in delivery (Lieferumfang)	Paint gun complete, 600 ml plastic cup, connecting nipple, tool set

Art. no. 0891 700 07

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



All-round paint gun AP

Universal high-pressure paint gun suitable for paints, pre-materials and staining

- Integrated material quantity control
- Self-adjusting air and material seal
- Ideally suited for priming and filler products thanks to nozzle design

Contents	600 ml
Included in delivery (Lieferumfang)	Paint gun complete, 600 ml plastic cup, connecting nipple, tool set

Art. no. 0891 700 05

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Zebra® topcoat gun DP 21 RP

Is the all-rounder among spray guns for trade and industry.

- Newly developed nozzle concept for even higher colour accuracy and uniform paint application
- Wider, smoother spray for faster work
- Perfect for applying base and clear lacquers
- Even better surface quality for flawless paint finish
- Very fine material atomisation with reduced fog
- Transfer rate $\geq 65\%$
- Perfect ergonomics for effortless work

Contents	600 ml
Included in delivery (Lieferumfang)	Plastic cup 600 ml, connecting nipple, tool set, 1.4 mm nozzle

Art. no. 0891 700 521

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Paint gun SATA MINIJET 3000 B HVLP

Compact, reduced-mist paint gun

- Applications range from design painting to touch-up work
- Material quantity control, continuous round/flat spray control on both sides
- Self-adjusting air and material seal

Contents	125 ml
Included in delivery (Lieferumfang)	Paint gun complete with 125 ml plastic cup, connecting nipple, tool set and 0.8 mm nozzle

Art. no. 0891 700 000

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



For further information on the paint gun, visit:

- www.sata.com
- www.sata.com/sal
- www.sata.com/garantieanmeldung
- www.sata.com/lackdaten

Filter screen

For the lid of the Würth replaceable cup system



Continuation **Filter screen**

Colour	Mesh size	Art. no.	P. Qty.
Blue	125 µm	0705 800 152	100
Green	200 µm	0705 800 162	100

Please consider the legal instruction at the beginning of this chapter.

Paint mixing cup

For mixing and storing paint materials and stains

Integrated mixing scales

(1:1, 2:1, 3:1, 4:1 and 5:1)

Material	Plastic
Colour	Transparent



Contents	Scale	Art. no.	P. Qty.
385 ml	Up to 300 ml	0705 800 110	25
750 ml	Up to 550 ml	0705 800 120	25
1400 ml	Up to 1100 ml	0705 800 130	25
2300 ml	Up to 1900 ml	0705 800 140	25

Please consider the legal instruction at the beginning of this chapter.

Lid Replaceable cup system

Würth replaceable cup system. Can be used in conjunction with the 750 ml Würth paint mixing cup.

- Patented lid system with automatic ventilation of cup for constant pressure conditions and perfect spraying pattern
- Integrated air-flow/paint-stop valve

Material	Plastic
Colour	Transparent

Art. no. 0705 800 161

P. Qty.: 100

Please consider the legal instruction at the beginning of this chapter.



Lid for paint mixing cup

Material	Plastic
Colour	Transparent



Contents	Art. no.	P. Qty.
385 ml	0705 800 111	25
750 ml	0705 800 121	25
1400 ml	0705 800 131	25
2300 ml	0705 800 141	25

Blow-out gun

With standard short nozzle

- Material: Cast aluminium
- Brass coupling connector with 1/4" connection

Design	0° straight
Pipe length	33 mm
Air consumption	330 l/min
Nozzle hole diameter	1.5 mm



Art. no. 0714 921 13

P. Qty.: 1

Blow gun

Continuously adjustable

- Insulated, ergonomic handle
- Lightweight, rugged design

Min./max. temperature conditions	-20 to 60 °C
Nozzle hole diameter	2.9 mm



Design	Pipe length	Air consumption	Art. no.	P. Qty.
Tube angled	90 mm	500 l/min	0714 921 1	1
Tube angled, reduced noise	90 mm	190 l/min	0714 921 2	1
Tube straight	320 mm	500 l/min	0714 921 3	1
Tube straight	490 mm	500 l/min	0714 921 4	1

2-way blow-out gun

With a control button for the infinitely variable adjustment of air flow.

- Scratch-resistant nozzle tip prevents damage
- Includes a long additional nozzle for working in hard-to-reach areas
- Rubberised ergonomic soft grip, also has a cold-insulating effect
- The plug-in air-supply nipple can be attached to the top or bottom as desired

Design	2-fold, Two-piece, Straight, Adjustable
Pipe length	120 mm
Air consumption	330 l/min
Nozzle hole diameter	2.5 mm



Continuation **2-way blow-out gun**

Art. no. 0714 92 02

P. Qty.: 1

HGV compressed air cleaning set basic 3-piece

Practical standard blow-out set for cleaning vehicle cabins on trucks, buses and agricultural and commercial vehicles without external air supply. Removal of dust deposits.

- Can be connected to all pneumatic driver's seats with the supplied T plug-in connector
- Quick-action coupling with partition design
- Blow-out gun can also be used on conventional compressed air connections



Art. no. 0885 848 100

P. Qty.: 1

Tool case

Unequipped aluminium service case with a removable tool tray with two tool holders up to 12 mm and 20 mm in diameter

- High-quality and stable design thanks to anodised aluminium case base plates
- Warp-resistant aluminium frame prevents dust from entering
- Lockable toggle locks (keyed alike)
- Robust metal hinges and top braces
- Padded carry handle, plus support feet and casters on base
- Bottom shell (PS) with separators and lie-flat tool board with holder for one tool up to 20 mm in diameter
- Padded document compartment



Height (C)	190 mm
Width (A)	490 mm
Depth (B)	390 mm
Material	Aluminium
Product weight (per item)	6100 g

Art. no. 0715 93 011

P. Qty.: 1

Tool case

Unequipped polypropylene service case with two removable tool trays and tool pockets

- Sturdy and impact-resistant at high and low temperatures
- Sturdy, dust-proof design
- Very robust carrying handle
- Lockable cylinder locks (keyed alike)
- Metal hinges and top braces
- Base shells with separators
- Carrying capacity up to 30 kg



Height (C)	215 mm
Width (A)	485 mm
Depth (B)	385 mm
Material	PP - Polypropylene
Product weight (per item)	5480 g

Art. no. 0715 930 066

P. Qty.: 1

Tool case with transport rollers

Robust service case made from impact-resistant HDPE plastic

- Large wheels with ball bearings enable you to transport the case without damaging your back
- Telescopic pull-out handle and two additional padded carrying handles
- Lockable toggle locks
- Metal hinges and top braces
- Two removable tool boards with pockets for tools
- Bottom shells with ample storage space and separators
- Adjustable document compartment
- Carrying capacity up to 35 kg



Height (C)	370 mm
Width (A)	500 mm
Depth (B)	450 mm
Colour	Black
Material	HDPE - High density polyethylene
Product weight (per item)	8597.5 g

Art. no. 0715 93 00

P. Qty.: 1

Rolling tool case

HDPE service case

- Sturdy and impact-resistant
- Transport is easy on the back
- Large runners with ball bearings
- Telescopic pull-out handle with extra-padded carry handle
- Lockable toggle lock (keyed alike)
- Metal hinges and top braces
- 1 removable tool panel with pockets
- Bottom shell with separators and lie-flat cover panel with pockets
- Adjustable document pocket
- Carrying capacity up to 35 kg



Height (C)	245 mm
Width (A)	560 mm
Depth (B)	425 mm
Material	HDPE - High density polyethylene
Product weight (per item)	8581 g

Art. no. 0715 93 001

P. Qty.: 1

Case supplied without tools.



Rolling tool case

Robust and shock-resistant at high and low temperatures

- Telescopic pull-out handle and an additional robust carrying handle
- Lockable cylinder locks (keyed alike)
- Metal hinges and top braces
- 2 removable tool panels with slip-in pockets
- Tools stay in the holder pockets during transport
- Base shell with separators
- Can carry up to 35 kg

Height (C)	250 mm
Width (A)	485 mm
Depth (B)	385 mm
Material	PP- Polypropylene
Product weight (per item)	6693 g

Art. no. 0715 930 050

P. Qty.: 1

Tool case

Robust and impact-resistant service case with two removable tool trays and tool pockets

- Double-walled case shells made from high-quality PE plastic
- Lockable toggle locks (keyed alike)
- Metal hinges and top braces
- Padded ABS carrying handle
- Bottom shell with separators and lie-flat cover panel with pockets
- Adjustable document compartment



Height (C)	205 mm
Width (A)	470 mm
Depth (B)	375 mm
Colour	Black
Material	PE - Polyethylene
Product weight (per item)	6120 g

Art. no. 0715 93 01

P. Qty.: 1

Tool bag, small, with plastic base

Robust bag with one-piece zip and waterproof bottom shell made of plastic.

- Polyester insert pockets for tools inside and outside
- Rubber band on the outside for pens and small screwdrivers
- Comfortable leather carry handle



Length x width x height	310 x 190 x 290 mm
Material	PES - Polyester
Colour	Black, Grey
Max. load capacity	10 kg
Product weight (per item)	989 g

Art. no. 0715 930 236

P. Qty.: 1

The tools shown are not included.

Tool bag with fold-out sides

Robust bag with waterproof bottom shell made of plastic.

- Nylon and rubber bands inside for tools, rubber band on the outside, exterior pockets for tools
- Fold-out side thanks to robust zip and can be closed with additional hook-and-loop fastening
- Shoulder strap can be removed easily and used as a tool belt.



Length x width x height	470 x 290 x 330 mm
Material	PES - Polyester

Colour	Black, Grey
Max. load capacity	15 kg
Product weight (per item)	2440 g
Min./max. length of shoulder belt	850-1400 mm

Art. no. 0715 930 233

P. Qty.: 1

The tools shown are not included.

Tool bag with plastic base

Tool bag with watertight plastic base for carrying tools and materials directly on your person.

- Organiser front pocket with many extras and dividers
- Additional outer pockets on the sides, document pocket incorporated in the lid
- Shoulder strap can be removed easily and used as a tool belt



Length x width x height	430 x 315 x 340 mm
Material	PES - Polyester
Colour	Black, Grey
Max. load capacity	15 kg
Product weight (per item)	3439.5 g

Art. no. 0715 930 246

P. Qty.: 1

The tools shown are not included.

Installation bag without metal parts

Practical bag without metal parts particularly suitable for electrical installation.

- Several rubber bands on the inside and outside for tools
- Polyester insert pockets for tools on the outside
- Adjustable and removable shoulder strap with pad for pleasant wearing comfort



Length x width x height	220 x 220 x 420 mm
Material	PES - Polyester
Colour	Black, Grey
Max. load capacity	10 kg
Product weight (per item)	1052 g

Art. no. 0715 930 227

P. Qty.: 1

The tools shown are not included.

Organiser bag

Practical organiser bag with laptop compartment and plenty of storage space for tools.

- Polyester pockets for tools, laptop mains adapter and personal items
- Padded laptop compartment
- Shoulder strap can be removed easily and used as a tool belt.

Length x width x height	430 x 160 x 330 mm
Material	PES - Polyester
Colour	Black, Grey
Max. load capacity	5 kg
Product weight (per item)	2100 g

Art. no. 0715 930 250

P. Qty.: 1

The tools shown are not included in the scope of delivery.



Tool bag with plastic base

Robust bag with one-piece zip and waterproof bottom shell made of plastic.

- Shoulder strap can removed easily and used as a tool belt.
- Polyester insert pockets for tools inside and outside, rubber band on the outside for pens and small screwdrivers
- Comfortable leather carry handle

Length x width x height	440 x 250 x 340 mm
Material	PES - Polyester
Colour	Black, Grey
Max. load capacity	12 kg
Product weight (per item)	1720 g
Min./max. length of shoulder belt	850-1400 mm

Art. no. 0715 930 223

P. Qty.: 1

The tools shown are not included.



Machine bag with plastic bottom

Robust bag for transporting machines

Plenty of storage space thanks to 9 external and 3 internal pockets

Maximum protection with a stable, water-resistant plastic bottom

Length x width x height	450 x 315 x 340 mm
Material	PES - Polyester
Colour	Black, Grey
Max. load capacity	20 kg
Product weight (per item)	2900 g



Art. no. 0715 930 251

P. Qty.: 1

Machines, batteries and battery charger shown are not included in the scope of delivery

Tool case Professional

Particularly robust, torsion-resistant tool box, can be folded open, has sturdy riveted hinges

- Cover with continuous strap hinge
- Folding tubular carry handle
- Can be locked by a padlock



Colour	Traffic red RAL 3020
Material	Sheet steel

Length x width x height	Art. no.	P. Qty.
430 x 200 x 150 mm	0715 93 22	1
430 x 200 x 200 mm	0715 93 23	1
530 x 200 x 200 mm	0715 93 24	1

Tool case Standard

Fold-open tool box with sturdy riveted hinges

- Hammer-tone finish inside and out
- Folding tubular carry handle
- Can be locked by a padlock



Colour	Blue
Material	Sheet steel

Length x width x height	Art. no.	P. Qty.
430 x 200 x 200 mm	0715 93 20	1
530 x 200 x 200 mm	0715 93 21	1

Tool case

Made from sheet steel, robust design with reinforced lid

- Splash-proof lid
- Small parts insert with spirit level brackets
- Can be locked with a padlock



Colour	Reseda green RAL 6011
Material	Sheet steel

Length x width x height	Art. no.	P. Qty.
690 x 360 x 310 mm	0715 93 170	1
830 x 440 x 340 mm	0715 93 180	1

Multi-box tool box

3-in-1 concept. 2 robust and very resistant storage boxes incl. stools.

- Sturdy and hard-wearing box with two removable inserts
- Max. load-bearing capacity of the stool 150 kg
- Stool with integrated storage compartments for small parts



Height (C)	300 mm
Width (A)	470 mm
Depth (B)	300 mm
Colour	Black
Material	PP - Polypropylene
Product weight (per item)	3910 g

Art. no. 0715 93 600

P. Qty.: 1

Plastic carry box

Lightweight tool box with two separate storage compartments and aluminium handle



Height (C)	180 mm
Width (A)	410 mm
Colour	Black
Material	PP - Polypropylene
Product weight (per item)	507 g

Art. no. 0962 219 200

P. Qty.: 1



Electricians’ tool case Universal

38 pieces. The all-rounder for electricians, including 2-m folding rule.

Length x width x height	470 x 375 x 205 mm
Number of pieces in assortment/set	38 PCS

Art. no. 0965 93 112

P. Qty.: 1

Contents for art. no. 0965 93 112		
Designation	Art. no.	Quantity
Universal saw	0609 10	1
VDE screwdriver Flat slotted 0.4 x 2.5 mm	0613 631 025	1
VDE screwdriver Flat slotted 0.8 x 4.0 mm	0613 631 04	1
VDE screwdriver Flat slotted 1.2 x 6.5 mm	0613 631 065	1
VDE screwdriver Flat slotted 1.6 x 8.0 mm	0613 631 082	1
VDE screwdriver PH recessed head 1	0613 632 1	1
VDE screwdriver PH recessed head 2	0613 632 2	1
VDE screwdriver PH recessed head 3	0613 632 3	1
Cable knife	0695 941 09	1
Double open-end wrench 6 x 7 mm	0713 304 067	1
Double open-end wrench 8 x 9 mm	0713 304 089	1
Double open-end wrench 10 x 11 mm	0713 304 101	1

Continuation **Electricians' tool case Universal**

Designation	Art. no.	Quantity
Double open-end wrench 12 x 13 mm	0713 304 123	1
Double open-end wrench 14 x 15 mm	0713 304 145	1
Double open-end wrench 16 x 17 mm	0713 304 167	1
Double open-end wrench 18 x 19 mm	0713 304 189	1
Double open-end wrench 20 x 22 mm	0713 304 202	1
Water pump pliers DIN ISO 8976	0714 01 563	1
VDE wire stripping pliers, IEC 60900	0714 01 570	1
VDE side cutters DIN ISO 5749 IEC 60900	0714 01 572	1
VDE combination pliers DIN ISO 5746 IEC 60900	0714 01 575	1
VDE snipe nose pliers DIN ISO 5745, IEC 60900	0714 01 577	1
Electrician's scissors	0714 03 16	1
Mounting tweezers	0714 08 01	1
Stripping knife AM 280	0714 41 01	1
Tape measure		1
VDE cable shears, forged head	0715 07 55	1
Allen key, hexagon socket 2 mm	0715 31 36	1
Allen key, hexagon socket 2.5 mm	0715 31 37	1
Allen key, hexagon socket 3 mm	0715 31 38	1
Allen key, hexagon socket 4 mm	0715 31 39	1
Allen key, hexagon socket 5 mm	0715 31 40	1
Allen key, hexagon socket 6 mm	0715 31 41	1
Allen key, hexagon socket 8 mm	0715 31 43	1
Allen key, hexagon socket 10 mm	0715 31 45	1
Continuity tester Beeper Plus	0715 53 315	1
Machinists' hammer	0715 731 50	1
Tool case	0715 93 01	1

Tool case

32 pieces in system case 8.4.2. Especially suitable for electric and hybrid vehicles.

Length x width x height	500 x 380 x 140 mm
Number of pieces in assortment/set	32 PCS

Art. no. 5964 502 002

P. Qty.: 1



ORSY

VDE tools are suitable for working on live parts up to 1000 V (AC) and up to 1500 V (DC), observing all prescribed safety precautions.

Electricians' tool case Standard

31 pieces. Fully stocked case containing standard equipment for electricians, including 2-m folding rule.

Length x width x height	470 x 375 x 205 mm
Number of pieces in assortment/set	31 PCS



Art. no. 0965 93 111

P. Qty.: 1

Contents for art. no. 0965 93 111		
Designation	Art. no.	Quantity
Universal saw	0609 10	1
VDE screwdriver Flat slotted 0.4 x 2.5 mm	0613 631 025	1
VDE screwdriver Flat slotted 0.8 x 4.0 mm	0613 631 04	1
VDE screwdriver Flat slotted 1.2 x 6.5 mm	0613 631 065	1
VDE screwdriver Flat slotted 1.2 x 8.0 mm	0613 631 08	1
VDE screwdriver PH recessed head 1	0613 632 1	1
VDE screwdriver PH recessed head 2	0613 632 2	1
Wire stripping pliers AS 61		1
Cable knife	0695 941 09	1
Water pump pliers DIN ISO 8976	0714 01 563	1
VDE side cutters DIN ISO 5749 IEC 60900	0714 01 572	1
VDE combination pliers DIN ISO 5746 IEC 60900	0714 01 574	1
VDE snipe nose pliers DIN ISO 5745, IEC 60900	0714 01 577	1
VDE snipe nose pliers DIN ISO 5745, IEC 60900 40 Degree	0714 01 578	1
Combination shears	0714 03 14	1
Electronic side cutters, round head	0714 07 36	1
Mounting tweezers	0714 08 01	1
Stripping knife AM 280	0714 41 01	1
Allen key, hexagon socket 2 mm	0715 31 36	1
Allen key, hexagon socket 2.5 mm	0715 31 37	1
Allen key, hexagon socket 3 mm	0715 31 38	1
Allen key, hexagon socket 4 mm	0715 31 39	1
Allen key, hexagon socket 5 mm	0715 31 40	1
Allen key, hexagon socket 6 mm	0715 31 41	1
Allen key, hexagon socket 8 mm	0715 31 43	1
Allen key, hexagon socket 10 mm	0715 31 45	1
Awl	0715 34 49	1
Continuity tester Beeper Plus	0715 53 315	1
Machinists' hammer	0715 731 20	1
Tool case	0715 93 01	1

Carpenter's case

34 pieces. High-quality, mobile wooden case for use on construction sites and in workshops.

- Neat tool storage
- For hanging case over workbench
- Portable case even when open



Length	630 mm
Width	270 mm
Height	350 mm
Number of pieces in assortment/set	34 PCS

Art. no. 0965 939 02

P. Qty.: 1

Contents for art. no. 0965 939 02

Designation	Art. no.	Quantity
Small saw bow	0609 1	1
Slotted screwdriver 1 x 5.5 mm; Blade length 100 mm	0613 321 055	1
Slotted screwdriver 1.2 x 7 mm; Blade length 125 mm	0613 321 07	1
Slotted screwdriver 0.6 x 3.5 mm	0613 421 035	1
PZ screwdriver 1	0613 423 1	1
PZ screwdriver 2	0613 423 2	1
Bit box	0614 004	1
Japanese hand saw Douzuki	0695 932 151	1
Combination pliers DIN ISO 5746	0714 01 555	1
Flat blunt-ended file	0714 61 06	1
File handle 120 mm	0714 61 59	2
Wood rasp Semi-circular, DIN 7263, type C	0714 61 81	1
Flat chisel In line with DIN 6453	0714 63 04	1
Drift punch According to DIN 6458 2 mm	0714 63 18	1
Drift punch According to DIN 6458 4 mm	0714 63 20	1
Light metal spirit level	0714 644 206	1
Malleable cast iron screw clamp with protective cap	0714 671 16	2
Pincers	0715 02 01	1
Reamer		1
Sanding Block	0715 64 06	1
Precision folding rule		1
Precision steel square		1
Bevelled-edge chisel 4 mm	0715 653 04	1
Bevelled-edge chisel 6 mm	0715 653 06	1
Bevelled-edge chisel 10 mm	0715 653 10	1
Bevelled-edge chisel 12 mm	0715 653 12	1
Bevelled-edge chisel 16 mm	0715 653 16	1
Bevelled-edge chisel 20 mm	0715 653 20	1
2C cutter knife with slide	0715 66 275	1
French, joiners' hammer 230 g	0715 732 23	1

Designation	Art. no.	Quantity
French, joiners' hammer 400 g	0715 732 40	1
Carpenters' case	0715 939 02	1
Painters' spatula, others		1

Tool assortment

37-piece in system case. Containing all popular tools for mobile use.

Ordered, clear storage

In high-quality foam insert

Number of pieces in assortment/set	37 PCS
Length x width x height	385 x 510 x 85 mm

Art. no. 5964 900 000

P. Qty.: 1



ORSY

Tool case

16 pieces in system case 8.4.1. Especially suitable for electric and hybrid vehicles.

Large selection

Tool case equipped with essential VDE tools and accessories

Length x width x height	500 x 380 x 87 mm
Number of pieces in assortment/set	16 PCS

Art. no. 5964 502 001

P. Qty.: 1



ORSY



VDE tools are suitable for working on live parts up to 1000 V (AC) and up to 1500 V (DC), observing all prescribed safety precautions.

Carpenters' case

On castors, empty

- High-quality wooden case for use on construction sites and in workshops
- Clearly organised tool storage
- Case can be hung over workbench
- Case is portable even when open
- Dust-proof and lockable

Height (C)	350 mm
Width (A)	630 mm



Continuation **Carpenters' case**

Depth (B)	270 mm
Material	Wood
Product weight (per item)	10500 g

Art. no. 0715 939 02

P. Qty.: 1

Tool box PP

With removable compartments and a removable insert

- Made of polypropylene, thus impact-resistant, robust and heavy duty
- Easy and comfortable to wear thanks to large aluminium handle
- Low tare weight
- Metal fastening
- Can be locked with a padlock
- Two removable compartments for small parts in the lid
- Interactive aluminium closure
- Anti-shock corners made of thermoplastic



Height (C)	260 mm
Width (A)	660 mm
Depth (B)	248 mm
Colour	Red, Black
Material	PP - Polypropylene
Product weight (per item)	3900 g
Load capacity	25 kg

Art. no. 0962 219 004

P. Qty.: 1

Tool case with trolley function

Very robust and versatile tool case with telescopic handle for pushing

- Removable tool insert as well as integrated V-groove with a ruler on the cover
- Integrated rubber seal, metal fastening
- Lockable with padlock



Height (C)	300 mm
Width (A)	710 mm
Depth (B)	330 mm
Colour	Red, Black
Material	PP - Polypropylene
Product weight (per item)	5900 g
Load capacity	35 kg

Art. no. 0962 219 005

P. Qty.: 1

Nail pouch

High-quality belt pouch for holding nails

Robust

Made from heavy-duty cowhide leather

Material	Cowhide leather
Colour	Black



Length x width x height (L x B x H)	Product weight (per item)	Art. no.	P. Qty.
170 x 120 x 35 mm	115 g	0691 800 200	1
170 x 120 x 70 mm	174 g	0691 800 201	1

Multi-pouch

Practical and robust bag

Practical features

- Six pockets of varying sizes
- Clip-hook loop to secure individual items, e.g. adhesive tape

Robust

- Made from strong polyester fabric
- Robust split-leather pockets

Easy to attach to belt

Using tab with press stud.

Length x width x height (L x B x H)	170 x 45 x 270 mm
For belt width	50 mm
Material	Polyester/leather
Colour	Black, Grey
Product weight (per item)	197 g
Max. load capacity	3 kg



Art. no. 0715 930 006

P. Qty.: 1

Knife pouch

Practical belt pouch to safely transport knives

- Made of durable cowhide leather
- Rivet-reinforced seams
- Pointed shape to hold knives securely

Material	Cowhide leather
Colour	Black



Length x width x height (L x B x H)	Product weight (per item)	Art. no.	P. Qty.
200 x 100 x 40 mm	84 g	0715 93 736	1
210 x 65 x 35 mm	56 g	0715 93 737	1

Leather belt

With metal double-pin buckle

Length x width	1330 x 50 mm
Material	Cowhide leather
Colour	Black
Min./max. waist measurement	800-1200 mm
Product weight (per item)	290 g



Art. no. 0715 93 709

P. Qty.: 1

Carpenter's bag

Belt bag with two large storage compartments for carrying tools and materials directly on your person.

- Two leather outer pockets for screwdrivers, knives and pliers
- Circlip for securing tools up to a maximum weight of 0.5 kg
- Rubber band on the outside for pens and small screwdrivers

Length x width x height (L x B x H)	200 x 140 x 290 mm
For belt width	70 mm
Material	Polyester/leather
Colour	Black, Grey
Product weight (per item)	380 g
Max. load capacity	4 kg



Art. no. 0715 930 211

P. Qty.: 1

The tools shown are not included.

Tool backpack

Backpack without dividers in the interior with two large net outer pockets for transporting and carrying objects and materials directly on your person.

- Separate laptop compartment
- Additional outer pocket can be closed with zip
- Thick padded back support and padded shoulder straps

Length	320 mm
Width	150 mm
Height	440 mm
Volume	10 l
Max. load capacity	5 kg



Art. no. 0715 930 243

P. Qty.: 1

The tools shown are not included.



Tool rucksack with watertight base shell

High-quality rucksack with several pockets

- Watertight plastic base
- Thickly padded back rest and padded shoulder straps
- Tool pockets; some with Velcro, some with elastic straps
- Net pockets inside and outside, external lockable mobile phone pocket
- Additional hand strap and compartment for business cards
- Inset pocket with inner net, pen and document pockets
- Velcro pocket and small snap hook on the inside

Width	360 mm
Height	460 mm
Volume	15 l
Max. load capacity	12 kg
Depth	200 mm

Art. no. 0715 93 750

P. Qty.: 1

Tool backpack with dividers

Backpack with dividers in the interior with two large net outer pockets for transporting and carrying objects and materials directly on your person.

- 14 insert pockets inside
- Additional outer pocket can be closed with zip
- Thick padded back support and padded shoulder straps

Length	330 mm
Width	110 mm
Height	440 mm
Volume	12 l
Max. load capacity	5 kg

Art. no. 0715 930 244

P. Qty.: 1

The tools shown are not included.



Lunch bag

Spacious lunch bag with coated insulating material.

- Nylon shoulder strap and carrying handle
- ID card holder on the side
- Robust two-piece zip

Length x width x height	300 x 220 x 190 mm
Material	PES - Polyester
Colour	Black, Grey
Max. load capacity	5 kg
Product weight (per item)	377 g

Art. no. 0715 930 242

P. Qty.: 1

The additional products shown are not included in the scope of delivery.



Hammer holder

With belt loop and robust, moving buckle made from stainless steel

- Elasticated strap on the outside for pens and small screwdrivers
- Belt loop and hammer holder made from high-quality polyester (1680 denier)

Length x width x height (L x B x H)	110 x 70 x 160 mm
For belt width	70 mm
Material	PES - Polyester
Colour	Black, Grey
Product weight (per item)	93 g
Max. load capacity	3 kg



Continuation **Hammer holder**

Art. no. 0715 930 230

P. Qty.: 1

The tools shown are not included in the scope of delivery.

Electrician's belt pouch without metal parts

Belt bag with two large storage compartments particularly suitable for electrical installation.

- Four leather outer pockets for screwdrivers, knives and pliers
- Rubber bands on the inside and outside for tools
- Nylon band with clip closure for adhesive tapes



Length x width x height (L x B x H)	250 x 110 x 290 mm
For belt width	70 mm
Material	Polyester/leather
Colour	Black, Grey
Product weight (per item)	290 g
Max. load capacity	3 kg

Art. no. 0715 930 226

P. Qty.: 1

The tools shown are not included.

Belt bag with drawstring

Bag with convenient drawstring closure for carrying tools and materials directly on your person.

- Two leather outer pockets for screwdrivers, knives and pliers
- Rubber band on the outside for pens and small screwdrivers
- Made from high quality polyester (1680 denier) and velour leather trim on the contact surfaces



Length x width x height (L x B x H)	140 x 100 x 120 mm
For belt width	70 mm
Material	Polyester/leather
Colour	Black, Grey
Product weight (per item)	193 g
Max. load capacity	3 kg

Art. no. 0715 930 215

P. Qty.: 1

The tools shown are not included.

Drill driver holder, large

Holder with elastic bands for holding drills, bits and bit holder.

- Suitable for left and right-handed persons
- Safety strap with press stud
- Leather outer pocket for screwdrivers, knives and pliers
- Elastic bands for holding 5 bits and drills
- Elastic bands for bit holder as well as one on the outside for pens and small screwdrivers
- Made from high quality polyester (1680 denier) and velour leather trim on the contact surfaces



Length x width x height (L x B x H)	170 x 110 x 290 mm
For belt width	70 mm
Material	Polyester/leather
Colour	Black, Grey
Product weight (per item)	169 g
Max. load capacity	4 kg

Art. no. 0715 930 228

P. Qty.: 1

The tools shown are not included.

Belt bag set 5-way

Belt bag with two large storage compartments and a drill driver holder for carrying tools and materials directly on your person.

- Three leather external pockets, drill driver holder for left and right-handed users
- High-quality polyester hip pad, three rubber straps on the outside for pens and small screwdrivers
- Circlip for securing tools with a maximum weight of up to 0.5 kg



Length x width x height (L x B x H)	890 x 140 x 330 mm
Belt length	1330 mm
Min./max. waist measurement	800-1200 mm
Material	Polyester/leather
Colour	Black, Grey
Product weight (per item)	1170 g
Max. load capacity	12 kg

Art. no. 0715 930 213

P. Qty.: 1

The tools shown are not included.

Universal bag

Belt bag with two large storage compartments and a hammer holder for carrying tools and materials directly on your person.

- Two leather outer pockets, free-moving hammer holder, tape measure holder made of stainless steel
- Circlip for securing tools up to a maximum weight of 0.5 kg
- Rubber band on the outside for pens and small screwdrivers

Length x width x height (L x B x H)	200 x 110 x 290 mm
For belt width	70 mm
Material	Polyester/leather
Colour	Black, Grey
Product weight (per item)	400 g
Max. load capacity	4 kg



Art. no. 0715 930 210

P. Qty.: 1

The tools shown are not included.



Power side cutters DIN ISO 5749

For cutting piano wire, hard and soft wire

- Strength-saving, clean cutting thanks to milled precision cutting edge
- High-quality tool steel ensures long service life and precision of blades, even under maximum loads
- Ergonomic and slip-free 2-component comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Inductively hardened precision blades
- Surface: Entirely ground and chrome-plated
- Joint: Lap joint, forged on rivets

Max. soft wire diameter cutting capacity	4 mm
Material	Steel
Surface	Chrome plated
Type of joint	Launched



Length (L)	Max. medium wire diameter cutting capacity	Max. hard wire diameter cutting capacity	Max. piano wire diameter cutting capacity	Art. no.	P. Qty.
140 mm	3.1 mm	2 mm	1.5 mm	0714 01 551	1/10
160 mm	3.4 mm	2.5 mm	2 mm	0714 01 552	1/10
180 mm	3.8 mm	2.7 mm	2.2 mm	0714 01 553	1/10

Combination pliers DIN ISO 5746

For gripping, holding and cutting hard and soft wires and cables

- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Extra-long blade also suitable for thicker cables
- Ergonomic and slip-free 2-component comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Inductively hardened precision blades
- Burner port for gripping round materials
- Surface: Entirely ground and chrome-plated
- Joint: Lap joint



Surface	Chrome plated
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Length (L)	Max. medium wire diameter cutting capacity	Max. hard wire diameter cutting capacity	Max. cable diameter cutting capacity in aluminium/copper	Art. no.	P. Qty.
160 mm	3.1 mm	2 mm	10 mm	0714 01 554	1/10
180 mm	3.4 mm	2.2 mm	12 mm	0714 01 555	1/10
200 mm	3.8 mm	2.5 mm	13 mm	0714 01 556	1/10

Side cutters DIN ISO 5749

For cutting hard and soft wires and cables, including in hard-to-reach places

- Strength-saving, clean cutting thanks to milled precision cutting edge
- High-quality tool steel ensures long service life and precision of blades
- Slim head shape for optimum accessibility
- Ergonomic and slip-free 2-component comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Inductively hardened precision blades
- Surface entirely ground and chrome-plated
- Lap joint



Length (L)	Max. hard wire diameter cutting capacity	Art. no.	P. Qty.
140 mm	1.8 mm	0714 01 566	1/10
160 mm	2 mm	0714 01 567	1/10
180 mm	2.5 mm	0714 01 568	1/10

Snipe nose pliers DIN ISO 5745

For gripping, holding and cutting soft and hard wires and cables

- High-quality tool steel for long service life and precise gripping and cutting surfaces
- Elastic tips for high stresses, especially under bending forces
- Ergonomic and slip-free 2-component comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Blades: Additional inductive hardening
- Surface: Entirely ground and chrome-plated
- Gripping surfaces: Toothed
- Joint: Lap joint



Surface	Chrome plated
Material	Steel
Material of the grip handle	2-component plastic

Length (L)	Length in inches (L)	Jaw-tips thickness (E)	Jaw-tips width (F)	Jaws length (B)	Art. no.	P. Qty.
160 mm	6-1/2 in	2.5 mm	3 mm	50 mm	0714 01 559	1/10
200 mm	8-1/4 in	3 mm	4 mm	72 mm	0714 01 558	1/10
200 mm	8-1/4 in	3 mm	4 mm	76 mm	0714 01 557	1/10

Wire stripping pliers

Precise, effortless stripping of cables and wires with plastic or rubber insulation

- Long service life and precision of cutting surfaces
- For single, multi and fine-wire conductors
- Opening spring opens pliers automatically
- Ergonomic and non-slip 2-component comfort handle with narrow collar profile
- Adjustment screw can be fixed in place with knurled nut



Length (L)	160 mm
Max. wire diameter (Ø)	5 mm
Max. wire cross section	10 mm ²
Surface	Chrome plated
Length in inches	6 in

Art. no. 0714 01 550

P. Qty.: 1/10

Quick deburrer

Deburring tool supplied with HSS blade, Ø 3.2 mm — ready to use immediately.

- Pivot-mounted blade in direct mount
- Metal blade mount



Length	150 mm
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Continuation **Quick deburrer**

Art. no. 0714 42 07

P. Qty.: 1

Water pump pliers DIN ISO 8976

Self-clamping water pump pliers with push button adjustment

Rapid and convenient fine adjustment at the push of a button, directly on the workpiece

Hardened precision teeth

High wear resistance and secure grip

Ergonomic and non-slip 2-component comfort handle with narrow collar profile

Comfortable working and optimum power transmission

Huge gripping capacity yet slim design



Length in inches (L)	10 in
Length (L)	250 mm
Min./max. grip range	10-46 mm

Art. no. 0714 01 563

P. Qty.: 1/5

Pliers Assortment 1

Set comprising combination pliers, stripping pliers and snipe nose pliers and power side cutters

- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Combination pliers with extra-long blade also suitable for thicker cables
- Stripping pliers with opening spring for automatic opening
- Snipe nose pliers with tips for high bending stresses
- Power side cutters for piano wire, hard and soft wire
- Ergonomic and slip-free 2-component comfort handle with narrow collar profile for comfortable working and optimum force transfer



Size foam section	2
Width x height x depth	335 x 42 x 185 mm
Product weight (per item)	920 g

Art. no. 0714 01 560

P. Qty.: 1

Pliers assortment

4 pcs. Including combination pliers, water pump pliers, snipe nose pliers and heavy-duty side cutters

- Combination pliers with extra-long cutting edge also for thicker cables
- Water pump pliers with convenient quick adjustment
- Snipe nose pliers with tips for high bending stresses
- Heavy-duty side cutters for piano wire, hard and soft wire



Product weight (per item)	1185 g
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Art. no. 0714 01 565

P. Qty.: 1





VDE side cutters DIN ISO 5749 IEC 60900

For cutting hard and soft wires and cables, including in hard-to-reach places

- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- Strength-saving, clean cutting thanks to milled precision blade
- High-quality tool steel ensures long tool life and precision of cutting surfaces

Max. soft wire diameter cutting capacity	4 mm
EN standard	60900



Length (L)	Max. medium wire diameter cutting capacity	Max. hard wire diameter cutting capacity	Art. no.	P. Qty.
140 mm	2.5 mm	1.8 mm	0714 01 571	1/10
160 mm	2.8 mm	2 mm	0714 01 572	1/10
180 mm	3 mm	2.5 mm	0714 01 573	1/10

VDE power side cutters DIN ISO 5749, IEC 60900

For cutting piano wire, hard and soft wire

- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- Strength-saving, clean cutting thanks to milled precision cutting edge
- High-quality tool steel ensures long tool life and precision of blades including under maximum stresses
- Ergonomic and slip-free 2-component comfort handle with wide VDE collar for secure working
- Blades: inductively hardened precision blades
- Surface: entirely ground and chrome-plated
- Joint: Lay-on, axis forged on



Length (L)	200 mm
Length in inches (L)	8 in
Max. medium wire diameter cutting capacity	4 mm
Max. hard wire diameter cutting capacity	3 mm
Max. piano wire diameter cutting capacity	2.5 mm

Art. no. 0714 01 597

P. Qty.: 1/10

VDE combination pliers DIN ISO 5746 IEC 60900

For gripping, holding and cutting hard and soft wires and cables

- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- High-quality tool steel ensures long service life and precision of gripping and cutting surfaces
- Extra-long blade also suitable for thicker cables
- Ergonomic and slip-free 2-component comfort handle with wide VDE collar for secure working
- Inductively hardened precision blades
- Burner port for gripping round materials
- Surface entirely ground and chrome-plated
- Lap joint



Max. aluminium/copper wire cross-section cutting capacity	16 mm ²
Material	Steel
Surface	Chrome plated
Material of the grip handle	2-component plastic
ISO	5746

Continuation **VDE combination pliers DIN ISO 5746 IEC 60900**

Length (L)	Length in inches (L)	Max. medium wire diameter cutting capacity	Max. hard wire diameter cutting capacity	Max. cable diameter cutting capacity in aluminium/copper	Art. no.	P. Qty.
160 mm	6-1/2 in	3.1 mm	2 mm	10 mm	0714 01 574	1/10
180 mm	7 in	3.4 mm	2.2 mm	12 mm	0714 01 575	1/10
200 mm	8 in	3.8 mm	2.5 mm	13 mm	0714 01 576	1/10



⚡ 1000 V

VDE wire stripping pliers, IEC 60900

Precise, effortless stripping of cables and wires with plastic or rubber insulation.

- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- High-quality tool steel ensures long tool life and precision
- Automatic opening of the tongs due to opening spring
- Ergonomic and slip-free 2-component comfort handle with wide VDE collar for secure working
- Adjustment screw can be fixed with knurled nut
- Surface: Ground and chrome-plated on all sides
- Joint: Inserted



Length (L)	160 mm
Length in inches (L)	6 in
Max. wire diameter (Ø)	5 mm
Max. wire cross section	10 mm ²
Material	Steel

Art. no. 0714 01 570

P. Qty.: 1/10



⚡ 1000 V

VDE snipe nose pliers DIN ISO 5745, IEC 60900

For gripping, holding and cutting soft and hard wires and cables

- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- High-quality tool steel for long service life and precise gripping and cutting surfaces
- Elastic tips for high stresses, in particular under bending forces
- Ergonomic and slip-proof 2-component comfort handle with wide VDE collar for safe working
- Blades are additionally inductively hardened
- Surface entirely ground and chrome-plated
- Serrated gripping surfaces
- Lap joint



Material	Steel
Surface	Chrome plated
ISO	5745
Material of the grip handle	2-component plastic

Length (L)	Length in inches (L)	Jaws length (L3)	Jaws width (W3)	Jaws thickness (T1)	Art. no.	P. Qty.
160 mm	6-1/2 in	50 mm	16.5 mm	9 mm	0714 01 579	1/10
200 mm	8-1/4 in	72 mm	17.5 mm	9.5 mm	0714 01 578	1/10
200 mm	8-1/4 in	76 mm	17.5 mm	9.5 mm	0714 01 577	1/10



⚡ 1000 V

VDE cable cutters with single blade

For cutting copper and aluminium cable

- For working on live parts up to 1000 V (AC) and up to 1500 V (DC), observing all prescribed safety precautions
- Long service life and precision of cutting surfaces
- Easy and distortion-free cutting action through single- or multi-stranded cable
- Optimal power transmission
- Ergonomic and non-slip 2-component comfort handle with wide VDE collar
- Hardened, precision cutting edges
- Surface ground and chromium-plated
- Bolted and adjustable joint



Length (L)	160 mm
Length in inches (L)	6 in
Max. cable diameter cutting capacity in aluminium/copper	15 mm
Max. aluminium/copper wire cross-section cutting capacity	50 mm ²
EN standard	60900

Continuation **VDE cable cutters with single blade**

Art. no. 0714 01 585

P. Qty.: 1/10

VDE cable shears with dual blade

For cutting copper and aluminium cable; for precutting and recutting

- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- High-quality tool steel ensures long tool life and precision of cutting surfaces
- Special blade geometry facilitates easy and distortion-free cutting action through single or multi-stranded cable
- 2-stage operation with dual blades for optimum transmission of forces
- Ergonomic and slip-free 2-component comfort handle with wide VDE collar for safe working
- Cutting: hardened precision blades
- Surface: ground and chrome-plated
- Joint: bolted and adjustable



Length (L)	210 mm
Length in inches (L)	8 in
Max. cable diameter cutting capacity in aluminium/copper	20 mm
Max. aluminium/copper wire cross-section cutting capacity	70 mm ²
EN standard	60900

Art. no. 0714 01 586

P. Qty.: 1/10

VDE electrical installation pliers IEC 60900

3 tools in one set of pliers: For cutting, stripping and removing insulation from electrical cables.

- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- Easy to use, no need to switch tools
- Side cutter function, cable and insulation stripping in ergonomic pulling motion



Length	170 mm
Min./max. wire cross section	1.5-2.5 mm ²
Material	Steel, specially hardened
Surface	Chrome plated
EN standard	60900
Material of the grip handle	2-component plastic

Art. no. 0714 01 588

P. Qty.: 1

VDE pliers assortment, IEC 60900

4 pieces

- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Ergonomic and slip-free 2-component comfort handle with wide VDE collar for secure working
- Combination pliers with extra-long blade also suitable for thicker cables
- Stripping pliers with opening spring for automatic opening
- Snipe nose pliers with tips for high bending stresses
- Side cutters with slim head shape for optimal accessibility



Number of pieces in assortment/set	4 PCS
EN standard	60900

Art. no. 0714 01 580

P. Qty.: 1

Contents for art. no. 0714 01 580		
Designation	Art. no.	Quantity
VDE wire stripping pliers, IEC 60900	0714 01 570	1
VDE side cutters DIN ISO 5749 IEC 60900	0714 01 572	1
VDE combination pliers DIN ISO 5746 IEC 60900	0714 01 575	1
VDE snipe nose pliers DIN ISO 5745, IEC 60900	0714 01 577	1



⚡ 1000 V

VDE pliers assortment, IEC 60900

4 pieces

- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC) in accordance with all prescribed safety precautions
- High-quality tool steel ensures long service life and precision of gripping and cutting surfaces
- Ergonomic, non-slip two-part comfort handle with wide VDE collar for safe working
- Combination pliers with extra-long blade, also suitable for thicker cables
- Cable cutters for cutting single and multi-stranded wires easily
- Snipe nose pliers with tips for high bending stresses
- Side cutters with slim head design for maximum accessibility



Number of pieces in assortment/set	4 PCS
EN standard	60900

Art. no. 0714 01 581

P. Qty.: 1

Continuation **VDE pliers assortment, IEC 60900**

Contents for art. no. 0714 01 581		
Designation	Art. no.	Quantity
VDE side cutters DIN ISO 5749 IEC 60900	0714 01 572	1
VDE combination pliers DIN ISO 5746 IEC 60900	0714 01 575	1
VDE snipe nose pliers DIN ISO 5745, IEC 60900	0714 01 577	1
VDE cable cutters with single blade	0714 01 585	1



⚡ 1000 V

VDE pliers assortment, combi IEC 60900

8 pcs.

- For work on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- Pliers made from high-quality tool steel for long service life and precise gripping and cutting surfaces
- Stripping pliers with opening spring for automatic opening
- Side cutters with slim head shape for optimum accessibility
- Snipe nose pliers with tips resistant to high bending strain
- Ergonomic and slip-proof 2-component comfort handle for safe working



Number of pieces in assortment/set	8 PCS
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Art. no. 0714 01 582

P. Qty.: 1

Contents for art. no. 0714 01 582		
Designation	Art. no.	Quantity
VDE screwdriver Flat slotted 0.4 x 2.5 mm	0613 631 025	1
VDE screwdriver Flat slotted 0.8 x 4.0 mm	0613 631 04	1
VDE screwdriver Flat slotted 1.2 x 6.5 mm	0613 631 065	1
VDE screwdriver PH recessed head PH1	0613 632 1	1
VDE screwdriver PH recessed head PH2	0613 632 2	1
VDE wire stripping pliers, IEC 60900	0714 01 570	1
VDE side cutters DIN ISO 5749 IEC 60900	0714 01 572	1
VDE snipe nose pliers DIN ISO 5745, IEC 60900	0714 01 577	1



⚡ 1000 V

VDE combination pliers DIN ISO 5746 IEC 60900

For gripping, holding and cutting hard and soft wires and cables



- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Extra-long blade also suitable for thicker cables
- Single-component handle with wide VDE collar for safe working
- Inductively hardened precision blades
- Burner port for gripping round materials
- Surface entirely ground and chrome-plated
- Lap joint

Max. aluminium/copper wire cross-section cutting capacity	16 mm ²
Material	Steel
Surface	Chrome plated
Material of the grip handle	1-component plastic
ISO	5746

Length (L)	Length in inches (L)	Max. medium wire diameter cutting capacity	Max. hard wire diameter cutting capacity	Max. cable diameter cutting capacity in aluminium/copper	Art. no.	P. Qty.
165 mm	6-1/4 in	3.1 mm	2 mm	10 mm	0715 01 81	1/10
180 mm	7 in	3.4 mm	2.2 mm	12 mm	0715 01 82	1/10
200 mm	8 in	3.8 mm	2.5 mm	13 mm	0715 01 83	1/10



⚡ 1000 V

VDE heavy-duty side cutters, DIN ISO 5749 IEC 60900

For cutting piano wire, hard and soft wire



- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- Strength-saving, clean cutting thanks to milled precision cutting edge
- High-quality tool steel ensures long service life and precision of blades, even under maximum loads
- Single-component handle with wide VDE collar for safe working
- Inductively hardened precision blades
- Surface entirely ground and chrome-plated
- Lap joint with forged-on axis

Length (L)	Length in inches (L)	Max. medium wire diameter cutting capacity	Max. hard wire diameter cutting capacity	Max. piano wire diameter cutting capacity	Art. no.	P. Qty.
180 mm	7 in	3.8 mm	2.7 mm	2.2 mm	0715 01 89	1/10
200 mm	8 in	4.2 mm	3 mm	2.5 mm	0715 01 90	1/10

VDE side cutters, DIN ISO 5749 IEC 60900

For cutting hard and soft wires and cables, including in hard-to-reach places



- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- Strength-saving, clean cutting thanks to milled precision blade
- High-quality tool steel ensures long tool life and precision of cutting surfaces
- Slim head shape for optimum accessibility
- 1-component comfort handle with wide VDE collar for secure working
- Blades: Inductively hardened precision blades
- Surface: Ground and chrome-plated on all sides
- Joint: Inserted

Max. soft wire diameter cutting capacity	4 mm
EN standard	60900

Length (L)	Max. medium wire diameter cutting capacity	Max. hard wire diameter cutting capacity	Art. no.	P. Qty.
140 mm	2.5 mm	1.8 mm	0715 01 87	1/10
160 mm	2.8 mm	2 mm	0715 01 88	1/10

VDE snipe nose pliers with blade DIN ISO 5745, IEC 60900

For gripping, holding and cutting soft and hard wires and cables



- For working on live parts up to 1000 volts (AC) and up to 1500 volts (DC), observing all prescribed safety precautions
- High-quality tool steel for long service life and precise gripping and cutting surfaces
- Elastic tips for high stresses, especially under bending forces
- Single-component handle with wide VDE collar for safe working
- Inductively hardened blades
- Surface entirely ground and chrome-plated
- Serrated gripping surfaces
- Lap joint

Length (L)	200 mm
Length in inches (L)	8-1/4 in
Jaws length (L3)	74 mm
Jaws width (W3)	17.5 mm
Jaws thickness (T1)	9.5 mm
Jaw-tips width (W4)	3 mm
Jaw-tips thickness (T2)	2.5 mm
Material	Steel
Surface	Chrome plated
ISO	5745
Material of the grip handle	Plastic

Angle of jaws	Art. no.	P. Qty.
	0715 01 85	1/10
45 Degree	0715 01 86	1/10

VDE one-hand ratchet cutters

EN 60900, IEC 900

Handle:

- Insulated sleeve
- Non-slip

Blade:

- For multi-strand copper and aluminium cables
- Works without compressing cables
- Hardened
- Precision-ground

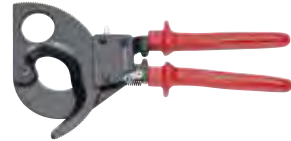
Shears can be unlocked in any cutting position

Pivot arms:

One-handed operation, optimum lever transmission

Joint:

Ratchet mechanism



Max. cable diameter cutting capacity in aluminium/copper	52 mm
Length (L)	280 mm
Max. aluminium/copper wire cross-section cutting capacity	380 mm ²
Length in inches (L)	7 in

Art. no. 0715 07 56

P. Qty.: 1



△ 1000 V

Not suitable for steel wire.

VDE cable shears

Standard: EN 60900. IEC 900.

- Handles: Dip-insulated plastic, impact-resistant
- Cutting edge: Hardened, precision-ground -> works without compressing cables
- Pivot arms: Lever transmission -> i.e. minimal force required
- Joint: Screw joint, adjustable
- Head: Forged special steel, replaceable
- Application: Cutting, sheath stripping



Length (L)	580 mm
Length in inches (L)	24 in
Max. cable diameter cutting capacity in aluminium/copper	27 mm

Continuation VDE cable shears

Max. aluminium/copper wire cross-section cutting capacity	150 mm ²
EN standard	60900

Art. no. 0715 07 53

P. Qty.: 1



⚡ 1000 V

Not suitable for steel wire

Electronic side cutters, round head

Small bevel

- Standard: DIN ISO 9654
- Handle: Soft comfort-grip handle shells
- Joint: Box joint, high precision, zero-backlash action
- Opening spring: Double spring for automatic opening of pliers
- Blade: For soft wires and some hard wires
- Head: Polished



Length	115 mm
Jaws width	11 mm
Cutting edge length	14 mm
Jaws thickness	7.5 mm
Min./max. soft wire diameter cutting capacity	0.3-1.6 mm
Max. medium wire diameter cutting capacity	1.2 mm

Art. no. 0714 07 36

P. Qty.: 1/10

Electronic side cutters, round head

Wire clamp

- Standard: DIN ISO 9654
- Handle: Soft comfort-grip handle shells
- Joint: Box joint, high precision, zero-backlash action
- Opening spring: Double spring for automatic opening of pliers
- Blade: For soft wires and some hard wires
- Head: Polished



Length	115 mm
Jaws width	11 mm
Cutting edge length	14 mm
Jaws thickness	7.5 mm
Min./max. soft wire diameter cutting capacity	0.3-1.6 mm
Max. medium wire diameter cutting capacity	1.2 mm

Art. no. 0714 07 37

P. Qty.: 1/10

Electronic side cutters, round head

Without bevel, for flush cutting

- Standard: DIN ISO 9654
- Handle: Soft comfort-grip handle shells
- Joint: Box joint, high precision, zero-backlash action
- Opening spring: Double spring for automatic opening of pliers
- Blade: For soft wires and some hard wires
- Head: Polished



Length	115 mm
Jaws width	11 mm
Cutting edge length	14 mm
Jaws thickness	7.5 mm
Min./max. soft wire diameter cutting capacity	0.3-1.3 mm
Max. medium wire diameter cutting capacity	1 mm

Art. no. 0714 07 38

P. Qty.: 1/10

Electronic side cutters, pointed head

Small bevel

- Standard: DIN ISO 9654
- Handle: Soft comfort-grip handle shells
- Joint: Box joint, high precision, zero-backlash action
- Opening spring: Double spring for automatic opening of pliers
- Blade: For soft wires and some hard wires
- Head: Polished



Length	115 mm
Jaws width	11 mm
Cutting edge length	14 mm
Jaws thickness	7 mm
Min./max. soft wire diameter cutting capacity	0.3-1.3 mm
Max. medium wire diameter cutting capacity	1.2 mm

Art. no. 0714 07 39

P. Qty.: 1/10

Electronic side cutters, pointed head

Without bevel, for flush cutting

- Standard: DIN ISO 9654
- Handle: Soft comfort-grip handle shells
- Joint: Box joint, high precision, zero-backlash action
- Opening spring: Double spring for automatic opening of pliers
- Blade: For soft wires and some hard wires
- Head: Polished



Length	115 mm
Jaws width	11 mm
Cutting edge length	14 mm
Jaws thickness	7 mm
Min./max. soft wire diameter cutting capacity	0.3-1.3 mm
Max. medium wire diameter cutting capacity	1 mm

Art. no. 0714 07 40

P. Qty.: 1/10

Cable shears

For multi-stranded copper and aluminium cable

- Impact-resistant plastic handle
- No crushing of cables
- Precision-ground cutting edge
- Pivot arms with opening spring and catch
- Adjustable screw joint
- Head made of polished stainless steel



Length (L)	160 mm
Length in inches (L)	6-1/2 in
Max. cable diameter cutting capacity in aluminium/copper	10 mm
Max. aluminium/copper wire cross-section cutting capacity	24 mm ²

Art. no. 0715 07 51

P. Qty.: 1/24

Not suitable for steel wire.

Combination pliers DIN ISO 5746

For gripping, holding and cutting soft and hard wires and cables

- High-quality tool steel for long service life and precise gripping and cutting surfaces
- Extra-long blade also suitable for thicker cables
- Blades: Additional inductive hardening
- Surface: Entirely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped
- Joint: Lap joint



Surface	Lacquered
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Length (L)	Max. medium wire diameter cutting capacity	Max. hard wire diameter cutting capacity	Art. no.	P. Qty.
160 mm	2.5 mm	1.8 mm	0715 01 574	1/10
180 mm	2.8 mm	2.5 mm	0715 01 575	1/10
200 mm	3 mm	2.5 mm	0715 01 576	1/10

Snipe nose pliers

DIN ISO 5745

- High-quality tool steel for long service life and precise gripping and cutting surfaces
- Extra-long blade also suitable for thicker cables
- Blades: Additional inductive hardening
- Surface: Entirely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped
- Joint: Lap joint



Surface	Lacquered
Material	Steel
Material of the grip handle	Polyvinyl chloride

Length (L)	Length in inches (L)	Jaw-tips thickness (E)	Jaw-tips width (F)	Jaws length (B)	Art. no.	P. Qty.
160 mm	6-1/4 in	2.5 mm	3 mm	52 mm	0715 01 567	1/10
200 mm	8 in	3 mm	4 mm	77 mm	0715 01 568	1/10
200 mm	8 in	3 mm	4 mm	72 mm	0715 01 569	1/10

Side cutters DIN ISO 5749

- Strength-saving, clean cutting due to specially-milled precision cutting edge
- High-quality tool steel ensures long service life and precision of blades
- Inductively hardened
- Surface entirely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped



Continuation **Side cutters DIN ISO 5749**

Length (L)	Max. hard wire diameter cutting capacity	Art. no.	P. Qty.
140 mm	2.2 mm	0715 01 570	1/10
160 mm	2.5 mm	0715 01 571	1/10
180 mm	2.7 mm	0715 01 572	1/10
200 mm	3 mm	0715 01 573	1/10

Flat nose pliers DIN ISO 5745

- High-quality tool steel ensures high durability and precision of gripping surfaces
- Jaws serrated at front, long design
- Surface entirely polished and sealed with clear lacquer
- Double-dipped PVC handle casing
- Lap joint



Length (L)	160 mm
Length in inches (L)	6-1/4 in
Jaws length (L3)	52 mm
Jaws thickness (T1)	9 mm
Jaw-tips width (W4)	3 mm

Art. no. 0715 01 564

P. Qty.: 1/10

Combination pliers, angled

Ergonomic pliers for gripping, cutting, pulling and screwing

- Protects joints and muscles
- Long service life and high precision
- Ergonomic and non-slip 2-component comfort handle with narrow collar profile
- Cutting edges: Inductively hardened, precision cutting edges
- Surface: Entirely ground and chrome-plated
- Joint: Lap joint, with opening spring



Length (L)	200 mm
Max. hard wire diameter cutting capacity	2.5 mm
Max. cable diameter cutting capacity in aluminium/copper	13 mm
Surface	Chrome plated



Art. no. 0714 01 591

P. Qty.: 1/6

Heavy-duty side cutters, reversible

2 tools in one: Side cutters with connectible lever transmission

- Twice the cutting power on pressing the power button
- High cutting power also allows you to cut thick cables
- Avoids hard cutting impact as experienced with conventional side cutters
- Precision cutting has a long service life
- Ergonomic 2-component handle with non-slip surface



Length (L)	200 mm
Max. medium wire diameter cutting capacity	4.5 mm
Max. hard wire diameter cutting capacity	3.5 mm
Max. piano wire diameter cutting capacity	3 mm
Max. soft wire diameter cutting capacity	5 mm
Material	Steel
Surface	Chrome plated
Type of joint	Launched

Art. no. 0714 01 599

P. Qty.: 1/5

2C super nippers

Fine-cut pliers for precision working

- Standard: DIN ISO 9654
- Skin-friendly 2-component grip covers
- Joint with stainless steel riveting, opening spring with opening limiter
- Non-chamfered cutting, precision-ground, for sharp flush cutting



Length	125 mm
Jaws thickness	7.5 mm

Jaws width	Cutting edge length	Min./max. soft wire diameter cutting capacity	Max. medium wire diameter cutting capacity	Material	Art. no.	P. Qty.
13.5 mm	5.5 mm	0.2-1 mm	0.6 mm	Stainless steel	0714 07 541	1/10
12.5 mm	9 mm	0.2-1 mm		Tool steel	0714 07 542	1/10
12.5 mm	9 mm	0.2-1 mm		Tool steel	0714 07 543	1/10
13.5 mm	9 mm	0.2-1.6 mm	1.2 mm	Tool steel	0714 07 544	1/10
13.5 mm	9 mm	0.2-1.6 mm	1.2 mm	Tool steel	0714 07 545	1/10

One-hand ratchet cutters

Handle with hand slip guard

Cutting edge:

- For multi-strand copper and aluminium cables
- Works without compressing cables
- Hardened
- Precision-ground

Shears can be unlocked in any cutting position

Pivot arms:

One-handed operation, optimum lever transmission

Joint:

Ratchet mechanism



Max. cable diameter cutting capacity in aluminium/copper	32 mm
Length (L)	250 mm
Max. aluminium/copper wire cross-section cutting capacity	240 mm ²
Length in inches (L)	6 in

Art. no. 0715 07 54

P. Qty.: 1



Not suitable for steel wire.

Crimping tool C 161

For insulated and uninsulated wire end ferrules in accordance with DIN 46228

- Mandrel pressing
- Made of forged tool steel
- Made in Germany



Min./max. wire cross section	0.5-16 mm ²
Number of crimping points	8 PCS
Length (L)	190 mm
Material	Tool steel
Surface	Burnished
Material of the grip handle	Plastic

Art. no. 0557 10

P. Qty.: 1



Wire stripping pliers, adjustable

Integrated cutting depth adjustment for fine adjustment with different insulation materials

- Adjustable longitudinal stop: 3-18 mm
- Integrated cable cutters: Flexible up to 10.0 mm², rigid up to 1.5 mm²
- Made in Sweden

Length x width x height	191 x 20 x 90 mm
Material	Plastic/metal
Material of the grip handle	2-component plastic

Blade geometry	Min./max. wire cross section	Min./max. American Wire Gauge (AWG) (AWG)	Art. no.	P. Qty.
O-shaped	4-16 mm ²	12-5	0714 108 116	1
Straight	0.02-10 mm ²	34-8	0714 108 10	1

Wire stripping pliers SENSOR

Automatic gauging system, no adjustment to cable cross-section is necessary

- No longitudinal stop – longer cable sections can be fed through the body of the pliers and stripped
- Made in Germany



Blade geometry	O-shaped
Length x width x height	166 x 28 x 102 mm
Material	Plastic/metal
Material of the grip handle	Plastic

Type description	Min./max. wire diameter	Art. no.	P. Qty.
SENSOR 1	3.2-4.4 mm	0714 109 044	1
SENSOR 2	4.4-7 mm	0714 109 070	1

Not suitable for working on or in the vicinity of live parts.

Wire stripping pliers AS 61

Automatic gauging system, no adjustment to cable cross-section is necessary

- Pistol grip/design for fatigue-free operation, especially when working on tables and workbenches
- Adjustable longitudinal stop: 5-15 mm
- Integrated cable cutters: Up to 2.5 mm²



Type description	AS 61
Blade geometry	V-shaped
Min./max. wire cross section	0.2-6 mm ²
Min./max. American Wire Gauge (AWG) (AWG)	24-10
Length x width x height	165 x 27 x 140 mm
Material	Plastic/metal
Material of the grip handle	Plastic

Art. no. 0714 109 006

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Stripping tool CAT

No cutting depth adjustment required

- 2 pairs of blades for two-stage stripping (outer sheath and foil shielding)
- No damage to the inner shielding/cable elements
- Length scaling for accurate stripping



Type description	CAT
Min./max. cable diameter	4.5-10 mm
Length x width x height	100 x 18 x 18 mm

Material	Plastic/metal
Colour	Black, Red

Art. no. 0714 41 045

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Stripping tool XL

No cutting depth adjustment required. Long design for simplified stripping in device connection boxes.

- 4-blade arrangement for reduced effort and improved precision
- Length scaling for accurate stripping
- Blades coated with titanium nitride for higher cutting speed, longer service life



Type description	XL
Min./max. cable diameter	8-13 mm
Length x width x height	176 x 35 x 30 mm
Material	Plastic/metal
Colour	Black, Grey, Red

Art. no. 0714 41 044

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Stripping tool UNIVERSAL BASIC

No cutting depth adjustment required

- 4-blade arrangement for reduced effort and improved precision
- Longitudinal stop with 11 mm stripping length for connection clamps (1.5–2.5 mm²)
- Two-way longitudinal stop for right-handed and left-handed users



Type description	UNIVERSAL BASIC
Min./max. cable diameter	8-15 mm
Min./max. wire cross section	1.5-2.5 mm ²
Min./max. American Wire Gauge (AWG)	15-13
Length x width x height	130 x 38 x 25 mm
Material	Plastic/metal
Colour	Black, Red

Art. no. 0714 41 043

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Wire stripping pliers AS 61 PLUS

Integrated cutting depth adjustment for fine adjustment with different insulation materials

- Pistol grip/design for fatigue-free operation, especially when working on tables and workbenches
- Adjustable longitudinal stop: 6-18 mm
- Integrated cable cutters: Up to 2.5 mm²



Type description	AS 61 PLUS
Blade geometry	V-shaped
Min./max. wire cross section	0.2-6 mm ²
Min./max. American Wire Gauge (AWG) (AWG)	24-10
Length x width x height	200 x 28 x 165 mm
Material	Plastic/metal
Material of the grip handle	Plastic

Art. no. 0714 108 006

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Wire stripping and crimping pliers QUADRO

Four functions (cutting, stripping, twisting, crimping) in one tool - saves time and money

- For crimping wire end ferrules on reels in line with VDE 0609 part 1 (profile form: trapezoid)
- Integrated cable cutters: Up to 2.5 mm²
- Twist system prevents the stranded wires from fraying to ensure reliable insertion of the conductor into the wire end ferrule



Type description	QUADRO
Blade geometry	Straight
Min./max. wire cross section	0.5-2.5 mm ²
Min./max. American Wire Gauge (AWG) (AWG)	20-13
Length x width x height	173 x 30 x 98 mm
Material	Plastic/metal
Material of the grip handle	Plastic

Art. no. 0714 108 501

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Automatic self-adjusting wire stripping pliers

Automatic scanning system, no adjustment to cable cross-section is necessary

- Adjustable longitudinal stop: 3-17 mm
- Integrated cable cutters: Flexible up to 10.0 mm², rigid up to 6.0 mm²
- Made in Germany



Blade geometry	Straight
Min./max. wire cross section	0.03-10 mm ²
Min./max. American Wire Gauge (AWG) (AWG)	32-7
Length x width x height	193 x 18 x 96 mm
Material	Plastic/metal
Material of the grip handle	2-component plastic

Art. no. 0714 109 010

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Mechanical manual crimping pliers

Hexagon crimping

- Rotating crimping inserts
- Strength-saving drive
- Accurate identification of crimping insert sizes



Pressing width	5 mm
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Type	Suitable for	Min./max. pressing area	Art. no.	P. Qty.
WK 05	Commercially available pipe cable lugs and connection sleeves (similar to DIN)	6-50 mm ²	0967 05	1
WK 05 D	Compression cable lugs and connecting sleeves DIN 46235	6-50 mm ²	0967 05 1	1
WK 06	Commercially available pipe cable lugs and connection sleeves (similar to DIN)	10-120 mm ²	0967 06	1
WK 06 D	Compression cable lugs and connecting sleeves DIN 46235	10-120 mm ²	0967 06 1	1

Cable sheath splitter

For removing all insulation layers from cables of Ø ≥25 mm external.

- Cutting depth can be adjusted from 0-5 mm
- Replaceable blade (can be used on both sides)
- Suitable for longitudinal and circular cuts

Length	154 mm
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Continuation **Cable sheath slitter**

Art. no. 0714 41 09

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Stripping tool AM 130

No cutting depth adjustment required

- Four-blade arrangement for reduced effort and improved precision
- Blades coated with titanium nitride for higher cutting speed, longer service life
- Fastening clip for safe storage



Type description	AM 130
Min./max. cable diameter	8-13 mm
Length x width x height	124 x 35 x 25 mm
Material	Plastic/metal
Colour	Black, Red

Art. no. 0714 41 02

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Stripping tool AM 130 PLUS

No cutting depth adjustment required. Innovative grommet for fast and easy longitudinal cuts.

- Stripping device for conductors and stranded wires 0.2–0.3–0.8–1.5–2.5–4.0 mm²
- Sliding blade coated with titanium nitride
- Blades coated with titanium nitride for higher cutting speed, longer service life



Type description	AM 130 PLUS
Min./max. cable diameter	8-13 mm
Min./max. wire cross section	0.2-4 mm ²
Min./max. American Wire Gauge (AWG)	24-12
Length x width x height	124 x 37 x 25 mm
Material	Plastic/metal
Colour	Black, Grey, Red

Art. no. 0714 41 031

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Stripping tool KOAX

No cutting depth adjustment required

- 2 pairs of blades for two-stage stripping
- No damage to the inner shielding/cable elements
- Length scaling for accurate stripping



Type description	KOAX
Min./max. cable diameter	4.8-7.5 mm
Length x width x height	98 x 20 x 20 mm
Material	Plastic/metal
Colour	Black, Grey, Red

Art. no. 0714 41 032

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Stripping knife AM 280

Soft-component inserts on strap and handle guarantee maximum grip

- Hooked blade coated with titanium nitride
- Cutting depth adjustable using the screw on the end of the handle
- Blade coated with titanium nitride for higher cutting speed, longer service life



Type description	AM 280
Min./max. cable diameter	8-28 mm
Length x width x height	170 x 29 x 35 mm
Material	Plastic/metal
Colour	Black, Grey, Red

Art. no. 0714 41 01

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Stripping knife AM 280 PLUS

Automatic blade protection – prevents cutting injuries!

- Interchangeable bracket system Ø4–70 mm for sheath stripping all conventional round cables
- Viewing window on the interchangeable bracket for visual inspection of the cutting process (Ø 4–28 mm)
- Cutting depth adjustment of inner knife: max. 3.5 mm
- Cutting depth adjustment of hooked blade: 4 settings (2.8–4.6 mm)



Type description	AM 280 PLUS
Min./max. cable diameter	4-35 mm
Length x width x height	167 x 32 x 38 mm

Continuation **Stripping knife AM 280 PLUS**

Material	Plastic/metal
Colour	Black, Grey, Red

Art. no. 0714 41 110

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Stripping knife AM 281

Soft-component inserts on strap and handle guarantee maximum grip

- Cutting depth adjustable using the screw on the end of the handle
- Blade coated with titanium nitride for higher cutting speed, longer service life
- Automatic adjustment to round or longitudinal cuts



Type description	AM 281
Min./max. cable diameter	8-28 mm
Length x width x height	132 x 29 x 35 mm
Material	Plastic/metal
Colour	Black, Grey, Red

Art. no. 0714 41 00

P. Qty.: 1

Not suitable for working on or in the vicinity of live parts.

Cable knife

Folding cable knife with black, impact-resistant plastic handle

Length	120 mm
Cutting edge length	75 mm



Art. no. 0695 941 09

P. Qty.: 1

Circlip pliers Type C

For bore circlips

- Standard: DIN 5256
- Handle: Plastic-coated
- Tip from compressed spring steel
- Inserted tips
- Screwed and mounted joint
- Large contact surfaces
- Slim pliers head



Material	Steel
Form	C

Length (L1)	Min./max. grip range	Jaws length (L2)	Tenon diameter (D1)	Art. no.	P. Qty.
140 mm	8-13 mm	39 mm	0.9 mm	0714 02 01	1/10
140 mm	12-25 mm	38 mm	1.25 mm	0714 02 02	1/10
180 mm	19-60 mm	54 mm	1.8 mm	0714 02 03	1/10
225 mm	40-100 mm	65 mm	2.25 mm	0714 02 04	1/10
320 mm	85-140 mm	91 mm	3.2 mm	0714 02 05	1/5

Circlip pliers Type D

For bore circlips

- Standard: DIN 5256
- Handle: Plastic-coated
- Tip from compressed spring steel
- Inserted tips
- Screwed and mounted joint
- Large contact surfaces
- Slim pliers head



Material	Steel
Form	D

Length (L1)	Min./max. grip range	Jaws length (L2)	Hook length (L3)	Tenon diameter (D1)	Art. no.	P. Qty.
130 mm	8-13 mm	26 mm	12 mm	0.9 mm	0714 02 06	1/10
130 mm	12-25 mm	26 mm	12 mm	1.25 mm	0714 02 07	1/10
165 mm	19-60 mm	40 mm	14 mm	1.8 mm	0714 02 08	1/10
210 mm	40-100 mm	49 mm	16 mm	2.25 mm	0714 02 09	1/10
305 mm	85-140 mm	73 mm	20 mm	3.2 mm	0714 02 10	1/5

Circlip pliers Type B

For shaft locking rings

- Standard: DIN 5254
- Handle: Plastic-coated
- Tip from compressed spring steel
- Inserted tips
- Screwed and mounted joint
- Large locating faces
- Slim pliers head
- Internal spring



Material	Steel
Form	B

Continuation Circlip pliers Type B

Length (L1)	Min./max. grip range	Jaws length (L2)	Hook length (L3)	Tenon diameter (D1)	Art. no.	P. Qty.
130 mm	3-10 mm	27 mm	12 mm	0.9 mm	0714 02 16	1/10
130 mm	10-25 mm	27 mm	12 mm	1.25 mm	0714 02 17	1/10
165 mm	19-60 mm	40 mm	15 mm	1.8 mm	0714 02 18	1/10
210 mm	40-100 mm	55 mm	16 mm	2.25 mm	0714 02 19	1/10
305 mm	85-140 mm	73 mm	20 mm	3.2 mm	0714 02 20	1/5

Circlip pliers Type A

For shaft locking rings

- Standard: DIN 5254
- Handle: Plastic-coated
- Tip from compressed spring steel
- Inserted tips
- Screwed and mounted joint
- Large locating faces
- Slim pliers head
- Internal spring



Material	Steel
Form	A

Length (L1)	Min./max. grip range	Jaws length (L2)	Tenon diameter (D1)	Art. no.	P. Qty.
140 mm	3-10 mm	39 mm	0.9 mm	0714 02 11	1/10
140 mm	10-25 mm	38 mm	1.25 mm	0714 02 12	1/10
180 mm	19-60 mm	56 mm	1.8 mm	0714 02 13	1/10
225 mm	40-100 mm	70 mm	2.25 mm	0714 02 14	1/10
320 mm	85-140 mm	92 mm	3.2 mm	0714 02 15	1/5

Circlip pliers set

4-piece set

- Handle: Plastic-coated
- Tip from compressed spring steel
- Inserted tips
- Screwed and mounted joint
- Large contact surfaces
- Slim pliers head



Contents: 4 pcs

- 1 circlip pliers, shape A, 19 - 60 mm
- 1 circlip pliers, shape B, 19 - 60 mm
- 1 circlip pliers, shape C, 19 - 60 mm
- 1 circlip pliers, shape D, 19 - 60 mm

Number of pieces in assortment/set	4 PCS
Product weight (per item)	739 g

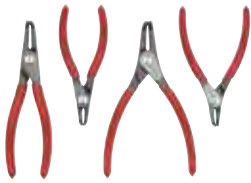
Art. no. 0714 02 30

P. Qty.: 1

Contents for art. no. 0714 02 30		
Designation	Art. no.	Quantity
Circlip pliers Type C Min./max. grip range=19-60 mm	0714 02 03	1
Circlip pliers Type D Min./max. grip range=19-60 mm	0714 02 08	1
Circlip pliers Type A Min./max. grip range=19-60 mm	0714 02 13	1
Circlip pliers Type B Min./max. grip range=19-60 mm	0714 02 18	1

Circlip pliers set

- Handles: Plastic-coated
- Tip from compressed spring steel
- Inserted tips
- Screwed and mounted joint
- Large contact surfaces
- Slim pliers head



Contents: 4 pieces

- 1 circlip pliers, shape B, 10–25 mm
- 1 circlip pliers shape B, 19–60 mm
- 1 circlip pliers shape D, 10–25 mm
- 1 circlip pliers shape D, 19–60 mm

Number of pieces in assortment/set	4 PCS
Product weight (per item)	593 g

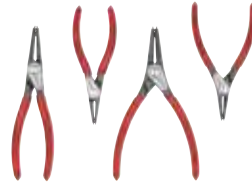
Art. no. 0714 02 32

P. Qty.: 1

Contents for art. no. 0714 02 32		
Designation	Art. no.	Quantity
Circlip pliers Type D Min./max. grip range=12-25 mm	0714 02 07	1
Circlip pliers Type D Min./max. grip range=19-60 mm	0714 02 08	1
Circlip pliers Type B Min./max. grip range=10-25 mm	0714 02 17	1
Circlip pliers Type B Min./max. grip range=19-60 mm	0714 02 18	1

Circlip pliers set

- Handle: Plastic-coated
- Tip from compressed spring steel
- Inserted tips
- Screwed and mounted joint
- Large contact surfaces
- Slim pliers head



Contents: 4 pieces

- 1 circlip pliers, shape A, 10–25 mm
- 1 circlip pliers, shape A, 19–60 mm
- 1 circlip pliers, shape C, 10–25 mm
- 1 circlip pliers, shape C, 19–60 mm

Number of pieces in assortment/set	4 PCS
Product weight (per item)	590 g

Art. no. 0714 02 31

P. Qty.: 1

Contents for art. no. 0714 02 31		
Designation	Art. no.	Quantity
Circlip pliers Type C Min./max. grip range=12-25 mm	0714 02 02	1
Circlip pliers Type C Min./max. grip range=19-60 mm	0714 02 03	1
Circlip pliers Type A Min./max. grip range=10-25 mm	0714 02 12	1
Circlip pliers Type A Min./max. grip range=19-60 mm	0714 02 13	1

Carpet knife

With fixed blade and quick-change fastener

- Polished aluminium handle
- Including holster



Length	170 mm
Design	Short

Art. no. 0714 662 12

P. Qty.: 1

2-component carpet knife

With three stop positions and a fully retractable bi-metal blade.

- Fast and easy blade change thanks to magnetic holder
- Ergonomic, non-slip 2-component handle
- Integrated blade magazine for 5 blades



Length	170 mm
--------	--------

Art. no. 0715 66 015

P. Qty.: 1

2-component safety knife

With full, automatic blade retraction and a bi-metal blade

- Fast and easy blade change thanks to magnetic holder
- Ergonomic, non-slip 2-component handle
- Integrated blade magazine for 5 blades



Length	170 mm
--------	--------

Art. no. 0715 66 013

P. Qty.: 1



2C cutter knife with slide

Highly non-slip and ergonomic thanks to high-quality 2-component handle and automatic blade locking

Highly stable and precise blade guide

Very robust blade guide made from stainless steel

Width of knife blade	Length	Art. no.	P. Qty.
9 mm	160 mm	0715 66 274	1
18 mm	170 mm	0715 66 275	1
25 mm	195 mm	0715 66 276	1

1C cutter knife with slider

With automatic blade locking for convenient one-hand operation

- Impact-resistant plastic handle and stainless steel blade guide



Width of knife blade	Length	Art. no.	P. Qty.
9 mm	140 mm	0715 66 060	1/10
18 mm	160 mm	0715 66 210	1/10

ECO cutter knife with clamping wheel

Continuously variable blade locking via clamping wheel

- High-quality and ergonomic grip and removable end cap with recess for safe blade retraction
- Blade clamping using robust clamping screw
- Slide with metal insert nut for long-lasting thread use

Width of knife blade	18 mm
Length	155 mm

Art. no. 0715 66 045

P. Qty.: 1/10



1C cutter knife with clamping wheel

Blade locking via clamping wheel

High stability and precise blade guidance

Impact-resistant plastic handle and stainless steel blade guide

Width of knife blade	25 mm
Length	185 mm

Art. no. 0715 66 350

P. Qty.: 1/10



Carpet knife

With slim, extremely robust metal handle.

- Adjustable blade with 3 locking positions

Length	160 mm
Design	Carpet knife

Art. no. 0715 66 01

P. Qty.: 1



2-component universal knife

With corrosion-resistant blade made of premium stainless steel and case

- Non-slip and ergonomic 2-component handle
- Very high cutting hardness of 58 HRC
- The knife blade is extremely securely connected to the handle
- High-quality case with belt clip

Length	220 mm
Blade length	100 mm
Thickness of blade	2 mm
Width of knife blade	20 mm



Continuation **2-component universal knife**

Material	Stainless steel
Material of the grip handle	2-component plastic
Design	With quiver

Art. no. 0715 66 530

P. Qty.: 1

1-component universal knife

With high-quality 440 A stainless steel blade and case

- Ergonomic handle shape and fine, textured surface
- High cutting hardness of 56 HRC
- The knife blade is extremely securely connected to the handle
- High-quality case with belt clip



Length	225 mm
Blade length	100 mm
Thickness of blade	2 mm
Width of knife blade	20 mm
Material	Stainless steel AISI 440
Material of the grip handle	1-component plastic
Design	With quiver

Art. no. 0715 66 542

P. Qty.: 1

Snap-off blade

Extremely sharp blade for precision cuts even of fine strips. Ideal for paper, film and thin materials.

- Acute blade angle and top-quality steel make the blade extremely sharp
- In practical sliding dispenser



Material	Steel
----------	-------

Blade length	Width of knife blade	Thickness of blade	Cutting edge length	Art. no.	P. Qty.
85 mm	9 mm	0.4 mm	80 mm	0715 66 073	10
110 mm	18 mm	0.5 mm	100 mm	0715 66 031	50
110 mm	18 mm	0.5 mm	100 mm	0715 66 053	10
140 mm	25 mm	0.7 mm	125 mm	0715 66 093	10

Snap-off blade

Robust blade with long service life

- Ice-hardened blade
- 3-facet cut
- In convenient dispenser



Material	Steel
----------	-------

Blade length	Width of knife blade	Thickness of blade	Cutting edge length	Art. no.	P. Qty.
85 mm	9 mm	0.4 mm	80 mm	0715 66 07	10
110 mm	18 mm	0.5 mm	100 mm	0715 66 05	10
110 mm	18 mm	0.5 mm	100 mm	0715 66 051	50
140 mm	25 mm	0.7 mm	125 mm	0715 66 351	10

Stainless steel cutting blade

Stainless steel blade for permanently clean cuts.

- No break-off segments, no predetermined breaking points
- Specially hardened cutting blade
- Secure storage in practical push dispenser



Blade length	110 mm
Width of knife blade	18 mm
Thickness of blade	0.5 mm
Material	Stainless steel, 1.4034
Cutting edge length	100 mm

Art. no. 0715 66 085

P. Qty.: 10

Trapezoidal blade

In dispenser

Blade length	61 mm
Width of knife blade	18.7 mm
Thickness of blade	0.65 mm
Material	Carbon steel



Art. no. 0715 66 02

P. Qty.: 100

Hooked blade

In dispenser

Blade length	50 mm
Width of knife blade	18.7 mm
Thickness of blade	0.65 mm
Material	Carbon steel



Art. no. 0715 66 03

P. Qty.: 10/100

Concave blade

For bitumen, PVC etc.

Blade length	59 mm
Thickness of blade	0.65 mm
Material	Steel
Material to be processed	Bitumen, PVC



Art. no. 0715 665 23

P. Qty.: 10

Straight edge blade

For polystyrene etc.

Blade length	180 mm
Thickness of blade	0.65 mm
Material	Steel
Material to be processed	Styrofoam



Art. no. 0715 665 41

P. Qty.: 2

Serrated edge blade

For insulating materials and similar

Blade length	180 mm
Thickness of blade	0.65 mm
Material	Steel
Material to be processed	Insulating materials



Art. no. 0715 665 42

P. Qty.: 2

Bi-metal blade

The bi-metal makes it almost unbreakable

Extremely safe to use

Unbreakable under normal working conditions.

Excellent profitability and efficiency

3 x longer service life than standard blades.

Bendable and flexible

The blade can be bent and worked with as required. (Such special applications are only possible with this blade)



Blade length	61 mm
Width of knife blade	18.7 mm
Thickness of blade	0.6 mm
Material	Bimetal

Art. no. 0715 66 021

P. Qty.: 10

Japanese saw blade

For use in 25 mm cutter knife.

Clean, effortless cutting

Extremely sharp due to special toothing.

Suitable for hard-to-reach areas

Compact, handy and suitable for universal use.

Enables parts to be sawed off flush

Flexible yet rigid for when in use.

Defined cutting depth prevents inadvertent damage

The cutting depth of the blade can be adjusted.



Blade length	140 mm
Width of knife blade	25 mm
Thickness of blade	0.7 mm
Material	Steel
Cutting edge length	110 mm

Material to be processed	Art. no.	P. Qty.
Plastic	0715 66 353	2
Solid wood (not chipboard)	0715 66 352	2

Scraper and blade set

27-piece scraper set with 4 different scraper blades and carpet knife

- Ergonomic 2C scraper handle with blade clamp
- Carpet knife with multi-stage locking
- Blade can be fully retracted

Number of pieces in assortment/set	27 PCS
Product weight (per item)	533 g



Art. no. 0715 66 40

P. Qty.: 1

Contents for art. no. 0715 66 40		
Designation	Art. no.	Quantity
Carpet knife	0715 66 01	1
Trapezoidal blade	0715 66 02	5
Scraper handle	0715 66 41	1
Scraper blade Width of knife blade 12 mm	0715 66 42	5
Scraper blade Width of knife blade 16 mm	0715 66 43	5
Scraper blade Width of knife blade 20 mm	0715 66 44	5
Scraper blade Width of knife blade 16 mm	0715 66 45	5

Scraper blade



Width of knife blade	Art. no.	P. Qty.
12 mm	0715 66 42	5
16 mm	0715 66 43	5
16 mm	0715 66 45	5
20 mm	0715 66 44	5

Scraper handle

Ergonomic two-part handle with blade clamp for scraper blades

Art. no. 0715 66 41

P. Qty.: 1



Stainless steel impact scraper

Universal scraper with striking cap and stainless steel blade

- Ergonomic 2C handle with non-slip surface to dampen hammer blows
- Spherical striking cap with full blade shaft
- Mirror-polished scraper blade for easy cleaning
- 1.8 mm thick stainless steel blade prevents contact corrosion



Length	235 mm
Blade length	100 mm
Material	Stainless steel AISI 420
Material of the grip handle	2-component plastic

Width of knife blade	Art. no.	P. Qty.
25 mm	0714 663 352	1
50 mm	0714 663 353	1
75 mm	0714 663 354	1

The scraper is intended for use with a hammer but does not substitute a chisel for chiselling work.

Multipurpose scraper

With striking cap and stainless steel blade for scraping and smoothing, extracting nails, cleaning paint rollers.

- Pulling eye for removing nails and pins
- Round cut-out for cleaning paint rollers or pipes
- Pointed blade for scraping out grooves, or for use as a putty knife
- Ergonomic, 2-part, non-slip handle, dampens hammer blows
- Mirror-polished scraper blade for easy cleaning
- 1.8 mm thick stainless steel blade to prevent contact corrosion



Length	235 mm
Width of knife blade	75 mm
Blade length	100 mm
Material	Stainless steel AISI 420
Material of the grip handle	2-component plastic

Art. no. 0714 663 355

P. Qty.: 1

The scraper is intended for use with a hammer but does not substitute a chisel for chiselling work.

Plastic scraper set

2-piece set for gentle removal of stickers, adhesive labels and dirt.

- Low risk of injury
- Robust and resharpenable scraper blade



Number of pieces in assortment/set	2 PCS
Product weight (per item)	180 g

Art. no. 0714 541 225

P. Qty.: 1

Contents for art. no. 0714 541 225			
Designation	Art. no.	Quantity	
Plastic scraper 50 mm	0714 541 224	1	
Plastic scraper 70 mm	0714 541 223	1	

Folding knife DESERT Special Edition

G10 folding knife made of high-quality AUS-8 stainless steel with Linerlock closure

- Premium special edition with handles milled individually from solid piece for optimum grip
- Robust and continually sharp stainless steel blade made of high-quality AUS-8 steel, extreme hardness of 59 HRC due to a special hardening process
- Serrated blade area for cutting belts and ropes



Length	110 mm
Blade length	85 mm
Material of the grip handle	Plastic glass fibre reinforced
Material	Stainless steel

Art. no. 0715 66 556

P. Qty.: 1

Trapezoidal blade knife

With integrated, magnetic 1/4 inch bit holder and cable stripping tool

- Quick and easy extension of blade
- With belt clip for attaching to clothing



Length	125 mm
Blade length	61 mm
Material of the grip handle	Aluminium
Material	Steel

Art. no. 0715 66 515

P. Qty.: 1

Folding knife RESCUE special edition

G10 limited edition folding knife with individually shaped grip plates and a blade with a hardness of 59 HRC

- Premium special edition with handles milled individually from solid piece for optimum grip
- Robust and continually sharp stainless steel blade made of high-quality AUS-8 steel, extreme hardness of 59 HRC due to a special hardening process
- Serrated blade area for cutting belts and ropes



Length	120 mm
Blade length	85 mm
Material of the grip handle	Plastic glass fibre reinforced
Material	Stainless steel

Art. no. 0715 66 558

P. Qty.: 1

Folding knife BLACK ROCK special edition

G10 limited edition folding knife with individually shaped grip plates and a blade with a hardness of 59 HRC

- Premium special edition with handles milled individually from solid piece for optimum grip
- Robust and continually sharp stainless steel blade made of high-quality AUS-8 steel, extreme hardness of 59 HRC due to a special hardening process
- Always to hand thanks to a practical nylon belt pouch



Length	110 mm
Blade length	85 mm
Material of the grip handle	Plastic glass fibre reinforced
Material	Stainless steel

Art. no. 0715 66 557

P. Qty.: 1

3-component safety knife

With fully automatic blade retraction after the cutting process.

- Even when the slide is activated, the blade retracts after leaving the cut material (regardless of person)
- Non-slip and solid 3-component handle
- Tool-free blade change



Length	160 mm
Cutting edge length	61 mm
Blade length	61 mm
Material of the grip handle	Aluminium

Art. no. 0715 66 017

P. Qty.: 1/10



Water pump pliers DIN ISO 8976

Self-clamping water pump pliers with push button adjustment

- Slip-resistant, plastic-coated handle
- Hardened chromium-vanadium steel
- Inductively hardened, polished teeth
- Pinch guard prevents crushing injuries
- Box joint
- Rapid and precise, one-handed fine adjustment directly on the workpiece
- No unintentional adjustment
- Self-clamping on pipes and nuts
- No slippage on workpiece

Material	Chrome-vanadium steel
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Length in inches (L)	Length (L)	Min./max. grip range	Length of gripping jaws (E)	Art. no.	P. Qty.
5 in	125 mm	10-27 mm	23 mm	0715 02 332	1/10
6 in	150 mm	10-30 mm	27 mm	0715 02 330	1/10
7 in	180 mm	10-36 mm	31 mm	0715 02 33	1/10
10 in	250 mm	10-46 mm	35 mm	0715 02 23	1/10
12 in	300 mm	10-60 mm	40 mm	0715 02 331	1/10
16 in	400 mm	10-95 mm	56 mm	0715 02 34	1
22 in	560 mm	10-120 mm	88 mm	0715 02 341	1

Water pump pliers DIN ISO 8976

Box joint, 7x adjustable

- Red-painted, slip-resistant handle
- Tempered chrome-vanadium steel
- Inductively hardened teeth
- Ground head
- Self-clamping on pipes and nuts
- No slippage on workpiece



Material	Chrome-vanadium steel
----------	-----------------------

Length in inches (L)	Length (L)	Min./max. grip range	Length of gripping jaws (E)	Art. no.	P. Qty.
7 in	175 mm	10-28 mm	27 mm	0714 02 70	1
10 in	250 mm	10-32 mm	36 mm	0714 02 71	1
12 in	300 mm	10-42 mm	41 mm	0714 02 72	1

Water pump pliers, self-adjusting

Self-adjusting water pump pliers with multiple engagement points

- No need to find the correct opening width thanks to automatic setting
- Specially hardened teeth (51 HRC) and spring shock absorbers



Length in inches (L)	10 in
Length (L)	250 mm
Min./max. grip range	10-32 mm
Material	Chrome-vanadium steel

Art. no. 0714 02 85

P. Qty.: 1/10

Water pump pliers DIN ISO 8976

Box joint, 7x adjustable

Handle: Plastic-coated

Teeth: Inductively hardened

- Self-clamping on pipes and nuts
- No slippage on workpiece



Material	Chrome-vanadium steel
----------	-----------------------

Length in inches (L)	Length (L)	Min./max. grip range	Length of gripping jaws (E)	Art. no.	P. Qty.
7 in	175 mm	10-28 mm	27 mm	0714 02 75	1
10 in	250 mm	10-30 mm	32 mm	0714 02 76	1
12 in	300 mm	10-40 mm	41 mm	0714 02 77	1



Plier wrench

Pliers and wrench in one tool

- Plastic-covered handle
- Baking: parallel, smooth and chromium-plated
- No damage to workpiece thanks to zero-backlash surface pressure
- Push-button adjustment Directly on the workpiece
- Joint: box joint
- Force transfer: 10x
- The stroke between the gripping surfaces allows rapid tightening and loosening of bolted connections using the ratchet principle

Max. grip range	Max. grip range in inches	Length (L)	Width of clamping jaw (B)	Jaws thickness (C)	Art. no.	P. Qty.
23 mm	7/8 in	125 mm	10 mm	3 mm	0715 02 512	1/10
27 mm	1 in	150 mm	12 mm	5 mm	0715 02 515	1/10
35 mm	1-3/8 in	180 mm	14 mm	6 mm	0715 02 51	1/10
46 mm	1-3/4 in	270 mm	18.5 mm	8 mm	0715 02 50	1/10
60 mm	2-3/8 in	300 mm	22 mm	10 mm	0715 02 52	1/5
85 mm	3-3/8 in	400 mm	30 mm	12 mm	0715 02 514	1

90° corner pipe wrench

Swedish type, angled 90°

- Fixed with captive adjusting nuts
- Tothing on head set against the direction of rotation
- Inductively hardened teeth



Max. pipe diameter in inches	Grip range	Length (L)	Width of clamping jaw (B)	Jaws thickness (C)	Art. no.	P. Qty.
1-1/2 in	46 mm	420 mm	20 mm	18.5 mm	0714 06 51	1
1 in	35 mm	310 mm	18 mm	15.5 mm	0714 06 50	1
2 in	65 mm	560 mm	25 mm	22.5 mm	0714 06 52	1

45° corner pipe wrench

Swedish type, angled 45°

- Fixed with captive adjusting nuts
- Tothing on head set against the direction of rotation
- Inductively hardened teeth



Max. pipe diameter in inches	Grip range	Length (L)	Width of clamping jaw (B)	Jaws thickness (C)	Art. no.	P. Qty.
1-1/2 in	46 mm	426 mm	24 mm	15.5 mm	0714 06 56	1
1 in	35 mm	314 mm	22 mm	13 mm	0714 06 55	1
2 in	65 mm	570 mm	31 mm	19.5 mm	0714 06 57	1

S-jaw corner pipe wrench

Swedish form, S-jaw, with three-point support and self-adhesive fixing.

- Attached with captive adjusting nut
- Tothing offset against direction of rotation on head
- Induction-hardened teeth



Grip range in inches	Max. pipe diameter in inches	Grip range	Length (L)	Width of clamping jaw (B)	Art. no.	P. Qty.
1/2 in	1/2 in	22 mm	235 mm	15 mm	0714 06 59	1
1 in	1 in	35 mm	320 mm	18 mm	0714 06 60	1
1-1/2 in	1-1/2 in	46 mm	416 mm	24 mm	0714 06 61	1
2 in	2 in	65 mm	535 mm	28 mm	0714 06 62	1
3 in	3 in	80 mm	640 mm	30 mm	0714 06 63	1

Push-through ratchet 1/2"

Can be used for step wrenches and push-through squares

- Drive: Square mount 1/2 inch, 30 teeth, 12° angle of rotation
- Standard: DIN 3122, DIN 3120, ISO 3315
- Material: Chrome-vanadium steel
- Surface: polished, chrome-plated, ratchet head black phosphate-coated
- Handle: 2-component handle



Material of the grip handle	2-component plastic
Number of teeth	30 PCS
Ratchet head height (B1)	24.2 mm
Length (L1)	260 mm

Art. no. 0715 43 005

P. Qty.: 1

1/2" push-through square

Length 38 mm

Drive (S2)	1/2 inch
Length (L1)	38 mm



Art. no. 0715 43 011

P. Qty.: 1

Pincers

DIN 5241, German design

Design	Polished head
Surface	Phosphated



Length	Length in inches	Art. no.	P. Qty.
180 mm	7 in	0715 02 01	1
210 mm	8 in	0715 02 02	1
250 mm	10 in	0715 02 03	1

Monier pliers

DIN 5242

Design	Polished head
Surface	Phosphated



Length	Length in inches	Art. no.	P. Qty.
200 mm	5 in	0715 02 04	1
220 mm	8-1/2 in	0715 02 05	1
250 mm	10 in	0715 02 06	1
280 mm	11 in	0715 02 07	1



Power monier pliers/concretors' pliers

Slimline design for working in hard-to-reach spots

- Cutting impact dampening on cutting through binding wire
- High transmission
- Twisted binding wire Ø 2x2 mm is cut effortlessly; soft wire up to max. Ø 5 mm

Length	300 mm
Length in inches	12 in

Design	Surface	Art. no.	P. Qty.
	Nickel plated	0715 02 101	1
Polished head	Phosphated	0715 02 10	1

Sheet metal profile pliers

For connecting sheet metal profiles without screws and bolts

Art. no. 0714 03 1

P. Qty.: 1



Seaming pliers, curved 45 degrees

Forged steel, bronzed, twist-resistant

Width of jaws (outside)	60 mm
Shape of jaws	45° angle
Length	270 mm



Art. no. 0715 43 027

P. Qty.: 1/5

Compact bolt cutters

For cutting hardened steel wires

- Inductively hardened precision blades
- Particularly high cutting performance with low force application thanks to lever transmission



Length	200 mm
Max. soft wire diameter cutting capacity	6 mm
Max. medium wire diameter cutting capacity	5.2 mm
Max. hard wire diameter cutting capacity	4 mm
Max. piano wire diameter cutting capacity	3.6 mm
Material	Steel
Material of the grip handle	Polyvinyl chloride
Length in inches	8 in

Art. no. 0715 06 01

P. Qty.: 1/10



Bolt cutters

- Forged jaws
- Robust tubular handles with PVC grips
- Eccentricity bolt for adjusting jaws

Material	Steel
Material of the grip handle	Polyvinyl chloride

Length	Art. no.	P. Qty.
460 mm	0714 06 460	1
610 mm	0714 06 610	1
760 mm	0714 06 760	1
910 mm	0714 06 910	1

Welded wire mesh cutters

For cutting welded wire mesh.

- PVC handle
- Adjustable jaws



Length	950 mm
Material	Steel
Material of the grip handle	Polyvinyl chloride

Continuation **Welded wire mesh cutters**

Art. no. 0714 06 950

P. Qty.: 1

Spare head

For welded wire mesh cutters

Includes screws

Art. no. 0714 06 951

P. Qty.: 1



Spare head

For bolt cutters

Includes screws



		Art. no.	P. Qty.
		0714 06 461	1
		0714 06 611	1
		0714 06 761	1
		0714 06 911	1

Locking pliers with semi-circular jaws

For clamping pipes and shafts

- Smooth-action release lever with spring mechanism
- Convenient and effortless one-hand operation - pulling instead of pressing
- High-quality zinc coating for extra-long corrosion protection



Material	Steel
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Length	Min./max. clamping width	Surface	Product weight (per item)	Art. no.	P. Qty.
140 mm	0-32 mm	Zinc plated	173 g	0715 09 06	1
190 mm	0-42 mm	Nickel plated	378.7 g	0714 09 07	1
190 mm	0-40 mm	Zinc plated	362 g	0715 09 07	1
235 mm	0-50 mm	Zinc plated	588.5 g	0715 09 08	1
235 mm	0-48 mm	Nickel plated	552 g	0714 09 08	1

Locking pliers with straight jaws

For clamping sheets and plates

- Smooth-action release lever with spring mechanism
- Convenient and effortless one-hand operation - pulling instead of pressing
- High-quality zinc coating for extra-long corrosion protection



Material	Steel
----------	-------

Length	Min./max. clamping width	Surface	Product weight (per item)	Art. no.	P. Qty.
190 mm	0-35 mm	Zinc plated	357 g	0715 09 09	1
225 mm	0-38 mm	Zinc plated	513 g	0715 09 10	1
235 mm	0-46 mm	Nickel plated	555 g	0714 09 10	1

Locking pliers with long jaws

Material	Steel
Surface	Zinc plated



Length	Min./max. clamping width	Product weight (per item)	Art. no.	P. Qty.
170 mm	0-45 mm	192 g	0715 09 03	1
215 mm	0-50 mm	347 g	0715 09 04	1

Clamping grip pliers, C type

High, long clamping bracket for especially large range

- Smooth-action release lever with spring mechanism
- Convenient and effortless one-hand operation - pulling instead of pressing
- High-quality zinc coating for extra-long corrosion protection



Material	Steel
Surface	Zinc plated

Length	Min./max. clamping width	Clamping depth (T)	Height (W)	Art. no.	P. Qty.
170 mm	0-54 mm	35 mm	55 mm	0715 09 17	1
275 mm	0-98 mm	55 mm	85 mm	0715 09 18	1
465 mm	0-280 mm	235 mm	75 mm	0715 09 20	1
610 mm	0-390 mm	375 mm	75 mm	0715 09 21	1

Clamping grip pliers, C type, parallel

Long, tall clamping bracket with movable jaws

- Smooth-action release lever with spring mechanism
- Convenient and effortless one-hand operation – pulling instead of pressing
- High-quality zinc coating for extra-long corrosion protection



Material	Steel
Surface	Zinc plated

Length	Min./max. clamping width	Clamping depth (T)	Height (W)	Art. no.	P. Qty.
180 mm	0-42 mm	35 mm	58 mm	0715 09 22	1
290 mm	0-86 mm	52 mm	93 mm	0715 09 23	1

Locking pliers with prism jaws

For a variety of clamping possibilities through combining straight and half-round jaw shapes

- Smooth-action release lever with spring mechanism
- Convenient and effortless one-hand operation - pulling instead of pressing
- High-quality zinc coating for extra-long corrosion protection



Material	Steel
Surface	Zinc plated



Length	Min./max. clamping width	Art. no.	P. Qty.
195 mm	0-35 mm	0715 09 25	1
235 mm	0-47 mm	0715 09 26	1
290 mm	0-62 mm	0715 09 27	1

Chain pipe cutter

Special steel, nickel-plated Secured by grip technology

Minimal force required

Large wing screw

- Easy adjustment during cutting
- Quick adjustment of working range



Chain length (L)	270 mm
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Art. no. 0715 55 10

P. Qty.: 1

- Always guide cutter perpendicular to pipe
- Do not perform axial movements or apply pressure
- Ensure cutting rollers and chain are adequately oiled

Pipe cutter Compact

Easy cutting of aluminium, copper and thin-walled metal pipes.

- Low weight
- Tool-free cutting wheel change
- Steel spindle bearings
- Very small working radius



Min./max. cutting capacity in steel pipe	Art. no.	P. Qty.
3-30 mm	0714 551 127	1
3-16 mm	0714 551 117	1

Steel pipe cutter

Pipe cutter for large pipe diameters

Secure pipe guidance, clean cuts

Broad support rollers

No jamming of cutting wheel when adjusting the cutting depth

Runners on carriage guide

Improved cutting and longer cutting wheel service life

Spring pressure system

Tool-free cutting wheel quick-change system



Min./max. cutting capacity in steel pipe	Art. no.	P. Qty.
10-60 mm	0714 551 460	1
60-114 mm	0714 551 470	1

Cutting wheel

For pipe cutter



Width	Diameter	Outer diameter	Internal diameter	Art. no.	P. Qty.
4.9 mm	11 mm	20 mm	5 mm	0714 551 910	10
4.9 mm	11 mm	20 mm	5 mm	0714 551 940	10
6.2 mm	12 mm	26 mm	4.85 mm	0714 551 960	10
19 mm	16 mm	30.8 mm	9 mm	0714 551 961	1
28.2 mm	20 mm	41 mm	9.7 mm	0714 551 962	1

Stainless steel pipe cutter

Easy cutting of aluminium, copper and thin-walled metal pipes. Specifically designed for V2A/INOX pipes.



- Body made from high-pressure die-cast magnesium, slide and turning knob made from high-pressure die-cast zinc
- Tool-free cutting wheel change
- Steel spindle bearings for smoother movement when cutting
- Four needle-mounted guide rollers for optimum pipe grip during cutting
- Longer-turning knob sits deep in the hand for effective power transmission
- Integrated deburring blade for left- and right-handed users

Min./max. cutting capacity in steel pipe	Art. no.	P. Qty.
3-45 mm	0714 551 515	1
3-35 mm	0714 551 510	1

Plastic pipe cutters

For cutting plastic piping and plastic composite piping.

With ratchet function

Minimal force required

- Magnesium die cast shears
Extremely robust yet light
- Blade retraction at the push of a button
Huge time savings
- Shear blade in coated
Stainless steel
Extremely clean cutting action and long service life
- No tools required to change blades



Min./max. cutting capacity in plastic pipe	Min./max. cutting capacity in inches in plastic pipe	Length (L)	Art. no.	P. Qty.
0-50 mm	0-2-1/2 in	280 mm	0715 55 170	1
0-42 mm	0-1-5/8 in	240 mm	0715 55 160	1
0-26 mm	0-1 in	205 mm	0715 55 150	1

Art. no. 071555 150: Without ratchet function or blade retraction

Interior and exterior deburrer

For deburring aluminium, copper and soft steel tubes

- Hardened, ground cutting edges for fast, chatter-free deburring

Length (L1)	50 mm
Min./max. cutting capacity in steel pipe	3-40 mm
Outer diameter (D)	50 mm
Min. cutting capacity in inches in steel pipe	1/8 in
Max. cutting capacity in inches in steel pipe	1 3/8 in
Max. cutting capacity in steel pipe	40 mm



Art. no. 0714 91 20

P. Qty.: 1

Interior and exterior deburrer

For deburring stainless steel, steel, copper and plastic tubes

- Hardened, ground cutting edges for fast, chatter-free deburring

Length (L1)	85 mm
Min./max. cutting capacity in steel pipe	10-54 mm
Outer diameter (D)	65 mm
Min. cutting capacity in inches in steel pipe	1/8 in
Max. cutting capacity in inches in steel pipe	1 3/4 in
Max. cutting capacity in steel pipe	54 mm



Art. no. 0714 91 21

P. Qty.: 1



Ideal snips

Leverage sheet metal snips for continuous and shaped cuts

- Rounded grip made from 2-component plastic
- Lower handle made from 1-component plastic
- Handle heights prevent the shears from slipping out of your hand
- Long service life
- Unserrated cutting geometry
- Lever transmission

Max. cutting capacity in sheet metal	1.8 mm
Max. cutting capacity in stainless steel	1.2 mm



Design	Length (L)	Cutting edge length	Art. no.	P. Qty.
Left-hand cutting	240 mm		0714 03 03	1/5
Left-hand cutting	260 mm	28 mm	0713 03 110	1/5
Right-hand cutting	240 mm		0714 03 04	1/5
Right-hand cutting	260 mm	28 mm	0713 03 100	1/5

Ideal snips with carbide blades

Leverage sheet metal snips for continuous and shaped cuts

- Rounded grip made from 2-component plastic
- Lower handle made from 1-component plastic
- Handle heights prevent the shears from slipping out of your hand
- Long service life
- Inserted cemented carbide blades
- Unserrated cutting geometry
- Lever transmission



Length (L)	260 mm
Cutting edge length	28 mm
Max. cutting capacity in sheet metal	1.8 mm
Max. cutting capacity in stainless steel	1.2 mm

Design	Art. no.	P. Qty.
Left-hand cutting	0713 03 135	1/5
Right-hand cutting	0713 03 130	1/5

Shape-cutting snips

Leverage sheet metal shears for continuous cuts and tight curves

- Rounded grip made from 2-component plastic
- Lower handle made from 1-component plastic
- Handle heights prevent the shears from slipping out of your hand
- Long service life
- Unserrated cutting geometry
- Lever transmission



Length (L)	260 mm
Cutting edge length	28 mm
Max. cutting capacity in sheet metal	1.8 mm
Max. cutting capacity in stainless steel	1.2 mm

Design	Art. no.	P. Qty.
Left-hand cutting	0713 03 120	1/5
Right-hand cutting	0713 03 115	1/5

Sheet metal snips

Extremely manoeuvrable, powerful and compact

- Double leverage
- Small and lightweight
- Extremely compact shearing head
- Shears can be quickly and easily closed and kept closed
- Ergonomically shaped handle
- Optimised cutting geometry



Design	Right-hand cutting
Length (L)	180 mm
Max. cutting capacity in sheet metal	1.2 mm
Max. cutting capacity in stainless steel	0.8 mm

Art. no. 0713 03 200

P. Qty.: 1/5

Wire-cable cutters

For cutting cables, wire cables and piano wire.

- Clean cut thanks to V-shaped cutting geometry
- Your hands do not slip due to PVC-coated handle
- The fixing device holds the shears in the closed position
- Integrated clamping function for pulling out wire cables



Max. piano wire diameter cutting capacity	2.5 mm
Max. wire diameter cutting capacity in 19 HRC steel	4 mm
Max. hard wire diameter cutting capacity	5 mm
Max. soft wire diameter cutting capacity	7 mm
Max. cable diameter cutting capacity in aluminium/copper	5 mm
Length	190 mm

Art. no. 0714 03 601

P. Qty.: 1

Sheet metal shears

Inductively hardened cutting edges guarantee a long service life and optimum cutting results

- Fully die-forged sheet metal shears (head and handle)
- For sheet thickness up to 1 mm
- Cutting length 34 mm



Length (L)	280 mm
------------	--------

Design	Art. no.	P. Qty.
Left-hand cutting	0714 03 10	1/5
Right-hand cutting	0714 03 09	1/5

Punch snip

Inductively hardened cutting edges guarantee a long service life and optimum cutting results

- Fully die-forged sheet metal shears (head and handle)
- For sheet thickness up to 1 mm
- Cutting length 37 mm



Length (L)	250 mm
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Design	Art. no.	P. Qty.
Left-hand cutting	0714 03 19	1/5
Right-hand cutting	0714 03 18	1/5

Straight-cutting snips

The wide opening angle of the snips' head and the flat-forged jaws allow very tight curves to be cut

- Leverage reduces the amount of force expended
- Fine serrations on blades prevents sheet metal slippage
- PVC-coated handles with slip guard improve working safety
- Self-opening thanks to integrated spring
- Locking mechanism
- Ergonomically designed handle shape



Max. cutting capacity in sheet metal	1.5 mm
Max. cutting capacity in stainless steel	1 mm
Length	210 mm

Design	Art. no.	P. Qty.
Left-hand cutting	0714 03 01	1/5
Right-hand cutting	0714 03 02	1/5

Sheet metal shears

The cutting edge geometry and favourable leverage facilitate the high cutting performance of 1.8 mm on sheet metals and 1.2 mm on V2A as well as excellent smooth-cutting properties



- Leverage reduces the amount of force expended
- Fine serrations on blades prevents sheet metal slippage
- PVC-coated handles with slip guard improve working safety
- Self-opening thanks to integrated spring
- Locking mechanism
- Ergonomically designed handle shape

Max. cutting capacity in sheet metal	1.8 mm
Max. cutting capacity in stainless steel	1.2 mm
Length	260 mm

Design	Art. no.	P. Qty.
Left-hand cutting	0714 03 12	1/5
Right-hand cutting	0714 03 11	1/5

Pelican snips

Induction hardened cutting edges guarantee a long service life and optimum cutting results



- Fully forged sheet-metal shears (head and handle)
- For sheet thickness up to 1 mm
- Cutting length 62 mm

Design	Right-hand cutting
Length (L)	300 mm

Art. no. 0714 03 13

P. Qty.: 1/5

Mitre snips

For straight and 45° cuts

- Hardened steel
- PVC handle

Length	220 mm
Max. mitre angle	45 Degree
Cutting edge length	55 mm



Art. no. 0714 03 50

P. Qty.: 1

Combination shears

Handy shears for cutting soft materials, film, paper, cardboard and plastics

- Stainless steel blades for extended service life
- Plastic handle
- Shears open automatically when cutting, for your comfort (built-in spring between the handles)
- Stop lever
- Cutting length 42 mm



Design	Right- and left-hand cutting
Length	190 mm

Art. no. 0714 03 14

P. Qty.: 1/24

Work scissors

Robust, high-quality, rust-proof scissors for professional applications

- Long and round handle eye facilitates optimal guidance of the scissors
- Handles painted black
- Cutting length 90 mm



Length	250 mm
Design	Polished blades

Art. no. 0714 03 17

P. Qty.: 1/12

Slate cutters

For cutting, punching and notching natural slate, fibre cement and Eternit

Material: Nickel-plated

Easy, clean and splinter-free work

Cutting performance:

- Slate and Eternit: up to 7 mm thick
- Fibre cement and cement boards: up to 8 mm thick
- Asbestos: up to 4 mm thick

Cutting edges angled 45°



Length	320 mm
Length in inches	13 in
Cutting width	2.8 mm
Cutting length	55 mm
Hole punch diameter	3.2 mm

Art. no. 0714 03 51

P. Qty.: 1



06 MACHINES

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Drilling, screwing, chiselling	1916
Direct assembly	1933
Compressed air	1938
Core drilling technology	1958
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Grinding, milling, planing	1995
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Special equipment	2028



Cordless hammer drill ABH 18 COMPACT M-CUBE

Compact, powerful and brushless cordless hammer drill for moderate drilling and light-duty chiselling work, developed by Würth to meet the requirements of craftsmen

- Long motor service life
- Pleasant, effortless work thanks to anti-vibration function
- Continuous monitoring of the motor

Nominal voltage	18 V/DC
Min./max. idle speed	0-1400 rpm
Min./max. impact rate	0-4800 rpm
Impact energy	2.5 J
Tool holding device	Quick-change holder
Weight of machine with rechargeable battery	3.7 kg



Included in delivery (Lieferumfang)	Art. no.	P. Qty.
Batteries not included; with quick-change drill chuck	5701 403 000	1
With x 5 Ah batteries; with quick-change drill chuck	5701 403 004	1

Cordless hammer drill H 28-MA vibration-dampened

Extremely powerful yet compact, with brushless EC motor and vibration dampening. Battery capacity can be selected freely thanks to PICK YOUR POWER.

- Brushless EC motor and electro-pneumatic striking tool
- Lithium-ion technology
- Charge status display on the battery
- Impact stop, chisel function, clockwise/anti-clockwise rotation and throttle switch
- Lightweight, compact and ergonomic design with vibration damping
- LED light



Nominal voltage	28 V/DC
Min./max. idle speed	0-1350 rpm
Min./max. impact rate	0-5000 rpm
Impact energy	4.1 J
Tool holding device	Suitable for SDS-plus
Weight of machine with rechargeable battery	4.7 kg

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
Battery not included; with additional accessories	5700 800 02	1
2 x 3 Ah batteries; with additional accessories	5700 800 4	1

Cordless hammer drill H 28-MAS vibration-dampened

Extremely powerful yet compact, with brushless EC motor and vibration dampening, including Interchangeable drill chuck. Choose the battery power you need with PICK YOUR POWER.

- Brushless EC motor and electro-pneumatic impact mechanism
- Lithium-ion technology
- Charge level indicator on the battery
- Impact stop, chisel function, clockwise/anti-clockwise rotation and throttle switch
- Lightweight, compact and ergonomic design with vibration damping



Nominal voltage	28 V/DC
Min./max. idle speed	0-1350 rpm
Min./max. impact rate	0-5000 rpm
Impact energy	4.1 J
Tool holding device	Suitable for SDS-plus/change drill chuck
Weight of machine with rechargeable battery	4.75 kg

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
Battery not included; with additional accessories	5700 801 02	1
2 x 3 Ah batteries; with additional accessories	5700 801 4	1



Cordless drill driver ABS 18 COMPACT M-CUBE

Compact, powerful and brushless cordless drill screwdriver for moderate screwing and drilling work, developed by Würth to meet the requirements of craftsmen

- Electronic motor protection function
- 13 mm metal chuck with soldered carbide clamping jaws
- LED light on the battery block

Nominal voltage	18 V/DC
Idle speed 1st/2nd gear min./max.	0-600/0-1900 rpm
Max. torque hard/soft	60/34 Nm
Min./max. drill chuck span width	1.5-13 mm
Drill chuck holder	1/2 inch x 20 UNF
Weight of machine with rechargeable battery	1.9 kg



Included in delivery (Lieferumfang)	Art. no.	P. Qty.
Batteries not included in box	5701 800 0	1
With 2 x 5 Ah batteries; with additional accessories	5701 800 3	1

Battery-powered drill screwdriver ABS 12 COMPACT M-CUBE

Extremely compact and powerful cordless drill screwdriver for light-duty drilling and screwing applications, developed by Würth to meet the requirements of craftsmen

- Compact and ergonomic design
- Motor protection function
- Safe clamping of tools



M-CUBE
NEW BATTERY-SYSTEM

Nominal voltage	12 V/DC
Idle speed 1st/2nd gear min./max.	0-400/0-1500 rpm
Max. torque hard/soft	32/19 Nm
Min./max. drill chuck span width	0.8-10 mm
Drill chuck holder	3/8 inch x 24 UNF
Weight of machine with rechargeable battery	1.21 kg

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
With 2 x 2 Ah batteries; additional accessories not included	5701 101 003	1
Batteries not included in box	5701 101 000	1

Battery-powered drill screwdriver ABS 18 BASIC M-CUBE

Compact and powerful 18-volt cordless drill driver for light to medium-duty drilling and screwdriving applications

- Continuous monitoring of the motor
- Safe clamping of tools
- Comfortable and effortless work, well-lit working area



M-CUBE
NEW BATTERY-SYSTEM

Nominal voltage	18 V/DC
Idle speed 1st/2nd gear min./max.	0-500/0-1600 rpm
Max. torque hard/soft	50/25 Nm
Min./max. drill chuck span width	1.5-13 mm
Drill chuck holder	1/2 inch x 20 UNF
Weight of machine with rechargeable battery	1.6 kg

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
Batteries not included; additional accessories not included	5701 408 000	1
With 2 x 2 Ah batteries; additional accessories not included	5701 408 004	1

Battery-powered impact drill driver BS 28-A COMBI

Extremely powerful, high-performance, compact 28 V cordless impact drill driver with lithium-ion technology. Choose the battery power you need with PICK YOUR POWER.



- Additional impact mode
- Improved, more powerful motor
- Li-ion technology
- Charge status display on the battery
- Overload protection
- High-quality 2-speed planetary gear unit with aluminium housing
- Quick-action drill chuck with spindle lock and carbide inserts
- LED lighting

Nominal voltage	28 V/DC
Max. torque hard/soft	90/55 Nm
Max. impact rate	28800 rpm
Min./max. drill chuck span width	1.5-13 mm
Weight of machine with rechargeable battery	3.1 kg

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
Batteries not included; with additional accessories	0700 647 02	1
2 x 3 Ah batteries; with additional accessories	0700 647 3	1

Cordless drywall screwdriver ATS 18 AUTOMATIC M-CUBE

Light and compact cordless drywall screwdriver with automatic function, developed by Würth to meet the needs of craftsmen



- Fast and comfortable bit change
- Continuous monitoring of the motor
- Simple adjustment of the screw-in depth

Nominal voltage	18 V/DC
Min./max. idle speed	0-5000 rpm
Max. torque	5 Nm
Max. screw diameter	5 mm
Tool holding device	1/4-inch quick-action chuck
Weight of machine with rechargeable battery	1.35 kg

M-CUBE
NEW BATTERY-SYSTEM

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
Batteries not included; additional accessories not included	5701 409 000	1
With two 2 Ah batteries; incl. attachment	5701 409 004	1

✓ **WÜRTH M-CUBE battery system**

✗ **CV battery system**

Cordless screwdriver S 3-A

Handy and compact cordless unit with two speeds for screwing and drilling.

- Suitable for use in tight, hard-to-reach spaces
- 2-speed gear with 15 torque levels and one drilling level
- Inhibitor prevents accidental activation of screwdriver
- Immediate bit mount



Nominal voltage	3.6 V/DC
Idle speed 1st/2nd gear min./max.	0-220/0-450 rpm
Max. torque hard/soft	4/2.7 Nm
Tool holding device	1/4-inch hexagon socket
Weight of machine with rechargeable battery	0.5 kg
Included in delivery (Lieferumfang)	2 x 3.6 V batteries, 1 x AL60-S3 charger

Art. no. 0700 102 2

P. Qty.: 1

Included in delivery: 1 x Charger AL 60-S3; 2 x Battery LI, 3.6 V/2.0 Ah

Cordless impact screwdriver ASS 18-1/4 inch COMPACT M-CUBE

Light and compact cordless impact screwdriver with 1/4 inch bit mount (E 6.3), developed by Würth to meet the needs of tradespeople

- Triple LED on the gear head
- 3 + 3 adjustment options
- Powerful and compact impact screwdriver



M-CUBE
NEW BATTERY-SYSTEM

Type description	ASS 18-1/4 inch COMPACT
Min./max. idle speed	0-3000 rpm
Min./max. impact rate	0-4000 rpm
Max. torque for hard screwing application	295 Nm
Suitable for screw	M5 - M16
Tool holding device	1/4-inch hexagon socket
Weight of machine with rechargeable battery	1.7 kg

		Art. no.	P. Qty.
		5701 415 000	1
		5701 415 004	1



Drill and Chisel Hammer BMH 32-XE

Durable hammer drill and chisel hammer in the top SDS-plus performance class for drilling diameters up to 32 mm in concrete

- Anti-vibration system
- Short drilling times with high impact power
- Chisel function with 4.2 joule individual impact strength
- 24 lockable chisel settings

Nominal voltage	230 V/AC
Power input	900 W
Min./max. idle speed	0-760 rpm
Min./max. impact rate	0-3600 rpm
Impact energy	4.2 J
Tool holding device	Suitable for SDS-plus
Min./max. drilling diameter in concrete	6-32 mm
Weight of machine	4.7 kg
Cable length	4 m

Art. no. 0702 543 2

P. Qty.: 1

Hammer drill/chipping hammer BMH 45-XE

Powerful and anti-vibration 8-kg hammer drill/chipping hammer with SDS-max drive arbour.

- Automatically locking switch in chisel mode
- Electronic adjusting wheel for drilling and impact power
- Indication of malfunctions by service LED
- Anti-vibration system
- Short drilling times with high impact power
- 12 lockable chisel settings



Nominal voltage	230 V/AC
Power input	1500 W
Min./max. idle speed	0-305 rpm
Min./max. impact rate	1380-2760 rpm
Impact energy	12.5 J
Tool holding device	Suitable for SDS-max
Min./max. drilling diameter in concrete	12-45 mm
Weight of machine	8.9 kg
Cable length	4 m

Art. no. 0702 557 1

P. Qty.: 1

Hammer drill H 28-MLS POWER

Extremely powerful hammer drill with active vibration damping and quick-release chuck. Ideal for series drilling

- Very fast drilling progress thanks to high impact energy
- Effortless work due to low vibrations
- The chiselling function means that the machine can also be used for corrective work



Nominal voltage	230 V/AC
Frequency	50 Hz
Power input	850 W
Min./max. idle speed	0-1300 rpm
Min./max. impact rate	0-4000 rpm
Impact energy	3.2 J
Tool holding device	Suitable for SDS-plus
Min./max. drilling diameter in concrete	4-28 mm
Min./max. recommended drilling range for optimum performance (in concrete)	6-18 mm
Max. drilling diameter of hollow drill bit in masonry	68 mm
Weight of machine	3.1 kg
Cable length	4 m
Protection class	Protection class II/protective insulation

Art. no. 5708 204 2

P. Qty.: 1

Hammer drill H 22-SLE

Lightweight and handy hammer drill including three hammer drill bits with diameters of 6, 8, 10 mm

- Ergonomic shape and lightweight for continuous use



Nominal voltage	230 V/AC
Frequency	50 Hz
Power input	700 W
Min./max. idle speed	0-1250 rpm
Min./max. impact rate	0-4500 rpm
Impact energy	2.2 J
Tool holding device	Suitable for SDS-plus
Min./max. drilling diameter in concrete	4-22 mm
Min./max. recommended drilling range for optimum performance (in concrete)	6-14 mm
Max. drilling diameter of hollow drill bit in masonry	68 mm
Weight of machine	2.4 kg
Cable length	4 m
Protection class	Protection class II/protective insulation

Art. no. 5708 200 1

P. Qty.: 1

Hammer drill H 26-MLS

Light and powerful hammer drill, equipped with exchangeable drill chuck and chisel function

- Drilling, hammer drilling and chiselling with adjustable chisel position (3-mode function)
- Lockable switch increases comfort for longer drilling/chiselling work.
- Ball grommet and rotating brush plate



Nominal voltage	230 V/AC
Frequency	50 Hz
Power input	830 W
Min./max. idle speed	0-1300 rpm
Min./max. impact rate	0-4000 rpm
Impact energy	2.7 J
Tool holding device	Suitable for SDS-plus
Min./max. drilling diameter in concrete	4-26 mm
Min./max. recommended drilling range for optimum performance (in concrete)	6-16 mm

Min./max. drilling diameter in steel	4-13 mm
Max. drilling diameter of hollow drill bit in masonry	68 mm
Weight of machine	2.9 kg
Cable length	4 m
Protection class	Protection class II/protective insulation

Art. no. 5708 205 1

P. Qty.: 1

Chipping hammer MH 16-XE

For the toughest applications, e.g. breakthrough and demolition work. In a practical rolling case for easy transport.

- Active vibration damping
- Power for 13-ton daily removal capacity
- Large hammer mechanism
- Robust housing

Nominal voltage	230 V/AC
Power input	1750 W
Min./max. impact rate	0-1300 rpm
Impact energy	41 J
Tool holding device	Hexagon socket 30 mm
Weight of machine	16.5 kg
Cable length	4 m

Art. no. 0702 575 1

P. Qty.: 1

Chisel not included in scope of delivery



Chipping hammer MH 10-SE

The most impact-resistant 10 kg chisel hammer (16.8 joules) with a long service life for heavy-duty demolition and breakthrough work. Supplied in a rugged carrying case with an additional handle, maintenance spray and flat chisel. With SDS-max drive arbour.



- Specially hardened tool chuck, optimised dust seal and high-performance motor with high power reserve
- High removal rate of approx. 490 kg concrete in 60 min.
- Vibration-damped ergonomic handle
- Control electronics
- Constant electronics
- Automatic cut-off carbon brushes
- 12 lockable chisel settings
- Full insulation
- Easy starting of the tool thanks to automatic chuck
- Large on-off slide switch

Nominal voltage	230 V/AC
Power input	1500 W
Min./max. impact rate	900-1890 rpm
Impact energy	16.8 J
Tool holding device	Suitable for SDS-max
Weight of machine	10.1 kg
Cable length	4 m

Art. no. 0702 571 1

P. Qty.: 1

Chipping hammer MH 5-XES

With active damping system for reducing vibrations during operation. With SDS-max mounting shank



- Large, flexible and adjustable additional handle
- Anti-vibration system
- Chisel function with 8-joule impact power
- 18-position chisel adjustment

Nominal voltage	230 V/AC
Power input	1300 W
Min./max. impact rate	1430-2840 rpm
Impact energy	8 J
Tool holding device	Suitable for SDS-max
Weight of machine	6.2 kg
Cable length	4 m

Art. no. 0702 563 1

P. Qty.: 1

Chipping hammer MH 3-XE

Lightweight chisel hammer, designed especially for renovation work in bathrooms and on façades. With SDS-plus drive arbour.



- Perfectly balanced
- Chisel function with 2.6-joule impact power
- Weighs only 3.6 kg
- Automatic cut-off carbon brushes
- Flat chisels can be rotated in 30° increments
- Rapid tool change with specially hardened SDS-plus mount
- Oil lubrication guarantees optimum lubrication at all times
- Continuously adjustable impact rate
- Continuous operation with lock button
- Service cover for rapid carbon changes

Nominal voltage	230 V/AC
Power input	650 W
Min./max. impact rate	0-3500 rpm
Impact energy	2.6 J
Tool holding device	Suitable for SDS-plus
Weight of machine	3.6 kg
Cable length	4 m

Art. no. 0702 238 2

P. Qty.: 1

Chipping hammer MH 11-XE

Powerful and anti-vibration 11-kg chipping hammer with SDS-max drive arbor.



- Electronic adjusting wheel
- 12 lockable chisel settings
- Quiet-running and powerful with anti-vibration system
- Indication of malfunctions by service LED

Nominal voltage	230 V/AC
Power input	1700 W
Min./max. impact rate	900-1700 rpm
Impact energy	23 J
Tool holding device	Suitable for SDS-max
Weight of machine	11.4 kg
Cable length	4 m

Art. no. 0702 572 1

P. Qty.: 1

Drill BM 13-XE

Practical 13 mm drill with ergonomic handle and special plug-in cable system

- Automatic spindle lock
- Single-sleeve quick-action drill chuck with clamping force locking and carbide jaws
- Defective cables can be replaced or longer cables attached within a matter of seconds with a special connection system
- Solid metal planetary gear unit
- Continuous speed control
- 2-speed switch with lock on the outside of the housing
- Right/left switch on top of housing
- Service cover for easy carbon brush changes
- Robust additional handle with depth stop
- Fibreglass-reinforced polyamide housing



Nominal voltage	230 V/AC
Power input	600 W
Idle speed 1st/2nd gear min./max.	0-900/0-2500 rpm
Min./max. drill chuck span width	1-13 mm
Max. drilling diameter in steel	13 mm
Drill chuck holder	1/2 inch x 20 UNF
Weight of machine	2.2 kg
Cable length	4 m

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
No accessories in box	0702 321 0	1
With accessories in system case 8.4.2	0702 321 2	1

Drill BM 10-E COMPACT

Compact, powerful drill for fast, powerful drilling in wood, aluminium, metal and stainless steel

- Excellent weight/power ratio for effortless work
- Belt clip for simple handling
- Robust metal quick-action drill chuck
- Electronic speed control
- Right/left rotation



Nominal voltage	230 V/AC
Power input	600 W
Min./max. idle speed	0-2600 rpm
Max. torque	20 Nm
Min./max. drill chuck span width	1-10 mm
Max. drilling diameter in steel	10 mm
Drill chuck holder	1/2 inch x 20 UNF
Weight of machine	1.7 kg
Cable length	4 m

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
Individually boxed	0702 327 0	1
In system case 8.4.2	0702 327 2	1

Drill driver BS 13-SEC POWER

Compact, powerful drill driver for working at very high torques, e.g. holes with large diameters, series screw connection and agitation work.

- 3-stage gear reduction
- Soft start
- Constant electronics
- Electronic torque adjustment
- Right/left rotation
- Cable change system



Nominal voltage	230 V/AC
Power input	1200 W
Min./max. idle speed	70-530 rpm
Max. torque hard/soft	110/65 Nm
Min./max. drill chuck span width	1.5-13 mm
Max. drilling diameter in steel	16 mm
Weight of machine	2.7 kg
Cable length	4 m

Art. no. 0702 315 2

P. Qty.: 1

Percussion drill SB 13-XE

Strong, universal 13 mm impact drill with ergonomic handle and simple switching from normal to impact mode

- Single-sleeve quick-action drill chuck with clamping force locking and carbide jaws
- Defective cables can be replaced or longer cables attached within a matter of seconds with a special connection system
- Solid metal planetary gear unit
- Continuous speed control
- 2-speed switch with lock on the outside of the housing
- Right/left switch on top of housing
- Service cover for easy carbon brush changes
- Robust additional handle with depth stop
- Clamping collar corresponds to European standard



Nominal voltage	230 V/AC
Power input	750 W
Idle speed 1st/2nd gear min./max.	0-1200/0-3400 rpm
Impact rate	31500 rpm
Max. drilling diameter in steel	13 mm

Continuation **Percussion drill SB 13-XE**

Drill chuck holder	1/2 inch x 20 UNF
Min./max. drill chuck span width	1-13 mm
Weight of machine	2.2 kg
Cable length	4 m

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
No accessories in box	0702 322 0	1
With accessories in system case 8.4.2	0702 322 2	1

Angle drill WB 10-RLE

Angle drill with extremely slender rod motor for use in inaccessible areas.

- Narrow corner dimension of the angle drill
- Speed selection adjusting wheel
- Right/left rotation
- Large handle switch



Nominal voltage	230 V/AC
Power input	400 W
Min./max. idle speed	0-1100 rpm
Max. drilling diameter in steel	10 mm
Width across corners	23 mm
Min./max. drill chuck span width	1-10 mm
Weight of machine	1.6 kg
Cable length	4 m

Art. no. 0702 411

P. Qty.: 1

Tile drill NDS 68

Problem-solver for precise drilling through natural stone slabs and ceramic, porcelain or marble tiles with diamond wet drilling technology.

- Infinitely variable speed control
- Minimal bit wear and fast drilling progress
- Slimline and practical housing with additional handle
- Built-in safety during wet drilling due to PRCD safety switch, no additional leakage current box required



Nominal voltage	230 V/AC
Power input	750 W
Min./max. idle speed	3000-10000 rpm
Min./max. drill diameter	4-68 mm
Weight of machine	2.6 kg
Cable length	4 m

Art. no. 0702 419 1

P. Qty.: 1

Dry construction screwdriver S 50 TB

Extremely light and handy dry construction driver

- Specially designed for dry wall screws up to 5 mm in diameter
- Quick-change cable
- Lightweight and handy
- Adjustable depth stop



Nominal voltage	230 V/AC
Power input	500 W
Min./max. idle speed	0-4650 rpm
Max. torque	0.67 Nm
Screw diameter	5 mm
Tool holding device	1/4-inch hexagon socket
Weight of machine	1.5 kg
Cable length	4 m

Art. no. 0702 050 0

P. Qty.: 1

Magazine screwdriver ASSY[®]mat 50 with HS 16

Powerful 750-watt screwdriver with attachment for belted screws 3.5 x 25 – 4.2 x 50 mm, HOLZ HER system.

- Time saving with belt with 166 or 125 screws, depending on dimensions
- With extension, also suitable for floor screws



Nominal voltage	230 V/AC
Power input	750 W
Min./max. idle speed	0-2850 rpm
Weight of machine	1.6 kg
Cable length	4 m

Art. no. 0702 160 1

P. Qty.: 1

Observe the drive unit max. screw diameter.

Magazine screwdriver ASSY®mat 80 with HS 16

Powerful 750-watt screwdriver with attachment for belted screws 4.5 x 40 – 5.0 x 80 mm, HOLZ HER system.



- Time saving with belt with 166 or 125 screws, depending on dimensions
- With extension, also suitable for floor screws

Nominal voltage	230 V/AC
Power input	750 W
Min./max. idle speed	0-2850 rpm
Weight of machine	1.6 kg
Cable length	4 m

Art. no. 0702 160 2

P. Qty.: 1

Observe the drive unit max. screw diameter.

Screw connection unit VSG80

With pneumatic feed. For ergonomic application of winged drilling screws.

- Effortless work with upright posture
- The drilling screw is always screwed into the base at the correct angle
- Stepless adjustment of the screw-in depth
- Stepless adjustment of the pressing force (pneumatic feed)
- Stepless adjustment of the processing speed
- Markings and a large cut-out in the footplate for visualising the setpoint



Nominal voltage	230 V/AC
Power input	1700 W
Idle speed 1st gear min./max.	290-770 rpm
Idle speed 2nd gear min./max.	640-1650 rpm
Max. working pressure	8 bar
Tool holding device	1/4-inch hexagon socket
Product weight (per item)	22000 g
Cable length	10 m

Art. no. 0702 080 0

P. Qty.: 1

The device may only be used as a complete unit, consisting of the drive machine and stand.



High-performance gas-powered nail gun DIGA® CS-2 POWER

High-performance gas device for concrete, steel and full brickwork fixtures

- Independent of stationary or mobile compressed air systems
- Magazine can be replaced without requiring tools
- Light, compact design with short contact arm and very low recoil

Fastening energy	105 J
Nominal voltage	6 V/DC
Rechargeable battery/battery capacity	1.5 Ah
Number of nail insertions per battery charge	3000 PCS
Magazine capacity	40 PCS
Suitable for min./max. nail length	15-40 mm
Suitable for min./max. nail diameter	2.6 - 3.7 mm
Weight of machine with rechargeable battery	3.7 kg

Art. no. 0864 90 2

P. Qty.: 1

High-performance gas device DIGA® WO-1/21

High-performance gas device for wood fixtures with 21° magazine

- Independent of stationary or mobile compressed air systems
- Compact design with very low recoil



Nominal voltage	6 V/DC
Rechargeable battery/battery capacity	1.5 Ah
Number of nail insertions per battery charge	3000 PCS
Magazine capacity	30 PCS
Suitable for min./max. nail diameter	2.8 - 3.1 mm
Suitable for min./max. nail length	65-90 mm
Weight of machine with rechargeable battery	3.5 kg

Art. no. 0864 92

P. Qty.: 1

Charging time (discharged battery) approx. 150 minutes; minimum 24 hours for initial charge and after long periods without use.

High-performance gas device DIGA® WO-1/21 Combi

High-performance gas device for wood fixtures with 21° magazine for affixing round-headed strip nails and adhesive nails.

- 30 round-headed strip nails or 32 adhesive nails in 21° magazine
- Independent of stationary or mobile compressed air systems
- Light, compact design with short contact arm and very low recoil



Nominal voltage	6 V/DC
Rechargeable battery/battery capacity	1.5 Ah
Number of nail insertions per battery charge	3000 PCS
Magazine capacity	30 PCS
Suitable for min./max. nail diameter	2.8 - 3.1 mm
Suitable for min./max. nail length	25-90 mm
Weight of machine with rechargeable battery	3.5 kg

Art. no. 0864 92 1

P. Qty.: 1

Charging time (discharged battery) approx. 150 minutes; minimum 24 hours for initial charge and after long periods without use.

High-performance gas-powered nail gun DIGA® WO-1/34

High-performance gas device for wood connections with 34° magazine

- Independent of stationary and mobile compressed-air systems
- Light, compact design with short contact arm and very low recoil



Nominal voltage	6 V/DC
Rechargeable battery/battery capacity	1.5 Ah
Number of nail insertions per battery charge	3000 PCS
Magazine capacity	40 PCS
Suitable for min./max. nail diameter	2.8 - 3.1 mm
Suitable for min./max. nail length	50-90 mm
Weight of machine	3.5 kg

Art. no. 0864 93

P. Qty.: 1

Charging time (discharged battery) approx. 150 minutes; minimum 24 hours for initial charge and after long periods without use

High-performance gas device DIGA® CSM-1

High-performance gas device for concrete, steel and solid brick/masonry fixtures.

- Independent of stationary or mobile compressed air systems
- Compact design with very low recoil



Fastening energy	150 J
Nominal voltage	6 V/DC
Rechargeable battery/battery capacity	1.5 Ah
Number of nail insertions per battery charge	3000 PCS
Magazine capacity	40 PCS
Suitable for min./max. nail diameter	2.6 - 3.7 mm
Suitable for min./max. nail length	20-65 mm
Weight of machine with rechargeable battery	4.4 kg

Art. no. 0864 94

P. Qty.: 1

Charging time (discharged battery) approx. 150 minutes; minimum 24 hours for initial charge and after long periods without use.

Nails in magazine and gas cartridge NG CS-2 HFBX

Suitable for DIGA CS-2 Power

- High-quality special nail with rolled ballistic tip for fastenings in high-strength concrete
- Fewer setting failures than with conventional nails
- One packing unit includes 800 nails and one gas cartridge

Material of the nail	Steel, specially hardened
Surface	Zinc plated
Diameter of nail	3 mm
Head diameter	6.3 mm
Number of nails	800 PCS
Contents	80 ml
Container	Cartridge



Length of nail	Art. no.	P. Qty.
16 mm	0864 951 316	800/4000
19 mm	0864 951 319	800/4000
22 mm	0864 951 322	800/4000
27 mm	0864 951 327	800/4000
32 mm	0864 951 332	800/4000
38 mm	0864 951 338	800/4000

All nails are suitable for secondary attachments (without technical approval). The maximum tensile forces of individual attachments are at the discretion of the user and must be determined with test attachments or tightening tests.

Adhesive nail

A2 stainless steel, collated. Suitable for DIGA WO-HN 28/35

Scope of delivery:

- Round-headed adhesive nails 24°
- 2 gas cartridges 0864900002 (1 cartridge for approx. 1000 nails)



Diameter of nail (Øds)	2.8 mm
Head diameter (Ø dk)	7 mm
Material of the nail	Stainless steel A2
Surface	Plain
Design	In magazine

Length of nail (Ls)	Art. no.	P. Qty.
25 mm	0864 932 825	2000/6000
32 mm	0864 932 832	2000/6000

Nails in accordance with DIN EN 14952 and A1 (Eurocode 5)

Adhesive nail

**Hot-dip galvanised, collated. Suitable for DIGA
WO-HN 28/35**

Scope of delivery:

- Round-headed adhesive nails 24°
- 2 gas cartridges 0864900002 (1 cartridge for approx. 1000 nails)



Length of nail (Ls)	25 mm
Diameter of nail (Øds)	2.8 mm
Head diameter (Ø dk)	7 mm
Material of the nail	Steel
Surface	Hot dip galvanized
Design	In magazine

Art. no. 0864 902 825

P. Qty.: 2000/6000

Nails in accordance with DIN EN 14592 and A1 (Eurocode 5)

Pin driver BST 350

Semi-automatic pin driver with manual power control

- 6-stage power control
- Extremely easy to use
- Trigger safety catch
- Device in accordance with DIN EN 15895
- Thrust plunger principle
- Complete with carrying case



Fastening energy	200 J
Calibre	6.8/11 M
Bolt guide	8 mm
Recommended max. setting frequency/hour	500 PCS
Thrust load	Low (green), Medium (yellow), Very strong (red)
Weight of machine	2.35 kg

Art. no. 0864 22

P. Qty.: 1



Pneumatic impact screwdriver DSS 1/2 inch Premium Compact

High-quality impact screwdriver in robust, fibreglass-reinforced plastic housing, with above-average performance values and enhanced equipment features.

- Up to max. 1100 Nm Breakaway torque at a weight of just 1.1 kg
- High-quality double hammer impact mechanism and cylinder with unique seven-disc motor
- 4-stage power setting with convenient one-handed conversion
- Particularly ergonomic handle with soft grip components and precise trigger

Tool holding device	1/2-inch external square
Max. working torque	750 Nm
Max. releasing torque	1100 Nm
Sound-pressure level	88.6 dB
Vibration	7.88 m/s ²
Weight of machine	1.1 kg

Art. no. 5714 308 0

P. Qty.: 1

Pneumatic impact screwdriver DSS 3/4 inch Premium P

High-quality impact screwdriver in robust, fibreglass-reinforced plastic housing, with above-average performance and enhanced equipment features.

Recommended maximum bolt size: M32

- Up to max. 1,680 Nm breakaway torque at a weight of 3.18 kg
- High-quality double impact mechanism and cylinder with balanced 6-vane motor
- 4-stage clockwise power setting with convenient one-hand reversing
- Extremely ergonomic soft grip with sensitive trigger



Tool holding device	3/4-inch external square
Max. working torque	1550 Nm
Max. releasing torque	1680 Nm
Sound-pressure level	88.2 dB
Vibration	17.49 m/s ²
Weight of machine	3.18 kg

Art. no. 5714 351 0

P. Qty.: 1

- Impact screwdrivers are not torque screwdrivers. Connections requiring a specific torque must be checked by means of a torque measuring device after tightening with the impact screwdriver.
- When the impact screwdriver is used regularly (e.g. for tyre maintenance), a little oil should be added daily via the air inlet, and approximately 2 strokes of gear grease should be added monthly via the grease nipple.
- Plug-in nipple not included in the scope of delivery

Pneumatic impact screwdriver DSS 1 inch Premium P

High-quality impact screwdriver in robust, fibreglass-reinforced plastic housing, with above-average performance and enhanced equipment features.

Recommended maximum bolt size: M32

- Up to max. 1,680 Nm breakaway torque at a weight of 3.31 kg
- High-quality double impact mechanism and cylinder with balanced 6-vane motor
- 4-stage clockwise power setting with convenient one-hand reversing
- Extremely ergonomic soft grip with sensitive trigger



Tool holding device	1-inch external square
Max. working torque	1550 Nm
Max. releasing torque	1680 Nm
Sound-pressure level	87.8 dB
Vibration	17.46 m/s ²
Weight of machine	3.31 kg

Art. no. 5714 377 0

P. Qty.: 1

- Impact screwdrivers are not torque screwdrivers. Connections requiring a specific torque must be checked by means of a torque measuring device after tightening with the impact screwdriver.

Continuation **Pneumatic impact screwdriver DSS 1 inch Premium P**

- When the impact screwdriver is used regularly (e.g. for tyre maintenance), a little oil should be added daily via the air inlet, and approximately 2 strokes of gear grease should be added monthly via the grease nipple.
- Plug-in nipple not included in the scope of delivery

Pneumatic drill DBM 10 plus

Especially lightweight, handy drill with quick-action drill chuck.

- Plastic handle
- Lightweight and compact design, low-vibration
- Integrated silencer
- High-quality chuck
- Precision planetary gearbox
- Touch-sensitive trigger



Max. drill chuck span width	10 mm
Max. idle speed	2000 rpm
Working pressure	6.3 bar
Air consumption	85 l/min
Min. hose inner diameter	8 mm
Weight of machine	1 kg

Art. no. 0703 795 0

P. Qty.: 1

Plug-in nipple not included

Pneumatic drill DBM 10-RL plus

Especially lightweight, handy drill with quick-action drill chuck. Right/left changeover with 10 mm drill chuck.

- Plastic handle
- Lightweight and compact design, low-vibration
- Integrated silencer
- High-quality chuck
- Precision planetary gearbox
- Touch-sensitive trigger



Max. drill chuck span width	10 mm
Max. idle speed	1700 rpm
Working pressure	6.3 bar
Air consumption	96 l/min
Min. hose inner diameter	9 mm
Weight of machine	1 kg

Art. no. 0703 796 0

P. Qty.: 1

- When used regularly, the machine should be lightly oiled via the pneumatic air supply every day. The use of a mist lubricator is recommended.
- Supplied without plug-in nipple.

Pneumatic drill DBM 13-RL plus

Especially lightweight, handy drills with quick-action drill chuck. Right/left changeover with 13 mm drill chuck.

- Lightweight and compact with plastic handle
- Low vibration
- Integrated silencer
- High-quality chuck
- Precision planetary gearbox
- Good speed control with touch-sensitive trigger



Max. drill chuck span width	13 mm
Max. idle speed	700 rpm
Working pressure	6.3 bar
Air consumption	96 l/min
Min. hose inner diameter	9 mm
Weight of machine	1.5 kg

Art. no. 0703 797 0

P. Qty.: 1

- When used regularly, the machine should be lightly oiled via the pneumatic air supply every day. The use of a mist lubricator is recommended.
- Supplied without plug-in nipple.

Vario drill VD 90

For fast, convenient removal of spot welds

- The contact bail, rotatable through 360°, prevents slippage
- The contact bail can be mounted quickly without additional tools
- Infinitely variable milling depth with depth stop

Max. idle speed	900 rpm
Min./max. pressure	6-8 bar
Air consumption	250 l/min
Weight of machine	1800 g



Art. no. 0703 090

P. Qty.: 1

- Use only genuine HSCO spot weld cutters.
- Plug-in nipple not included in the scope of delivery

Pneumatic chipping hammer DMH 10

Extremely robust, powerful chipping hammer with optimal weight distribution and vibration damping. Ideal for all bodywork, including extraction of body panels, rough removal of coatings or removal of rust from metal parts.



- Robust and partially rubberised housing
- Slip-proof, ergonomically shaped handle
- Impact power can be controlled continuously and precisely
- Handy plastic case and an extensive range of accessories included
- Can also be used as a nail deruster in conjunction with the optional screw-on attachment

Tool holding device	10.2 mm hexagon socket
Working pressure	6.3 bar
Air consumption	76.4 l/min
Max. impact rate	2900 rpm
Weight of machine	1.73 kg

Art. no. 0703 712 1

P. Qty.: 1

- Chisel hammer is not suitable for working with concrete.
- When used regularly, the machine should be lightly oiled via the compressed air supply every day. The use of a mist oiler is recommended.
- Plug-in nipple not included in the scope of delivery

Pneumatic stapler/nail gun DKN 3065 Combi

Powerful combi unit for connecting various fastening elements: Type WN staples, type W155 staples and T nails.



- Dual-function switch
- Tool-free depth setting
- Adjustable air delivery

Suitable for min./max. staple length	32-67 mm
Suitable for min./max. staple back width	10.7-11.7 mm
Magazine capacity	150 PCS
Air consumption per impact	1.609 l
Weight of machine	3.1 kg

Art. no. 0703 556 0

P. Qty.: 1

Pneumatic stapler DKG 416

Very lightweight, powerful device for processing staples with a width of 12.8 mm and a length of 4–16 mm

- Integral sound-proofing
- Trigger with safety lock
- Air filter built into handle
- Magnesium housing with rubberised handle



Suitable for min./max. staple length	4-16 mm
Width of staple back	12.8 mm
Magazine capacity	157 PCS
Air consumption per impact	0.3 l
Weight of machine	0.7 kg

Art. no. 0703 548 0

P. Qty.: 1

Plug-in nipple not included in the scope of delivery.

Pneumatic stapler DKG 1040

Handy, powerful device for processing staples with a width of 5.7 mm and a length of 10–40 mm

- Powerful, oil-free drive
- Dual-function switch for changing from single triggering to contact triggering, and rubber nose piece for delicate surfaces
- Tool-free depth setting
- Tool-free access for easy troubleshooting
- Adjustable air delivery and belt hook



Suitable for min./max. staple length	10-40 mm
Width of staple back	5.7 mm
Magazine capacity	100 PCS
Air consumption per impact	1.13 l
Weight of machine	1.18 kg

Art. no. 0703 555 0

P. Qty.: 1

Plug-in nipple not included in the scope of delivery.

Pneumatic coil nailer DCN 4590

Powerful nailer for use with coil nails in diameters 2.5–3.8 mm, length 45–90 mm

- Integrated sound-proofing
- Safety lock with contact unit
- Tool-free depth adjustment
- Dual-function switch
- Plastic protection for safety catch
- Height-adjustable magazine
- Adjustable air delivery



Suitable for min./max. nail length	45-90 mm
Suitable for min./max. nail diameter	2.5 - 3.8 mm
Min./max. magazine capacity	200-300 PCS
Air consumption per impact	2.97 l
Weight of machine	3.5 kg

Art. no. 0703 558 0

P. Qty.: 1

Pneumatic nailer DSK 1555

Especially lightweight and handy nailer for nails with a diameter of 1.2 mm and a length of 15–54 mm

- Powerful, oil-free drive with empty magazine detection
- Tool-free access for easy troubleshooting
- Protects delicate work surfaces with tool-free depth adjustment and rubber nose piece
- Adjustable air delivery and belt hook on device
- Dual-function switch for changing from single triggering to contact triggering



Suitable for min./max. nail length	15-54 mm
Suitable for nail diameter	1.2 mm
Magazine capacity	105 PCS
Air consumption per impact	1.13 l
Weight of machine	1.09 kg

Art. no. 0703 547 0

P. Qty.: 1

Pneumatic nailer DSN 5090 22°

Powerful pneumatic nailer for processing round-head strip nails at a 21–22° angle, with a diameter of 2.9–4.1 mm and a length of 50–90 mm

- Protects delicate work surfaces with tool-free depth adjustment and rubber nose piece
- Dual-function switch for changing from single triggering to contact triggering
- Adjustable reloading magazine for various nail sizes
- Long service life with empty magazine detection and air filter built into the handle
- Specially designed trigger for safe work
- Lightweight magnesium housing with adjustable air delivery and belt hook



Suitable for min./max. nail length	50-90 mm
Suitable for min./max. nail diameter	2.9 - 4.1 mm
Min./max. magazine capacity	60-70 PCS
Air consumption per impact	3.69 l
Weight of machine	3.81 kg

Art. no. 0703 542 0

P. Qty.: 1

Pneumatic nailer DSN 5090 34°

Powerful, light pneumatic nailer for processing half-head strip nails with a 30–34° angle

- Protects delicate work surfaces with tool-free depth adjustment and rubber nose piece
- Dual-function switch for changing from single triggering to contact triggering
- Adjustable reloading magazine for various nail sizes
- Long service life with empty magazine detection and air filter built into the handle
- Specially designed trigger for safe work
- Lightweight magnesium housing with adjustable air delivery and belt hook



Suitable for min./max. nail length	50-90 mm
Suitable for min./max. nail diameter	2.9 - 3.3 mm
Min./max. magazine capacity	88-98 PCS
Air consumption per impact	3.69 l
Weight of machine	3.76 kg

Art. no. 0703 543 0

P. Qty.: 1

Pneumatic nailer DSN 160

Powerful pneumatic nailer for processing round-head strip nails with a 21-22° angle

- Long service life with empty magazine detection
- Protects delicate work surfaces with depth adjustment
- Magnesium housing including single triggering with safety catch



Suitable for min./max. nail length	100-160 mm
Suitable for min./max. nail diameter	3.8 - 4.6 mm
Magazine capacity	55 PCS
Air consumption per impact	4.96 l
Weight of machine	6.87 kg

Art. no. 0703 560 0

P. Qty.: 1

Matching nails: long 21° round-headed nails

Pneumatic rivet nut unit PEG 312

The smallest, most lightweight pneumatic rivet nut unit for fast and easy processing of rivet nuts made of aluminium, steel and stainless steel in diameter dimensions M3-M12

- Tool-free quick-change system for threaded mandrels
- with clear stroke scale
- Modern, lightweight design
- Automatic drill-in and drill-out system for rivet nuts
- Hanging hook for stationary work
- Deactivation option for 360° air supply
- Additional drill-off button at the back of the casing



Working pressure	7 bar
Stroke length	7 mm
Length	260 mm
Width	85 mm
Height	280 mm

Art. no. 0703 937 55

P. Qty.: 1

- Threaded mandrels and mouthpieces not included in delivery
- For processing stainless steel rivet nuts up to M10

Pneumatic blind riveter PNG 102

Handy, compact compressed air unit with adjustable riveting mandrel suction with a lockable slide switch for processing blind rivets.

- Patented gripping jaw system for long service life of the clamping jaws and for non-slip pulling grip of rivet pins
- Minimal pneumatic air consumption owing to double use of pneumatic air for setting the rivets and extracting the remaining mandrel
- Prevents overload via overload valve
- Low-vibration and sound-proof
- Rubberised handle
- Mandrel collecting container with integrated safety device
- Rotatable air deflector

Working pressure	6.3 bar
Min./max. working pressure	5-7 bar
Stroke length	18 mm
Length	278 mm
Height	291 mm
Min./max. rivet diameter	2.4-5 mm
Max. mandrel diameter	3.2 mm

Art. no. 0703 937 22

P. Qty.: 1



Pneumatic blind riveter PNG 122

Handy, compact compressed air unit with adjustable riveting mandrel suction with a lockable slide switch for processing blind rivets.

- Patented gripping jaw system for long service life of the clamping jaws and for non-slip pulling grip of rivet pins
- Minimal pneumatic air consumption owing to double use of pneumatic air for setting the rivets and extracting the remaining mandrel
- Prevents overload via overload valve
- Low-vibration and sound-proof
- Rubberised handle
- Mandrel collecting container with integrated safety device
- Rotatable air deflector

Min./max. working pressure	5-7 bar
Stroke length	25 mm
Length	291 mm
Height	317 mm
Min./max. rivet diameter	2.4-6.4 mm
Max. mandrel diameter	4.5 mm

Art. no. 0703 937 33

P. Qty.: 1



Pneumatic jigsaw DST 380

Robust bodywork saw for long service life and tough applications.



- Safety valve lever
- Rubberised handle
- Saw blade rotates 180°
- Integrated power control to suit respective application
- Adjustable guide

Idle stroke speed	9500 rpm
Air consumption	170 l/min
Working pressure	6.3 bar
Min. hose inner diameter	9 mm
Length	215 mm

Art. no. 0703 881

P. Qty.: 1

- When used regularly, the machine should be lightly oiled via the compressed air supply every day. The use of a mist oiler is recommended.
- Plug-in nipple not included in the scope of delivery

Pneumatic jigsaw DST mini

Highly compact, powerful pneumatic body jigsaw for long operating times and the toughest applications



- Small and compact
- Handy
- Rotating air inlet with air flow regulator
- Adjustable guide

Idle stroke speed	10500 rpm
Air consumption	280 l/min
Working pressure	6.3 bar
Min. hose inner diameter	8 mm
Length	148 mm
Stroke length	5 mm

Art. no. 0703 885 0

P. Qty.: 1

- When used regularly, the machine should be lightly oiled via the compressed air supply every day. The use of a mist oiler is recommended.
- Plug-in nipple not included in the scope of delivery

Pneumatic impact screwdriver DSS 1 inch P

Extremely rugged, powerful impact screwdriver with fast build-up of torque. Ideal for tough applications, such as service work on trucks and buses, construction and agricultural machinery, and for industrial service and repair work.

- Well-balanced unit in robust aluminium housing
- Rubberised and ergonomically designed handle
- 360° pivoting support handle
- Right/left switchover
- Adjustable trigger
- High-quality, high-power pin impact mechanism in oil bath with 6-disc motor



Tool holding device	1-inch external square
Max. working torque	1694 Nm
Max. releasing torque	2440 Nm
Sound-pressure level	93 dB
Vibration	5.69 m/s ²
Weight of machine	9.97 kg

Art. no. 0703 775 0

P. Qty.: 1

- Impact screwdrivers are not torque screwdrivers. Connections requiring a specific torque must be checked by means of a torque measuring device after tightening with the impact screwdriver.
- The operating torque is the torque usually achieved under average working conditions. It is dependent on the highly varying ambient conditions (air pressure, hose diameter, soiling etc.).
- When used regularly, the machine should be lightly oiled via the pneumatic air supply every day. The use of a mist lubricator is recommended.
- Plug-in nipple not included in the scope of delivery

Pneumatic impact screwdriver DSS 3/4 inch H

Reliable, powerful impact screwdriver with fast build-up of torque

- Well-balanced unit in robust aluminium housing
- Rubberised and ergonomically designed handle
- Right/left switchover
- Adjustable trigger
- High-quality, high-power pin impact mechanism in oil bath with 6-disc motor



Tool holding device	3/4-inch external square
Max. working torque	1440 Nm
Max. releasing torque	1500 Nm
Sound-pressure level	96 dB
Weight of machine	4.73 kg

Art. no. 0703 773 0

P. Qty.: 1

Continuation **Pneumatic impact screwdriver DSS 3/4 inch H**

- Impact screwdrivers are not torque screwdrivers. Connections requiring a specific torque must be checked by means of a torque measuring device after tightening with the impact screwdriver.
- The operating torque is the torque usually achieved under average working conditions. It is dependent on the highly varying ambient conditions (air pressure, hose diameter, soiling).
- When used regularly, the machine should be lightly oiled via the pneumatic air supply every day. The use of a mist lubricator is recommended.
- Plug-in nipple not included in the scope of delivery

Pneumatic impact screwdriver DSS 1/2" premium mini

Powerful and fast compact impact screwdriver. The low weight and the size make the impact screwdriver extremely handy and permit use even in tight places.

- High-strength fibre glass reinforced plastic and steel hammer housing
- Can be used single-handed
- Ergonomically shaped handle
- User-friendly right/left changeover
- Optimally adjustable switch
- High-quality double impact mechanism, unique 7-disc motor and integrated silencer with no compromise on performance



Tool holding device	1/2-inch external square
Max. working torque	375 Nm
Max. releasing torque	450 Nm
Sound-pressure level	93.2 dB
Vibration	7.5 m/s ²
Weight of machine	1.14 kg

Art. no. 0703 312 0

P. Qty.: 1

- Impact screwdrivers are not torque screwdrivers. Connections requiring a specific torque must be checked by means of a torque measuring device after tightening with the impact screwdriver.
- If the impact screwdriver is used regularly, a little oil should be added daily through the pneumatic air and approximately 2 strokes of gear grease should be added monthly via the grease nipple
- Plug-in nipple not included

Pneumatic impact screwdriver DSS 1 inch L

Highly robust, powerful impact screwdriver with long square drive.

- Robust aluminium housing
- Ergonomically shaped handle
- Additional handle rotates 360°
- User-friendly right/left changeover
- Adjustable trigger
- High-quality double hammer impact mechanism



Tool holding device	1-inch external square
Max. working torque	1870 Nm

Max. releasing torque	2440 Nm
Sound-pressure level	95 dB
Vibration	9.26 m/s ²
Weight of machine	10.93 kg

Art. no. 0703 780 0

P. Qty.: 1

- Impact screwdrivers are not torque screwdrivers. Connections requiring a specific torque must be checked by means of a torque measuring device after tightening with the impact screwdriver.
- The operating torque is the torque usually achieved under average working conditions. It is dependent on the highly varying ambient conditions (air pressure, hose diameter, soiling etc.).
- When used regularly, the machine should be lightly oiled via the pneumatic air supply every day. The use of a mist lubricator is recommended
- Plug-in nipple not included in scope of delivery

Pneumatic impact screwdriver DSS 1/2 inch H

Reliable, powerful impact screwdriver with fast build-up of torque

- Rugged, well-balanced unit in aluminium housing
- Rubberised and ergonomically designed handle
- User-friendly right/left changeover
- Adjustable trigger
- High-quality pin impact mechanism in oil bath with 6-disc motor



Tool holding device	1/2-inch external square
Max. working torque	470 Nm
Max. releasing torque	569 Nm
Sound-pressure level	92 dB
Vibration	3.78 m/s ²
Weight of machine	2.3 kg

Art. no. 0703 736 0

P. Qty.: 1

- Recommended maximum bolt size: M15
- Impact screwdrivers are not torque screwdrivers. Connections requiring a specific torque must be checked by means of a torque measuring device after tightening with the impact screwdriver.
- The operating torque is the torque usually achieved under average working conditions. It is dependent on the highly varying ambient conditions (air pressure, hose diameter, soiling etc.).
- When used regularly, the machine should be lightly oiled via the pneumatic air supply every day. The use of a mist lubricator is recommended
- Plug-in nipple not included in scope of delivery

Pneumatic impact screwdriver DSS 1/2" X

Reliable, compact impact screwdriver in a rugged, fibreglass reinforced plastic housing, with strong performance and enhanced equipment features

- Release torque up to max. 816 Nm at a weight of just 1.95 kg
- High-quality double hammer impact mechanism and cylinder with 6-disc motor
- 4-stage power setting with convenient right/left rotation control
- Ergonomic handle with professional trigger



Tool holding device	1/2-inch external square
Max. working torque	600 Nm
Max. releasing torque	816 Nm
Sound-pressure level	90.8 dB
Vibration	4.6 m/s ²
Weight of machine	1.95 kg

Art. no. 0703 313 0

P. Qty.: 1

- Recommended maximum bolt size: M16
- Impact screwdrivers are not torque screwdrivers. Connections requiring a specific torque must be checked by means of a torque measuring device after tightening with the impact screwdriver.
- The operating torque is the torque usually achieved under average working conditions. It depends on the highly varying ambient conditions (air pressure, hose diameter, soiling etc.).
- When the impact screwdriver is used regularly (e.g. for tyre maintenance), a little oil should be added daily, and approximately 2 strokes of gear grease should be added monthly via the grease nipple.
- Plug-in nipple not included in the scope of delivery



Pneumatic impact screwdriver DSS 1/2" Premium Power

High-quality impact screwdriver in robust, fibreglass-reinforced plastic housing, with above-average performance and enhanced equipment features

- Up to max. 1,321 Nm Releasing torque at a weight of 1.98 kg
- High-quality double impact mechanism and balanced cylinder with 6-disc motor
- 4-stage power setting with convenient one-handed conversion

Tool holding device	1/2-inch external square
Max. working torque	835 Nm
Max. releasing torque	1321 Nm
Sound-pressure level	80.6 dB
Vibration	7.78 m/s ²
Weight of machine	1.98 kg

Art. no. 5714 301 0

P. Qty.: 1

Pneumatic impact screwdriver 1" Premium Power

Excellent power-to-weight ratio: Up to 2712 Nm torque at a weight of only 8.1 kg



- Exhaust air conducted away from the work area
- High-quality double impact mechanism and cylinder with balanced 6-disc motor
- Highly-ergonomic soft grip with sensitive trigger and integrated silencer
- Three-stage power setting for both clockwise and anti-clockwise rotation

Tool holding device	1-inch external square
Max. working torque	1850 Nm
Max. releasing torque	2712 Nm
Sound-pressure level	106 dB
Vibration	13.4 m/s ²
Weight of machine	8.1 kg

Art. no. 5714 376 0

P. Qty.: 1

- Maximum recommended screw diameter: M38.
- Impact screwdrivers are not torque screwdrivers. Connections requiring a specific torque must be checked by means of a torque measuring device after tightening with the impact screwdriver.
- When the impact screwdriver is used regularly (e.g. for tyre maintenance), a little oil should be added through the air inlet each day, and approximately 2 strokes of gear grease should be added each month via the grease nipple.
- Plug-in nipple not included in the scope of delivery

Pneumatic angled impact wrench DWSS 1/2 inch

Powerful pneumatic angled impact wrench with low head height for working in constricted spaces.



- Very low head height of just 50 mm
- High-quality double hammer impact mechanism and cylinder with unique 7-disc motor
- 2-stage power setting with convenient right/left rotation control
- Ergonomically formed soft grip handle with sensitive trigger

Tool holding device	1/2-inch external square
Max. working torque	190 Nm
Max. releasing torque	244 Nm
Sound-pressure level	97 dB
Vibration	43.5 m/s ²
Weight of machine	1.8 kg

Art. no. 5714 300 0

P. Qty.: 1

- When the impact screwdriver is used regularly, a little oil should be added daily through the compressed air, and approximately 2 strokes of gear grease should be added monthly via the grease nipple.
- Plug-in nipple not included in the scope of delivery

Pneumatic brush sander DBS 3500

Very lightweight and handy drive machine to save you time when removing underbody seal, sealing compounds, paint, rust and films

- No smearing or clogging of tool
- Hardened wire tips
- Belts suited for all kinds of materials
- Wide variety of application options thanks to different brush types



Working pressure	6.3 bar
Max. rotation speed	3500 rpm
Air consumption	110 l/min
Min. hose inner diameter	9 mm
Weight of machine	1.1 kg

Art. no. 0703 351 0

P. Qty.: 1

Plug-in nipple not included

Pneumatic mini orbital sander DME 75

Powerful, small compressed air random orbital sander for minor sanding tasks and headlight repairs

- Ergonomic and rubberised handle
- Lightweight and compact design
- With speed control
- Soundproofed air outlet at the end of the handle
- Large, convenient adjustment valve



Diameter of sanding plate	75 mm
Sanding stroke	4 mm
Max. idle speed	15000 rpm
Power output	224 W
Air consumption	113 l/min
Weight of machine	0.7 kg
Connection thread	1/4 inch

Art. no. 0703 236 0

P. Qty.: 1

When used regularly, the machine should be lightly oiled via the pneumatic air supply every day. The use of a mist lubricator is recommended.

Pneumatic hand-held sander DSW 15

Powerful, small pneumatic hand-held sander for repairing minor paintwork damage

- Ergonomic and rubberised handle
- Lightweight and compact design
- With speed control
- Soundproofed air outlet at the end of the handle
- Large, convenient adjustment valve



Tool holding device	M6 x 1.25 mm
Max. idle speed	15000 rpm
Power output	224 W
Air consumption	113 l/min
Weight of machine	0.72 kg

Art. no. 0703 232 0

P. Qty.: 1

Plug-in nipple not included in the scope of delivery

Pneumatic mini polisher DMP 25

Small compressed air polisher for repairing minor paintwork damage

- Ergonomic and rubberised handle
- Lightweight and compact design
- With speed control
- Soundproofed air outlet at the end of the handle
- Large, convenient adjustment valve



Max. idle speed	2500 rpm
Power output	224 W
Air consumption	113 l/min
Weight of machine	0.5 kg

Art. no. 0703 233 0

P. Qty.: 1

Plug-in nipple not included

Pneumatic rod grinder DSG 22 Power

Long-life, handy rod grinder, straight design, with tool-free speed control and rubberised handle to protect against vibrations and cold hands.

- Rubber handle
- Lightweight and compact design
- Rotating compressed air connection



Max. drill chuck span width	6 mm
Max. idle speed	22000 rpm
Power output	373 W

Air consumption	113 l/min
Weight of machine	0.7 kg

Art. no. 0703 234 0

P. Qty.: 1

- When used regularly, the machine should be lightly oiled via the compressed air supply every day. The use of a mist oiler is recommended.
- Plug-in nipple not included in the scope of delivery

Pneumatic rod grinder DSG 25

Long-life, handy rod grinder, straight design, with tool-free speed control and rubberised handle to protect against vibrations and cold hands.

- Rubber handle
- Lightweight and compact design
- Rotating compressed air connection



Max. drill chuck span width	6 mm
Max. idle speed	25000 rpm
Power output	224 W
Air consumption	113 l/min
Weight of machine	0.4 kg

Art. no. 0703 230 0

P. Qty.: 1

- When used regularly, the machine should be lightly oiled via the compressed air supply every day. The use of a mist oiler is recommended.
- Plug-in nipple not included in the scope of delivery



Pneumatic rod grinder DSW 22

Long-life, handy rod grinder, angled design, with tool-free speed control and rubberised handle to protect against vibrations and cold hands.

- Rubber handle
- Lightweight and compact design
- Rotating compressed air connection

Max. drill chuck span width	6 mm
Max. idle speed	22000 rpm
Power output	224 W
Air consumption	113 l/min
Weight of machine	0.5 kg

Art. no. 0703 231 0

P. Qty.: 1

Brush belt, coarse

Especially suitable for areas around weld seams, contours and edges. With sand blasting effect, ensures good adhesion for tin coating and trowel application.

For fast removal of underseal, sealing compounds, paint, rust and films.



Width	Art. no.	P. Qty.
11 mm	0703 350 51	10
23 mm	0703 350 1	5/10

Pneumatic grinding file DSF 10

Handy and compact compressed air grinding file for 10/11/12 x 330-mm grinding belts. For grinding, deburring and satin finishing in hard-to-reach places.

- Light, compact design
- The spring integrated into the grinding arm ensures optimal tensioning of the grinding belt.
- The grinding arm can be rotated through 360°, ensuring great ease of operation.



Max. idle speed	15000 rpm
Power output	317 W
Working pressure	6.3 bar
Weight of machine	730 g
Sound-pressure level	85 dB

Art. no. 0703 272 0

P. Qty.: 1

- When used regularly, the machine should be lightly oiled via the compressed air supply every day. The use of a mist oiler is recommended.
- Plug-in nipple not included in the scope of delivery

Pneumatic multi-cutter DMS 2

Powerful unit for removing bonded windscreens, for cutting work on vehicle bodies and sanding work in corners and around edges.

- Universal, hex. Mount
- Oscillating motion
- Safety switch with continuous speed control
- Exhaust air system with exhaust air hose
- High-quality ball bearings



Min./max. idle orbital rate	0-20000 1/min
Working pressure	6.3 bar

Continuation **Pneumatic multi-cutter DMS 2**

Air consumption	370 l/min
Min. hose inner diameter	8 mm
Tool holding device	Hexagon
Weight of machine	1.1 kg

Art. no. 0703 862 1

P. Qty.: 1

Compressed air depth grinder DTS 100

The long arm and low overall height make it ideal for cutting sheet metal and steel in hard-to-reach places.

- Ideal for use in tight spaces
- Thermally insulated handle
- Quick and easy to replace the disc
- Tool-less adjustment



Rotation speed	14000 rpm
Washer diameter	100 mm
Connection thread	1/4 inch
Min. hose inner diameter	9 mm
Weight of machine	1.7 kg
Working pressure	6.3 bar

Art. no. 5714 200 0

P. Qty.: 1

- When used regularly, the oil should be topped up via the compressed air supply every day.
- Compressed air connection not included in scope of delivery.

Pneumatic axial screwdriver DAS 1/4-inch

With adjustable friction clutch for precise torque control.

- Easy control of rotation speed with touch-sensitive trigger
- 1/4 inch quick-action chuck for bit
- Right/left rotation changeover
- Exhaust air conducted to the rear with exhaust air system connection



Rotation speed	1800 rpm
Min./max. torque	2.2-10 Nm
Working pressure	6.3 bar
Min. hose inner diameter	9 mm
Weight of machine	1.2 kg

Art. no. 0703 413

P. Qty.: 1

- Please use only bits or bit holders with 1/4" E 6.3 mount
- Plug-in nipple not included in scope of delivery

Pneumatic gun screwdriver DPS 1/4 inch

With adjustable friction clutch for precise torque control.

- 1/4 inch quick-action chuck for bit
- Clockwise/anti-clockwise conversion on button
- Exhaust air conducted to the rear with exhaust air system connection



Tool holding device	1/4-inch hexagon socket
Rotation speed	1800 rpm
Min./max. torque	2.2-10 Nm
Air consumption	112 l/min
Length	216 mm
Weight of machine	1.6 kg

Art. no. 0703 439

P. Qty.: 1

- Please use only bits or bit holders with 1/4" E 6.3 mount
- Plug-in nipple not included in scope of delivery

Pneumatic ratchet screwdriver DRS multi

Very small, lightweight pneumatic ratchet screwdriver in rugged plastic housing. Available as a single item or in a kit together with standard accessories.

- The particularly slim design and low weight permit work in inaccessible places
- Easy to switch direction of rotation
- One machine permits four applications with two interchangeable adapters: 1/4 inch, 3/8 inch square and 1/4 inch, 10 mm bit mount
- The kit version contains a total of 40 parts in a high-quality metal box with foam insert



Tool holding device	1/4-inch hexagon socket
Max. torque	40.7 Nm
Length	155 mm
Sound-pressure level	90 dB
Working pressure	6.3 bar
Min. hose inner diameter	8 mm

Art. no. 0703 813 0

P. Qty.: 1

Plug-in nipple not included

Pneumatic ratchet screwdriver DRS 1/4"

Durable ratchet screwdriver with speed regulation and plastic handle to protect against vibrations and cold hands.

- Precision planetary gearbox
- Short design, ideal for use in hard-to-reach areas
- Exhaust routed to the rear away from the work area
- Speed adjustable via an integrated control
- Recessed right/left switch
- Rotatable compressed air connection
- Rubberised ratchet head



Tool holding device	1/4-inch external square
Max. torque	40 Nm
Length	170 mm
Working pressure	6.3 bar
Min. hose inner diameter	6 mm

Art. no. 0703 814 0

P. Qty.: 1

Plug-in nipple not included

Pneumatic ratchet screwdriver DRS 3/8"

Durable ratchet screwdriver with speed regulation and plastic handle to protect against vibrations and cold hands.

- Precision planetary gearbox
- Short design, ideal for use in hard-to-reach areas
- Exhaust routed to the rear away from the work area
- Speed adjustable via an integrated control
- Recessed right/left switch
- Rotatable compressed air connection
- Rubberised ratchet head



Tool holding device	3/8-inch external square
Max. torque	40 Nm
Length	170 mm
Sound-pressure level	88 dB
Working pressure	6.3 bar
Min. hose inner diameter	6 mm

Art. no. 0703 838 0

P. Qty.: 1

Plug-in nipple not included

Pneumatic ratchet screwdriver DRS 1/2 inch

Durable ratchet screwdriver with speed regulation and plastic handle to protect against vibrations and cold hands.

- Precision planetary gearbox
- Exhaust routed to the rear away from the work area
- Speed adjustable via an integrated control
- Recessed right/left switch
- Rotatable compressed air connection
- Rubberised ratchet head



Tool holding device	1/2-inch external square
Max. torque	70 Nm
Length	270 mm
Sound-pressure level	84 dB
Working pressure	6.3 bar
Min. hose inner diameter	9 mm

Art. no. 0703 812 0

P. Qty.: 1

Plug-in nipple not included

Pneumatic impact ratchet screwdriver DSR 1/2 inch

Powerful pneumatic impact ratchet screwdriver with exceptionally high torque.

- Right/left rotation changeover at front on ratchet head and power build-up without reverse torque



Tool holding device	1/2-inch external square
Rotation speed	400 rpm
Max. torque	95 Nm
Air consumption	85 l/min
Length	275 mm
Weight of machine	1.28 kg

Art. no. 0703 110

P. Qty.: 1

- When used regularly, the machine should be lightly oiled via the compressed air supply every day. The use of a mist oiler is recommended.
- Plug-in nipple not included in the scope of delivery

Pneumatic angle grinder DWS 115 plus

Powerful, handy machine for sanding, cutting and roughing work.

- Plastic housing
- Compact design, low-vibration
- Spindle stop
- Exhaust air conducted to the rear
- Wrench-free adjustment of protective hood



Washer diameter	115 mm
Rotation speed	10000 rpm
Power output	600 W
Working pressure	6.3 bar
Weight of machine	1.6 kg

Art. no. 0703 855 0

P. Qty.: 1

- When used regularly, the machine should be lightly oiled via the compressed air supply every day. The use of a mist oiler is recommended.
- Plug-in nipple not included in the scope of delivery

Pneumatic angle grinder DWS 125 plus

Powerful, handy machine for sanding, cutting and roughing work

- Plastic housing
- Compact design, low-vibration
- Spindle stop
- Exhaust air conducted to the rear
- Wrench-free adjustment of protective hood



Washer diameter	125 mm
Rotation speed	10000 rpm
Power output	600 W
Working pressure	6.3 bar
Weight of machine	1.6 kg

Art. no. 0703 856 0

P. Qty.: 1

- When used regularly, the machine should be lightly oiled via the compressed-air supply every day. The use of a mist oiler is recommended.
- Plug-in nipple not included in the scope of delivery

Core drill DS 180-P

Diamond core drill for hand and stand-guided wet and dry drilling in concrete, reinforced concrete and masonry

- Optimum weight distribution for horizontal drilling by hand
- Significantly easier spot drilling due to soft start function
- Perfect work progress due to LED load indicator

Nominal voltage	230 V/AC
Power input	2400 W
Idle speed 1st gear max.	780 rpm
Idle speed 2nd gear max.	1690 rpm
Idle speed 3rd gear max.	3520 rpm
Weight of machine	6.8 kg

Art. no. 5709 116 01

P. Qty.: 1



Core drill DS 180-T

Diamond core drill for hand and stand-guided wet and dry drilling in concrete, reinforced concrete and masonry

- Optimum weight distribution for vertical drilling by hand
- Significantly easier spot drilling due to soft start function
- Perfect work progress due to LED load indicator

Nominal voltage	230 V/AC
Power input	2400 W
Idle speed 1st gear max.	780 rpm
Idle speed 2nd gear max.	1690 rpm
Idle speed 3rd gear max.	3520 rpm
Weight of machine	6.8 kg

Art. no. 5709 116 02

P. Qty.: 1



Drilling stand DS Compact

Compact drilling stand for diamond core drills DS 130-P/DS 130-T and DS 164

- Stainless steel engraved drilling depth display, angle display and drill centre point display
- Column with swan neck guide
- Knurled adjusting screws with additional hexagon head
- Drill spindle with quick-change connection, can be mounted on either side of the carriage, with integrated key for the knurled adjusting screws

Column height	725 cm
Product weight (per item)	9600 g
Suitable for max. drill-bit diameter	200 cm



Continuation **Drilling stand DS Compact**

Art. no. 5709 116 11

P. Qty.: 1

Agitator RW 1400

1400 watt, hand-held 2-speed agitator

- Infinitely adjustable speed for soft power delivery
- Ergonomically-shaped handle
- Lightweight
- Handle is raised by 50 mm to minimise fatigue when working
- Inhibitor
- Automatic cut-off carbon brushes

Nominal voltage	230 V/AC
Power input	1400 W
Idle speed 1st/2nd gear min./max.	0-660/0-920 rpm
Idle speed 1st gear min./max.	0-660 rpm
Mixing volume	90 l
Max. agitating basket diameter	160 mm
Weight of machine	5.6 kg
Cable length	4 m



Art. no. 0702 846 0

P. Qty.: 1

Agitator RW 1010

The compact 1010 W agitator with matching mixing tool is ideally suited for a wide range of mixing jobs up to a maximum volume of 40 litres.

- Infinitely adjustable speed for soft power delivery
- Ergonomically-shaped handle
- Lightweight
- Handle is raised by 50 mm to minimise fatigue when working
- Inhibitor
- Automatic cut-off carbon brushes

Nominal voltage	230 V/AC
Power input	1010 W
Idle speed 1st gear min./max.	0-925 rpm
Mixing volume	40 l
Max. agitating basket diameter	120 mm
Weight of machine	4.7 kg
Cable length	4 m



Art. no. 0702 841 0

P. Qty.: 1

Extraction DUSTfree

For mixing dusty materials in bucket

- Less dust when filling and mixing
- Suitable for many bucket sizes

Product weight (per item)	300 g
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Art. no. 0713 95 010

P. Qty.: 1



Vacuum pump VP 800

For fastening the core drilling stand in conjunction with the respective optional vacuum set

- Mounting the baseplate eliminates the underpressure generated by the vacuum pump

Nominal voltage	230 V/AC
Power input	380 W
Max. pressure	0.8 bar
Weight of machine	13.5 kg

Art. no. 5709 132 0

P. Qty.: 1



Water pressure tank

For diamond core drilling

- Manometer for tank pressure (max. 6 bar)
- Fill volume 10 l
- Hose length 2.5 m

Liquid volume	10 l
Container capacity	13 l
Working pressure	6 bar
Material	Steel
Height x width	650 x 255 mm
Hose length	2.5 m
Product weight (per item)	5119 g

Art. no. 0651 150 205

P. Qty.: 1



Formwork release oil sprayer

Corrosion-resistant, polyester-coated steel container

- Flexible, 2.5-m spiral hose with safety latch
- The brass spray pipe is rotatable by 360° and facilitates comfortable and effortless working by adjusting direction.
- The precision flat jet nozzle with fine nozzle distributes the formwork oil evenly and sparingly.
- Quick and convenient to refill
- Dirt-free
- Secure storage



Working pressure	6 bar
Flow capacity conditions	at 2 bar
Flow capacity	0.64 l/min
Max. operating temperature	40 °C
Recoil force	5 N
Material	Steel
Hose length	2.5 m

Liquid volume	Container capacity	Height x width	Product weight (per item)	Art. no.	P. Qty.
6 l	9 l	495 x 255 mm	4352 g	0651 150 209	1
10 l	13 l	650 x 255 mm	5138 g	0651 150 207	1

Magnetic core drill MKB 35

Compact and powerful electromagnetic core drill for bore holes up to 35 mm in diameter, including safety belt, coolant tank and hexagon key.

- Secure attachment to metallic workpieces with the electromagnet
- The machine is suitable for tough construction site conditions and its low tare weight makes it easy to transport.
- 5-metre PUR network cable is flexible at low temperatures, protected against external influences and highly robust.
- With the pre-mounted star handle, the machine can be used immediately.



Tool holding device	Weldon
Min./max. drill diameter	12-35 mm
Cutting depth	50 mm
Lift height	120 mm
Rotation speed at nominal load in 1st gear	450 rpm
Magnetic force	9000 N
Power input	1100 W
Weight of machine	10 kg

Art. no. 5709 200 1

P. Qty.: 1

Magnetic core drill MKB 35 comfort

Compact and powerful electromagnetic core drill with current-independent permanent magnets including safety belt, coolant tank and hexagon key.

- The permanent magnet holds even in case of securing errors (missing tensioning belt) and power failures.
- Up to 30-40% more retention force compared to electromagnets. This makes it possible to drill holes from 3 mm material thickness.
- Easy changing of the drill bit with quick-change drill chuck
- Lightweight machine with permanent magnet.
- 5-metre PUR network cable is flexible at low temperatures, protected against external influences and highly robust.
- With the pre-mounted star handle, the machine can be used immediately.



Tool holding device	Weldon
Min./max. drill diameter	12-35 mm
Cutting depth	50 mm
Lift height	105 mm
Rotation speed at nominal load in 1st gear	450 rpm
Magnetic force	7500 N
Power input	1100 W
Weight of machine	10 kg

Art. no. 5709 201 1

P. Qty.: 1



Battery-powered blind riveter ANG 14

For cordless processing of blind rivets from 2.4 mm to 5.0 mm in diameter.

- Li-ion technology
- Ergonomic handle and compensated centre of gravity
- The immediate reset to the starting position after the riveting operation saves energy and increases the number of operating sequences
- Broken rivet pins can be collected in a container
- With holder for balancer

Nominal voltage	14.4 V/DC
Lift height	20 mm
Rivet setting force	10000 N
Weight of machine with rechargeable battery	2 kg

Art. no. 0700 915 1

P. Qty.: 1



Industrial wet and dry vacuum cleaner ISS 30-L AUTOMATIC

Universal vacuum cleaner suitable for construction sites with L certification and automatic filter cleaning

- Dust class L certification, automatic filter cleaning, and anti-static treatment
- System case storage and mounting option, integrated accessory storage
- Easy handling thanks to bayonet and clip connections, centrally positioned switches and automatic power tool detection

Air current	74 l/s
Underpressure	23 kPa
Container capacity	30 l
Max power	1380 W
Cable length	7.5 m
Hose connection diameter	35 mm

Art. no. 0701 133 0

P. Qty.: 1

Industrial wet and dry vacuum cleaner ISS 30-L

Handy and ergonomic universal vacuum with L-certification and semi-automatic filter cleaning

- Dust class L-certification, semi-automatic filter cleaning and antistatic treatment
- System case storage and mounting option and integrated storage of accessories
- Easy to use thanks to bayonet and clip connections



Air current	74 l/s
Underpressure	23 kPa
Container capacity	30 l
Max power	1380 W
Cable length	7.5 m
Hose connection diameter	35 mm

Art. no. 0701 132 0

P. Qty.: 1

- During dry vacuuming, a dust bag and folding filter must always be used. Do not vacuum without a filter system, otherwise the vacuum motor may be damaged, resulting in a health risk from increased fine dust emissions.
- Use a PES flat folding filter for wet vacuuming.

Industrial wet and dry vacuum cleaner ISS 40-M AUTOMATIC

Universal safety vacuum suitable for construction sites, with M certification and automatic filter cleaning

- Dust class M certification, automatic filter cleaning, automatic filter detection and antistatic treatment
- System case storage and mounting option, integrated accessory storage
- Easy handling thanks to bayonet and clip connections, centrally positioned switches and automatic power tool detection



Air current	74 l/s
Underpressure	23.7 kPa
Container capacity	39 l
Max power	1380 W
Cable length	7.5 m

Art. no. 0701 143 0

P. Qty.: 1

- A dust bag and folding filter must always be used when dry vacuuming. Do not vacuum without a filter system, otherwise the vacuum motor may be damaged, resulting in a health risk from increased fine dust emissions.
- Use a PES flat pleated filter for wet vacuuming.
- An electronic air flow monitor triggers a beep as soon as the airflow drops below 20 m/s. The accessory then needs to be checked for blockage or the container needs to be emptied.

Industrial wet and dry vacuum cleaner ISS 50-L AUTOMATIC

Universal, high-performance vacuum suitable for construction sites, with L certification and automatic filter cleaning

- Dust class L certification, automatic filter cleaning, and anti-static treatment
- System case storage and mounting option, integrated accessory storage
- Easy handling thanks to bayonet and clip connections, centrally positioned switches and automatic power tool detection



Air current	74 l/s
Container capacity	51 l
Max power	1380 W
Cable length	7.5 m
Hose connection diameter	35 mm

Art. no. 0701 153 0

P. Qty.: 1

- A dust bag and folding filter must always be used when dry vacuuming. Do not vacuum without a filter system, otherwise the vacuum motor may be damaged, resulting in a health risk from increased fine dust emissions.
- Use a PES flat pleated filter for wet vacuuming.

Adapter

For connecting the suction hoses for ISS 35, 35-S, 45-M and 55-S to the new ISS series 30-L, 30-L automatic, 40-m automatic and 50-L automatic

Antistatic	No
Electroconductive	No
Suitable for vacuum cleaner	ISS 30-L Automatic, ISS 30-L, ISS 40-M Automatic, ISS 50-L Automatic



Art. no. 0702 400 250

P. Qty.: 1

Flat folding filter, paper

For ISS series

- Paper filter for dry applications for fine dust and coarse dirt

Compatible with	ISS 35, ISS 35-S, ISS 45-M, ISS 55-S, ISS 30-L AUTOMATIC, ISS 30-L, ISS 50-L AUTOMATIC, ISS 40-M AUTOMATIC
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Art. no. 0702 400 367

P. Qty.: 1

If moisture is extracted, leave the filter to air dry.

Paper filter bag ISS 35

For ISS 35 industrial wet/dry vacuum cleaner (-S automatic 2013) and ISS 35 (automatic 2013)



Compatible with	DN nominal width	Art. no.	P. Qty.
ISS 32		0702 400 098	5
ISS 35, ISS 35-S, ISS 30-L AUTOMATIC, ISS 30-L	DN 35	0702 400 209	5
ISS 45-M, ISS 55-S, ISS 50-L AUTOMATIC	DN 35	0702 400 207	5

We recommend switching automatic cleaning off when using a paper filter bag.

Cement filter bag ISS 35

For industrial wet & dry vacuum cleaner ISS 35 (-S automatic)



Compatible with	DN nominal width	Art. no.	P. Qty.
ISS 35, ISS 35-S, ISS 30-L AUTOMATIC, ISS 30-L	DN 35	0702 400 259	5
ISS 50-L AUTOMATIC, ISS 40-M AUTOMATIC, ISS 45-M, ISS 55-S	DN 40	0702 400 260	5

Extension hose

Made of plastic for ISS and TSS series



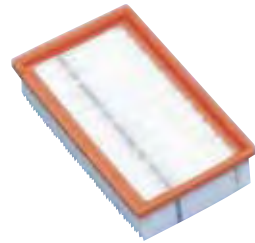
Compatible with	Antistatic	DN nominal width	Art. no.	P. Qty.
ISS 35, ISS 35-S, ISS 45-M, HWS 15-L		DN 35	0702 400 237	1
ISS 55-S	No	DN 40	0702 400 344	1

Flat folding filter, coated

For ISS series

- Polyester filter with nanofibre coating for wet and dry applications of dust classes L and M
- Especially suitable for wet applications as well as abrasive dusts

Compatible with	ISS 35, ISS 35-S, ISS 45-M, ISS 55-S, ISS 30-L AUTOMATIC, ISS 30-L, ISS 50-L AUTOMATIC, ISS 40-M AUTOMATIC
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Art. no. 0702 400 191

P. Qty.: 1

If moisture is extracted, leave the filter to air dry.

Wet/dry filter bag For ISS 45 and 55

Tear-resistant filter bag, dust class L, for dry and wet cleaning

- Tear-resistant special/wet filter bag of dust class L for wet cleaning e.g. cutting concrete, sucking mud

Compatible with	ISS 55-S, ISS 50-L AUTOMATIC
DN nominal width	DN 40



Art. no. 0702 400 188

P. Qty.: 5

Suction brush, plug-in

For ISS 35(-S automatic) and ISS 45-M automatic

With natural bristles

DN nominal width	DN 35
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Art. no. 0702 400 427

P. Qty.: 1

Also for predecessor models ISS 32, 54, 54 H, 54 HO, 54 AS, 60.

Wet/dry filter bag

For ISS 35 (-S automatic)

Compatible with	ISS 35, ISS 35-S, ISS 45-M
DN nominal width	DN 35



Art. no. 0702 400 068

P. Qty.: 5

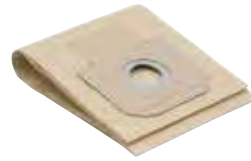
Paper filter bag

For craftsman's vacuum cleaner HWS 15-L

Compatible with	HWS 15-L
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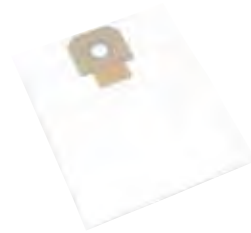
Art. no. 0702 400 210

P. Qty.: 5



Wet/dry filter bag, fleece

Extremely tear-resistant, 3-ply fleece filter bag of dust class M for industrial vacuum cleaners. Suitable for normal dirt, abrasive dusts, fine dusts and moist dirt.



Compatible with	Art. no.	P. Qty.
HWS 15-L	0702 400 070	5
ISS 35, ISS 35-S, ISS 30-L, ISS 30-L AUTOMATIC	0702 400 071	5
ISS 55-S, ISS 50-L AUTOMATIC, ISS 40-M AUTOMATIC, ISS 45-M	0702 400 072	5

Spray suction device SEG 10-2

Powerful spray extraction unit for upholstery cleaning and stain removal on carpeted surfaces

- Very good back suction result
- Compact, space-saving design
- Large transparent cover for continuous checking of the cleaning procedure and back suction performance
- Practical carry handle and holders for cable and nozzle



Nominal voltage	230 V/AC
Motor output	1380 W
Flow capacity	1 l/min
Underpressure	230 mbar
Fresh water tank	8 l
Dirty water tank	7 l
Weight of machine	9.8 kg
Cable length	7.5 m

Art. no. 0701 111 0

P. Qty.: 1

The hand nozzle should be guided horizontal to the floor to achieve proper suction.

Hand nozzle

Compact hand-held nozzle for cleaning upholstered furniture and smaller carpeted surfaces using the spray suction device.

- Transparent field of view for checking the cleaning procedure and back suction performance



Length	Width	Compatible with	Art. no.	P. Qty.
180 mm	105 mm	SEG 10-2	0701 111 004	1
350 mm	110 mm	SEG 10	0701 110 001	1

Suction hose

For spray suction device

Compatible with	SEG 10-2
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Length	Art. no.	P. Qty.
2.4 m	0701 111 001	1
4 m	0701 111 002	1

Joint nozzle

For cleaning small and hard-to-reach surfaces with the spray suction device. Ideal accessory for cleaning upholstery and seats in vehicles.



Length	250 mm
Width	15 mm
Compatible with	SEG 10-2

Art. no. 0701 111 003

P. Qty.: 1

Floor nozzle

For cleaning larger carpeted surfaces using the spray suction device

- Flexible floor attachment for optimum suction in each angle setting
- Transparent field of view for checking the cleaning procedure and back suction performance

Length	1070 mm
Width	240 mm
Compatible with	SEG 10-2

Art. no. 0701 111 005

P. Qty.: 1



Hard surface adapter

For the floor nozzle belonging to the spray suction device for cleaning hard floors

Width	240 mm
Compatible with	SEG 10-2

Art. no. 0701 111 006

P. Qty.: 1



Handle

For spray suction device

- Modular system for switching quickly between hand-held nozzle, joint nozzle and floor nozzle
- Compact and ergonomic design
- Transparent field of view for checking the cleaning procedure and back suction performance

Compatible with	SEG 10-2
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Art. no. 0701 111 007

P. Qty.: 1



Dry vacuum cleaner TSS 7-L BASIC

Compact, lightweight dry vacuum cleaner with ergonomic carry strap

- Comfortable to carry thanks to ergonomic carry strap and very low weight
- Suitable for dust with max. Workplace concentration (MAK values) > 1 mg/m³
- Optimised air flow enables the vacuum to achieve a very high suction power.
- The 7.5-m rubber mains cable can be simply and cleanly suspended around the cable hook



Nominal voltage	230 V/AC
Power input	850 W
Container capacity	7 l
Max. air current	40 l/s
Underpressure	220 mbar
Sound-pressure level	62 dB
Energy efficiency class	A
Weight of machine	3.5 kg
Cable length	7.5 m

Art. no. 0701 117 0

P. Qty.: 1

Dry vacuum cleaner TSS 12 COMPACT

Powerful, compact vacuum cleaner for professional dry building cleaning applications

- 62 dB (A), quiet dry vacuum cleaner for use in volume-sensitive areas, even during business hours
- Practical suction tube holder for straightforward and space-saving storage of the suction tube and floor nozzle on the device
- The 12-m mains cable can be wound simply and cleanly around the turbine head or hung from the fold-down cable hook



Nominal voltage	240 V
Power input	800 W
Container capacity	12 l
Max. air current	53 l/s
Underpressure	24 kPa
Weight of machine	6.6 kg
Cable length	12 m

Art. no. 0701 113 1

P. Qty.: 1

Fleece filter bag

For dry vacuum cleaners



Compatible with	Art. no.	P. Qty.
TSS 7-L BASIC	0701 117 001	5
TSS 12, TSS 12 ECO	0701 112 010	5

Paper filter bag

For dry vacuum cleaner TS 12

Compatible with	TSS 12, TSS 12 ECO
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Art. no. 0701 112 011

P. Qty.: 5



High-pressure cleaner HDR 160 Compact

Compact cold water high-pressure washer for medium-duty cleaning jobs.

- Compact design and adjustable aluminium push handle
- Automatic pressure cut-out when work is interrupted
- Relief of pressure prolongs service life and reduces energy and water consumption
- The required concentration can be set using the dosing valve.
- Integral suction hose for cleaning agent
- Ergonomic manual spray gun with reduced retention and pulling force
- Practical accessory holder and electrical cable winding mechanism



Nominal voltage	230 V/AC
Power input	2.3 kW
Max. pressure	160 bar
Working pressure	130 bar
Min./max. feed quantity	0-480 l/h
Max. inlet temperature	60 °C
Hose length	10 m
Weight of machine	26.1 kg
Cable length	4 m

Art. no. 0701 161 0

P. Qty.: 1

For use with cleaning agents, observe the following steps:

- Pull out the suction hose for the cleaning agent.
- Hook the cleaning agent suction hose into a container of cleaning agent.
- Set the triple nozzle to „CHEM“.
- Set the cleaning agent metering valve to the required concentration.

High-pressure cleaner HDR 185 Power Plus

Powerful cold water high-pressure cleaner with hose reel, for medium to heavy-duty cleaning jobs

- Integrated hose reel
- Infinitely variable pressure/water quantity regulation
- Automatic pressure shutdown in the event of interruptions to work

Nominal voltage	230 V/AC
Power input	2.7 kW
Max. pressure	185 bar
Working pressure	150 bar
Min./max. feed quantity	0-500 l/h
Max. inlet temperature	60 °C
Hose length	15 m
Weight of machine	30.8 kg
Cable length	4 m



Art. no. 0701 163 0

P. Qty.: 1

For use with cleaning agents, observe the following steps:

- Pull out the suction hose for the cleaning agent.
- Hook the cleaning agent suction hose into a container of cleaning agent.
- Set the triple nozzle to „CHEM“.
- Set the cleaning agent metering valve to the required concentration.

Surface cleaner

For spray water-protected cleaning with the high-pressure cleaner

- Efficient cleaning of large surfaces

Compatible with	HDR 160 Premium, HDR 160 Compact, HDR 185 Power Plus
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Art. no. 0701 160 009

P. Qty.: 1



Pipe cleaning nozzle

For cleaning and effective removal of blockages in pipes, drains and down pipes with the high-pressure cleaner.

- The nozzle and pipe cleaning hose automatically move into the pipe, thus clearing the blockage.
- Optimum progress thanks to three jets directed towards the rear.



Compatible with	HDR 160 Compact, HDR 185 Power Plus, HDR 160 Premium
Material	Stainless steel
Connection thread	1/8 inch

Art. no. 0701 161 123

P. Qty.: 1

In addition to the pipe cleaning nozzle, a pipe cleaning hose must also be connected.



Battery-powered sabre saw SBS 28-A

Powerful battery-powered sabre saw with lithium-ion technology. Battery capacity can be selected freely thanks to PICK YOUR POWER.

- Lithium-ion technology
- Charge status display on the battery
- 2 settings
- Safety coupling
- Quick-change saw blade mount
- Tool-free adjustable stop
- Lifting rod with special seals

Nominal voltage	28 V/DC
Min./max. idle stroke speed	0-3000 rpm
Stroke length	29 mm
Tool holding device	Quick-change holder
Weight of machine with rechargeable battery	4.1 kg
Weight of machine without rechargeable battery	3.1 kg

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
Batteries not included; additional accessories not included	0700 207 02	1
2 x 3 Ah batteries; with additional accessories	0700 207 3	1

Battery-powered jigsaw STP 28-A

Powerful battery-powered jigsaw with lithium-ion technology. Battery capacity can be selected freely thanks to PICK YOUR POWER.



- Lithium-ion technology
- Charge status display on the battery
- 4 stroke settings
- 2 speed levels
- Tool-free base plate adjustment
- Saw blade quick-changing system

Nominal voltage	28 V/DC
Min./max. idle stroke speed	0-2800 rpm
Stroke length	26 mm
Max. mitre angle	45 Degree
Max. cutting depth in wood	135 mm
Tool holding device	Quick-change holder
Weight of machine with rechargeable battery	3.5 kg

Included in delivery (Lieferumfang)	Rechargeable battery/battery capacity	Art. no.	P. Qty.
Batteries not included; additional accessories not included	0 Ah	0700 217 02	1
2 x 3 Ah batteries; with additional accessories	3 Ah	0700 217 3	1

Battery-powered hand-held circular saw HKS 28-A

Powerful battery-powered hand-held circular saw with lithium-ion technology. Battery capacity can be selected freely thanks to PICK YOUR POWER.



- Li-ion technology
- Charge status display on the battery
- Motor brake
- Aluminium base plate
- Spindle lock
- Extremely thin saw blade included in the scope of delivery

Nominal voltage	28 V/DC
Max. idle speed	4200 rpm
Suitable for bore diameter	15.87 mm
Saw blade diameter	165 mm
Max. cutting depth at 90 degrees	54 mm
Weight of machine with rechargeable battery	4.3 kg

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
2 x 3 Ah batteries; with additional accessories	0700 227 2	1
Batteries not included; with additional accessories	0700 227 01	1

Cordless metal hand-held circular saw MHKS 28-A

High-performance 28-V cordless metal hand-held circular saw. Battery capacity can be selected freely thanks to PICK YOUR POWER.

- Lithium-ion technology
- Charge status display on the battery
- Motor brake
- Spindle lock
- Compact and ergonomic design with soft-grip component
- Integrated LED on protective cover



Nominal voltage	28 V/DC
Max. idle speed	3200 rpm
Suitable for bore diameter	20 mm
Saw blade diameter	174 mm
Max. cutting depth at 90 degrees	61 mm
Weight of machine with rechargeable battery	4.2 kg

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
2 x 3 Ah batteries; with additional accessories	5700 802 3	1
Batteries not included; with additional accessories	5700 802 01	1

Plunge saw TKS 59-E

Precise plunge saw with adjustable saw blade speed.

- Parallel immersion function
- Spring-mounted splitting wedge
- Handy owing to die cast magnesium
- Speed adjustment wheel with constant electronics
- Efficient dust extraction



Nominal voltage	230 V/AC
Power input	1300 W
Min./max. idle speed	1750-4000 rpm
Max. saw-blade diameter	165 mm
Suitable for bore diameter	20 mm
Max. cutting depth at 90 degrees	59 mm
Weight of machine	5.1 kg
Cable length	4 m

Art. no. 0702 158 1

P. Qty.: 1

Hand-held circular saw HKS 55 Combi

Extremely handy hand-held circular saw with immersion function for universal use.

- Suitable as a plunge saw
- Extremely handy and lightweight with die cast magnesium
- Speed adjustment wheel with constant electronics
- Spindle lock with locking function



Nominal voltage	230 V/AC
Power input	1200 W
Min./max. idle speed	2000-5200 rpm
Max. saw-blade diameter	160 mm
Suitable for bore diameter	20 mm
Max. cutting depth at 90 degrees	55 mm
Weight of machine	3.7 kg
Cable length	4 m

Art. no. 0702 157 0

P. Qty.: 1

Hand-held circular saw HKS 65-E POWER

1800 W hand-held circular saw with low weight and high cutting speed. Coordinated guide rail means it is also ideal for precise cuts

- Constant electronics
- Speed pre-selection
- Dust-extraction system



Nominal voltage	230 V/AC
Power input	1800 W
Min./max. idle speed	2300-5000 rpm
Max. saw-blade diameter	190 mm
Suitable for bore diameter	30 mm
Max. cutting depth at 90 degrees	65 mm
Weight of machine	5.2 kg
Cable length	4 m

Art. no. 5706 600 0

P. Qty.: 1

Metal mitre saw MKS 2400

Metal-cutting circular saw for sawing pipes and profiles made from steel, non-ferrous metals, plastics and composite materials, as well as stainless steel

- High tractive power, 2,400 W motor performance
- Horizontal grip position
- The saw can be transported easily thanks to the central carrying handle.
- Saw blade guide with vibration damper
- Cooling not necessary, meaning lubricant does not need to be used. No need for manual deburring.
- With sawdust collection receptacle
- Quick-action clamping system for convenient and quick adjustment of mitre cuts (90-75-60-45°)
- Optional mounting stand with scaled longitudinal stop (art. no. 0701330001) designed to make work more comfortable.



Nominal voltage	230 V/AC
Frequency	50 Hz
Protection class	Protection class I/protective grounding
Max. circumferential speed	1450 m/min
Max. saw-blade diameter	355 mm
Suitable for bore diameter	25.4 mm
Power input	2400 W
Max. mitre angle	45 Degree
Max. tilt angle	45 Degree
Weight of machine	23.5 kg
Cable length	2.5 m
Max. idle speed	1450 rpm
Vibration	1.19 m/s ²
Sound-pressure level	100 dB
Length	510 mm
Width	320 mm
Height	450 mm

Art. no. 0701 330 0

P. Qty.: 1

- Saw blade not included in the scope of delivery
- The service life of the saw blade depends on the cross-section of the cutting surface.

Mitre saw KGS 270-60 E

Very compact and lightweight chop and mitre saw with electronic motor speed control, sliding function and powerful 1550-watt motor including 24-tooth SC saw blade, assembly tool and workpiece clamp

- Electronic motor speed control
- Tensioning function with internal trombone slide as well as high-quality slide and ball bearings
- Easy transport thanks to the safe locking function of the extension and saw head



Nominal voltage	230 V/AC
Frequency	50 Hz
Protection class	Protection class II/protective insulation
Max. saw-blade diameter	216 mm
Suitable for bore diameter	30 mm
Cutting width	270 mm
Cutting depth	60 mm
Power input	1550 W
Max. mitre angle	50 Degree
Max. tilt angle	48 Degree
Direction of rotation for tilt angle	Left
Weight of machine	15 kg
Cable length	2 m
Min./max. idle speed	2600-5200 rpm
Max. idle speed	5200 rpm
Vibration	2.1 m/s ²
Sound-pressure level	91 dB
Length	430 mm
Width	460 mm
Height	560 mm
Included in delivery (Lieferumfang)	1 x KGS270-60 E chop and mitre saw, 1 x HM saw blade, 1 x assembly tool, 1 x workpiece clamp, 1 x operating instructions

Art. no. 0701 344 0

P. Qty.: 1

Mitre saw KGS 250-60

Very compact and lightweight chop and mitre saw with sliding function and high-torque 1400-watt motor, including 24-tooth SC saw blade, assembly tool and workpiece clamp for portable use.

- Tensioning function with internal trombone slide as well as high-quality slide and ball bearings
- Cut line display
- Easy and quick adjustment of the mitre and tilt by means of fixed engagement at standard angles
- Precise working in all tilt settings
- Effective 2-point dust extraction
- Easy transport thanks to secure locking function of extension and saw head along with carrying handles



Nominal voltage	230 V/AC
Frequency	50 Hz
Protection class	Protection class II/protective insulation
Max. saw-blade diameter	216 mm
Suitable for bore diameter	30 mm
Cutting width	250 mm
Cutting depth	60 mm
Power input	1400 W
Max. mitre angle	48 Degree
Max. tilt angle	48 Degree
Direction of rotation for tilt angle	Left
Weight of machine	11.5 kg
Cable length	2 m
Min./max. idle speed	0-4600 rpm
Max. idle speed	4600 rpm
Vibration	2.7 m/s ²
Sound-pressure level	92 dB
Length	355 mm
Width	445 mm
Height	425 mm
Included in delivery (Lieferumfang)	1 x KGS 250-60 chop and mitre saw, 1 x HM saw blade, 1 x assembly tool, 1 x workpiece clamp, 1 x operating instructions

Art. no. 0701 343 0

P. Qty.: 1

Sabre saw SBS 1100-E

Precise, 1100 W sabre saw, for use with wood and metal

- Throttle switch
- Safety coupling
- Saw blade quick-action mount
- Lifting rod with special seals
- Accurate mounting of the lifting rod



Nominal voltage	230 V/AC
Power input	1100 W
Min./max. idle stroke speed	0-3000 rpm
Stroke length	19 mm
Tool holding device	Quick-change holder
Weight of machine	3.2 kg
Cable length	4 m

Art. no. 5706 540 1

P. Qty.: 1

Sabre saw SBS 1300-VES

High-specification sabre saw with orbital action, vibration damping and safety coupling

- Safety coupling
- Saw blade quick-change mounting
- Stroke rod with special seals



Nominal voltage	230 V/AC
Power input	1300 W
Min./max. idle stroke speed	0-3000 rpm
Stroke length	32 mm
Tool holding device	Quick-change holder
Weight of machine	4.2 kg
Cable length	4 m

Art. no. 0702 695 1

P. Qty.: 1



Oscillating jigsaw STP 140 EXACT-S

With rod handle, ideal for high-precision applications

- Specially developed saw blade guide ensures minimum bending and low vibration for excellent smoothness
- Compact, lightweight design with small handle-circumference
- No additional tool is required to change the saw blade or adjust the magnesium foot plate

Nominal voltage	230 V/AC
Power input	800 W
Min./max. idle stroke speed	800-3000 rpm
Number of pendulum-stroke stages	4 PCS
Stroke length	26 mm
Max. cutting depth in wood	140 mm
Tool holding device	Quick-change holder
Weight of machine	2.2 kg
Cable length	4 m
Functions	Saw-blade quick change system, Restarting protection

Art. no. 5706 700 2

P. Qty.: 1

Oscillating jigsaw STP 150 Power-S

With rod handle, ideal for working under tough construction site conditions.

- Powerful motor
- Deflection-resistant foot plate
- Soft grip surfaces around the ergonomic handle
- Saw blade changes without tools



Nominal voltage	230 V/AC
Power input	780 W
Min./max. idle stroke speed	500-3100 rpm
Number of pendulum-stroke stages	4 PCS
Stroke length	26 mm
Max. cutting depth in wood	150 mm
Tool holding device	Quick-change holder
Weight of machine	2.6 kg
Cable length	4 m
Functions	Electronic torque adjustment, Saw-blade quick change system, Dust extractor (accessory)

Art. no. 5706 702 2

P. Qty.: 1

Oscillating jigsaw STP 150 Power-B

With bow-type handle, ideal for working under tough construction site conditions.

- Powerful motor
- Deflection-resistant foot plate
- Soft grip surfaces around the ergonomic handle
- Saw blade changes without tools



Nominal voltage	230 V/AC
Power input	780 W
Min./max. idle stroke speed	500-3100 rpm
Number of pendulum-stroke stages	4 PCS
Stroke length	26 mm
Max. cutting depth in wood	150 mm
Tool holding device	Quick-change holder
Weight of machine	2.7 kg
Cable length	4 m
Functions	Saw-blade quick change system

Art. no. 5706 703 2

P. Qty.: 1

Oscillating jigsaw STP 140 EXACT-B

With bar handle, ideal for high-precision applications.

- Specially developed saw blade guide for minimal saw blade deflection
- Low vibrations for extremely quiet operation
- Compact, lightweight design with small handle-circumference



Nominal voltage	230 V/AC
Power input	800 W
Min./max. idle stroke speed	800-3000 rpm
Number of pendulum-stroke stages	4 PCS
Stroke length	26 mm
Max. cutting depth in wood	140 mm
Tool holding device	Quick-change holder
Weight of machine	2.3 kg
Cable length	4 m
Functions	Saw-blade quick change system, Restarting protection

Art. no. 5706 701 2

P. Qty.: 1

Mitre saw and circular saw bench KTS 140 Combi

Versatile, compact, rugged bench saw and mitre saw including mounted universal saw blade, parallel stop, push stick, protective hood and assembly tool. Perfect for easy, precise, safe execution of longitudinal, cross, mitre and inclined cuts.

- Powerful, high-grade induction motor for maintenance free, continuous operation
- Converted from circular saw bench to chop saw without tools
- Latching points for standard incline and mitre angles
- Removable legs and integrated carrying handles
- Adjustable workpiece stop



Nominal voltage	230 V/AC
Max. idle speed	2850 rpm
Max. saw-blade diameter	250 mm
Suitable for bore diameter	30 mm
Max. mitre angle	45 Degree
Weight of machine	37 kg
Cable length	2 m

Art. no. 0701 435 0

P. Qty.: 1

Guide rail for circular saw

Suitable for AHKS 18-68 COMPACT, HKS 55 Combi, TKS 59-E, HKS 65-E POWER, HKS 10-A

- With non-slip coating on underside



Length	1500 mm
Product weight (per item)	2250 g

Art. no. 0702 157 004

P. Qty.: 1

Portable bandsaw PBS 160 - AUTOMATIC

Metal bandsaw with automatic sawing frame lowering.

- Automatic lowering of the sawing frame with 4 adjustable lowering speeds for precise cutting results, as the correct contact pressure can be applied every time to prevent the sawing belt from deviating
- 40% faster cutting thanks to reverse direction of rotation of the sawing belt in comparison to clockwise rotating bandsaws
- Ergonomic handle
- Constant, need-based cutting speed
- Fixed angle stops 0°, 45°
- Dry cutting



Nominal voltage	230 V/AC
Power input	2000 W
Saw band dimensions	1735 x 13 x 0.9 mm
Weight of machine	35 kg
Cable length	4 m

Art. no. 0701 324 0

P. Qty.: 1



Wall and ceiling grinders WSS 225-E COMPACT

Ergonomic long neck grinder with high removal rate and effective dust extraction

- Soft start
- Very handy and lightweight machine with high operating comfort and optimal balance between motor and grinding disc
- Straight, rotatable edge segment
- Optimised flexible shaft
- Suction between brush ring and grinding disc, as well as 10-hole suction, prevent the abrasive from clogging too quickly.
- Spring-mounted grinding head hood ensures perfect adjustment of the grinding head to all uneven surfaces.

Nominal voltage	230 V/AC
Power input	500 W
Min./max. idle speed	1100-1650 rpm
Diameter of sanding plate	225 mm
Weight of machine	3.9 kg
Cable length	5 m

Art. no. 0702 121 1

P. Qty.: 1

Concrete grinder EBS 125-E

Powerful 1700-W concrete grinder for sanding and removal of concrete, screed and coatings on hard substrates.



- Powerful (1700 W) yet lightweight
- Speed control allows speeds that are appropriate to the material and remain constant even under load.
- The folding segment makes it possible to work close to edges and walls.
- The spring-mounted brush ring on the protective hood adjusts to every surface and segment height and therefore ensures efficient extraction in combination with the extractor hood and the connected vacuum cleaner.
- Ergonomic handle for safe and steady guidance during grinding.

Nominal voltage	230 V/AC
Frequency	50 Hz
Protection class	Protection class II/protective insulation
Power input	1700 W
Power output	950 W
Min. idle speed	2200 rpm
Max. idle speed	8500 rpm
Max. torque	6 Nm
Weight of machine	4.8 kg
Cable length	4 m
WEEE (taking back waste electrical and electronic equipment)	06

Art. no. 5707 701 1

P. Qty.: 1

Only for use with vacuum cleaners of dust class M.

Window joint cutter EFF 18-68

Powerful and handy window joint cutter with exceptional immersion depth



- Ergonomic bow handle
- Max. immersion depth 68 mm
- Rapid tool replacement

Nominal voltage	230 V/AC
Power input	1400 W
Max. idle speed	7300 rpm
Washer diameter	180 mm
Weight of machine	4.7 kg
Cable length	4 m

Art. no. 0702 911 2

P. Qty.: 1



Wall slitting cutter MSF 40

Extremely powerful wall slitting cutter with 1900 W motor, including two diamond cutting discs 125 mm

- Extremely powerful 1900 W drive with slip coupling
- Clamping lever for easy, tool-free depth adjustment
- Column and bow handles ensure optimum handling for horizontal and vertical work

Nominal voltage	230 V/AC
Power input	1900 W
Min./max. idle speed	0-8200 rpm
Max. cutting disc diameter.	125 mm
Min./max. cutting depth	0-40 mm
Min./max. cutting width	0-35 mm
Weight of machine	3.9 kg
Cable length	4 m

Art. no. 0702 416 1

P. Qty.: 1

Electric planer EH 4

High-performance planer with extra-large chip ducts and chip bag for fault-free, clean operation

- High-performance 1050 W motor
- Large-diameter blade shaft
- High-volume chip bag with fill level display
- Chips can be ejected to the right or left (adjustable)



Nominal voltage	230 V/AC
Power input	1050 W
Min./max. idle speed	0-13500 rpm
Planing width	82 mm
Max. rebate depth	25 mm
Max. planing depth	4 mm
Weight of machine	4 kg
Cable length	4 m

Art. no. 0702 816 1

P. Qty.: 1

Eccentric disc-type sander ETS 125-E

Powerful and handy random orbital sander with 6-hole sanding plate for Ø125 mm sanding discs.

- Simultaneous rotating and oscillating motion
- Integrated dust extraction
- Adjusting wheel for adapting the number of rotations and oscillations



Nominal voltage	230 V/AC
Power input	320 W
Min./max. idle speed	4200-9200 rpm
Min./max. idle orbital rate	8400-18400 1/min
Diameter of sanding plate	125 mm
Oscillating diameter	5 mm
Weight of machine	2 kg
Cable length	4 m

Art. no. 0702 128 0

P. Qty.: 1

Eccentric disc-type sander ETS 150-E twin

With two lifting levels for coarse and fine sanding and with 6-hole grinding plate for Ø 150-mm grinding discs.

- 2 stroke settings on one machine: Coarse grinding with 6.2 mm stroke, fine grinding with 2.8 mm stroke
- Simultaneous rotating and oscillating motion
- Integrated dust extraction
- Adjusting wheel for adapting the number of rotations and oscillations



Nominal voltage	230 V/AC
Power input	350 W
Min./max. idle speed	4200-9200 rpm
Min./max. idle orbital rate	8400-18400 1/min
Diameter of sanding plate	150 mm
Oscillating diameter, 1st gear/2nd gear	2.8/6.2 mm
Weight of machine	2.2 kg
Cable length	4 m

Art. no. 0702 129 0

P. Qty.: 1



Eccentric disc-type sander ETS 150-E COMPACT

Small, handy random orbital sander designed for sanding work on wood, metal and coatings

- The small size makes it easy to operate and enables efficient working.
- The oscillation can be adjusted as needed to suit each application.
- The comfortable, rubberised handle absorbs significant vibration.
- The 5-mm stroke of the random orbital sander removes a large amount of material in use.
- The brushless EC motor gives the machine a long service life and therefore ensures higher efficiency and lower maintenance requirements.

Nominal voltage	220 V/AC
Power input	350 W
Min./max. idle speed	4000-10000 rpm
Diameter of sanding plate	150 mm
Oscillating diameter	5 mm
Weight of machine	1.21 kg
Cable length	4 m

Art. no. 0702 124 0

P. Qty.: 1

Eccentric disc-type sander ETS 150-2.5-E COMPACT

Lightweight, powerful one-handed random orbital sander with 2.5 mm stroke; ideal for achieving a perfect surface finish on wood and metal



- Small dimensions for excellent handling and efficient processing
- Brushless EC motor ensures a long running time, greater efficiency and low maintenance efforts and costs
- Low-vibration operation and strong vibration absorption thanks to the rubberised, comfortable handle

Nominal voltage	230 V/AC
Power input	350 W
Min./max. idle speed	4000-10000 rpm
Diameter of sanding plate	150 mm
Oscillating diameter	2.5 mm
Weight of machine	1.21 kg
Cable length	4 m

Art. no. 5707 710 0

P. Qty.: 1

Straight grinder GSL 950-E POWER

The geared high-power model with long neck and planetary gear unit for machining surfaces.



- Planetary gear unit
- Easy tool change with spindle stop
- Lightweight collar design (conical shape)
- Removable rubber cap and additional handle
- Safety cut-out if the tool blocks
- Restart protection to prevent an accidental restart of the tool
- Thermal overload protection
- Insensitive to dust with coated field coil and winding protective grille
- Drive for flexible shaft
- Suitable for clamping frame

Nominal voltage	230 V/AC
Power input	950 W
Min./max. idle speed	2500-8700 rpm
Collet chuck diameter	6 mm
Weight of machine	2 kg
Cable length	4 m

Art. no. 0702 522 0

P. Qty.: 1



Straight grinder GSL 700-E

The universal tool with long neck for milling and grinding work.

- Easy tool change with spindle stop
- Lightweight collar design (conical shape)
- Removable rubber cap and additional handle
- Safety cut-out if the tool blocks
- Restart protection to prevent an accidental restart of the tool
- Thermal overload protection
- Insensitive to dust with coated field coil and winding protective grille
- Drive for flexible shaft
- Suitable for clamping frame



Nominal voltage	230 V/AC
Power input	710 W
Min./max. idle speed	10000-30500 rpm
Collet chuck diameter	6 mm
Weight of machine	1.9 kg
Cable length	4 m

Art. no. 0702 521 0

P. Qty.: 1



Without planetary gear

Straight grinder GS 700-E

The high-power model, small and powerful

- Lightweight collar design
- Safety cut-out if the tool blocks
- Restart protection to prevent an accidental restart of the tool
- Thermal overload protection
- Insensitive to dust with coated field coil and winding protective grille



Nominal voltage	230 V/AC
Power input	710 W
Min./max. idle speed	13000-34000 rpm
Collet chuck diameter	6 mm
Weight of machine	1.7 kg
Cable length	4 m

Art. no. 0702 520 0

P. Qty.: 1



- No drive for flexible shaft
- No planetary gear

Polishing machine PM 200-E

Powerful polishing machine and calender in a compact and handy design

- With the corresponding accessories, the PM 200-E replaces a calender
- Minimal force needed when working side surfaces
- Double transmission reduction enables very low speed
- Soft start and restart protection (after power cuts)



Nominal voltage	230 V/AC
Power input	1200 W
Min./max. idle speed	900-2700 rpm
Max. polishing element diameter	200 mm
Thread type x spindle-thread diameter	M14
Weight of machine	2.5 kg
Cable length	4 m

Art. no. 0702 453 0

P. Qty.: 1

Support plate and polishing pad not included

Eccentric polishing machine EPM 160-E

Compact and high-performance, with 1,010 W motor and 8 mm polishing stroke for a high level of efficiency. Ideal for hologram-free polishing with permanent positive drive

- Accurate handling with dome grip. Ergonomically shaped bail handle can be unscrewed
- Soft start for slow, careful start of the machine without jerking or spraying polish
- Prevents unintentional start-ups after power cuts



Nominal voltage	230 V/AC
Power input	1010 W
Min./max. idle speed	160-480 rpm
Weight of machine	2.7 kg
Cable length	4 m
Min./max. idle stroke speed	3200-9600 rpm

Art. no. 5707 500 0

P. Qty.: 1

Polishing machine Automotive EPM 14-200-E

Powerful 1450 W automotive polishing machine ideal for removing scratches

- Thermal overload protection
- Restarting protection
- Overload protection



Nominal voltage	230 V/AC
Power input	1450 W
Min./max. idle speed	490-2100 rpm
Max. polishing element diameter	200 mm
Thread type x spindle-thread diameter	M14
Weight of machine	2.3 kg
Cable length	6 m

Art. no. 5707 510 0

P. Qty.: 1

Electrical orbital sander ESS 115-2

With universal clamping system for fastening Velcro sandpaper with dimensions of 230 x 115 mm and 10-hole perforation, and for clamping sandpaper without an adhesion system

- Low-vibration and long-lasting oscillation system
- Universal clamping system permits the use of sandpaper with and without Velcro
- Use of abrasives up to 10 mm thick
- Integrated dust extractor
- Additional extraction with side extraction channels on the Velcro abrasive pad
- Universal extraction connection with fluting



Nominal voltage	230 V/AC
Power input	350 W
Min./max. idle speed	4200-9200 rpm
Min./max. idle orbital rate	8400-18400 1/min
Grinding surface length x grinding surface width	230 x 115 mm
Oscillating diameter	2.2 mm
Weight of machine	2.7 kg
Cable length	4 m

Art. no. 5707 700 0

P. Qty.: 1

Harmful dusts (e.g. sawdust and paint dust) must be extracted by a vacuum cleaner with dust class M approval. The industrial wet and dry vacuum cleaner ISS 45-M automatic, Art. no. 07011460 is suitable for extracting such dusts.



Battery-powered angle grinder EWS 28-A

Powerful battery-powered angle grinder with lithium-ion technology. Battery capacity can be selected freely thanks to PICK YOUR POWER.

- Lithium-ion technology
- Charge status display on the battery
- One-handed operation possible
- Overload and restart protection
- Spindle lock and Fixtec quick-clamping nut
- Suitable for Ø 125 mm discs

Nominal voltage	28 V/DC
Max. idle speed	9000 rpm
Max. cutting disc diameter.	125 mm
Weight of machine without rechargeable battery	1.8 kg

Included in delivery (Lieferumfang)	Rechargeable battery/battery capacity	Art. no.	P. Qty.
Batteries not included; with additional accessories		0700 237 04	1
2 x 3 Ah batteries; with additional accessories	3 Ah	0700 237 4	1

Sheet metal nibbler EK 16-E

Powerful nibbler with high cutting speed for universal use.



- Very slim gear head for optimum ease of handling
- Quick-release system for straightforward stamp and die replacement
- Tool-free rotation of the die holder enables cutting direction to be variably adjusted in 45° increments by 360°
- Electronic stroke rate adjustment
- Rotating round stamp prolongs service life by up to 30% and reduces operating costs
- Chip protection grille on ventilation slots

Nominal voltage	230 V/AC
Power input	350 W
Min./max. idle stroke speed	0-1500 rpm
Max. cutting capacity in sheet metal (400 N/mm ²)	1.6 mm
Cutting speed	1.9 m/min
Cutting lane width	5 mm
Weight of machine	1.8 kg
Cable length	5 m

Art. no. 0702 717 2

P. Qty.: 1



Compressor Solid 24 L oil-free

Oil-free, robust piston compressor for flexible use

- Oil-free piston compressor
- Additional manometer
- Adjustable working pressure through pressure reducer with manometer

Type description	SOLID24-OILFREE
Motor output	1.5 kW
Max. pressure	8 bar
Tank capacity	24 l
Intake air capacity	220 l/min
Filling capacity	120 l/min
Supply air quantity at 80 % of max. pressure	100 l/min
Oil-free operation	Yes
Nominal voltage	230 V/AC
Frequency	50 Hz
IP protection class	IP 20
Rotation speed	2850 rpm
Min./max. temperature conditions	5 to 40 °C
Cable length	1.5 m
Length x width x height	630 x 406 x 630 mm
Number of cylinders	1 PCS

Continuation **Compressor Solid 24 L oil-free**

Number of quick-action couplings	1 PCS
Sound-pressure level	82 dB
Weight of machine	24 kg

Art. no. 0701 223 0

P. Qty.: 1

Compressor Compact 20 L oil-free

Oil-free, compact piston compressor for flexible use in interior fitting and on construction sites using the mounting and transport facilities of the large system case.



- Oil-free piston compressor
- All components are installed in a sturdy, compact tubular frame
- Equipped with two strong lifting eyes
- Additional manometer
- Adjustable working pressure through pressure reducer with manometer
- High-quality pressure switch with relief valve
- Robust wheels and variable pull/carry handle (trolley function) for convenient transport
- Rubber feet for secure footing
- Cable can be wound up
- Integrated overload protection

Type description	COMPACT20-OILFREE
Motor output	1.7 kW
Max. pressure	10 bar
Tank capacity	20 l
Intake air capacity	280 l/min
Filling capacity	150 l/min
Supply air quantity at 80 % of max. pressure	140 l/min
Oil-free operation	Yes
Nominal voltage	230 V/AC
Frequency	50 Hz
IP protection class	IP 20
Rotation speed	2850 rpm
Min./max. temperature conditions	0 to 40 °C
Cable length	4 m
Length x width x height	580 x 600 x 500 mm
Number of cylinders	1 PCS
Number of quick-action couplings	2 PCS
Sound-pressure level	82.5 dB
Weight of machine	40 kg

Art. no. 0701 224 0

P. Qty.: 1

Not approved for use in medicine, foodstuff processing or for filling breathing apparatus. Observe the safety notices in the operating instructions. The device has been prototype tested.

Compressor Power 50 L

Powerful, robust V-belt piston compressor for flexible applications within the workshop

- Adjustable working pressure and good air quality thanks to filter pressure reducer with manometer and oil mister
- Built-in overload protection
- High manoeuvrability and secure footing due to steering rollers with locking brake



Type description	POWER50L
Motor output	2.2 kW
Max. pressure	10 bar
Tank capacity	50 l
Intake air capacity	393 l/min
Filling capacity	300 l/min
Supply air quantity at 80 % of max. pressure	255 l/min
Oil-free operation	No
Nominal voltage	230 V/AC
Frequency	50 Hz
IP protection class	IP 44
Rotation speed	1050 rpm
Min./max. temperature conditions	5 to 40 °C
Cable length	1.5 m
Length x width x height	1050 x 410 x 817 mm
Number of cylinders	2 PCS
Number of quick-action couplings	3 PCS
Sound-pressure level	86 dB
Weight of machine	73 kg

Art. no. 0701 225 0

P. Qty.: 1

Not approved for use in medicine, foodstuff processing or for filling breathing apparatus. Observe the safety notices in the operating instructions. The device has been prototype tested.

Agitating basket DLX

For soft and pourable compounds

- Splash-free mixing
- No clumps form
- Mixing effect from top to bottom

Length	590 mm
Basket diameter	120 mm
Min./max. amount of material that can be agitated	15-30 kg
Suitable for machine chuck	M14

Art. no. 0713 95 140

P. Qty.: 1



Electrical plate shears EB 13-2

Lightweight, handy electrical plate shears for sheet steel up to 1.3 mm thick.

- Low curve radius and free field of view on templates
- High cutting speed
- Burr-free cutting
- High level of safety

Nominal voltage	230 V/AC
Power input	300 W
Min./max. idle stroke speed	0-3900 rpm
Max. cutting capacity in sheet metal	1.3 mm
Cutting speed	9 m/min
Min. curve radius	145 mm
Weight of machine	1.6 kg
Cable length	4 m

Art. no. 0702 713 0

P. Qty.: 1



Multi-cutter EMS 350-SL COMPACT

Very compact, low-vibration 350 Watt multi-cutter with innovative Starlock-Plus tool holder for better torque transmission

- Innovative Starlock Plus chuck ensures better torque transfer, compatible with all Starlock and Starlock Plus accessories
- Electronic speed control
- Anti-vibration system offers maximum operating comfort
- Convenient quick-action clamping system
- Accessories set including suction device

Nominal voltage	220 V/AC
Power input	350 W



Min./max. idle orbital rate	10000-19500 1/min
Oscillation stroke	3.4 Degree
Tool holding device	Starlock Plus
Weight of machine	1.4 kg
Cable length	5 m

Art. no. 5706 101 1

P. Qty.: 1

Multi-cutters EMS 450-SL POWER

Very strong, low-vibration 450 Watt multi-cutter with innovative Starlock-Max tool holder for better torque transmission

- Quick-In quick-action clamping system
- Starlock Max tool chuck is suitable for all existing Starlock accessories
- Anti-vibration system
- Infinitely adjustable speed
- Tacho generator for optimum consistency under load
- Long 4.0° oscillation stroke for fast removal and fast cutting



Nominal voltage	220 V/AC
Power input	450 W
Min./max. idle orbital rate	10000-19500 1/min
Oscillation stroke	4 Degree
Tool holding device	Starlock Max
Weight of machine	1600 g
Cable length	5 m

Art. no. 5706 102 1

P. Qty.: 1

Multi-cutter EMS 450 1.7 Compact

Extremely powerful multi-cutter with quick-action clamping system specially designed for the automotive sector.

- Anti-vibration system reduces vibrations by up to 70 %
- Metal gears ensure durability and long service life
- 450 W motor is permanently secure and overload-proof, with infinitely variable speed control



Nominal voltage	230 V/AC
Power input	450 W
Min./max. idle orbital rate	10000-19500 1/min
Oscillation stroke	3.4 Degree
Tool holding device	Quick-change holder
Weight of machine	1650 g
Cable length	5 m

Continuation **Multi-cutter EMS 450 1.7 Compact**

Art. no. 5706 103 1

P. Qty.: 1

Diamond tile cutting machine WAC 90

Professional, low-noise, stainless-steel diamond tile cutting machine with integrated water cooling system allow for a maximum cutting length of up to 90 cm.

- High-quality materials and robust design
- Flexible adjustment options for cutting height and cutting angle
- Sturdy carrying handles at front and rear, large wheels on rear support feet

Nominal voltage	230 V/AC
Power input	1500 W
Min./max. idle speed	0-2800 rpm
Max. cutting length	900 mm
Max. cutting depth	50 mm
Max. cutting disc diameter.	250 mm
Drill hole	25.4 mm
Weight of machine	52 kg
Cable length	3 m



Art. no. 0701 409 2

P. Qty.: 1

Diamond tile cutting machine WAC 120

Professional, low-noise, stainless-steel diamond tile cutting machine with integrated water cooling system allow for a maximum cutting length of up to 120 cm.

- High-quality materials and robust design
- Flexible adjustment options for cutting height and cutting angle
- Sturdy carrying handles at front and rear, large wheels on rear support feet

Nominal voltage	230 V/AC
Power input	1500 W
Min./max. idle speed	0-2800 rpm
Max. cutting length	1200 mm
Max. cutting depth	50 mm
Max. cutting disc diameter.	250 mm
Drill hole	25.4 mm
Weight of machine	62 kg
Cable length	3 m



Art. no. 0701 401 2

P. Qty.: 1

Angle grinder EWS 7-115 Basic

Powerful 720 W angle grinder with a 115 mm protective cover and restart protection. Ideal for simple grinding and cutting.



- Restart protection
- Lightweight and handy
- Small drive head
- The specially developed air vents cool the motor down optimally
- Automatic cut-off carbon brushes
- Twist-proof protective hood

Nominal voltage	230 V/AC
Power input	720 W
Max. idle speed	11000 rpm
Max. cutting disc diameter.	115 mm
Thread type x spindle-thread diameter	M14
Weight of machine	1.8 kg
Cable length	4 m

Art. no. 5707 011 0

P. Qty.: 1

Angle grinder EWS 8-115 Light-S

Handy 850 Watt angle grinder with small grip circumference. Ideal for thin cuts and fine grinding



- Restart protection after power failure
- Small grip circumference
- Powerful motor with good overload capability

Nominal voltage	230 V/AC
Power input	850 W
Max. idle speed	11.5 rpm
Max. cutting disc diameter.	115 mm
Thread type x spindle-thread diameter	M14
Weight of machine	1.8 kg
Cable length	4 m

Art. no. 5707 014 0

P. Qty.: 1

Quick-clamping nut Fixtec

Tool-free changing of abrasives for angle grinders. Tightened and released by hand

- For angle grinders up to max. Ø 150 mm with standard M14 spindle thread
- The quick-clamping nut can also be released with face wrench, if necessary
- Holes are located below the clip
- Use suitable face wrench



Diameter	49 mm
Height	9 mm

Art. no. 0702 480 900

P. Qty.: 1

Once the clamping flange and separating or roughing wheel are mounted, the free grinding spindle length must be at least 3 mm.

Quick-clamping nut Jacobs

Tool-free changing of abrasives for angle grinders. Tightened and released by hand

- For angle grinders with 180–230 mm diameter and standard M14 spindle thread
- Patented clamping system design practically rules out the risk of jams during heavy-duty work



Diameter	47 mm
Height	12.5 mm

Art. no. 0702 489 900

P. Qty.: 1

Once the clamping flange and separating or roughing wheel are mounted, the free grinding spindle length must be at least 10 mm.

Extractor hood WSA 125 for angle grinder

Permits almost dust-free operation.

- Simple assembly
- Grind close to walls
- Brush ring and optimised flow channel for almost dust-free grinding
- Consistently high extraction rates
- Dust extraction connection Ø 35/41 mm



Diameter	125 mm
Height	80 mm
Suitable machines	Würth EWS 14-125 EQ Universal, Würth EWS 17-125 Q Power, Würth EWS 12-125 Solid, Würth EWS 10-125 Compact, Würth EWS 12-125 T Solid
Weight	0.3 kg

Art. no. 5707 000 107

P. Qty.: 1

Angle grinder EWS 14-125 INOX

1400 watt, handy angle grinder for grinding and roughing work with stainless steel.

- High torque in mid and low speed range
- 3x winding protection against metal dusts
- Optimal speed adjustment with the constant electronics



Nominal voltage	230 V/AC
Power input	1400 W
Max. idle speed	7500 rpm
Max. cutting disc diameter.	125 mm
Thread type x spindle-thread diameter	M14
Weight of machine	2.4 kg
Cable length	4 m
Functions	Constant electronics
Min./max. idle speed	2100-7500 rpm

Art. no. 0702 478 0

P. Qty.: 1

Angle grinder EWS 12-125-T Solid

Reliable 1,200-watt angle grinder demonstrates impressive robustness, endurance and an additional anti-vibration handle. Ideal for intensive work with high safety requirements.

- Deadman's switch
- Recoil protection
- Quick-adjustment protective hood



Nominal voltage	230 V/AC
Power input	1200 W
Max. idle speed	11000 rpm
Max. cutting disc diameter.	125 mm
Thread type x spindle-thread diameter	M14
Weight of machine	2.4 kg
Cable length	4 m
Functions	Anti-vibration system, Recoil protection, Dead man's switch, Quickly adjustable cover

Art. no. 5707 004 3

P. Qty.: 1

Flat-head angle grinder FKWS 9-125

Solution for hard-to-reach places, especially in grinding operations at acute angles up to 43°.



- Compact design with ultra flat drive head
- Constant electronics
- Restart protection
- Electronic overload protection and soft start
- Electronic safety shutdown
- Quick-release nut and quick adjustment safety guard

Nominal voltage	230 V/AC
Power input	910 W
Max. idle speed	10000 rpm
Max. cutting disc diameter.	125 mm
Thread type x spindle-thread diameter	M14
Weight of machine	2.1 kg
Cable length	4 m
Functions	Constant electronics, Restarting protection, Overloading protection, Quick clamping system (Fixtec), Soft start, Recoil protection
Min./max. idle speed	0-10000 rpm

Art. no. 5707 000 2

P. Qty.: 1

Angle grinder EWS 12-125 SOLID

1,200 watt, powerful and robust angle grinder with anti-vibration handle for fast working progress and long service life. Ideal for continuous intense rough machining and cutting work



- Restart protection
- Recoil protection
- Quickly adjustable protective cover

Nominal voltage	230 V/AC
Power input	1200 W
Max. idle speed	11000 rpm
Max. cutting disc diameter.	125 mm
Thread type x spindle-thread diameter	M14
Weight of machine	2.4 kg
Cable length	4 m
Functions	Anti-vibration system, Restarting protection, Recoil protection, Overloading protection
Min./max. idle speed	0-11000 rpm

Art. no. 5707 040 0

P. Qty.: 1

Angle grinder EWS 7-125-E Basic

Extremely easy-to-handle 720-watt angle grinder with speed control and a 125-mm protective hood. Ideal for light grinding and cutting work.



- Recoil and restart protection
- Direct motor cooling
- Small gear head

Nominal voltage	230 V/AC
Power input	720 W
Max. idle speed	11000 rpm
Max. cutting disc diameter.	125 mm
Thread type x spindle-thread diameter	M14
Weight of machine	1.8 kg
Cable length	4 m
Functions	Restarting protection, Overloading protection, Speed electronics
Min./max. idle speed	2800-11000 rpm

Art. no. 5707 013 0

P. Qty.: 1

If you are using a 115-mm protective hood, 115-mm grinding wheels and cutting discs can also be used.

Angle grinder EWS 10-125-E COMPACT

Compact 1,000-watt angle grinder with ideal balance of power and ergonomics. Ideal for light- to medium-duty grinding and cutting work, such as deburring



- 6-stage speed regulation with constant electronics
- Recoil/restart/overload protection and soft start
- Quick-adjustable protective hood

Nominal voltage	230 V/AC
Power input	1000 W
Max. idle speed	11000 rpm
Max. cutting disc diameter.	125 mm
Thread type x spindle-thread diameter	M14
Weight of machine	2.1 kg
Cable length	4 m
Functions	Speed electronics, Speed adjustment wheel, Restarting protection, Soft start, Recoil protection, Overloading protection, Constant electronics, Quickly adjustable cover
Min./max. idle speed	2800-11000 rpm

Art. no. 5707 030 0

P. Qty.: 1



Angle grinder EWS 17-125-EQ POWER

Powerful 1,700-watt angle grinder with good handling, fast material removal and maximum productivity. Ideal for heavy-duty roughing and cutting work

- 6-stage speed regulation with constant electronics
- Recoil/restart/overload protection as well as soft start
- Quick-action nut „Q-Nut“, quick-adjustment protective hood

Nominal voltage	230 V/AC
Power input	1700 W
Max. idle speed	11000 rpm
Max. cutting disc diameter.	125 mm
Thread type x spindle-thread diameter	M14
Weight of machine	2.6 kg
Cable length	4 m
Functions	Speed electronics, Speed adjustment wheel, Constant electronics, Recoil protection, Restarting protection, Soft start, Overloading protection, Quick clamping nut, Quickly adjustable cover, Anti-vibration system
Min./max. idle speed	2800-11000 rpm

Art. no. 5707 061 2

P. Qty.: 1

Two-hand angle grinder EWS 24-180

2400-watt angle grinder for disks with max. 180 mm diameter.

- Handle can be rotated in 90° steps
- Very slim housing
- Vibration damping on both handles
- Twist-resistant protective guard
- Kickback protection
- Overload indicator
- Restart protection
- Overload protection
- Soft start
- Optimised dust protection concept



Nominal voltage	230 V/AC
Frequency	50 Hz
Protection class	Protection class II/protective insulation
Power input	2400 W
Max. cutting disc diameter.	180 mm
Max. idle speed	8500 rpm
Thread type x spindle-thread diameter	M14
Weight of machine	5.7 kg
Cable length	4 m

Art. no. 0702 445 10

P. Qty.: 1

Two-hand angle grinder EWS 24-180-S

2400-watt angle grinder with quick-clamping nut, for discs with max. 180 mm diameter.

- Handle can be rotated in 90° steps
- Very slim housing
- Vibration damping on both handles
- Twist-resistant protective guard
- Kickback protection
- Overload indicator
- Restart protection
- Overload protection
- Soft start
- Optimised dust protection concept



Nominal voltage	230 V/AC
Frequency	50 Hz
Protection class	Protection class II/protective insulation
Power input	2400 W
Max. cutting disc diameter.	180 mm
Max. idle speed	8500 rpm
Thread type x spindle-thread diameter	M14

Continuation **Two-hand angle grinder EWS 24-180-S**

Weight of machine	5.7 kg
Cable length	4 m

Art. no. 0702 445 20

P. Qty.: 1

Two-hand angle grinder EWS 24-230

2400-watt angle grinder for disks with max. 230 mm diameter.

- Handle can be rotated in 90° steps
- Very slim housing
- Vibration damping on both handles
- Twist-resistant protective guard
- Kickback protection
- Overload indicator
- Restart protection
- Overload protection
- Soft start
- Optimised dust protection concept



Nominal voltage	230 V/AC
Power input	2400 W
Max. idle speed	6600 rpm
Max. cutting disc diameter.	230 mm
Thread type x spindle-thread diameter	M14
Weight of machine	5.8 kg
Cable length	4 m

Art. no. 0702 446 10

P. Qty.: 1

Two-hand angle grinder EWS 24-230-S

2400-watt angle grinder with quick-clamping nut, for discs with max. 230 mm diameter

- Handle can be turned in 90° increments
- Vibration damping on both handles
- With recoil, overload and restart protection



Nominal voltage	230 V/AC
Power input	2400 W
Max. idle speed	6600 rpm
Max. cutting disc diameter.	230 mm
Thread type x spindle-thread diameter	M14
Weight of machine	5.8 kg
Cable length	4 m

Art. no. 0702 446 20

P. Qty.: 1

Safety angle grinder SWS 26-230-T

Extremely powerful and safe angle grinder with long-lasting 2600 W motor, dead man's switch and run-out brake



- Electronic safety coupling
- Mechanical disc brake
- Dead man's switch with safety function

Nominal voltage	230 V/AC
Power input	2600 W
Max. idle speed	6600 rpm
Max. cutting disc diameter.	230 mm
Thread type x spindle-thread diameter	M14
Weight of machine	6.6 kg
Cable length	4 m

Art. no. 5707 090 0

P. Qty.: 1



Electrode manual welding inverter ESI 160

Digital electrode welding inverter. Your entry level device for all e-hand applications.

- MicorBoost technology facilitates the welding of all electrodes, including cellulose
- Switchable to TIG welding with ContacTIG ignition
- Optimal for assembly application thanks to IP23 and S sign

Marking: CE, S

Nominal voltage	230 V/AC
Weldable electrodes	1.5 - 4 mm
Weldable TIG welding rods	1 - 2.4 mm
Min./max. electrode welding current	10-150 A
Min./max. TIG welding current	15-160 A
ON time at max. current (40 °C)	30 %
Welding current at ED 100%	110 A
Welding current at ED 60%	120 A
Weldable material thickness	Steel up to 10 mm, TIG welding steel/stainless steel 1 - 6 mm, Copper 1 - 3 mm
Product weight (per item)	11824 g
Height	211 mm
Width	130 mm
Length	337 mm
IP protection class	IP 23

Art. no. 5952 000 162

P. Qty.: 1

Electrode manual welding inverter ESI 200

Small, powerful electrode welding inverter for all power jobs

- MicorBoost technology facilitates the welding of all electrodes, including cellulose
- Simple switching to electrode types
- 80 cm drop safety (min. 25 cm according to standard)
- Switchable to TIG welding with ContacTIG ignition
- Smooth and uniform arc (arc force regulation)
- No sticking of electrode (anti-stick system)
- Hot start
- Power supply (400 V) or generator - optimal welding properties, including with long wires or in the case of mains voltage fluctuations.
- Light and compact (5.5 kg at 200 A (30% ED))
- Optimal for assembly application thanks to IP23 and S sign



Nominal voltage	400 V/AC
Min./max. current	10-200 A
Weldable electrodes	1.5 - 5 mm
Weldable TIG welding rods	1 - 3.2 mm
Min./max. electrode welding current	10-200 A
Min./max. TIG welding current	15-200 A
ON time at max. current (40°C)	30 %
Welding current at ED 100%	130 A
Welding current at ED 60%	150 A
Weldable material thickness	Steel up to 10 mm, Steel/stainless steel 1-8 mm, Copper 1 - 3 mm
Product weight (per item)	6 kg
Height	211 mm
Width	130 mm
Length	337 mm
IP protection class	IP 23

Art. no. 5952 000 202

P. Qty.: 1

Marking: CE, S

- Arc force: Increases the arc voltage in critical situations. Prevents slag from running into the molten bath and extinguishing the arc. As a result, even difficult-to-weld electrodes can be processed.
- Hot Start: Ensures reliable ignition of the electrode. The hot start energy is automatically adjusted to the selected welding current.
- Anti-stick: Prevents the electrode from sticking to the work piece by automatically reducing the current. As a result, the electrode does not glow out and evaporation of alloy elements is prevented.

Spare part documentation in accordance with (EU) 2019/1784 – Requirements for the ecological design of welding systems. The relevant documentation is stored in the Würth Parts Manager (<https://pm.wuerth.com/index.php>). For further questions, please contact the appropriate sales representative or product and application.

MIG/MAG welding system MM 350

Welding system with 4-roller wire feed unit for welding aluminium, steel and stainless steel welding wire

- Finely-adjustable switching mechanism using 2 x 12 level coarse/fine switches
- Overload protection
- Can be used for long periods thanks to fan cooling
- Automatic control of welding current, post-purge gas flow and spot welding time
- Wire feed automatically adjusts to the selected settings
- Can be switched between 2/4-cycle spot welding



Nominal voltage	400 V/AC
Weldable wires	Aluminium, diameter 0.8 - 1.6 mm, Steel/stainless steel, diameter 1 - 1.6 mm
Min./max. current	25-350 A
ON time at max. current (40°C)	30 %
Cable length	5 m
Weight of machine	104 kg
Equipped wire diameter	1 mm
Width	390 mm
Height	690 mm
Length	830 mm
Main fuse	25A

Art. no. 5952 352 350

P. Qty.: 1

Standard value for flow rate in l/min: Wire dia. x 10 = l/min

A conversion of PTFE seams on the hose pack is required for processing aluminium and stainless steel welding wires

- Aluminium torch set 098430005
- Stainless steel torch set 098430006
- Stainless steel torch set 098430007

Spare part documentation in accordance with (EU) 2019/1784 – Requirements for the ecological design of welding systems. The relevant documentation is stored in the Würth Parts Manager (<https://pm.wuerth.com/index.php>). For further questions, please contact the appropriate sales representative or product and application.



MIG/MAG welding system MM 230

Welding system with 2-roller wire feed unit for welding aluminium, steel and stainless steel welding wire.

- Adjustable switching mechanism using step switch with 7 levels
- Automatic control of welding current, post-purge gas flow and spot welding time
- Wire feed automatically adjusts to the selected level

Nominal voltage	400 V/AC
Weldable wires	Aluminium, diameter 1 - 1.2 mm, Steel, diameter 0.6-1 mm
Min./max. current	30-230 A
ON time at max. current (40°C)	20 %
Cable length	3 m
Weight of machine	66 kg
Equipped wire diameter	1 mm
Wire feed roll for stainless steel	1 mm
Wire feed roll for steel	0.8 mm

Art. no. 0702 352 0

P. Qty.: 1

TIG welding system 180DC

The compact professional device, extremely easy to control and preset welding parameters facilitate your professional introduction into TIG welding.



- Touch-free HF ignition possible via push button, switchable to conventional contact ignition
- Switchable to electrode welding
- Tungsten electrode and seam are optimally protected against oxidation thanks to automatic gas management
- Fan standby function, modern performance electronics
- Two welding jobs per electrode and TIG can be stored
- Special coating of PCB
- Light and compact (6.5 kg at 180 A (30% ED))
- Optimal for assembly application thanks to IP23 and S sign
- 80 cm drop safety (min. 25 cm according to standard)

Nominal voltage	230 V/AC
Weldable electrodes	1.5 - 4 mm
Weldable TIG welding rods	1 - 3.2 mm
Min./max. electrode welding current	10-150 A
Min./max. TIG welding current	15-180 A
ON time at max. current (40°C)	30 %
Welding current at ED 100%	130 A
Welding current at ED 60%	150 A
Weldable material thickness	Copper 1 - 3 mm, Steel up to 10 mm, TIG welding steel/stainless steel 1 - 6 mm
Product weight (per item)	16700 g
Height	211 mm
Width	130 mm
Length	337 mm
IP protection class	IP 23

Art. no. 5952 000 182

P. Qty.: 1

Marking: CE, S

- Arc force: Increases the arc voltage in critical situations. Prevents slag from running into the molten bath and extinguishing the arc. As a result, even difficult-to-weld electrodes can be processed.
- Hot Start: Ensures reliable ignition of the electrode. The hot start energy is automatically adjusted to the selected welding current.
- Anti-stick: Prevents the electrode from sticking to the work piece by automatically reducing the current. As a result, the electrode does not glow out and evaporation of alloy elements is prevented.

Spare part documentation in accordance with (EU) 2019/1784 – Requirements for the ecological design of welding systems. The relevant documentation is stored in the Würth Parts Manager (<https://pm.wuerth.com/index.php>). For further questions, please contact the appropriate sales representative or product and application.

WIG welding system 180 AC/DC

Easy to operate WIG full professional system. Whether on a construction site or in the workshop, you enjoy the full convenience of the system.

- Aluminium welding also possible with AC/DC
- Touch-free HF ignition possible via push button, switchable to conventional contact ignition
- Switchable to electrode welding
- Tungsten electrode and seam are optimally protected against oxidation thanks to automatic gas management
- Fan standby function, modern performance electronics
- Two welding jobs per electrode and TIG can be stored
- Special coating of PCB
- Light and compact (13.3 kg at 180 A (35% ED))
- Optimal for assembly application thanks to IP23 and S sign
- 60 cm drop safety (min. 25 cm according to standard)



Nominal voltage	230 V/AC
Weldable electrodes	1.5 - 4 mm
Weldable TIG welding rods	1 - 3.2 mm
Min./max. electrode welding current	10-150 A
Min./max. TIG welding current	3-180 A
ON time at max. current (40°C)	35 %
Welding current at ED 100%	130 A
Welding current at ED 60%	150 A
Weldable material thickness	Aluminium 1 - 5 mm, Copper 1 - 3 mm, Steel up to 10 mm, Steel/stainless steel 1-8 mm
Product weight (per item)	13.3 kg
Height	390 mm
Width	191 mm
Length	493 mm
IP protection class	IP 23

Art. no. 5952 000 181

P. Qty.: 1

Marking: CE, S

Spare part documentation in accordance with (EU) 2019/1784 – Requirements for the ecological design of welding systems. The relevant documentation is stored in the Würth Parts Manager (<https://pm.wuerth.com/index.php>). For further questions, please contact the appropriate sales representative or product and application.

Pneumatic application gun Juniorfix

Powerful and lightweight pneumatic application gun for applying products in cartridges. Ideally suited for adhesives and sealants with high and low viscosities.

- Lightweight, compact and ergonomic design
- Rotary pressure controller on handle for slow and fast extrusion
- Damper on quick-trigger valve
- Fully enclosed housing



Suitable for	310 ml cartridge
Flow capacity	7.2 l/min
Length	238 mm
Connection thread	1/4 inch
Weight of machine	0.47 kg

Art. no. 0703 891 310

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

The average consumption for pneumatic application guns is approx. 7.2 litres/minute.

Caution: The maximum working pressure for applying sealants is 6 bar.

Pneumatic application gun Druckfix

Powerful and lightweight pneumatic application gun for applying products in bag goods. Ideally suited for adhesives and sealants with high and low viscosities.

- Lightweight, compact and ergonomic design
- Rotary pressure controller on handle for slow and fast extrusion
- Damper on quick-trigger valve ensures optimum movement
- Fully enclosed housing



Suitable for	300/600 ml bag
Flow capacity	7.2 l/min
Length	445 mm
Connection thread	1/4 inch
Weight of machine	0.95 kg

Art. no. 0703 891 600

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Please consider the legal instruction at the beginning of this chapter.

The average consumption for pneumatic application guns is approx. 7.2 litres/minute. Caution: The maximum working pressure for applying sealants is 6 bar.

Pneumatic cartridge gun Kombifix

For 310-ml cartridges

- Automatically reduces the mains pressure to 7-bar working pressure
- Infinitely and finely adjustable
- The amount of spraying air and material can each be regulated individually
- Two-step trigger
- Material feed via telescopic cylinder makes ingress of compressed air into the cartridge impossible
- Scope of delivery includes:
 - 10 plastic nozzles for sprayable seam sealant
 - 1 union nut for sprayable seam sealant
 - 1 union nut for standard sealing compounds
 - 1 connecting nipple, 1/4 inch



Suitable for	310 ml cartridge
Length	350 mm

Art. no. 0891 628 6

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Please consider the legal instruction at the beginning of this chapter.

The average consumption for pneumatic application guns is approx. 7.2 litres/minute. – Caution: The maximum working pressure for applying sealants with this pistol is 7 bar.

Cordless grease gun FP 12-A

Sturdy and handy cordless grease gun for lubricating lubrication points.

- High working pressure enables application of all standard greases
- Can be used for cartridges and bags as well as other types of container
- Li-ion battery pack for a long working time per battery charge



Nominal voltage	12 V/DC
Rechargeable battery/battery capacity	3 Ah
Max. working pressure	562 bar
Capacity with cartridge	411 g
Max. hose pressure	690 bar
Weight of machine with rechargeable battery	3.3 kg
Included in delivery (Lieferumfang)	Carrying bag

Art. no. 5700 200 1

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Please consider the legal instruction at the beginning of this chapter.

Filing neck required for filling using grease filler item no. 098602.

Cordless application gun AKP 18-600 M-CUBE

Powerful 18 V application gun that Würth developed to meet the needs of tradespeople.

- Avoids motor blockages with hardened material
- Prevents dripping by momentarily decoupling the push rod
- Speed control for optimum application speed



Type description	AKP 18-600
Nominal voltage	18 V/DC
Pressing force	5000 N
Weight of machine with rechargeable battery	2.3 kg

Number of rechargeable batteries/batteries	Rechargeable battery/battery capacity	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
0 PCS	0 Ah	Batteries not included; additional accessories not included	5701 410 000	1
2 PCS	2 Ah	With 2 x 2 Ah batteries; additional accessories not included	5701 410 004	1

Hot glue gun HKP 300-E

Powerful hot glue gun, ideal for all installation, repair, fixing and decoration work

- Quick to heat up
- Stroke limit
- Ergonomic trigger



Nominal voltage	230 V/AC
Power input	300 W
Min./max. melting temperature	120 to 230 °C
Min./max. flow rate per weight	1-1.5 kg/h
Weight of machine	600 g
Cable length	2.4 m

Art. no. 5707 200 1

P. Qty.: 1

Thermo tacker WTG 40

For simple, cost-effective repairs to plastic parts.

- Suitable for practically all types of plastic.
- Weather-resistant repairs, since the staples to be applied are stainless.
- Low power consumption of max. 40 W



Length	180 mm
Width	90 mm
Height	90 mm
Power input	40 W
Max. temperature conditions	500 °C
Nominal voltage	230 V/AC

Art. no. 0702 206 0

P. Qty.: 1



07

ORSY SYSTEM AND WORKSHOP EQUIPMENT

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ORSY® BULL drawer box Series 5

Ideal for your tools and small parts. Arrangement possible with partition elements and system inserts. Drawers are available with central locking and individual latch.

- Simply stack the boxes up and lock them in place using the clever coupling mechanism
- Extremely robust thanks to impact-resistant sides made from high-quality plastic
- Non-deforming and corrosion-free
- The boxes can hold up to 100 kg
- Large, ergonomically shaped handles for high user comfort
- Special sliding mechanism for easy locking and unlocking
- Each box can be secured with a lock (included in delivery)

Load capacity of drawer	25 kg
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Width x depth x height (external dimension)	Number of drawers	Drawer design	Product weight (per item)	Art. no.	P. Qty.
592 x 390 x 203 mm	1 PCS	1 drawer, W 480 x D 335 x H 125 mm	7000 g	0962 330 040	1
592 x 390 x 203 mm	2 PCS	2 drawers, W 480 x D 335 x H 62 mm	9010 g	0962 330 041	1
592 x 390 x 400 mm	3 PCS	1 drawer, W 480 x D 335 x H 62 mm, 2 drawers, W 480 x D 335 x H 125 mm	13620 g	0962 330 043	1
592 x 390 x 400 mm	4 PCS	3 drawers, W 480 x D 335 x H 62 mm, 1 drawer, W 480 x D 335 x H 125 mm	15387 g	0962 330 044	1
592 x 390 x 400 mm	5 PCS	5 drawers, W 480 x D 335 x H 62 mm	15400 g	0962 330 042	1

ORSY® BULL drawer box Series 7

Ideal for your tools and small parts. Arrangement possible with partition elements and system inserts. Drawers are available with central locking and individual latch.



- Simply stack the boxes up and lock them firmly in place using the ingenious coupling mechanism
- Non-deforming and corrosion-free
- The boxes can hold up to 100 kg

ORSY

Load capacity of drawer	25 kg
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Width x depth x height (external dimension)	Number of drawers	Drawer design	Product weight (per item)	Art. no.	P. Qty.
792 x 390 x 203 mm	2 PCS	2 drawers, W 677 x D 335 x H 62 mm	10200 g	0962 330 051	1
792 x 390 x 400 mm	3 PCS	1 drawer, W 677 x D 335 x H 62 mm, 2 drawers, W 677 x D 335 x H 125 mm	17800 g	0962 330 053	1
792 x 390 x 400 mm	4 PCS	3 drawers, W 677 x D 335 x H 62 mm, 1 drawer, W 677 x D 335 x H 125 mm	19200 g	0962 330 054	1
792 x 390 x 400 mm	5 PCS	5 drawers, W 677 x D 335 x H 62 mm	21002 g	0962 330 052	1

ORSY®BULL front loader box Series 7

A sturdy all-rounder, ideal for storage at home, in the workshop or the office

- Simply stack the boxes up and lock them in place using the clever coupling mechanism.
- Extremely sturdy thanks to impact-resistant sides made from high-quality plastic. Non-deforming and corrosion-free. The boxes can hold up to 100 kg.
- Each box can be secured with a lock to prevent others from accessing the contents.



ORSY

Width x depth x height (external dimension)	792 x 390 x 400 mm
Width x depth x height (internal dimension)	695 x 334 x 343 mm
Contents	93 l

Art. no. 0962 330 024

P. Qty.: 1

ORSY®BULL front loader box Series 5

A sturdy all-rounder, ideal for storage at home, in the workshop or the office

- Simply stack the boxes up and lock them in place using the clever coupling mechanism.
- Extremely sturdy thanks to impact-resistant sides made from high-quality plastic. Non-deforming and corrosion-free. The boxes can hold up to 100 kg.
- Each box can be secured with a lock to prevent others from accessing the contents.



ORSY

Width x depth x height (external dimension)	592 x 390 x 400 mm
Width x depth x height (internal dimension)	495 x 334 x 343 mm
Contents	67 l
Weight	7 kg

Art. no. 0962 330 022

P. Qty.: 1

ORSY®BULL front loader combination box Series 5

Transportation and tool box for greater orderliness and clarity, combining front loader and drawers

- Simply stack the boxes up and lock them firmly in place using the ingenious coupling mechanism
- The boxes can hold up to 100 kg.
- Every box is fitted with a lock (included in scope of delivery) to prevent access to the contents.



ORSY

Width x depth x height (external dimension)	592 x 390 x 400 mm
Number of drawers	2 PCS

Width x depth x height (internal dimension of drawer)	480 x 335 x 62 mm
Load capacity of drawer	25 kg
Product weight (per item)	12553 g

Art. no. 0962 330 064

P. Qty.: 1

ORSY® BULL front loader combination box Series 7

Transportation and tool box for greater orderliness and clarity, combining front loader and drawers

- Simply stack the boxes up and lock them firmly in place using the ingenious coupling mechanism
- The boxes can hold up to 100 kg.
- Every box is fitted with a lock (included in scope of delivery) to prevent access to the contents.



ORSY

Width x depth x height (external dimension)	792 x 390 x 400 mm
Number of drawers	2 PCS
Width x depth x height (internal dimension of drawer)	679 x 335 x 62 mm
Load capacity of drawer	25 kg
Product weight (per item)	14000 g

Art. no. 0962 330 074

P. Qty.: 1



ORSY®BULL top loader combination box Series 5

Transportation and tool box for greater orderliness and clarity, combining top loader and drawers

- Simply stack the boxes up and lock them firmly in place using the ingenious coupling mechanism
- The boxes can hold up to 100 kg.
- Every box is fitted with a lock (included in scope of delivery) to prevent access to the contents.



Width x depth x height (external dimension)	592 x 390 x 400 mm
Compartment width x compartment depth x compartment height	495 x 334 x 190 mm
Load capacity of drawer	25 kg

Number of drawers	Width x depth x height (internal dimension of drawer)	Product weight (per item)	Art. no.	P. Qty.
1 PCS	480 x 335 x 125 mm	5500 g	0962 330 061	1
2 PCS	480 x 335 x 62 mm	6000 g	0962 330 062	1

ORSY®BULL top loader combination box Series 7

Transportation and tool box for greater orderliness and clarity, combining top loader and drawers

- Simply stack the boxes up and lock them firmly in place using the ingenious coupling mechanism
- The boxes can hold up to 100 kg.
- Every box is fitted with a lock (included in scope of delivery) to prevent access to the contents.



ORSY

Width x depth x height (external dimension)	792 x 390 x 400 mm
Compartment width x compartment depth x compartment height	695 x 334 x 190 mm
Number of drawers	2 PCS
Width x depth x height (internal dimension of drawer)	677 x 335 x 62 mm
Load capacity of drawer	25 kg
Product weight (per item)	5000 g

Art. no. 0962 330 072

P. Qty.: 1

ORSY®BULL workbench Series 5

Ideal combination of drawer box, front loader and a worktop for use as a workbench

- Simply stack the boxes up and lock them in place using the clever coupling mechanism
- Extremely robust thanks to impact-resistant sides made from high-quality plastic that is also non-deforming and corrosion-free. The boxes can hold up to 100 kg, and the lid of the top loader box can bear a load of up to 120 kg.
- Large, ergonomically shaped handles for high user comfort – no painful cutting into the user's hands
- Easy to latch and unlatch owing to special slide mechanism
- Each box can be secured with a lock (included in the scope of delivery for drawer cabinet boxes and combination boxes) to prevent others from accessing the contents



ORSY

Number of drawers	5 PCS
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Art. no. 0962 330 131

P. Qty.: 1

ORSY®BULL workshop cart Series 7

A sturdy, flexible and extremely mobile all-rounder, combining an ORSY®BULL front loader and drawer box, and a worktop and cart

- Simply stack the boxes up and lock them in place using the clever coupling mechanism
- Extremely robust thanks to impact-resistant sides made from high-quality plastic that is also non-deforming and corrosion-free. The boxes can hold up to 100 kg.
- Large, ergonomically shaped handles for user comfort – no painful cutting into the user's hand.
- Easy to lock and unlock thanks to a special sliding mechanism.
- Each box can be secured with a lock (included in scope of delivery) to prevent access to contents



ORSY

Number of drawers	3 PCS
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Art. no. 0962 330 141

P. Qty.: 1

ORSY®BULL workshop cart Series 5

A sturdy, flexible and extremely mobile all-rounder, combining an ORSY®BULL front loader and drawer box, and a worktop and cart

- Simply stack the boxes up and lock them in place using the clever coupling mechanism
- Extremely robust thanks to impact-resistant sides made from high-quality plastic that is also non-deforming and corrosion-free. The boxes can hold up to 100 kg.
- Large, ergonomically shaped handles for user comfort – no painful cutting into the user's hand.
- Easy to lock and unlock thanks to a special sliding mechanism.
- Each box can be secured with a lock (included in scope of delivery) to prevent access to contents



ORSY

Number of drawers	5 PCS
Width	610 mm
Depth	450 mm
Height	1150 mm

Art. no. 0962 330 111

P. Qty.: 1

ORSY®BULL top loader box Series 7

A sturdy, flexible and extremely mobile all-rounder, ideal for bulky items

- Simply stack the boxes up and lock them in place using the clever coupling mechanism.
- Extremely sturdy thanks to impact-resistant sides made from high-quality plastic. Non-deforming and corrosion-free. The boxes can hold up to 100 kg.
- Every box is fitted with a lock (included in scope of delivery) to prevent others from accessing the contents.



ORSY

Width x depth x height (external dimension)	Width x depth x height (internal dimension)	Contents	IP protection class	Product weight (per item)	Art. no.	P. Qty.
792 x 390 x 203 mm	728 x 366 x 150 mm	39 l		6000 g	0962 330 003	1
792 x 390 x 203 mm	728 x 366 x 150 mm	39 l	IP 54	6250 g	0962 330 013	1
792 x 390 x 400 mm	728 x 366 x 373 mm	93 l		8000 g	0962 330 004	1
792 x 390 x 400 mm	728 x 366 x 373 mm	93 l	IP 54	9978.6 g	0962 330 014	1

ORSY®BULL top loader Series 5

A sturdy, flexible and extremely mobile all-rounder, ideal for bulky items

- Boxes easily stack on top of one another and lock in place.
- Extremely sturdy thanks to impact-resistant sides made from high-quality plastic. Max. load of up to 100 kg.
- Each box can be secured with a lock to prevent others from accessing the contents.



ORSY

Width x depth x height (external dimension)	Width x depth x height (internal dimension)	Contents	IP protection class	Weight	Art. no.	P. Qty.
592 x 390 x 203 mm	495 x 334 x 147 mm	28 l		5.25 kg	0962 330 001	1
592 x 390 x 203 mm	495 x 334 x 147 mm	28 l	IP 54	5.25 kg	0962 330 011	1
592 x 390 x 400 mm	495 x 334 x 343 mm	67 l		7 kg	0962 330 002	1
592 x 390 x 400 mm	495 x 334 x 343 mm	67 l	IP 54	7 kg	0962 330 012	1

ORSY®BULL cart

Sturdy trolley for ORSY®BULL series 5 boxes

- Sturdy frame made from sheet steel
- Two fixed castors, two castors with locking brake
- Only use in connection with ORSY® BULL boxes



Design	Series 5
Width	610 mm
Depth	407 mm
Height	200 mm
Max. load capacity	225 kg

Art. no. 0962 330 622

P. Qty.: 1

ORSY®BULL cart

Sturdy trolley for ORSY®BULL series 7 boxes

- Sturdy frame made from sheet steel
- Two fixed castors, two castors with locking brake
- Features intelligent coupling system for locking boxes in place
- Only use in connection with ORSY® BULL boxes



Design	Series 7
Width	810 mm
Depth	407 mm
Height	200 mm
Max. load capacity	225 kg

Art. no. 0962 330 623

P. Qty.: 1

ORSY®BULL partition element basic set

For dividing the inside of ORSY®BULL drawer boxes

Aluminium, folded

Scope of delivery:

- 2 partition rails
 - 2 mounting rails
- (Requirement for attaching the partition rails)



ORSY

Number of pieces in assortment/set	4 PCS
Material	Aluminium

Design	Suitable for drawer height	Art. no.	P. Qty.
Drawer partition, series 5	62 mm	0962 330 510	1
Drawer partition, series 5	125 mm	0962 330 520	1
Drawer partition, series 7	62 mm	0962 330 515	1
Drawer partition, series 7	125 mm	0962 330 525	1

Contents for art. no. 0962 330 510		
Designation	Art. no.	Quantity
ORSY®BULL drawer partition rail Series 5/7 62 mm	0962 330 511	2
Contents for art. no. 0962 330 515		
Designation	Art. no.	Quantity
ORSY®BULL drawer partition rail Series 5/7 62 mm	0962 330 511	2
Contents for art. no. 0962 330 520		
Designation	Art. no.	Quantity
ORSY®BULL drawer partition rail Series 5/7 125 mm	0962 330 521	2
Contents for art. no. 0962 330 525		
Designation	Art. no.	Quantity
ORSY®BULL drawer partition rail Series 5/7 125 mm	0962 330 521	2

ORSY® BULL front loader series 5 box for system case with lid

Robust ORSY® BULL box with lid for the safe storage of three system cases 8.4.1 or 4.4.1

- Boxes easily stack on top of one another and lock in place.
- Extremely sturdy thanks to impact-resistant sides made from high-quality plastic. The boxes can hold up to 100 kg.
- Large, ergonomically shaped handles for high wearing comfort



Width x depth x height (external dimension)	592 x 390 x 400 mm
Material	Aluminium
Contents	67 l
System dimensions	8.4.1
Product weight (per item)	8700 g

ORSY®

Art. no. 0962 330 034

P. Qty.: 1

ORSY®BULL front loader series 5 box for system case

Robust ORSY® BULL without lid for safe storage of three system cases 8.4.1 or 4.4.1

- Boxes easily stack on top of one another and lock in place.
- Extremely sturdy thanks to impact-resistant sides made from high-quality plastic. Max. load of up to 100 kg.
- Large, ergonomically shaped handles for a high level of comfort - no cutting into the user's hand.



Width x depth x height (external dimension)	592 x 390 x 400 mm
Material	Aluminium
Contents	67 l
System dimensions	8.4.1
Product weight (per item)	8700 g

ORSY®

Art. no. 0962 330 030

P. Qty.: 1

ORSY® BULL box for system case with lid

Robust ORSY® BULL with lid for the safe storage of two system cases 8.4.2 or 4.4.2

- Boxes easily stack on top of one another and lock in place.
- Extremely sturdy thanks to impact-resistant sides made from high-quality plastic. The boxes can hold up to 100 kg.
- Large, ergonomically shaped handles for high wearing comfort.



ORSY

Width x depth x height (external dimension)	592 x 390 x 400 mm
Material	Aluminium
Contents	67 l
System dimensions	8.4.2
Product weight (per item)	8700 g

Art. no. 0962 330 035

P. Qty.: 1

ORSY® BULL Box front loader series 5 box for system case

Robust ORSY® BULL without lid for the safe storage of two system cases 8.4.2 or 4.4.2

- Boxes easily stack on top of one another and lock in place.
- Extremely sturdy thanks to impact-resistant sides made from high-quality plastic. The boxes can hold up to 100 kg.
- Large, ergonomically shaped handles for high wearing comfort



ORSY

Width x depth x height (external dimension)	592 x 390 x 400 mm
Material	Aluminium
Contents	67 l
System dimensions	8.4.2
Product weight (per item)	8098.6 g

Art. no. 0962 330 031

P. Qty.: 1

System storage box W-SLB

**Extremely robust storage box in a system concept.
Ideal for transport and storage.**

- Boxes are stackable without risk of slipping and lock together
- Different storage box sizes can be stacked on top of each other
- Large range of accessories



Material	PP - Polypropylene
Interior height (H1)	114 mm
Height (H2)	141 mm

Length x width x height	Type description	Colour	Internal length (L1)	Length (L2)	Art. no.	P. Qty.
234 x 158 x 141 mm	Size 1	Gentian blue RAL 5010	189 mm	234 mm	5581 220 000	1
234 x 158 x 141 mm	Size 1	Traffic grey B RAL 7043	189 mm	234 mm	5581 210 000	1
316 x 234 x 141 mm	Size 2	Gentian blue RAL 5010	272 mm	316 mm	5581 221 000	1
316 x 234 x 141 mm	Size 2	Traffic grey B RAL 7043	272 mm	316 mm	5581 211 000	1
468 x 158 x 141 mm	Size 4	Gentian blue RAL 5010	422 mm	468 mm	5581 223 000	1
468 x 158 x 141 mm	Size 4	Traffic grey B RAL 7043	422 mm	468 mm	5581 213 000	1
468 x 316 x 141 mm	Size 3	Gentian blue RAL 5010	422 mm	468 mm	5581 222 000	1
468 x 316 x 141 mm	Size 3	Traffic grey B RAL 7043	422 mm	468 mm	5581 212 000	1

System storage box with coupling function W-SLB

Extremely robust storage box in a system concept.

Ideal for transport and storage.

- Boxes are stackable without risk of slipping and lock together
- Different storage box sizes can be stacked on top of each other
- Wide range of accessories



Material	PP - Polypropylene
Interior height (H1)	114 mm
Height (H2)	141 mm

Type description	Length x width x height	Colour	Internal length (L1)	Length (L2)	Art. no.	P. Qty.
Size 1	234 x 158 x 141 mm	Gentian blue RAL 5010	189 mm	234 mm	5581 220 100	1
Size 1	234 x 158 x 141 mm	Traffic grey B RAL 7043	189 mm	234 mm	5581 210 100	1
Size 2	316 x 234 x 141 mm	Gentian blue RAL 5010	272 mm	316 mm	5581 221 100	1
Size 2	316 x 234 x 141 mm	Traffic grey B RAL 7043	272 mm	316 mm	5581 211 100	1
Size 3	468 x 158 x 141 mm	Traffic grey B RAL 7043	422 mm	468 mm	5581 213 100	1
Size 3	468 x 316 x 141 mm	Gentian blue RAL 5010	422 mm	468 mm	5581 222 100	1
Size 3	468 x 316 x 141 mm	Traffic grey B RAL 7043	422 mm	468 mm	5581 212 100	1
Size 4	468 x 158 x 141 mm	Gentian blue RAL 5010	422 mm	468 mm	5581 223 100	1

System insert, plastic, 8.4.1

A fixed compartment for orderly storage and retrieval of various small parts. Can be used in combination with other system partitions.



System dimensions	8.4.1
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Width x depth x height (external dimension)	Number of compartments	Art. no.	P. Qty.
	33 PCS	5581 003 500	1
463 x 235 x 54 mm	38 PCS	5581 003 501	1



System case empty range 4.4.1

Fitted with a system insert

Ideal for storing small parts that are transported or stored in the case.

System dimensions	4.4.1
Width x depth x height	370 x 270 x 85 mm

ORSY

Number of compartments	Art. no.	P. Qty.
2 PCS	5581 120 108	1
3 PCS	5581 120 100	1
4 PCS	5581 120 104	1
5 PCS	5581 120 101	1
6 PCS	5581 120 102	1
8 PCS	5581 120 105	1
12 PCS	5581 120 107	1
16 PCS	5581 120 106	1
18 PCS	5581 120 109	1
20 PCS	5581 120 103	1

System case empty range 4.4.1 transparent

Fitted with system boxes

Ideal for storing small parts that are transported or stored in the case.

System dimensions	4.4.1
Width x depth x height	370 x 270 x 85 mm



ORSY

Number of boxes	Art. no.	P. Qty.
2 PCS	5581 120 000	1
3 PCS	5581 120 001	1
11 PCS	5581 120 002	1

System case 4.4.2 empty range

Fitted with a system insert

Ideal for storing small parts that are transported or stored in the case.

System dimensions	4.4.2
Width x depth x height	370 x 270 x 140 mm



ORSY

Number of compartments	Art. no.	P. Qty.
2 PCS	5581 121 104	1
4 PCS	5581 121 100	1
8 PCS	5581 121 101	1

System case 4.4.2 transparent empty range

Fitted with system boxes

Ideal for storing small parts that are transported or stored in the case.

System dimensions	4.4.2
Width x depth x height	370 x 270 x 140 mm



ORSY

Number of boxes	Art. no.	P. Qty.
2 PCS	5581 121 000	1
3 PCS	5581 121 001	1

System case empty range 4.4.1 raster foam

Fitted with a pre-cut pattern foam insert

Ideal for individual division of the case

Every product has its place by releasing individual grid elements from the foam insert.

System dimensions	4.4.1
Width x depth x height	270 x 370 x 85 mm

Art. no. 5581 020 200

P. Qty.: 1



ORSY

System case empty range 4.4.2 raster foam

Fitted with a pre-cut pattern foam insert

Ideal for individual division of the case

Every product has its place by releasing individual grid elements from the foam insert.

System dimensions	4.4.2
Width x depth x height	270 x 370 x 140 mm

Art. no. 5581 021 200

P. Qty.: 1



ORSY

System case empty range 8.4.1

Fitted with two system inserts

Ideal for storing small parts that are transported or stored in the case.

System dimensions	8.4.1
Width x depth x height	500 x 380 x 85 mm
Product weight (per item)	2400 g



ORSY

Number of compartments	Art. no.	P. Qty.
6 PCS	5581 110 100	1
10 PCS	5581 110 101	1
8 PCS	5581 110 102	1
16 PCS	5581 110 103	1

Continuation **System case empty range 8.4.1**

Number of compartments	Art. no.	P. Qty.
32 PCS	5581 110 104	1
24 PCS	5581 110 105	1
4 PCS	5581 110 106	1
36 PCS	5581 110 107	1



System case empty range 8.4.1 transparent

Fitted with system boxes

Ideal for storing small parts that are transported or stored in the case.

System dimensions	8.4.1
Width x depth x height	500 x 380 x 85 mm



Number of boxes	Product weight (per item)	Art. no.	P. Qty.
4 PCS	2400 g	5581 110 000	1
4 PCS	2400 g	5581 110 003	1
10 PCS	2400 g	5581 110 001	1
10 PCS	2400 g	5581 110 004	1
15 PCS	3500 g	5581 110 005	1
16 PCS	2400 g	5581 110 002	1
22 PCS	3643 g	5581 110 006	1

System case 8.4.2 empty range

Fitted with two system inserts

Ideal for storing small parts that are transported or stored in the case.

System dimensions	8.4.2
Width x depth x height	500 x 380 x 140 mm
Product weight (per item)	3000 g



ORSY

Number of compartments	Art. no.	P. Qty.
4 PCS	5581 111 104	1
8 PCS	5581 111 100	1
16 PCS	5581 111 101	1

System case 8.4.2 transparent empty range

Fitted with system boxes

Ideal for storing small parts that are transported or stored in the case.

System dimensions	8.4.2
Width x depth x height	500 x 380 x 140 mm



ORSY

Number of boxes	Product weight (per item)	Art. no.	P. Qty.
4 PCS	3000 g	5581 111 000	1
4 PCS	3000 g	5581 111 002	1
12 PCS	4900 g	5581 111 001	1

System case empty range 8.4.1 raster foam

Fitted with two pre-cut pattern foam inserts

Ideal for individual division of the case

Every product has its place by releasing individual grid elements from the foam insert.

System dimensions	8.4.1
Width x depth x height	500 x 380 x 85 mm
Product weight (per item)	2350.6 g



Art. no. 5581 010 200

P. Qty.: 1

ORSY

System case 8.4.2 raster foam empty range

Fitted with two pre-cut pattern foam inserts

Ideal for individual division of the case

Every product has its place by releasing individual grid elements from the foam insert.

System dimensions	8.4.2
Width x depth x height	500 x 370 x 140 mm
Product weight (per item)	2500 g

Art. no. 5581 011 200

P. Qty.: 1



System insert, plastic, 4.4.1

A fixed compartment for orderly storage and retrieval of various small parts. Can be used in combination with other system dividers.

System dimensions	4.4.1
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Width x depth x height (external dimension)	Number of compartments	Compartment width x compartment depth x compartment height	Art. no.	P. Qty.
332 x 228.3 x 26.2 mm	18 PCS		5581 003 018	1
335 x 231 x 27.2 mm	7 PCS		5581 003 007	1
335 x 231.25 x 54 mm	4 PCS	100 x 155 x 52 mm	5581 003 000	1
335 x 231.25 x 54 mm	8 PCS	78 x 107 x 52 mm	5581 003 001	1
335 x 231.25 x 54 mm	16 PCS	52 x 78 x 52 mm	5581 003 002	1
335 x 231.25 x 54 mm	12 PCS	100 x 48 x 52 mm	5581 003 003	1
335 x 231.25 x 54 mm	2 PCS	159 x 219 x 52 mm	5581 003 004	1
335 x 231.25 x 54 mm	3 PCS	315 x 62 x 52 mm	5581 003 010	1
335 x 231.25 x 54 mm	5 PCS	55 x 210 x 52 mm	5581 003 011	1
335 x 231.25 x 54 mm	18 PCS	51 x 70 x 52 mm	5581 003 017	1
335 x 231.25 x 54 mm	6 PCS		5581 003 020	1
335 x 231.25 x 54 mm	20 PCS		5581 003 021	1

Two system inserts fit into system case 8.4.1

Not compatible with transparent lid!

System insert, plastic, 4.4.2

A fixed compartment for orderly storage and retrieval of various small parts. Can be used in combination with other system dividers.

System dimensions	4.4.2
Width x depth x height (external dimension)	335 x 231.25 x 108 mm



Continuation **System insert, plastic, 4.4.2**

Number of compartments	Compartment width x compartment depth x compartment height	Art. no.	P. Qty.
2 PCS	159 x 219 x 106 mm	5581 003 104	1
4 PCS	100 x 155 x 106 mm	5581 003 100	1
8 PCS	78 x 107 x 106 mm	5581 003 101	1

Not compatible with transparent lid!

System insert, raster foam

Pluck out the foam cubes to fit around items



ORSY

System dimensions	Width x depth x height (external dimension)	Art. no.	P. Qty.
4.4.1	231.25 x 335 x 53 mm	5581 004 900	1
4.4.2	231.25 x 335 x 106 mm	5581 004 901	1
8.4.3	465.5 x 335 x 156 mm	5581 004 904	1

Plastic partition element for system insert

**For individual division in the plastic system inserts.
Ideal for orderly storage and retrieval of small parts**

Width x depth x height (external dimension)	60 x 2.5 x 55 mm
Design	5-fold

Art. no. 5581 003 015

P. Qty.: 5



ORSY

System box

A variable compartment for orderly storage and retrieval of various small parts. The system boxes can be combined individually with all system dividers.

- Further individually adjustable thanks to partition elements
- Can also be used on workshop walls or mounting stations
- Simple identification of box contents



Material	ABS
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ORSY

System dimensions	Colour	Width	Depth	Height	Art. no.	P. Qty.
1.1.1	Red	57 mm	82 mm	55 mm	5581 035 001	1
2.1.1	Red	114 mm	82 mm	55 mm	5581 035 002	1
2.2.1	Red	114 mm	167 mm	55 mm	5581 035 003	1
2.4.1	Red	114 mm	334 mm	55 mm	5581 035 012	1
1.1.1	Dark grey	57 mm	82 mm	55 mm	5581 035 101	1
8.1.1	Red	462 mm	82 mm	55 mm	5581 035 011	1
2.1.1	Dark grey	114 mm	82 mm	55 mm	5581 035 102	1
2.2.1	Dark grey	114 mm	167 mm	55 mm	5581 035 103	1
8.1.1	Dark grey	462 mm	82 mm	55 mm	5581 035 111	1
2.4.1	Dark grey	114 mm	334 mm	55 mm	5581 035 112	1
2.1.2	Red	114 mm	82 mm	110 mm	5581 036 002	1
2.2.2	Red	114 mm	167 mm	110 mm	5581 036 003	1
8.1.2	Red	462 mm	82 mm	110 mm	5581 036 011	1
2.4.2	Red	114 mm	334 mm	110 mm	5581 036 012	1
2.1.2	Dark grey	114 mm	82 mm	110 mm	5581 036 102	1
2.2.2	Dark grey	114 mm	167 mm	110 mm	5581 036 103	1
8.1.2	Dark grey	462 mm	82 mm	110 mm	5581 036 111	1
2.4.2	Dark grey	114 mm	334 mm	110 mm	5581 036 112	1

System box separating element

For individual division in system boxes

Ideal for orderly storage and retrieval of small parts



ORSY

System dimensions	Width x depth x height (external dimension)	Art. no.	P. Qty.
x.1.1	70 x 8 x 45 mm	5581 035 020	4
x.1.2	70 x 8 x 98 mm	5581 036 020	4
2.x.1	110 x 15 x 45 mm	5581 035 021	4
2.x.2	110 x 15 x 98 mm	5581 036 021	4
x.1.1	70 x 8 x 45 mm	5581 035 120	4
x.1.2	70 x 8 x 98 mm	5581 036 120	4
2.x.1	110 x 15 x 45 mm	5581 035 121	4
2.x.2	110 x 15 x 98 mm	5581 036 121	4

System plate with Isofix connection

For the safe transport of system cases in the car

Easy mounting of the device in the car

Attached via Isofix with a single click

- Cases are easily stacked on top of each other (max. 4)
- Max. Load: 25k



Width x depth x height	570 x 405 x 120 mm
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Continuation **System plate with Isofix connection**

Art. no. 5581 038 100

P. Qty.: 1

System suspension rail

For mounting system boxes

- Capable of bearing loads of up to 25 kg (depending on the fastenings)
- Customisation to existing assembly situation
- Flexible attachment of suspension rail



ORSY

Surface	Powder-coated
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Width x depth x height	Art. no.	P. Qty.
495 x 20 x 35 mm	5581 039 001	1
990 x 20 x 35 mm	5581 039 002	1

System case 8.4.1

Ideal for flexible storage of small parts, machines and tools used with consumables

- Compatible and flexible thanks to grid dimensions
- Easily combine several cases
- With a number of practical functional elements
- High user comfort



ORSY

System dimensions	8.4.1
Width x depth x height (external dimension)	500 x 380 x 85 mm
Width x depth x height (internal dimension)	462.5 x 335 x 54 mm
Material	ABS

Art. no. 5581 010 000

P. Qty.: 1

System case 8.4.1 transparent

Ideal for flexible storage of small parts, machines and tools used with consumables

- Perfect overview thanks to transparent lid
- Compatible and flexible thanks to grid dimensions
- Easily combine several cases
- With a number of functional elements
- Easy to carry



ORSY

System dimensions	8.4.1
Width x depth x height (external dimension)	500 x 380 x 85 mm

Width x depth x height (internal dimension)	462.5 x 335 x 54 mm
Material	ABS/PC

Art. no. 5581 010 500

P. Qty.: 1

Transparent lid does not go with System insert, plastic, 4.4.1 and System insert, plastic, 4.4.2

System case 8.4.2

Ideal for flexible storage of small parts, machines and tools used with consumables

- Compatible and flexible thanks to grid dimensions
- Easily combine several cases
- With a number of functional elements
- Easy to carry



ORSY

System dimensions	8.4.2
Width x depth x height (external dimension)	500 x 380 x 140 mm
Width x depth x height (internal dimension)	462.5 x 335 x 108 mm
Material	ABS

Art. no. 5581 011 000

P. Qty.: 1

System case 8.4.2 transparent

Ideal for flexible storage of small parts, machines and tools used with consumables

- Transparent lid gives a clear view of contents.
- Compatible and flexible thanks to grid dimensions
- Easily combine several cases and transport safely
- With a number of functional elements
- High user comfort
- The system case has been awarded the three most prestigious design awards:



ORSY

System dimensions	8.4.2
Width x depth x height (external dimension)	500 x 380 x 140 mm
Width x depth x height (internal dimension)	462.5 x 335 x 108 mm
Material	ABS/PC

Art. no. 5581 011 500

P. Qty.: 1

Transparent lid does not go with System insert, plastic, 4.4.1 and System insert, plastic, 4.4.2

System case 8.4.3

Ideal for flexible storage of small parts, machines and tools used with consumables

- Compatible and flexible thanks to grid dimensions
- Integrated rail contour and coupling elements allow you to combine multiple cases and transport equipment safely.
- With a number of functional elements
- High user comfort



ORSY

System dimensions	8.4.3
Width x depth x height (external dimension)	500 x 380 x 195 mm
Width x depth x height (internal dimension)	462.5 x 335 x 162 mm
Material	ABS

Art. no. 5581 012 000

P. Qty.: 1

System case 4.4.1

Ideal for flexible storage of small parts, machines and tools used with consumables

- Compatible and flexible thanks to grid dimensions
- Easily combine several cases
- With a number of functional elements
- Easy to carry



ORSY

System dimensions	4.4.1
Width x depth x height (external dimension)	370 x 270 x 85 mm
Width x depth x height (internal dimension)	335 x 231.25 x 54 mm
Material	ABS

Art. no. 5581 020 000

P. Qty.: 1

System case 4.4.1 transparent

Ideal for flexible storage of small parts, machines and tools used with consumables

- Perfect overview thanks to transparent lid
- Compatible and flexible thanks to grid dimensions
- Easily combine several cases
- With a number of functional elements
- Easy to carry



ORSY

System dimensions	4.4.1
Width x depth x height (external dimension)	370 x 270 x 85 mm
Width x depth x height (internal dimension)	335 x 231.25 x 54 mm
Material	ABS/PC

Art. no. 5581 020 500

P. Qty.: 1

Transparent lid does not go with System insert, plastic, 4.4.1 and System insert, plastic, 4.4.2

System case 4.4.2

Ideal for flexible storage of small parts, machines and tools used with consumables

- Compatible and flexible thanks to grid dimensions
- Easily combine several cases
- With a number of functional elements
- Easy to carry

System dimensions	4.4.2
Width x depth x height (external dimension)	370 x 270 x 140 mm
Width x depth x height (internal dimension)	335 x 231.25 x 108 mm
Material	ABS



ORSY

Art. no. 5581 021 000

P. Qty.: 1

System case 4.4.2 transparent

Ideal for flexible storage of small parts, machines and tools used with consumables

- Perfect overview thanks to transparent lid
- Compatible and flexible thanks to grid dimensions
- Easily combine several cases
- With a number of functional elements
- Easy to carry

System dimensions	4.4.2
Width x depth x height (external dimension)	370 x 270 x 140 mm
Width x depth x height (internal dimension)	335 x 231.25 x 108 mm
Material	ABS/PC



ORSY

Art. no. 5581 021 500

P. Qty.: 1

Transparent lid does not go with System insert, plastic, 4.4.1 and System insert, plastic, 4.4.2

System stacking cabinet for ORSY system case 8.4.2

Organisation system consisting of stackable modules for 3 ORSY system cases that can also be screwed into each other



- Ball-bearing-mounted telescopic extensions
- Load per tray: 20 kg
- Side panels and rear panel with square perforation for accessories from perforated panel range
- Stacking knobs
- Central locking with two keys
- Colour: graphite black (RAL 9011)
- Material: Sheet steel
- Powder-coated

Width x depth x height	580 x 455 x 490 mm
Number of keys	2 PCS
Number of drawers	3 PCS
Surface	Powder-coated

Art. no. 5581 040 003

P. Qty.: 1

Supplied without case

System stacking cabinet for ORSY system case 4.4.1

Organisation system consisting of stackable modules for 5 ORSY system cases that can also be screwed into each other



- Ball-bearing-mounted telescopic extensions
- Load per tray: 20 kg
- Side panels and rear panel with square perforation for accessories from perforated panel range
- Stacking knobs
- Central locking with two keys
- Colour: graphite black (RAL 9011)
- Material: Sheet steel
- Powder-coated

Width x depth x height	455 x 290 x 490 mm
Number of keys	2 PCS
Number of drawers	5 PCS
Surface	Powder-coated

Art. no. 5581 040 000

P. Qty.: 1

Supplied without case

System stacking cabinet for ORSY system case 8.4.1

Organisation system consisting of stackable modules for 5 ORSY system cases that can also be screwed into each other

- Ball-bearing-mounted telescopic extensions
- Load per tray: 20 kg
- Side panels and rear panel with square perforation for accessories from perforated panel range
- Stacking knobs
- Central locking with two keys
- Colour: graphite black (RAL 9011)
- Material: Sheet steel
- Powder-coated



Width x depth x height	580 x 455 x 490 mm
Number of keys	2 PCS
Number of drawers	5 PCS
Surface	Powder-coated

Art. no. 5581 040 002

P. Qty.: 1

Supplied without case

System stacking cabinet for ORSY system case 8.4.3

To store 2 ORSY system cases 8.4.3

- Ball-bearing-mounted pull-out compartments
- Load per tray: 20 kg
- Stacking cabinets can be stacked and bolted together
- Hole pattern for wall assembly available ex works
- Side walls with square perforation for accessories from hole grid range
- Central locking with two keys
- Colour: graphite black (RAL 9011)
- Powder-coated



Width x depth x height	580 x 455 x 490 mm
Number of keys	2 PCS
Number of drawers	2 PCS
Surface	Powder-coated

Art. no. 5581 040 004

P. Qty.: 1

Supplied without case.

Assortment case ORSY® 100

The optimum small, handy system for clear storage and provision of various small parts. Can be adapted to your needs and applications.

- Height 55 mm
- High impact strength, extremely robust and impact-resistant
- Two-component handle for comfortable carrying
- Large base feet for secure position
- Stacking nubs facilitate storage and transport
- Secure and sturdy hinge connection
- Simple snap lock with double closure thanks to integrated locking lugs



ORSY

Width	336 mm
Depth	245 mm
Height	55 mm
Material	ABS
Design	Without pad

Art. no. 0955 150

P. Qty.: 1

Plug screws, ASSY®-D/ZEBRA Shark WZ-X® nylon dowel assortment

1000 pieces in system case. Zinc-plated steel, blue passivated (A2K), AW drive.

Art. no. 5964 015 101

P. Qty.: 1



ORSY

Contents for art. no. 5964 015 101

Designation	Art. no.	Quantity
ASSY® D Plug screw 4,0 x 40 mm	0151 020 403	100
ASSY® D Plug screw 3,5 x 40 mm	0151 023 503	200
ASSY® D Plug screw 4,5 x 50 mm	0151 024 505	100
ASSY® D Plug screw 4,5 x 60 mm	0151 024 507	100
Plastic anchor ZEBRA Shark W-ZX® 3 - 4 mm		300
Plastic anchor ZEBRA Shark W-ZX® 4 - 5 mm		200
System insert, plastic, 4.4.1 8-fach	5581 003 001	1
System case 4.4.1	5581 020 000	1



Metal cavity anchor W-MH assortment

201 pieces in system case 4.4.1. Metal cavity anchor range including hand assembly pliers

- Anchor for fastening in gypsum plasterboard and panels, hard fibre panels, cavity brick ceilings and hollow body ceilings

System dimensions	4.4.1
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Art. no. 5964 090 300

P. Qty.: 1

Contents for art. no. 5964 090 300		
Designation	Art. no.	Quantity
Manual mounting pliers	0903 20	1
Metal cavity anchor W-MH/L pan head screw M4 x 47 mm	0903 524 40	100
Metal cavity anchor W-MH/L pan head screw M5 x 49 mm	0903 525 37	50
Metal cavity anchor W-MH/L pan head screw M6 x 49 mm	0903 526 37	50
System case 4.4.1	5581 020 000	1
System box 2.4.1	5581 035 012	2
System box separating element		3
Cavity anchor W-MH 201 pieces SOKO		

Thin-walled heat-shrink hose assortment

130 pieces, in system case 4.4.1. Shrink rate 2:1 without internal adhesive

System dimensions	4.4.1
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Art. no. 5964 077 100

P. Qty.: 1



ORSY

Contents for art. no. 5964 077 100		
Designation	Art. no.	Quantity
Thin-walled heat-shrink hose Black; Diameter 2.4 mm	0771 002 40	20
Thin-walled heat-shrink hose Black; Diameter 3.2 mm	0771 003 20	20
Thin-walled heat-shrink hose Black; Diameter 4.8 mm	0771 004 80	20
Thin-walled heat-shrink hose Black; Diameter 6.4 mm	0771 006 40	20
Thin-walled heat-shrink hose Black; Diameter 9.5 mm	0771 009 50	20
Thin-walled heat-shrink hose Black; Diameter 12.7 mm	0771 012 70	10
Thin-walled heat-shrink hose Black; Diameter 19.0 mm	0771 019 00	10
Thin-walled heat-shrink hose Black; Diameter 25.4 mm	0771 025 40	10
System insert, plastic, 4.4.1	5581 003 001	1
System case 4.4.1	5581 020 000	1

UL 224



Heat-shrink crimp connector assortment

180 pieces in system case 4.4.1

- Semi-transparent heat-shrink tubing for straightforward visual monitoring of the connection
- Time saved thanks to 40% faster shrinking process
- Low risk of damage to connector and cable insulation thanks to low shrinking temperature of +300°C

System dimensions	4.4.1
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Art. no. 5964 055 502

P. Qty.: 1



ORSY

High-end heat shrinkable crimp connectors, assortment

180 pieces in system case 4.4.1

System dimensions	4.4.1
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Art. no. 5964 055 508

P. Qty.: 1



ORSY

Insulated cable connector assortment

530 pieces in system case 4.4.1. For fine and very fine core copper conductors

For fine and finest stranded copper conductors

System dimensions	4.4.1
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Art. no. 5964 055 800

P. Qty.: 1



ORSY

Contents for art. no. 5964 055 800		
Designation	Art. no.	Quantity
Branch connector non-detachable 1-2.5 mm ² ; Blue	0555 564	20
Crimp cable lug, ring connector 0.5-1 mm ² ; Red	0558 901 1	25
Crimp cable lug, push connector 0.5-1 mm ² ; Red	0558 905 1	50
Crimp cable lug, push connector 1.5-2.5 mm ² ; Blue	0558 905 2	100
Crimp cable lug, push connector 4-6 mm ² ; Yellow	0558 905 4	50
Crimp cable lug, ring connector 1.5-2.5 mm ² ; Blue	0558 908 2	25
Crimp cable lug, ring connector 1.5-2.5 mm ² ; Blue	0558 909 2	25
Crimp cable lug, ring connector 1.5-2.5 mm ² ; Blue	0558 910 2	25
Crimp cable lug, ring connector 4-6 mm ² ; Yellow	0558 916 4	25
Crimp cable lug, butt connector 0.5-1 mm ² ; Red	0558 925 1	25
Crimp cable lug, butt connector 1.5-2.5 mm ² ; Blue	0558 926 2	25
Crimp cable lug, push connector including blade connector 1.5-2.5 mm ² ; Blue	0558 943 2	25
Crimp cable lug, blade connector 0.5-1 mm ² ; Red	0558 944 1	25
Crimp cable lug, blade connector 1.5-2.5 mm ² ; Blue	0558 945 2	25
Crimp cable lug, round connector 0.5-1 mm ² ; Red	0558 946 1	15
Crimp cable lug, blade connector, fully insulated 0.5-1 mm ² ; Red	0558 947 1	15
Crimp cable lug, round connector 1.5-2.5 mm ² ; Blue	0558 948 2	15
Crimp cable lug, blade connector, fully insulated 1.5-2.5 mm ² ; Blue	0558 949 2	15
System insert, plastic, 4.4.1	5581 003 010	1
Plastic partition element for system insert		15
System case 4.4.1	5581 020 000	1

Watertight plug housing TE Superseal 1.5 Series assortment

440 pieces in system case 4.4.1

System dimensions	4.4.1
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Art. no. 5964 055 501

P. Qty.: 1



ORSY

Contents for art. no. 5964 055 501		
Designation	Art. no.	Quantity
Waterproof pin housing Number of electrical poles 2 PCS	0555 102 2	4
Waterproof pin housing Number of electrical poles 3 PCS	0555 102 3	4
Waterproof pin housing Number of electrical poles 4 PCS	0555 102 4	4
Waterproof pin housing Number of electrical poles 5 PCS	0555 102 5	4
Waterproof pin housing Number of electrical poles 6 PCS	0555 102 6	4
Waterproof socket housing Number of electrical poles 2 PCS	0555 103 2	4
Waterproof socket housing Number of electrical poles 3 PCS	0555 103 3	4
Waterproof socket housing Number of electrical poles 4 PCS	0555 103 4	4
Waterproof socket housing Number of electrical poles 5 PCS	0555 103 5	4
Waterproof socket housing Number of electrical poles 6 PCS	0555 103 6	4
Single wire seal (SEAL) Min./max. diameter of insulation 1.7-2.4 mm	0558 991 41	100
Single wire seal (SEAL) Min./max. diameter of insulation 2.5-3.3 mm	0558 991 42	100
Flat connector MINI MIC SRS 1.5 0.75-1.5 mm ²	0558 995 81	100
Flat connector contact MINI MIC SRS 1.5 0.75-1.5 mm ²	0558 995 82	100
System insert, plastic, 4.4.1 16-fach	5581 003 002	1
System case 4.4.1	5581 020 000	1

Thread cutting tool set HSS M3-M12

44 pieces, in system case 8.4.1. Full assortment for the production of standard metric ISO threads of M3-M12 in steel up to 850 N/mm² strength, as well as in cast iron.

- Tools arranged based on their application and according to their diameter
- High-quality, laser-labelled foam insert

Number of pieces in assortment/set	44 PCS
Material	HSS



ORSY

Art. no. 5964 065 244

P. Qty.: 1



Thread cutting tool set HSS M3-M20

The complete assortment for producing M3-M20 standard metric ISO threads in steel up to 850 N/mm² strength and in cast iron.

- Tools arranged based on their application and according to their diameter
- High-quality, laser-labelled foam insert

Number of pieces in assortment/set	67 PCS
Material	HSS



Art. no. 5964 065 267

P. Qty.: 1

Contents for art. no. 5964 065 267		
Designation	Art. no.	Quantity
Manual screw tap, taper tap HSS, DIN 352 M3 x 0.5	0640 1 3	1
Manual screw tap, taper tap HSS, DIN 352 M4 x 0.7	0640 1 4	1
Manual screw tap, taper tap HSS, DIN 352 M5 x 0.8	0640 1 5	1
Manual screw tap, taper tap HSS, DIN 352 M6 x 1.0	0640 1 6	1
Manual screw tap, taper tap HSS, DIN 352 M8 x 1.25	0640 1 8	1
Manual screw tap, taper tap HSS, DIN 352 M10 x 1.5	0640 1 10	1
Manual screw tap, taper tap HSS, DIN 352 M12 x 1.75	0640 1 12	1
Manual screw tap, taper tap HSS, DIN 352 M14 x 2.0	0640 1 14	1
Manual screw tap, taper tap HSS, DIN 352 M16 x 2.0	0640 1 16	1

Continuation Thread cutting tool set HSS M3-M20

Designation	Art. no.	Quantity
Manual screw tap, taper tap HSS, DIN 352 M18 x 2.5	0640 1 18	1
Manual screw tap, taper tap HSS, DIN 352 M20 x 2.5	0640 1 20	1
Manual screw tap, second tap HSS, DIN 352 M3 x 0.5	0640 2 3	1
Manual screw tap, second tap HSS, DIN 352 M4 x 0.7	0640 2 4	1
Manual screw tap, second tap HSS, DIN 352 M5 x 0.8	0640 2 5	1
Manual screw tap, second tap HSS, DIN 352 M6 x 1.0	0640 2 6	1
Manual screw tap, second tap HSS, DIN 352 M8 x 1.25	0640 2 8	1
Manual screw tap, second tap HSS, DIN 352 M10 x 1.5	0640 2 10	1
Manual screw tap, second tap HSS, DIN 352 M12 x 1.75	0640 2 12	1
Manual screw tap, second tap HSS, DIN 352 M14 x 2.0	0640 2 14	1
Manual screw tap, second tap HSS, DIN 352 M16 x 2.0	0640 2 16	1
Manual screw tap, second tap HSS, DIN 352 M18 x 2.5	0640 2 18	1
Manual screw tap, second tap HSS, DIN 352 M20 x 2.5	0640 2 20	1
Manual screw tap, third tap HSS, DIN 352 M3 x 0.5	0640 3 3	1
Manual screw tap, third tap HSS, DIN 352 M4 x 0.7	0640 3 4	1
Manual screw tap, third tap HSS, DIN 352 M5 x 0.8	0640 3 5	1
Manual screw tap, third tap HSS, DIN 352 M6 x 1	0640 3 6	1
Manual screw tap, third tap HSS, DIN 352 M8 x 1.25	0640 3 8	1
Manual screw tap, third tap HSS, DIN 352 M10 x 1.5	0640 3 10	1
Manual screw tap, third tap HSS, DIN 352 M12 x 1.75	0640 3 12	1
Manual screw tap, third tap HSS, DIN 352 M14 x 2	0640 3 14	1
Manual screw tap, third tap HSS, DIN 352 M16 x 2	0640 3 16	1
Manual screw tap, third tap HSS, DIN 352 M18 x 2.5	0640 3 18	1
Manual screw tap, third tap HSS, DIN 352 M20 x 2.5	0640 3 20	1
Thread die HSS DIN EN 22568 for standard metric ISO threads M3 x 0.5	0652 3	1
Thread die HSS DIN EN 22568 for standard metric ISO threads M4 x 0.7	0652 4	1
Thread die HSS DIN EN 22568 for standard metric ISO threads M5 x 0.8	0652 5	1
Thread die HSS DIN EN 22568 for standard metric ISO threads M6 x 1.0	0652 6	1
Thread die HSS DIN EN 22568 for standard metric ISO threads M8 x 1.25	0652 8	1
Thread die HSS DIN EN 22568 for standard metric ISO threads M10 x 1.5	0652 10	1
Thread die HSS DIN EN 22568 for standard metric ISO threads M12 x 1.75	0652 12	1
Thread die HSS DIN EN 22568 for standard metric ISO threads M14 x 2.0	0652 14	1
Thread die HSS DIN EN 22568 for standard metric ISO threads M16 x 2.0	0652 16	1
Thread die HSS DIN EN 22568 for standard metric ISO threads M18 x 2.5	0652 18	1
Thread die HSS DIN EN 22568 for standard metric ISO threads M20 x 2.5	0652 20	1
Tap wrench DIN 1814 Performance, adjustable Suitable for min./max. square socket size 2-6.3 mm	0657 800 100	1
Tap wrench DIN 1814 Performance, adjustable Suitable for min./max. square socket size 3-9 mm	0657 800 200	1
Tap wrench DIN 1814 Performance, adjustable Suitable for min./max. square socket size 4.9-12 mm	0657 800 300	1
Die holder DIN EN 22568 Performance Internal diameter x height 20 x 5 mm	0659 800 100	1
Die holder DIN EN 22568 Performance Internal diameter x height 20 x 7 mm	0659 800 200	1
Die holder DIN EN 22568 Performance Internal diameter x height 25 x 9 mm	0659 800 300	1
Die holder DIN EN 22568 Performance Internal diameter x height 30 x 11 mm	0659 800 400	1
Die holder DIN EN 22568 Performance Internal diameter x height 38 x 14 mm	0659 800 500	1
Die holder DIN EN 22568 Performance Internal diameter x height 45 x 18 mm	0659 800 600	1
Twist drill bit HSS DIN 338 type RN 130° 2.5 mm	0624 000 250	1

Designation	Art. no.	Quantity
Twist drill bit HSS DIN 338 type RN 130° 3.3 mm	0624 000 330	1
Twist drill bit HSS DIN 338 type RN 130° 4.2 mm	0624 000 420	1
Twist drill bit HSS DIN 338 type RN 130° 5 mm	0624 000 500	1
Twist drill bit HSS DIN 338 type RN 130° 6.8 mm	0624 000 680	1
Twist drill bit HSS DIN 338 type RN 130° 8.5 mm	0624 000 850	1
Twist drill bit HSS DIN 338 type RN 130° 10.2 mm	0624 001 020	1
Twist drill bit HSS DIN 338 type RN 130° 12 mm	0624 001 200	1
Twist drill bit HSS DIN 338 type RN 130° 14 mm	0624 001 400	1
Twist drill bit HSS DIN 338 type RN 130° 15.5 mm	0624 001 550	1
Twist drill bit HSS DIN 338 type RN 130° 17.5 mm	0624 001 750	1
Tool holder with ratchet Suitable for Screw tap M3 - M8, square drive 2.4 -5.5 mm	0715 42 01	1
Tool holder with ratchet Suitable for Screw tap M5 - M12, square drive 4.5 -8 mm	0715 42 02	1
Slotted screwdriver 1 x 5.5 mm; Blade length 25 mm	0613 251 05	1
System insert, foam 8.4.1		1
System insert, foam 8.4.2		1
System case 8.4.2	5581 011 000	1

Wheeled workbench PRO

Heavy-duty wheeled workbench, versatile use, for tasks such as heavy-duty assembly jobs

- Robust sheet-steel construction, welded with multiple edging
- 40-mm bevelled worktop made from beech multiplex, water and oil-resistant thanks to colourless varnish
- Central locking system to protect contents from theft
- Aluminium handle with labelling strips and transparent cover
- Drawers with over 80% partial extension, mounted on roller bearings
- Built-in safety drawer lock prevents tipping
- Internal drawer dimensions (W x D): 437 x 587 mm
- Drawer load capacity: 100 kg with evenly distributed load
- Rows of slots and perforated base for inserting dividers
- Robust steering handle
- Two fixed castors and steering rollers with brake, Ø 200 mm



Width x height x depth	1200 x 835 x 700 mm
Colour of frame	Light grey RAL 7035
Load capacity	600 kg

Continuation **Wheeled workbench PRO**

Type description	Number of drawers	Drawer design	Colour of drawer	Art. no.	P. Qty.
PRO RWB 1/4	4 PCS	1 drawer, box height 40 mm/front height 60 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	Traffic red RAL 3020	0957 342 030	1
PRO RWB 1/4	4 PCS	1 drawer, box height 40 mm/front height 60 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	Gentian blue RAL 5010	0957 342 031	1
PRO RWB 1/4	4 PCS	1 drawer, box height 40 mm/front height 60 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	Light grey RAL 7035	0957 342 032	1
PRO RWB 1/4	4 PCS	1 drawer, box height 40 mm/front height 60 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	Traffic grey A RAL 7042	0957 342 034	1
PRO RWB 1/0		Without drawers		0957 342 024	1

Wheeled workbench BASIC RWB 2

Robust BASIC wheeled workbench with drawers for versatile, everyday use in the workshop.

- Robust sheet-steel construction, welded with multiple edges
- Chamfered worktop, 40 mm beech multiplex, plain varnish, making it resistant to water and oil
- Central locking system secures the contents against theft



Width x height x depth	1500 x 835 x 750 mm
Colour of frame	Light grey RAL 7035
Colour of drawer	Gentian blue RAL 5010
Load capacity	300 kg

Type description	Number of drawers	Drawer design	Art. no.	P. Qty.
BASIC RWB 2/6	6 PCS	6 drawers, box height 130 mm/front height 180 mm	0957 503 000	1
BASIC RWB 2/4	3 PCS	1 door, H 540 mm, 3 drawers, box height 130 mm/front height 180 mm	0957 503 005	1
BASIC RWB 2/3	3 PCS	3 drawers, box height 130 mm/front height 180 mm	0957 503 010	1

Folding workbench

Wooden board with angular, robust tubular iron frame

- Due to its high degree of stability, it is also excellently suited for vice work
- Low weight and small dimensions make it ideal for mobile applications such as customer service buses.



Material of the worktop	Wood
Colour	Red
Length (folded together)	700 mm
Width (folded together)	1200 mm
Height (folded together)	150 mm
Length (opened out)	700 mm
Width (opened out)	1200 mm
Height (opened out)	810 mm
Load capacity	200 kg

Art. no. 0715 93 10

P. Qty.: 1

Work table PRO

Heavy-duty, all-purpose workbench for assembly work for example

- Robust sheet steel construction, welded with multiple edges
- Working height: 840 mm
- Base powder-coated in light grey RAL 7035



Type description	PRO WT
Working height	840 mm
Colour of frame	Light grey RAL 7035
Load capacity	800 kg
Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished
Design	With plastic slider and leveller

Width x depth x height (external dimension)	Width x depth	Art. no.	P. Qty.
1500 x 750 x 840 mm	1500 x 750 mm	0957 313 115	1
2000 x 750 x 840 mm	2000 x 750 mm	0957 313 220	1

Workbenches and work tables from the Pro series are supplied pre-assembled. Customised variants must be assembled by the customer.

Workbench PRO WUSK

Robust workbench with PRO undercounter drawer box for storing tools and other working materials.

- Robust sheet steel construction, welded with multiple edges
- Closed underside of housing
- With levelling



Working height	840 mm
Colour of frame	Light grey RAL 7035
Load capacity	800 kg
Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished
Design	With plastic slider and leveller

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
PRO WUSK 1/2	1500 x 750 x 840 mm	1500 x 750 mm	2 PCS	1 drawer, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	0957 312 110	1
PRO WUSK 1/2	1500 x 750 x 840 mm	1500 x 750 mm	2 PCS	1 drawer, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	0957 312 111	1
PRO WUSK 1/2	1500 x 750 x 840 mm	1500 x 750 mm	2 PCS	1 drawer, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	0957 312 112	1
PRO WUSK 1/2	1500 x 750 x 840 mm	1500 x 750 mm	2 PCS	1 drawer, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	0957 312 114	1
PRO WUSK 1/2	2000 x 750 x 840 mm	2000 x 750 mm	2 PCS	1 drawer, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	0957 312 120	1

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
PRO WUSK 1/2	2000 x 750 x 840 mm	2000 x 750 mm	2 PCS	1 drawer, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	0957 312 121	1
PRO WUSK 1/2	2000 x 750 x 840 mm	2000 x 750 mm	2 PCS	1 drawer, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	0957 312 122	1
PRO WUSK 1/2	2000 x 750 x 840 mm	2000 x 750 mm	2 PCS	1 drawer, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	0957 312 124	1
PRO WUSK 1/3	1500 x 750 x 840 mm	1500 x 750 mm	3 PCS	1 drawer, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm	0957 312 210	1
PRO WUSK 1/3	1500 x 750 x 840 mm	1500 x 750 mm	3 PCS	1 drawer, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm	0957 312 211	1
PRO WUSK 1/3	1500 x 750 x 840 mm	1500 x 750 mm	3 PCS	1 drawer, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm	0957 312 212	1
PRO WUSK 1/3	1500 x 750 x 840 mm	1500 x 750 mm	3 PCS	1 drawer, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm	0957 312 214	1
PRO WUSK 1/3	2000 x 750 x 840 mm	2000 x 750 mm	3 PCS	1 drawer, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm	0957 312 220	1
PRO WUSK 1/3	2000 x 750 x 840 mm	2000 x 750 mm	3 PCS	1 drawer, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm	0957 312 221	1
PRO WUSK 1/3	2000 x 750 x 840 mm	2000 x 750 mm	3 PCS	1 drawer, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm	0957 312 222	1

Continuation **Workbench PRO WUSK**

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
PRO WUSK 1/3	2000 x 750 x 840 mm	2000 x 750 mm	3 PCS	1 drawer, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm	0957 312 224	1
PRO WUSK 1/4	1500 x 750 x 840 mm	1500 x 750 mm	4 PCS	2 drawers, box height 40 mm/ front height 60 mm, 1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm	0957 312 310	1
PRO WUSK 1/4	1500 x 750 x 840 mm	1500 x 750 mm	4 PCS	2 drawers, box height 40 mm/ front height 60 mm, 1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm	0957 312 311	1
PRO WUSK 1/4	1500 x 750 x 840 mm	1500 x 750 mm	4 PCS	2 drawers, box height 40 mm/ front height 60 mm, 1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm	0957 312 312	1
PRO WUSK 1/4	1500 x 750 x 840 mm	1500 x 750 mm	4 PCS	2 drawers, box height 40 mm/ front height 60 mm, 1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm	0957 312 314	1
PRO WUSK 1/4	2000 x 750 x 840 mm	2000 x 750 mm	4 PCS	2 drawers, box height 40 mm/ front height 60 mm, 1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm	0957 312 320	1

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
PRO WUSK 1/4	2000 x 750 x 840 mm	2000 x 750 mm	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	0957 312 321	1
PRO WUSK 1/4	2000 x 750 x 840 mm	2000 x 750 mm	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	0957 312 322	1
PRO WUSK 1/4	2000 x 750 x 840 mm	2000 x 750 mm	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	0957 312 324	1

Pro series workbenches and worktables come pre-assembled. Customised variants must be assembled by the customer.

Workbench PRO WUS 2

Robust workbench with two PRO undercounter cabinets for storing tools and other work materials.

- Robust sheet steel construction, welded with multiple edges
- Top and bottom of the housing are closed
- Central locking system secures the contents against theft



Width x depth x height (external dimension)	2000 x 750 x 840 mm
Width x depth	2000 x 750 mm
Working height	840 mm
Colour of frame	Light grey RAL 7035
Load capacity	800 kg
Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished
Design	With plastic slider and leveller

Continuation **Workbench PRO WUS 2**

Type description	Number of drawers	Drawer design	Colour of drawer	Art. no.	P. Qty.
PRO WUS 2/T6	6 PCS	1 door, H 540 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 150 mm, 3 drawers, box height 100 mm/front height 180 mm	Traffic red RAL 3020	0957 311 620	1
PRO WUS 2/T6	6 PCS	1 door, H 540 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 150 mm, 3 drawers, box height 100 mm/front height 180 mm	Gentian blue RAL 5010	0957 311 621	1
PRO WUS 2/T6	6 PCS	1 door, H 540 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 150 mm, 3 drawers, box height 100 mm/front height 180 mm	Light grey RAL 7035	0957 311 622	1
PRO WUS 2/T6	6 PCS	1 door, H 540 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 150 mm, 3 drawers, box height 100 mm/front height 180 mm	Traffic grey A RAL 7042	0957 311 624	1
PRO WUS 2/10	10 PCS	1 drawer, box height 100 mm/front height 360 mm, 2 drawers, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 150 mm, 5 drawers, box height 100 mm/front height 120 mm	Traffic red RAL 3020	0957 311 720	1

Type description	Number of drawers	Drawer design	Colour of drawer	Art. no.	P. Qty.
PRO WUS 2/10	10 PCS	1 drawer, box height 100 mm/ front height 360 mm, 2 drawers, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 150 mm, 5 drawers, box height 100 mm/ front height 120 mm	Gentian blue RAL 5010	0957 311 721	1
PRO WUS 2/10	10 PCS	1 drawer, box height 100 mm/ front height 360 mm, 2 drawers, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 150 mm, 5 drawers, box height 100 mm/ front height 120 mm	Light grey RAL 7035	0957 311 722	1
PRO WUS 2/10	10 PCS	1 drawer, box height 100 mm/ front height 360 mm, 2 drawers, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 150 mm, 5 drawers, box height 100 mm/ front height 120 mm	Traffic grey A RAL 7042	0957 311 724	1

Workbenches and work tables from the Pro series are supplied pre-assembled. Customised variants must be assembled by the customer.

Workbench PRO WUS 1

Robust workbench with PRO undercounter cabinet for storing tools and other work materials.

- Robust sheet steel construction, welded with multiple edges
- Top and bottom of the housing are closed
- Central locking system secures the contents against theft



Working height	840 mm
Colour of frame	Light grey RAL 7035
Load capacity	800 kg
Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished
Design	With plastic slider and leveller

Continuation **Workbench PRO WUS 1**

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
PRO WUS 1/0	1500 x 750 x 840 mm	1500 x 750 mm		1 door, H 720 mm, 1 fixed shelf	0957 311 110	1
PRO WUS 1/0	1500 x 750 x 840 mm	1500 x 750 mm		1 door, H 720 mm, 1 fixed shelf	0957 311 111	1
PRO WUS 1/0	1500 x 750 x 840 mm	1500 x 750 mm		1 door, H 720 mm, 1 fixed shelf	0957 311 112	1
PRO WUS 1/0	1500 x 750 x 840 mm	1500 x 750 mm		1 door, H 720 mm, 1 fixed shelf	0957 311 114	1
PRO WUS 1/0	2000 x 750 x 840 mm	2000 x 750 mm		1 door, H 720 mm, 1 fixed shelf	0957 311 120	1
PRO WUS 1/0	2000 x 750 x 840 mm	2000 x 750 mm		1 door, H 720 mm, 1 fixed shelf	0957 311 121	1
PRO WUS 1/0	2000 x 750 x 840 mm	2000 x 750 mm		1 door, H 720 mm, 1 fixed shelf	0957 311 122	1
PRO WUS 1/0	2000 x 750 x 840 mm	2000 x 750 mm		1 door, H 720 mm, 1 fixed shelf	0957 311 124	1
PRO WUS 1/2	1500 x 750 x 840 mm	1500 x 750 mm	2 PCS	2 drawers, box height 70 mm/ front height 90 mm, 1 door, H 540 mm	0957 311 210	1
PRO WUS 1/2	1500 x 750 x 840 mm	1500 x 750 mm	2 PCS	2 drawers, box height 70 mm/ front height 90 mm, 1 door, H 540 mm	0957 311 211	1
PRO WUS 1/2	1500 x 750 x 840 mm	1500 x 750 mm	2 PCS	2 drawers, box height 70 mm/ front height 90 mm, 1 door, H 540 mm	0957 311 212	1
PRO WUS 1/2	1500 x 750 x 840 mm	1500 x 750 mm	2 PCS	2 drawers, box height 70 mm/ front height 90 mm, 1 door, H 540 mm	0957 311 214	1
PRO WUS 1/2	2000 x 750 x 840 mm	2000 x 750 mm	2 PCS	2 drawers, box height 70 mm/ front height 90 mm, 1 door, H 540 mm	0957 311 220	1
PRO WUS 1/2	2000 x 750 x 840 mm	2000 x 750 mm	2 PCS	2 drawers, box height 70 mm/ front height 90 mm, 1 door, H 540 mm	0957 311 221	1
PRO WUS 1/2	2000 x 750 x 840 mm	2000 x 750 mm	2 PCS	2 drawers, box height 70 mm/ front height 90 mm, 1 door, H 540 mm	0957 311 222	1
PRO WUS 1/2	2000 x 750 x 840 mm	2000 x 750 mm	2 PCS	2 drawers, box height 70 mm/ front height 90 mm, 1 door, H 540 mm	0957 311 224	1

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
PRO WUS 1/4	1500 x 750 x 840 mm	1500 x 750 mm	4 PCS	3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 360 mm	0957 311 310	1
PRO WUS 1/4	1500 x 750 x 840 mm	1500 x 750 mm	4 PCS	3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 360 mm	0957 311 311	1
PRO WUS 1/4	1500 x 750 x 840 mm	1500 x 750 mm	4 PCS	3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 360 mm	0957 311 312	1
PRO WUS 1/4	1500 x 750 x 840 mm	1500 x 750 mm	4 PCS	3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 360 mm	0957 311 314	1
PRO WUS 1/4	2000 x 750 x 840 mm	2000 x 750 mm	4 PCS	3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 360 mm	0957 311 320	1
PRO WUS 1/4	2000 x 750 x 840 mm	2000 x 750 mm	4 PCS	3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 360 mm	0957 311 321	1
PRO WUS 1/4	2000 x 750 x 840 mm	2000 x 750 mm	4 PCS	3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 360 mm	0957 311 322	1
PRO WUS 1/4	2000 x 750 x 840 mm	2000 x 750 mm	4 PCS	3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 360 mm	0957 311 324	1

Continuation **Workbench PRO WUS 1**

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
PRO WUS 1/5	1500 x 750 x 840 mm	1500 x 750 mm	5 PCS	1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm, 1 drawer, box height 100 mm/ front height 150 mm, 2 drawers, box height 100 mm/ front height 180 mm	0957 311 410	1
PRO WUS 1/5	1500 x 750 x 840 mm	1500 x 750 mm	5 PCS	1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm, 1 drawer, box height 100 mm/ front height 150 mm, 2 drawers, box height 100 mm/ front height 180 mm	0957 311 411	1
PRO WUS 1/5	1500 x 750 x 840 mm	1500 x 750 mm	5 PCS	1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm, 1 drawer, box height 100 mm/ front height 150 mm, 2 drawers, box height 100 mm/ front height 180 mm	0957 311 412	1
PRO WUS 1/5	1500 x 750 x 840 mm	1500 x 750 mm	5 PCS	1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm, 1 drawer, box height 100 mm/ front height 150 mm, 2 drawers, box height 100 mm/ front height 180 mm	0957 311 414	1

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
PRO WUS 1/5	2000 x 750 x 840 mm	2000 x 750 mm	5 PCS	1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm, 1 drawer, box height 100 mm/ front height 150 mm, 2 drawers, box height 100 mm/ front height 180 mm	0957 311 420	1
PRO WUS 1/5	2000 x 750 x 840 mm	2000 x 750 mm	5 PCS	1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm, 1 drawer, box height 100 mm/ front height 150 mm, 2 drawers, box height 100 mm/ front height 180 mm	0957 311 421	1
PRO WUS 1/5	2000 x 750 x 840 mm	2000 x 750 mm	5 PCS	1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm, 1 drawer, box height 100 mm/ front height 150 mm, 2 drawers, box height 100 mm/ front height 180 mm	0957 311 422	1
PRO WUS 1/5	2000 x 750 x 840 mm	2000 x 750 mm	5 PCS	1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm, 1 drawer, box height 100 mm/ front height 150 mm, 2 drawers, box height 100 mm/ front height 180 mm	0957 311 424	1
PRO WUS 1/6	1500 x 750 x 840 mm	1500 x 750 mm	6 PCS	2 drawers, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm, 2 drawers, box height 100 mm/ front height 150 mm	0957 311 510	1

Continuation **Workbench PRO WUS 1**

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
PRO WUS 1/6	1500 x 750 x 840 mm	1500 x 750 mm	6 PCS	2 drawers, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm, 2 drawers, box height 100 mm/ front height 150 mm	0957 311 511	1
PRO WUS 1/6	1500 x 750 x 840 mm	1500 x 750 mm	6 PCS	2 drawers, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm, 2 drawers, box height 100 mm/ front height 150 mm	0957 311 512	1
PRO WUS 1/6	1500 x 750 x 840 mm	1500 x 750 mm	6 PCS	2 drawers, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm, 2 drawers, box height 100 mm/ front height 150 mm	0957 311 514	1
PRO WUS 1/6	2000 x 750 x 840 mm	2000 x 750 mm	6 PCS	2 drawers, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm, 2 drawers, box height 100 mm/ front height 150 mm	0957 311 520	1

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
PRO WUS 1/6	2000 x 750 x 840 mm	2000 x 750 mm	6 PCS	2 drawers, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm, 2 drawers, box height 100 mm/ front height 150 mm	0957 311 521	1
PRO WUS 1/6	2000 x 750 x 840 mm	2000 x 750 mm	6 PCS	2 drawers, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm, 2 drawers, box height 100 mm/ front height 150 mm	0957 311 522	1
PRO WUS 1/6	2000 x 750 x 840 mm	2000 x 750 mm	6 PCS	2 drawers, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm, 2 drawers, box height 100 mm/ front height 150 mm	0957 311 524	1

Pro series workbenches and worktables come pre-assembled. With customised variants, assembly is required on the customer's premises.

Cabinet workbench BASIC KWB 1

Robust cabinet workbench with drawer block for storing tools and other working materials

- Robust sheet-steel construction, welded with multiple edging
- Internal dimensions of drawer (W x D): 477 x 587 mm
- Drawer capacity: 70 kg with evenly distributed load



Width x depth x height (external dimension)	1500 x 750 x 840 mm
Width x depth	1500 x 750 mm
Working height	840 mm
Colour of frame	Light grey RAL 7035
Colour of drawer	Gentian blue RAL 5010
Load capacity	800 kg
Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished

Continuation **Cabinet workbench BASIC KWB 1**

Type description	Number of drawers	Drawer design	Art. no.	P. Qty.
BASIC KWB 1/1	1 PCS	1 drawer, box height 130 mm/front height 180 mm, 1 door, H 360 mm	0957 501 000	1
BASIC KWB 1/5	5 PCS	1 drawer, box height 40 mm/front height 60 mm, 2 drawers, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 1 drawer, box height 130 mm/front height 180 mm	0957 501 020	1

Cabinet workbench BASIC KWB 2

Robust cabinet workbench with two drawer blocks for storing tools and other working materials

- Robust sheet steel construction, welded with multiple edges
- Central locking system secures the contents against theft



Width x depth x height (external dimension)	1500 x 750 x 840 mm
Width x depth	1500 x 750 mm
Working height	840 mm
Colour of frame	Light grey RAL 7035
Colour of drawer	Gentian blue RAL 5010
Load capacity	800 kg
Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished

Type description	Number of drawers	Drawer design	Art. no.	P. Qty.
BASIC KWB 2/1	1 PCS	1 drawer, box height 130 mm/front height 180 mm, 1 door, H 360 mm	0957 501 010	1
BASIC KWB 2/2	2 PCS	2 drawers, box height 130 mm/front height 180 mm, 2 doors, H 360 mm	0957 501 030	1
BASIC KWB 2/6	6 PCS	6 drawers, box height 130 mm/front height 180 mm	0957 501 040	1
BASIC KWB 2/3	3 PCS	1 door, H 540 mm, 3 drawers, box height 130 mm/front height 180 mm	0957 501 050	1

Cabinet workbench BASIC KWB 3

Robust cabinet workbench with three drawer blocks for storing tools and other working materials

- Sturdy sheet steel construction, multi-folded and welded
- Drawers with over 80% partial extension, mounted on roller bearings
- Drawer load capacity: 70 kg with evenly distributed load



Width x depth x height (external dimension)	2000 x 750 x 840 mm
Width x depth	2000 x 750 mm

Working height	840 mm
Colour of frame	Light grey RAL 7035
Colour of drawer	Gentian blue RAL 5010
Load capacity	800 kg
Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished

Type description	Number of drawers	Drawer design	Art. no.	P. Qty.
BASIC KWB 3/T2	3 PCS	2 doors, H 540 mm, 3 drawers, box height 130 mm/ front height 180 mm	0957 501 090	1
BASIC KWB 3/2	2 PCS	2 drawers, box height 130 mm/ front height 180 mm, 2 doors, H 360 mm	0957 501 060	1
BASIC KWB 3/3	3 PCS	1 door, H 540 mm, 3 drawers, box height 130 mm/ front height 180 mm	0957 501 070	1
BASIC KWB 3/5	5 PCS	1 drawer, box height 40 mm/ front height 60 mm, 2 drawers, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm, 1 drawer, box height 130 mm/ front height 180 mm, 1 door, H 540 mm	0957 501 080	1

Workbench BASIC WUS 1

Robust workbench with BASIC undercounter cabinet for storing tools and other working materials.

- Central locking system secures the contents against theft
- Drawers with over 80% partial extension, mounted on roller bearings
- Internal drawer dimensions (W x D): 435 x 512 mm



Working height	840 mm
Colour of frame	Light grey RAL 7035
Colour of drawer	Gentian blue RAL 5010
Load capacity	500 kg
Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished

Continuation **Workbench BASIC WUS 1**

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
BASIC WUS 1/T2	1500 x 750 x 840 mm	1500 x 750 mm	2 PCS	2 drawers, box height 70 mm/ front height 90 mm, 1 door, H 540 mm	0957 506 320	1
BASIC WUS 1/T2	2000 x 750 x 840 mm	2000 x 750 mm	2 PCS	2 drawers, box height 70 mm/ front height 90 mm, 1 door, H 540 mm	0957 506 321	1
BASIC WUS 1/4	1500 x 750 x 840 mm	1500 x 750 mm	4 PCS	3 drawers, box height 100 mm/ front height 120 mm, 1 drawer, box height 100 mm/ front height 360 mm	0957 506 340	1
BASIC WUS 1/4	2000 x 750 x 840 mm	2000 x 750 mm	4 PCS	3 drawers, box height 100 mm/ front height 120 mm, 1 drawer, box height 100 mm/ front height 360 mm	0957 506 341	1
BASIC WUS 1/5	1500 x 750 x 840 mm	1500 x 750 mm	5 PCS	1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm, 1 drawer, box height 100 mm/ front height 150 mm, 2 drawers, box height 100 mm/ front height 180 mm	0957 506 350	1
BASIC WUS 1/5	2000 x 750 x 840 mm	2000 x 750 mm	5 PCS	1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm, 1 drawer, box height 100 mm/ front height 150 mm, 2 drawers, box height 100 mm/ front height 180 mm	0957 506 351	1

BASIC WUS/WUSK workbenches and BASIC WT work tables are supplied pre-assembled. Customised variants must be assembled by the customer.

Workbench BASIC WUS 2

Robust workbench with two BASIC undercounter cabinets for storing tools and other working materials.

- Robust sheet steel construction, welded with multiple edges
- Top and bottom of the housing are closed
- Central locking system secures the contents against theft



Width x depth x height (external dimension)	2000 x 750 x 840 mm
Width x depth	2000 x 750 mm
Working height	840 mm
Colour of frame	Light grey RAL 7035
Colour of drawer	Gentian blue RAL 5010
Load capacity	500 kg
Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished

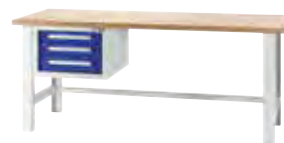
Type description	Number of drawers	Drawer design	Art. no.	P. Qty.
BASIC WUS 2/10	10 PCS	2 drawers, box height 70 mm/front height 90 mm, 5 drawers, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 360 mm	0957 506 310	1
BASIC WUS 2/T6	6 PCS	2 drawers, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 150 mm, 1 door, H 720 mm	0957 506 360	1
BASIC WUS 2/T7	7 PCS	3 drawers, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 150 mm, 2 drawers, box height 100 mm/front height 180 mm, 1 door, H 540 mm	0957 506 370	1

BASIC WUS/WUSK workbenches and BASIC WT work tables are supplied pre-assembled. Customised variants must be assembled by the customer.

Workbench BASIC WUSK, fixed

Robust workbench with BASIC undercounter drawer box for storing tools and other working materials.

- Robust sheet steel construction, welded with multiple edges
- Central locking system secures the contents against theft
- Aluminium handle strip with labelling strips and transparent cover



Working height	840 mm
Colour of frame	Light grey RAL 7035
Colour of drawer	Gentian blue RAL 5010
Load capacity	500 kg

Continuation **Workbench BASIC WUSK, fixed**

Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
BASIC WUSK 1/2	1500 x 750 x 840 mm	1500 x 750 mm	2 PCS	2 drawers, box height 100 mm/front height 150 mm	0957 506 221	1
BASIC WUSK 1/2	2000 x 750 x 840 mm	2000 x 750 mm	2 PCS	2 drawers, box height 100 mm/front height 150 mm	0957 506 223	1
BASIC WUSK 1/3	1500 x 750 x 840 mm	1500 x 750 mm	3 PCS	2 drawers, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	0957 506 231	1
BASIC WUSK 1/3	2000 x 750 x 840 mm	2000 x 750 mm	3 PCS	2 drawers, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	0957 506 233	1
BASIC WUSK 1/4	1500 x 750 x 840 mm	1500 x 750 mm	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 2 drawers, box height 70 mm/front height 90 mm	0957 506 241	1
BASIC WUSK 1/4	2000 x 750 x 840 mm	2000 x 750 mm	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 2 drawers, box height 70 mm/front height 90 mm	0957 506 243	1

BASIC WUS/WUSK workbenches and BASIC WT work tables are supplied pre-assembled. Customised variants must be assembled by the customer.

Workbench BASIC WUSK, height-adjustable

Robust workbench with BASIC undercounter drawer box for storing tools and other working materials. Height adjustment allows for optimal adaptation to individual circumstances and ensures perfect ergonomics at workstations.

- Sturdy sheet-steel construction, multiple edges
- Adjustable working height: 640–990 mm with screw connection
- Adjustable in increments of 25 mm
- Load capacity of worktop 500 kg (with evenly distributed load)



Working height	990 mm
Colour of frame	Light grey RAL 7035

Colour of drawer	Gentian blue RAL 5010
Load capacity	500 kg
Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished

Type description	Width x depth x height (external dimension)	Width x depth	Number of drawers	Drawer design	Art. no.	P. Qty.
BASIC WUSK 2/2	1500 x 750 x 990 mm	1500 x 750 mm	2 PCS	2 drawers, box height 100 mm/front height 150 mm	0957 506 220	1
BASIC WUSK 2/2	2000 x 750 x 990 mm	2000 x 750 mm	2 PCS	2 drawers, box height 100 mm/front height 150 mm	0957 506 222	1
BASIC WUSK 2/3	1500 x 750 x 990 mm	1500 x 750 mm	3 PCS	2 drawers, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	0957 506 230	1
BASIC WUSK 2/3	2000 x 750 x 990 mm	2000 x 750 mm	3 PCS	2 drawers, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	0957 506 232	1
BASIC WUSK 2/4	1500 x 750 x 990 mm	1500 x 750 mm	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 2 drawers, box height 70 mm/front height 90 mm	0957 506 240	1
BASIC WUSK 2/4	2000 x 750 x 990 mm	2000 x 750 mm	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 2 drawers, box height 70 mm/front height 90 mm	0957 506 242	1

BASIC WUS/WUSK workbenches and BASIC WT work tables are supplied pre-assembled. Customised variants must be assembled by the customer.

Work table BASIC, fixed

Universal workbench, e.g. for assembly work

- Sturdy sheet-steel construction, multiple edges
- Cross-strut between the bases for increased stability
- Load capacity of worktop 500 kg (with evenly distributed load)



Type description	BASIC WT 1
Working height	840 mm
Colour of frame	Light grey RAL 7035
Load capacity	500 kg
Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished

Continuation **Work table BASIC, fixed**

Width x depth x height (external dimension)	Width x depth	Art. no.	P. Qty.
1500 x 750 x 840 mm	1500 x 750 mm	0957 506 200	1
2000 x 750 x 840 mm	2000 x 750 mm	0957 506 202	1

BASIC WUS/WUSK workbenches and BASIC WT work tables are supplied pre-assembled. Customised variants must be assembled by the customer.

Work table BASIC, height-adjustable

Universal workbench for assembly work etc. Height adjustment allows for ideal adjustment to individual circumstances and ensures perfect ergonomics at workstations.



- Sturdy sheet-steel construction, multiple edges
- Cross-strut between the bases for increased stability
- Adjustable working height: 640–990 mm with screw connection

Type description	BASIC WT 2
Working height	990 mm
Colour of frame	Light grey RAL 7035
Load capacity	500 kg
Material of the tabletop	Beech multiplex
Tabletop thickness	40 mm
Surface of the tabletop	Clear varnished

Width x depth x height (external dimension)	Width x depth	Art. no.	P. Qty.
1500 x 750 x 990 mm	1500 x 750 mm	0957 506 201	1
2000 x 750 x 990 mm	2000 x 750 mm	0957 506 203	1

BASIC WUS/WUSK workbenches and BASIC WT work tables are supplied pre-assembled. Customised variants must be assembled by the customer.

Drawer divider set BASIC KWB, 6-compartment

Separating plate set for KWB/RWB workbenches enables clearly arranged storage of tools and small parts



Partition into 6 compartments

Consisting of:

- 1 x compartment rail, length 595 mm
- 2 x compartment dividers, length 188 mm
- 2 x compartment dividers, length 298 mm

Height	Art. no.	P. Qty.
40 mm	0957 501 100	1
70 mm	0957 501 101	1
100 mm	0957 501 102	1
130 mm	0957 501 103	1

Drawer divider set BASIC KWB, 12-compartment

Separating plate set for KWB/RWB workbenches enables clearly arranged storage of tools and small parts

Partition into 12 compartments

Consisting of:

- 2 x compartment rails, length 595 mm
- 6 x compartment dividers, length 188 mm
- 3 x compartment dividers, length 103 mm



Height	Art. no.	P. Qty.
40 mm	0957 501 104	1
70 mm	0957 501 105	1
100 mm	0957 501 106	1
130 mm	0957 501 107	1

Drawer divider set BASIC KWB, 16-compartment

Separating plate set for KWB/RWB workbenches enables clearly arranged storage of tools and small parts

Partition into 16 compartments

Consisting of:

- 3 x compartment rails, length 595 mm
- 3 x compartment dividers, length 188 mm
- 3 x compartment dividers, length 82 mm
- 6 x compartment dividers, length 103 mm



Height	Art. no.	P. Qty.
40 mm	0957 501 108	1
70 mm	0957 501 109	1
100 mm	0957 501 110	1
130 mm	0957 501 111	1

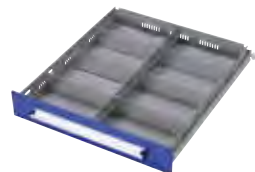
Drawer divider set BASIC US/USK, 8-compartment

Separating plate set for WUS/WUSK workbenches and US/USK drawer cabinets enables clearly arranged storage of tools and small parts

Partition into 8 compartments

Consisting of:

- 1 x compartment rail, length 525 mm
- 6 x compartment dividers, length 220 mm



Height	Art. no.	P. Qty.
40 mm	0957 507 200	1
70 mm	0957 507 201	1
100 mm	0957 507 202	1

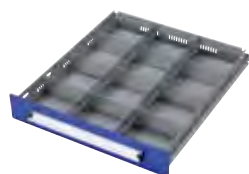
Drawer divider set BASIC US/USK, 12-compartment

Separating plate set for WUS/WUSK workbenches and US/USK drawer cabinets enables clearly arranged storage of tools and small parts

Partition into 12 compartments

Consisting of:

- 2 x compartment rails, length 525 mm
- 9 x compartment dividers, length 145 mm



Height	Art. no.	P. Qty.
40 mm	0957 507 203	1
70 mm	0957 507 204	1
100 mm	0957 507 205	1

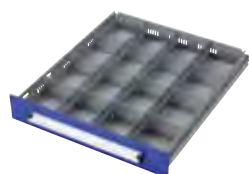
Drawer divider set BASIC US/USK, 16-compartment

Separating plate set for WUS/WUSK workbenches and US/USK drawer cabinets enables clearly arranged storage of tools and small parts

Partition into 6 compartments

Consisting of:

- 3 x compartment rails, length 525 mm
- 6 x compartment dividers, length 102 mm
- 6 x compartment dividers, length 112 mm



Height	Art. no.	P. Qty.
40 mm	0957 507 206	1
70 mm	0957 507 207	1
100 mm	0957 507 208	1

Wing door cabinet BASIC

Wing door cabinet with shelves and drawers

- Sheet steel construction, welded with multiple edging
- Three-sided anti-roll-off edging, 25 mm high
- Drawers with guide slide bearing, 75% extension
- Drawer and shelf load capacity: 20 kg with evenly distributed load
- Internal drawer dimensions (W x D): 387 x 421 mm
- Lockable hinged doors
- Galvanised shelves, adjustable in 15:15 mm grid



Body colour	Light grey RAL 7035
Color door	Gentian blue RAL 5010

Type description	Width x depth x height (external dimension)	Design	Art. no.	P. Qty.
BASIC FT 01	500 x 500 x 1000 mm	1 drawer, 2 shelves	0957 354 111	1
BASIC FT 02	1000 x 500 x 1000 mm	2 drawers, 2 shelves	0957 354 121	1

Wing door cabinet PRO

Robust wing-door cabinet with optional adjustable drawers and shelves

- Robust sheet-steel construction, welded with multiple edging
- Load capacity of each shelf 60 kg (with evenly distributed load)
- Recessed turning-handle safety lock secures the contents against theft
- Recessed safety lock of turning handle secures the contents against theft
- Drawers with 100% telescopic extensions, 50-kg load capacity (with evenly distributed load)



Body colour	Light grey RAL 7035
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Type description	Width x depth x height (external dimension)	Design	Color door	Art. no.	P. Qty.
PRO FT 01	500 x 500 x 1030 mm	3 shelves, W 500 x D 500 mm	Traffic red RAL 3020	0957 351 010	1
PRO FT 01	500 x 500 x 1030 mm	3 shelves, W 500 x D 500 mm	Gentian blue RAL 5010	0957 351 011	1
PRO FT 01	500 x 500 x 1030 mm	3 shelves, W 500 x D 500 mm	Light grey RAL 7035	0957 351 012	1
PRO FT 01	500 x 500 x 1030 mm	3 shelves, W 500 x D 500 mm	Traffic grey A RAL 7042	0957 351 014	1
PRO FT 02	500 x 500 x 1030 mm	3 shelves, W 500 x D 500 mm, 2 drawers, box height 70 mm/front height 90 mm, full extension	Traffic red RAL 3020	0957 351 020	1
PRO FT 02	500 x 500 x 1030 mm	3 shelves, W 500 x D 500 mm, 2 drawers, box height 70 mm/front height 90 mm, full extension	Gentian blue RAL 5010	0957 351 021	1
PRO FT 02	500 x 500 x 1030 mm	3 shelves, W 500 x D 500 mm, 2 drawers, box height 70 mm/front height 90 mm, full extension	Light grey RAL 7035	0957 351 022	1
PRO FT 02	500 x 500 x 1030 mm	3 shelves, W 500 x D 500 mm, 2 drawers, box height 70 mm/front height 90 mm, full extension	Traffic grey A RAL 7042	0957 351 024	1
PRO FT 11	1000 x 500 x 1030 mm	3 shelves, W 1000 x D 500 mm	Traffic red RAL 3020	0957 351 110	1
PRO FT 11	1000 x 500 x 1030 mm	3 shelves, W 1000 x D 500 mm	Gentian blue RAL 5010	0957 351 111	1
PRO FT 11	1000 x 500 x 1030 mm	3 shelves, W 1000 x D 500 mm	Light grey RAL 7035	0957 351 112	1
PRO FT 11	1000 x 500 x 1030 mm	3 shelves, W 1000 x D 500 mm	Traffic grey A RAL 7042	0957 351 114	1
PRO FT 12	1000 x 500 x 1030 mm	3 shelves, W 1000 x D 500 mm, 2 drawers, box height 70 mm/front height 90 mm, full extension	Traffic red RAL 3020	0957 351 120	1
PRO FT 12	1000 x 500 x 1030 mm	3 shelves, W 1000 x D 500 mm, 2 drawers, box height 70 mm/front height 90 mm, full extension	Gentian blue RAL 5010	0957 351 121	1
PRO FT 12	1000 x 500 x 1030 mm	3 shelves, W 1000 x D 500 mm, 2 drawers, box height 70 mm/front height 90 mm, full extension	Light grey RAL 7035	0957 351 122	1

Continuation **Wing door cabinet PRO**

Type description	Width x depth x height (external dimension)	Design	Color door	Art. no.	P. Qty.
PRO FT 12	1000 x 500 x 1030 mm	3 shelves, W 1000 x D 500 mm, 2 drawers, box height 70 mm/front height 90 mm, full extension	Traffic grey A RAL 7042	0957 351 124	1
PRO FT 21	1000 x 500 x 1950 mm	4 shelves, W 1000 x D 500 mm	Traffic red RAL 3020	0957 351 210	1
PRO FT 21	1000 x 500 x 1950 mm	4 shelves, W 1000 x D 500 mm	Gentian blue RAL 5010	0957 351 211	1
PRO FT 21	1000 x 500 x 1950 mm	4 shelves, W 1000 x D 500 mm	Light grey RAL 7035	0957 351 212	1
PRO FT 21	1000 x 500 x 1950 mm	4 shelves, W 1000 x D 500 mm	Traffic grey A RAL 7042	0957 351 214	1
PRO FT 22	1000 x 500 x 1950 mm	4 shelves, W 1000 x D 500 mm, 2 drawers, box height 70 mm/front height 90 mm, full extension	Traffic red RAL 3020	0957 351 220	1
PRO FT 22	1000 x 500 x 1950 mm	4 shelves, W 1000 x D 500 mm, 2 drawers, box height 70 mm/front height 90 mm, full extension	Gentian blue RAL 5010	0957 351 221	1
PRO FT 22	1000 x 500 x 1950 mm	4 shelves, W 1000 x D 500 mm, 2 drawers, box height 70 mm/front height 90 mm, full extension	Light grey RAL 7035	0957 351 222	1
PRO FT 22	1000 x 500 x 1950 mm	4 shelves, W 1000 x D 500 mm, 2 drawers, box height 70 mm/front height 90 mm, full extension	Traffic grey A RAL 7042	0957 351 224	1
PRO FT 30	1000 x 500 x 1950 mm	5 shelves, W 500 x D 500 mm, 1 clothing compartment with bar and ventilation slots	Traffic red RAL 3020	0957 351 300	1
PRO FT 30	1000 x 500 x 1950 mm	5 shelves, W 500 x D 500 mm, 1 clothing compartment with bar and ventilation slots	Gentian blue RAL 5010	0957 351 301	1
PRO FT 30	1000 x 500 x 1950 mm	5 shelves, W 500 x D 500 mm, 1 clothing compartment with bar and ventilation slots	Light grey RAL 7035	0957 351 302	1
PRO FT 30	1000 x 500 x 1950 mm	5 shelves, W 500 x D 500 mm, 1 clothing compartment with bar and ventilation slots	Traffic grey A RAL 7042	0957 351 304	1

Sliding-door cabinet PRO

Robust sliding-door cabinet with optional adjustable drawers and shelves

- Robust sheet-steel construction, welded with multiple edging
- Sliding doors folded, reinforced and mounted on ball castors
- Drawers with 100% telescopic extensions, 50-kg load capacity (with evenly distributed load)
- Internal drawer dimensions (W x D): 881 x 388 mm
- Load capacity of 60 kg per shelf (with evenly distributed load)
- Cylinder lock secures the contents against theft



Body colour	Light grey RAL 7035
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Type description	Width x depth x height (external dimension)	Design	Color door	Art. no.	P. Qty.
PRO ST 11	1000 x 500 x 1030 mm	3 shelves, W 1000 x D 500 mm	Traffic red RAL 3020	0957 352 110	1
PRO ST 11	1000 x 500 x 1030 mm	3 shelves, W 1000 x D 500 mm	Gentian blue RAL 5010	0957 352 111	1
PRO ST 11	1000 x 500 x 1030 mm	3 shelves, W 1000 x D 500 mm	Light grey RAL 7035	0957 352 112	1
PRO ST 11	1000 x 500 x 1030 mm	3 shelves, W 1000 x D 500 mm	Traffic grey A RAL 7042	0957 352 114	1
PRO ST 21	1000 x 500 x 1950 mm	4 shelves, W 1000 x D 500 mm	Traffic red RAL 3020	0957 352 210	1
PRO ST 21	1000 x 500 x 1950 mm	4 shelves, W 1000 x D 500 mm	Gentian blue RAL 5010	0957 352 211	1
PRO ST 21	1000 x 500 x 1950 mm	4 shelves, W 1000 x D 500 mm	Light grey RAL 7035	0957 352 212	1
PRO ST 21	1000 x 500 x 1950 mm	4 shelves, W 1000 x D 500 mm	Traffic grey A RAL 7042	0957 352 214	1
PRO ST 31	2000 x 500 x 1030 mm	6 shelves, W 1000 x D 500 mm, 4 drawers, box height 70 mm/front height 90 mm, full extension	Traffic red RAL 3020	0957 352 310	1
PRO ST 31	2000 x 500 x 1030 mm	6 shelves, W 1000 x D 500 mm, 4 drawers, box height 70 mm/front height 90 mm, full extension	Gentian blue RAL 5010	0957 352 311	1
PRO ST 31	2000 x 500 x 1030 mm	6 shelves, W 1000 x D 500 mm, 4 drawers, box height 70 mm/front height 90 mm, full extension	Light grey RAL 7035	0957 352 312	1
PRO ST 31	2000 x 500 x 1030 mm	6 shelves, W 1000 x D 500 mm, 4 drawers, box height 70 mm/front height 90 mm, full extension	Traffic grey A RAL 7042	0957 352 314	1

Battery charging cabinets with hinged doors

Clear, clean and safe storage of battery chargers and cordless tools

- Keep track of all of your devices and monitor their charge states storing machines and batteries centrally
- Lockable hinged doors provide protection against unauthorised access and ventilation slots ensure optimal air circulation
- The version with viewing window allows users to view the contents of the cabinet even when the doors are closed



Body colour	Light grey RAL 7035
Number of sockets	18 pieces
Input voltage	400 V
Position power supply	Right
Approval mark	CE

Type description	Width x depth x height (external dimension)	Color door	Door design	Art. no.	P. Qty.
AS11	1000 x 500 x 1030 mm	Traffic red RAL 3020	Double wing doors	0957 355 030	1
AS11	1000 x 500 x 1030 mm	Gentian blue RAL 5010	Double wing doors	0957 355 031	1
AS11	1000 x 500 x 1030 mm	Light grey RAL 7035	Double wing doors	0957 355 032	1
AS11	1000 x 500 x 1030 mm	Traffic grey A RAL 7042	Double wing doors	0957 355 034	1
AS12	1000 x 500 x 1030 mm	Traffic red RAL 3020	Double wing door with viewing window	0957 355 040	1
AS12	1000 x 500 x 1030 mm	Gentian blue RAL 5010	Double wing door with viewing window	0957 355 041	1
AS12	1000 x 500 x 1030 mm	Light grey RAL 7035	Double wing door with viewing window	0957 355 042	1
AS12	1000 x 500 x 1030 mm	Traffic grey A RAL 7042	Double wing door with viewing window	0957 355 044	1
AS21	1000 x 500 x 1950 mm	Traffic red RAL 3020	Double wing doors	0957 355 050	1
AS21	1000 x 500 x 1950 mm	Gentian blue RAL 5010	Double wing doors	0957 355 051	1
AS21	1000 x 500 x 1950 mm	Light grey RAL 7035	Double wing doors	0957 355 052	1
AS21	1000 x 500 x 1950 mm	Traffic grey A RAL 7042	Double wing doors	0957 355 054	1
AS22	1000 x 500 x 1950 mm	Traffic red RAL 3020	Double wing door with viewing window	0957 355 060	1
AS22	1000 x 500 x 1950 mm	Gentian blue RAL 5010	Double wing door with viewing window	0957 355 061	1
AS22	1000 x 500 x 1950 mm	Light grey RAL 7035	Double wing door with viewing window	0957 355 062	1
AS22	1000 x 500 x 1950 mm	Traffic grey A RAL 7042	Double wing door with viewing window	0957 355 064	1

- The battery charger cabinet must only be installed in dry rooms.
- Only connect as many chargers as there are charging sockets available.

Workshop cabinet BASIC FT 42

Spacious wing door cabinet with adjustable shelves

- Welded sheet-steel construction
- With four powder-coated shelves, adjustable in 180:180 mm grid
- Shelf load capacity 60 kg (with evenly-distributed load)

Type description	BASIC FT 42
Width x depth x height (external dimension)	950 x 450 x 1950 mm
Body colour	Light grey RAL 7035
Color door	Gentian blue RAL 5010



Art. no. 0957 505 010

P. Qty.: 1

Drawer cabinet PRO

Sturdy undercounter cabinet for storing tools and other work materials. Can be individually combined with work tables and workbenches from the PRO series and with worktops, workbench bases and cross-connectors.

- Sturdy sheet-steel construction, welded with multiple edging
- Housing enclosed top and bottom
- Central locking system secures the contents against theft
- Aluminium handle strip with labelling strips and transparent cover
- Drawers with over 80% partial extension, mounted on roller bearings
- Built-in safety drawer lock prevents tipping
- Internal drawer dimensions (W x D): 437 x 587 mm
- Drawer load capacity: 100 kg with evenly distributed load
- Rows of slots and perforated base to insert dividers



Width x depth x height (external dimension)	570 x 680 x 800 mm
Width x depth (internal dimension of drawer) (B x T)	437 x 587 mm
Body colour	Light grey RAL 7035

Type description	Number of drawers	Drawer design	Colour of drawer	Art. no.	P. Qty.
PRO US 1		1 door, H 720 mm, 1 shelf, height-adjustable	Traffic red RAL 3020	0957 322 010	1
PRO US 1		1 door, H 720 mm, 1 shelf, height-adjustable	Gentian blue RAL 5010	0957 322 011	1
PRO US 1		1 door, H 720 mm, 1 shelf, height-adjustable	Light grey RAL 7035	0957 322 012	1
PRO US 1		1 door, H 720 mm, 1 shelf, height-adjustable	Traffic grey A RAL 7042	0957 322 014	1

Continuation **Drawer cabinet PRO**

Type description	Number of drawers	Drawer design	Colour of drawer	Art. no.	P. Qty.
PRO US 2	2 PCS	2 drawers, box height 70 mm/front height 90 mm, 1 door, H 540 mm	Traffic red RAL 3020	0957 322 020	1
PRO US 2	2 PCS	2 drawers, box height 70 mm/front height 90 mm, 1 door, H 540 mm	Gentian blue RAL 5010	0957 322 021	1
PRO US 2	2 PCS	2 drawers, box height 70 mm/front height 90 mm, 1 door, H 540 mm	Light grey RAL 7035	0957 322 022	1
PRO US 2	2 PCS	2 drawers, box height 70 mm/front height 90 mm, 1 door, H 540 mm	Traffic grey A RAL 7042	0957 322 024	1
PRO US 4	4 PCS	3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 360 mm	Traffic red RAL 3020	0957 322 040	1
PRO US 4	4 PCS	3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 360 mm	Gentian blue RAL 5010	0957 322 041	1
PRO US 4	4 PCS	3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 360 mm	Light grey RAL 7035	0957 322 042	1
PRO US 4	4 PCS	3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 360 mm	Traffic grey A RAL 7042	0957 322 044	1
PRO US 5	5 PCS	1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 150 mm, 2 drawers, box height 100 mm/front height 180 mm	Traffic red RAL 3020	0957 322 050	1
PRO US 5	5 PCS	1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 150 mm, 2 drawers, box height 100 mm/front height 180 mm	Gentian blue RAL 5010	0957 322 051	1

Type description	Number of drawers	Drawer design	Colour of drawer	Art. no.	P. Qty.
PRO US 5	5 PCS	1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 150 mm, 2 drawers, box height 100 mm/front height 180 mm	Light grey RAL 7035	0957 322 052	1
PRO US 5	5 PCS	1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 150 mm, 2 drawers, box height 100 mm/front height 180 mm	Traffic grey A RAL 7042	0957 322 054	1
PRO US 6	6 PCS	2 drawers, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 150 mm	Traffic red RAL 3020	0957 322 060	1
PRO US 6	6 PCS	2 drawers, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 150 mm	Gentian blue RAL 5010	0957 322 061	1
PRO US 6	6 PCS	2 drawers, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 150 mm	Light grey RAL 7035	0957 322 062	1
PRO US 6	6 PCS	2 drawers, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 150 mm	Traffic grey A RAL 7042	0957 322 064	1

Pro series workbenches and worktables come pre-assembled. Customised variants must be assembled by the customer.

Drawer box PRO

Sturdy drawer box for storing tools and other work materials. Can be individually combined with work tables and workbenches from the PRO series and with worktops, workbench bases and cross-connectors.



- Sturdy sheet-steel construction, welded with multiple edging
- Housing enclosed at the bottom
- Central locking system secures the contents against theft
- Aluminium handle strip with labelling strips and transparent cover
- Drawers with over 80% partial extension, mounted on roller bearings
- Built-in safety drawer lock prevents tipping
- Internal drawer dimensions (W x D): 437 x 587 mm
- Drawer load capacity: 100 kg with evenly distributed load
- Rows of slots and perforated base to insert dividers

Width x depth x height (external dimension)	570 x 680 x 410 mm
Width x depth (internal dimension of drawer) (B x T)	437 x 587 mm
Body colour	Light grey RAL 7035

Type description	Number of drawers	Drawer design	Colour of drawer	Art. no.	P. Qty.
PRO USK 2	2 PCS	1 drawer, box height 100 mm/ front height 150 mm, 1 drawer, box height 100 mm/ front height 180 mm	Traffic red RAL 3020	0957 321 020	1
PRO USK 2	2 PCS	1 drawer, box height 100 mm/ front height 150 mm, 1 drawer, box height 100 mm/ front height 180 mm	Gentian blue RAL 5010	0957 321 021	1
PRO USK 2	2 PCS	1 drawer, box height 100 mm/ front height 150 mm, 1 drawer, box height 100 mm/ front height 180 mm	Light grey RAL 7035	0957 321 022	1
PRO USK 2	2 PCS	1 drawer, box height 100 mm/ front height 150 mm, 1 drawer, box height 100 mm/ front height 180 mm	Traffic grey A RAL 7042	0957 321 024	1
PRO USK 3	3 PCS	1 drawer, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm	Traffic red RAL 3020	0957 321 030	1
PRO USK 3	3 PCS	1 drawer, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm	Gentian blue RAL 5010	0957 321 031	1
PRO USK 3	3 PCS	1 drawer, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm	Light grey RAL 7035	0957 321 032	1

Type description	Number of drawers	Drawer design	Colour of drawer	Art. no.	P. Qty.
PRO USK 3	3 PCS	1 drawer, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 120 mm	Traffic grey A RAL 7042	0957 321 034	1
PRO USK 4	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	Traffic red RAL 3020	0957 321 040	1
PRO USK 4	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	Gentian blue RAL 5010	0957 321 041	1
PRO USK 4	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	Light grey RAL 7035	0957 321 042	1
PRO USK 4	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	Traffic grey A RAL 7042	0957 321 044	1

Pro series workbenches and worktables come pre-assembled. Customised variants must be assembled by the customer.

Drawer cabinet BASIC 700 S

Sturdy drawer cabinet for storing tools etc.

- Robust sheet steel construction, welded with multiple edges
- Central locking system secures the contents against theft
- Drawers with over 80% partial extension, mounted on roller bearings
- Built-in safety drawer lock prevents tipping
- Drawer capacity: 100 kg with an evenly distributed load



Width x depth (internal dimension of drawer) (B x T)	586 x 586 mm
Body colour	Light grey RAL 7035
Colour of drawer	Gentian blue RAL 5010

Continuation **Drawer cabinet BASIC 700 S**

Type description	Width x depth x height (external dimension)	Number of drawers	Drawer design	Art. no.	P. Qty.
BASIC S5/808	722 x 703 x 808 mm	5 PCS	1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 150 mm, 2 drawers, box height 100 mm/front height 180 mm	0957 502 000	1
BASIC S6/808	722 x 703 x 808 mm	6 PCS	1 drawer, box height 40 mm/front height 60 mm, 2 drawers, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	0957 502 010	1
BASIC S6/1036	722 x 703 x 1036 mm	6 PCS	2 drawers, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 360 mm	0957 502 020	1
BASIC S7/1036	722 x 703 x 1036 mm	7 PCS	2 drawers, box height 70 mm/front height 90 mm, 3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 180 mm, 1 drawer, box height 100 mm/front height 240 mm	0957 502 030	1
BASIC S9/1336	722 x 703 x 1336 mm	9 PCS	1 drawer, box height 40 mm/front height 60 mm, 8 drawers, box height 100 mm/front height 150 mm	0957 502 040	1
BASIC S10/1336	722 x 703 x 1336 mm	10 PCS	3 drawers, box height 70 mm/front height 90 mm, 3 drawers, box height 100 mm/front height 120 mm, 3 drawers, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	0957 502 050	1

Drawer cabinet BASIC 700 B

Robust and spacious drawer cabinet for storing materials.

- Central locking system secures the contents against theft
- Drawers with over 80% partial extension, mounted on roller bearings
- Built-in safety drawer lock prevents tipping
- Drawer capacity: 100 kg with an evenly distributed load



Width x depth (internal dimension of drawer) (B x T)	886 x 586 mm
Body colour	Light grey RAL 7035
Colour of drawer	Gentian blue RAL 5010

Type description	Width x depth x height (external dimension)	Number of drawers	Drawer design	Art. no.	P. Qty.
BASIC B5/808	1022 x 703 x 808 mm	5 PCS	1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 150 mm, 2 drawers, box height 100 mm/front height 180 mm	0957 504 000	1
BASIC B6/808	1022 x 703 x 808 mm	6 PCS	1 drawer, box height 40 mm/front height 60 mm, 2 drawers, box height 70 mm/front height 90 mm, 2 drawers, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	0957 504 010	1
BASIC B6/1036	1022 x 703 x 1036 mm	6 PCS	2 drawers, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 360 mm	0957 504 020	1

Continuation **Drawer cabinet BASIC 700 B**

Type description	Width x depth x height (external dimension)	Number of drawers	Drawer design	Art. no.	P. Qty.
BASIC B7/1036	1022 x 703 x 1036 mm	7 PCS	2 drawers, box height 70 mm/front height 90 mm, 3 drawers, box height 100 mm/front height 120 mm, 1 drawer, box height 100 mm/front height 180 mm, 1 drawer, box height 100 mm/front height 240 mm	0957 504 030	1
BASIC B9/1336	1022 x 703 x 1336 mm	9 PCS	1 drawer, box height 40 mm/front height 60 mm, 8 drawers, box height 100 mm/front height 150 mm	0957 504 040	1
BASIC B10/1336	1022 x 703 x 1336 mm	10 PCS	3 drawers, box height 70 mm/front height 90 mm, 3 drawers, box height 100 mm/front height 120 mm, 3 drawers, box height 100 mm/front height 150 mm, 1 drawer, box height 100 mm/front height 180 mm	0957 504 050	1

PRO compartment divider set

Drawer divider set for PRO 700 B drawer cabinet



Suitable for box height	Number of compartments	Art. no.	P. Qty.
40 mm	4 PCS	0957 365 340	1
40 mm	5 PCS	0957 365 341	1
40 mm	12 PCS	0957 365 342	1
70 mm	4 PCS	0957 365 370	1
70 mm	5 PCS	0957 365 371	1
70 mm	12 PCS	0957 365 372	1
100 mm	4 PCS	0957 365 310	1
100 mm	5 PCS	0957 365 311	1
100 mm	12 PCS	0957 365 312	1

Plastic box

Divider boxes for neat storage and retrieval of small parts in workbenches, cabinets and trolleys.

Colour	Red
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Suitable for box height	Type description	Width x depth x height (external dimension)	Art. no.	P. Qty.
40 mm	A	75 x 75 x 36 mm	0957 366 410	1
40 mm	B	150 x 75 x 36 mm	0957 366 420	1
40 mm	C	150 x 100 x 36 mm	0957 366 430	1
40 mm	D	150 x 150 x 36 mm	0957 366 440	1
60 mm	A	75 x 75 x 61 mm	0957 366 411	1
60 mm	B	150 x 75 x 61 mm	0957 366 421	1
60 mm	C	150 x 100 x 61 mm	0957 366 431	1
60 mm	D	150 x 150 x 61 mm	0957 366 441	1

Drawer divider set BASIC, 5-compartment

Separating plate set for drawer cabinet BASIC 700 S enables clearly arranged storage of tools and small parts

Partition into 5 compartments

Consisting of:

- 1 x compartment rail, length 595 mm
- 3 x compartment dividers, length 295 mm



Number of compartments	5 PCS
Colour	Aluminium grey
Suitable for drawer cabinet	type S

Suitable for box height	Art. no.	P. Qty.
40 mm	0957 502 100	1
70 mm	0957 502 101	1
100 mm	0957 502 102	1

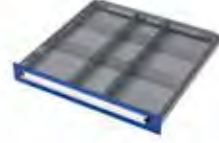
Drawer divider set, BASIC, 9 compartments

Separating plate set for drawer cabinet BASIC 700 S
enables clearly arranged storage of tools and small parts

Partition into 9 compartments

Consisting of:

- 2 x compartment rails, length 595 mm
- 4 x compartment dividers, length 222 mm
- 2 x compartment dividers, length 147 mm



Number of compartments	9 PCS
Colour	Aluminium grey
Suitable for drawer cabinet	type S

Suitable for box height	Art. no.	P. Qty.
40 mm	0957 502 103	1
70 mm	0957 502 104	1
100 mm	0957 502 105	1

Drawer divider set BASIC, 12-compartment

Separating plate set for drawer cabinet BASIC 700 S
enables clearly arranged storage of tools and small parts

Partition into 9 compartments

Consisting of:

- 3 x compartment rails, length 595 mm
- 8 x compartment dividers, length 147 mm



Number of compartments	12 PCS
Colour	Aluminium grey
Suitable for drawer cabinet	type S

Suitable for box height	Art. no.	P. Qty.
40 mm	0957 502 106	1
70 mm	0957 502 107	1
100 mm	0957 502 108	1

Drawer divider set BASIC, 18-compartment

Separating plate set for drawer cabinet BASIC 700 S
enables clearly arranged storage of tools and small parts

Partition into 18 compartments

Consisting of:

- 5 x compartment rails, length 595 mm
- 12 x compartment dividers, length 97 mm



Number of compartments	18 PCS
Colour	Aluminium grey
Suitable for drawer cabinet	type S

Suitable for box height	Art. no.	P. Qty.
40 mm	0957 502 109	1
70 mm	0957 502 110	1
100 mm	0957 502 111	1

Drawer divider set, BASIC, 5 compartments

Separating plate set for drawer cabinet BASIC 700 B enables clearly arranged storage of tools and small parts

Partition into 5 compartments

Consisting of:

- 1 x compartment rail, length 595 mm
- 3 x compartment dividers, length 445 mm



Number of compartments	5 PCS
Colour	Aluminium grey
Suitable for drawer cabinet	Type B

Suitable for box height	Art. no.	P. Qty.
40 mm	0957 504 100	1
70 mm	0957 504 101	1
100 mm	0957 504 102	1

Drawer divider set, BASIC, 9 compartments

Separating plate set for drawer cabinet BASIC 700 B enables clearly arranged storage of tools and small parts

Partition into 9 compartments

Consisting of:

- 2 x compartment rails, length 595 mm
- 6 x compartment dividers, length 295 mm



Number of compartments	9 PCS
Colour	Aluminium grey
Suitable for drawer cabinet	Type B

Suitable for box height	Art. no.	P. Qty.
40 mm	0957 504 103	1
70 mm	0957 504 104	1
100 mm	0957 504 105	1

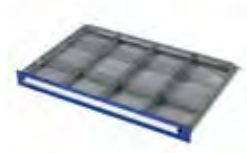
Drawer divider set, BASIC, 12 compartments

Separating plate set for drawer cabinet BASIC 700 B enables clearly arranged storage of tools and small parts

Partition into 12 compartments

Consisting of:

- 3 x compartment rails, length 595 mm
- 8 x compartment dividers, length 222 mm



Number of compartments	12 PCS
Colour	Aluminium grey
Suitable for drawer cabinet	Type B

Suitable for box height	Art. no.	P. Qty.
40 mm	0957 504 106	1
70 mm	0957 504 107	1
100 mm	0957 504 108	1

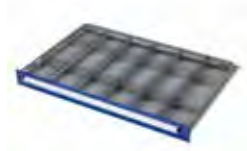
Drawer divider set, BASIC, 18 compartments

Separating plate set for drawer cabinet BASIC 700 B enables clearly arranged storage of tools and small parts

Partition into 18 compartments

Consisting of:

- 5 x compartment rails, length 595 mm
- 12 x compartment dividers, length 147 mm



Number of compartments	18 PCS
Colour	Aluminium grey
Suitable for drawer cabinet	Type B

Suitable for box height	Art. no.	P. Qty.
40 mm	0957 504 109	1
70 mm	0957 504 110	1
100 mm	0957 504 111	1

Fork lift-compatible base BASIC

Fork lift-accessible base for BASIC type S 700 and type B 700 drawer cabinets

- Robust tubular design
- Removable panel at the front and rear



Colour	Jet black RAL 9005
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Width x depth x height (external dimension)	Suitable for drawer cabinet	Art. no.	P. Qty.
722 x 700 x 130 mm	type S	0957 502 125	1
1022 x 700 x 130 mm	Type B	0957 504 125	1

Panel BASIC

For BASIC type S 700 and type B 700 drawer cabinets

- Sturdy steel structure
- Two fixed castors and two steering rollers with locking brake, Ø 125 mm
- Load capacity 1,000 kg



Colour	Light grey RAL 7035
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Width x depth x height (external dimension)	Suitable for drawer cabinet	Art. no.	P. Qty.
722 x 700 x 160 mm	type S	0957 502 120	1
1022 x 700 x 160 mm	Type B	0957 504 120	1

Plug-in rack Basic

Robust plug-in rack with 5 steel shelves for medium loads in warehouses, workshops and factories

- Pre-assembled frame for quick and easy plug-in assembly without additional tools
- Frame support in the form of a sturdy T section
- Frame and shelf braces (cross beams and diagonal cross braces) for maximum stability
- Can be extended as required with add-on bays and accessories
- Steel shelves with a load capacity of 150 kg per bay (with evenly distributed load)
- Shelves with flexible height adjustment at 25 mm increments, easy installation using plug-in shelf support



Width	1005 mm
Height	2000 mm
Bay load	2000 kg
Shelf load	150 kg

Depth	Type description	Art. no.	P. Qty.
300 mm	Basic shelving unit	0957 580 302	1
300 mm	Add-on shelf	0957 580 312	1
400 mm	Basic shelving unit	0957 580 402	1
400 mm	Add-on shelf	0957 580 412	1
500 mm	Basic shelving unit	0957 580 502	1
500 mm	Add-on shelf	0957 580 512	1
600 mm	Basic shelving unit	0957 580 602	1
600 mm	Add-on shelf	0957 580 612	1

Please consider the legal instruction at the beginning of this chapter.

- All indicated section widths are axial dimensions
- External dimensions
 - Width of basic shelf + 56 mm
 - Width of add-on shelf + 0 mm
 - Rack depth = shelf depth + 26 mm

Plug-in rack Professional

Robust plug-in rack with 5 steel shelves for heavy loads in warehouses, workshops and factories

- Pre-assembled frame for quick and easy plug-in assembly without additional tools
- Frame support in the form of a sturdy T section
- Frame and shelf braces (cross beams and diagonal cross braces) for maximum stability
- Can be extended as required with add-on bays and accessories
- Steel shelves with a load capacity of 250 kg per bay (with evenly distributed load)
- Shelves with flexible height adjustment at 25 mm increments, easy installation using plug-in shelf support



Width	1005 mm
Height	2000 mm
Bay load	2000 kg
Shelf load	250 kg

Depth	Type description	Art. no.	P. Qty.
400 mm	Basic shelving unit	0957 581 402	1
400 mm	Add-on shelf	0957 581 412	1
500 mm	Basic shelving unit	0957 581 502	1
500 mm	Add-on shelf	0957 581 512	1
600 mm	Basic shelving unit	0957 581 602	1
600 mm	Add-on shelf	0957 581 612	1
800 mm	Basic shelving unit	0957 581 802	1
800 mm	Add-on shelf	0957 581 812	1

Please consider the legal instruction at the beginning of this chapter.

- All indicated section widths are axial dimensions
- External dimensions
 - Width of basic shelf + 56 mm
 - Width of add-on shelf + 0 mm
 - Rack depth = shelf depth + 26 mm

Plug-in office rack

Robust plug-in rack with six steel shelves for clear, space-saving storage of files and other office materials.

- Quick and easy plug-in installation without any additional tools thanks to the pre-assembled frame
- The height of the shelves can be adjusted in the 25-mm grid. The shelves are also easy to install thanks to plug-in shelf supports
- A rack depth of 600 mm means folders can be stored one behind the other (can be accessed from both sides)
- Shelves with a depth of 600 mm are stabilised with longer latches



Width	1005 mm
Height	2000 mm

Bay load	2000 kg
Shelf load	150 kg

Depth	Type description	Art. no.	P. Qty.
300 mm	Basic shelving unit	0957 580 332	1
300 mm	Add-on shelf	0957 580 342	1
600 mm	Basic shelving unit	0957 580 632	1
600 mm	Add-on shelf	0957 580 642	1

Please consider the legal instruction at the beginning of this chapter.

- All indicated section widths are axial dimensions
- External dimensions
 - Width of basic shelf + 56 mm
 - Width of add-on shelf + 0 mm
 - Rack depth = shelf depth + 26 mm

Large compartment plug-in rack

Robust plug-in rack with 5 panels for heavy and bulky goods in warehouses, workshops and factories

- Pre-assembled frame for quick and easy plug-in assembly without additional tools
- Frame support in the form of a sturdy T section
- Cross beams and stepped bars for maximum stability
- Can be extended as required with add-on bays and accessories
- Panels with wooden inserts and a load capacity of 350 kg per bay (with evenly distributed load)
- Shelves with flexible height adjustment at 25 mm increments



Width	1695 mm
Depth	600 mm
Height	2000 mm
Bay load	2500 kg
Shelf load	350 kg

Type description	Art. no.	P. Qty.
Basic shelving unit	0957 584 602	1
Add-on shelf	0957 584 612	1

Please consider the legal instruction at the beginning of this chapter.

- All indicated section widths are axial dimensions
- External dimensions
 - Width of basic shelf + 56 mm
 - Width of add-on shelf + 0 mm
 - Rack depth = shelf depth + 26 mm

Plug-in corner rack

Robust plug-in rack with 10 steel shelves for medium loads and optimal use of space in warehouses, workshops and factories.



- Pre-assembled frame for quick and easy plug-in assembly without additional tools
- Frame support in the form of a sturdy T section
- Frame and shelf braces (cross beams and longitudinal bars) for maximum stability
- Can be extended as required with add-on bays and accessories
- Steel shelves with a load capacity of 150 kg per bay (for an evenly distributed load)
- Shelves with flexible height adjustment at 25 mm increments, easy installation using plug-in shelf support

Width	1005 mm
Height	2000 mm
Load capacity of shelf	150 kg
Type description	Corner rack
Bay load	2000 kg
Shelf load	150 kg

Depth	Art. no.	P. Qty.
300 mm	0957 580 320	1
400 mm	0957 580 420	1
500 mm	0957 580 520	1
600 mm	0957 580 620	1

Please consider the legal instruction at the beginning of this chapter.

- All indicated section widths are axial dimensions
- External dimensions
 - Width of basic shelf + 56 mm
 - Width of add-on shelf + 0 mm
 - Rack depth = shelf depth + 26 mm

Craftsman's shelf cabinet

Robust workshop shelf cabinet with grille doors for clear storage of consumable materials



- Lockable with a padlock to protect against unauthorised access
- Hinged doors with grids enable missing items to be noticed without opening
- Closed side walls made from solid sheet metal
- Can be used with the Pro or Basic add-on shelf of 500-mm depth
- Rear wall with square holes suitable for the range of hooks and brackets
- 3 levels with 150-kg load capacity
- Simple positioning with shelf supports

Width	1005 mm
Depth	500 mm
Height	2000 mm

Bay load	2000 kg
Shelf load	150 kg

Type description	Art. no.	P. Qty.
Basic shelving unit	0957 586 502	1
Add-on shelf	0957 586 512	1

Craftsman's add-on shelves only fit other craftsman's basic shelves.

Plug-in tyre rack

Robust plug-in rack available with 3 or 4 storage levels for safe storage and protection of tyres.

- Pre-assembled frame for quick and easy plug-in assembly without additional tools
- Frame support in the form of a sturdy T section
- Cross beams and support beams for maximum stability
- Can be extended as required with add-on bays and accessories
- Storage levels with a load capacity of 250 kg (with evenly distributed load)
- Support beams with flexible height adjustment at 25 mm increments
- Suitable for wheels up to a size of 19 inches



Width	1285 mm
Depth	400 mm
Shelf load	250 kg
Bay load	2000 kg

Height	Type description	Number of levels	Art. no.	P. Qty.
2000 mm	Basic shelving unit	3 PCS	0957 585 404	1
2000 mm	Add-on shelf	3 PCS	0957 585 414	1
2500 mm	Basic shelving unit	4 PCS	0957 585 405	1
2500 mm	Add-on shelf	4 PCS	0957 585 415	1

Please consider the legal instruction at the beginning of this chapter.

- All indicated section widths are axial dimensions
- External dimensions
 - Width of basic shelf + 56 mm
 - Width of add-on shelf + 0 mm
 - Rack depth = shelf depth + 26 mm
- Supplied empty

Garage plug-in rack

Sturdy plug-in rack for storage of, for example, tyres and car accessories.

- Quick and easy plug-in installation without any additional tools thanks to the pre-assembled frame
- Strong, T-profile frame support
- Cross beams and support bars for maximum stability



Width	1005 mm
Depth	400 mm
Height	2000 mm
Shelf load	250 kg
Bay load	2000 kg
Number of levels	4 PCS

Type description	Art. no.	P. Qty.
Basic shelving unit	0957 582 401	1
Add-on shelf	0957 582 411	1

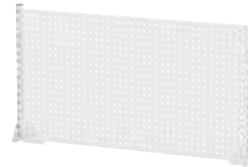
Please consider the legal instruction at the beginning of this chapter.

- All indicated section widths are axial dimensions
- External dimensions
 - Width of basic shelf + 56 mm
 - Width of add-on shelf + 0 mm
 - Rack depth = shelf depth + 26 mm
- Supplied empty

Mounting frame set For workbenches

Mounting frame with perforated panel for the clear storage of tools and small parts.

- Perforated panel for holder, hooks and mounting rail for holding tools and small parts.
- Customisable and ergonomic workplace design
- Can be converted and retrofitted at any time



Material	Sheet steel
Colour	Light grey RAL 7035
Depth	50 mm

Width	Height	Art. no.	P. Qty.
1500 mm	470 mm	0957 510 101	1
1500 mm	820 mm	0957 510 103	1
2000 mm	470 mm	0957 510 102	1
2000 mm	820 mm	0957 510 104	1

Mounting frame set 3

For workbenches with perforated wall and storage tray. A modular mounting frame that allows you to design your own workbenches and create an ergonomic workplace.

- Perforated panel for brackets, hooks and hanging rail for mounting tools and small parts. Storage tray for system storage box size 1.
- Customisable and ergonomic workplace design
- Can be converted or retrofitted at any time



Material	Sheet steel
Colour	Light grey RAL 7035
Depth	50 mm
Height	1270 mm

Width	Art. no.	P. Qty.
1500 mm	0957 510 105	1
2000 mm	0957 510 106	1

Worktop support

The PVC worktop cover protects the work surface and sensitive components from contamination and mechanical stress.

- Resistant to household cleaning agents
- Easy to clean, robust and tear-resistant
- The material withstands temperatures between -5°C and +60°C



Material	PVC - Polyvinyl chloride
Colour	Transparent
Resistance against	Water, Cleaning agent

Length x width x thickness	Art. no.	P. Qty.
1500 x 750 x 3 mm	0957 515 001	1
2000 x 750 x 3 mm	0957 515 002	1

The worktop supports can be used only to a limited extent in the case of the solid beech worktop

Worktop support

The PVC worktop cover is oil and petrol-resistant and protects the work surface and the components to be machined from contamination and mechanical stress.

- Resistant to oil and petrol
- Easy to clean, robust and tear-resistant
- The material withstands temperatures between -5°C and +60°C



Material	Polyvinyl chloride – flexible film
Colour	Transparent
Resistance against	Water, Cleaning agent, Oil, Petrol

Length x width x thickness	Art. no.	P. Qty.
1500 x 750 x 3 mm	0957 515 021	1
2000 x 750 x 3 mm	0957 515 022	1

The worktop supports can be used only to a limited extent in the case of the solid beech worktop

Wheeled cart PRO

Sturdy and easily manoeuvrable wheeled cart with storage trays and drawers. Ideal height for use in conjunction with the workbenches from the PRO line.

- Sturdy sheet steel construction, multi-folded and welded
- Central locking system secures the contents against theft
- Aluminium handle strip with labelling strips and transparent cover
- Drawers with over 80% partial extension, mounted on roller bearings
- Built-in safety drawer lock prevents tipping
- Internal drawer dimensions (W x D): 422 x 602 mm
- Drawer capacity: 100 kg with an evenly distributed load



Total load:

- 300 kg
- Rows of slots and perforated base for inserting dividers
- Two sturdy driving handles
- Two fixed castors and two steering rollers with brake, Ø 100 mm

Advantages of the PRO series:

- Choice of 4 RAL colours for the front panels
- Locks compatible with central locking system

Body colour	Light grey RAL 7035
Width x depth x height (external dimension)	570 x 680 x 790 mm
Load capacity	300 kg

Type description	Number of drawers	Drawer design	Colour of drawer	Art. no.	P. Qty.
PRO RW 2	2 PCS	1 drawer, box height 100 mm/ front height 150 mm, 1 drawer, box height 100 mm/ front height 180 mm	Traffic red RAL 3020	0957 341 020	1
PRO RW 2	2 PCS	1 drawer, box height 100 mm/ front height 150 mm, 1 drawer, box height 100 mm/ front height 180 mm	Gentian blue RAL 5010	0957 341 021	1
PRO RW 2	2 PCS	1 drawer, box height 100 mm/ front height 150 mm, 1 drawer, box height 100 mm/ front height 180 mm	Light grey RAL 7035	0957 341 022	1
PRO RW 2	2 PCS	1 drawer, box height 100 mm/ front height 150 mm, 1 drawer, box height 100 mm/ front height 180 mm	Traffic grey A RAL 7042	0957 341 024	1
PRO RW 3	3 PCS	1 drawer, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm	Traffic red RAL 3020	0957 341 030	1
PRO RW 3	3 PCS	1 drawer, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm	Gentian blue RAL 5010	0957 341 031	1
PRO RW 3	3 PCS	1 drawer, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm	Light grey RAL 7035	0957 341 032	1
PRO RW 3	3 PCS	1 drawer, box height 70 mm/ front height 90 mm, 2 drawers, box height 100 mm/ front height 120 mm	Traffic grey A RAL 7042	0957 341 034	1
PRO RW 4	4 PCS	2 drawers, box height 40 mm/ front height 60 mm, 1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm	Traffic red RAL 3020	0957 341 040	1
PRO RW 4	4 PCS	2 drawers, box height 40 mm/ front height 60 mm, 1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm	Gentian blue RAL 5010	0957 341 041	1
PRO RW 4	4 PCS	2 drawers, box height 40 mm/ front height 60 mm, 1 drawer, box height 70 mm/ front height 90 mm, 1 drawer, box height 100 mm/ front height 120 mm	Light grey RAL 7035	0957 341 042	1

Continuation **Wheeled cart PRO**

Type description	Number of drawers	Drawer design	Colour of drawer	Art. no.	P. Qty.
PRO RW 4	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 1 drawer, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	Traffic grey A RAL 7042	0957 341 044	1
PRO RW 5	4 PCS	1 drawer, box height 40 mm/front height 60 mm, 1 drawer, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 180 mm	Traffic red RAL 3020	0957 341 050	1
PRO RW 5	4 PCS	1 drawer, box height 40 mm/front height 60 mm, 1 drawer, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 180 mm	Gentian blue RAL 5010	0957 341 051	1
PRO RW 5	4 PCS	1 drawer, box height 40 mm/front height 60 mm, 1 drawer, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 180 mm	Light grey RAL 7035	0957 341 052	1
PRO RW 5	4 PCS	1 drawer, box height 40 mm/front height 60 mm, 1 drawer, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 180 mm	Traffic grey A RAL 7042	0957 341 054	1

Wheeled cart BASIC

Sturdy and easily manoeuvrable wheeled cart with storage trays and drawers.

- Built-in safety drawer lock prevents tipping
- Internal drawer dimensions (W x D): 435 x 512 mm
- Two robust handles
- Two castors and steering rollers with brake, Ø 100 mm

Body colour	Light grey RAL 7035
Colour of drawer	Gentian blue RAL 5010
Width x depth x height (external dimension)	572 x 600 x 790 mm
Load capacity	300 kg



Type description	Number of drawers	Drawer design	Art. no.	P. Qty.
BASIC RW 2	2 PCS	2 drawers, box height 100 mm/front height 150 mm	0957 505 000	1
BASIC RW 3	3 PCS	2 drawers, box height 70 mm/front height 90 mm, 1 drawer, box height 100 mm/front height 120 mm	0957 505 015	1
BASIC RW 4	4 PCS	2 drawers, box height 40 mm/front height 60 mm, 2 drawers, box height 70 mm/front height 90 mm	0957 505 020	1
BASIC RW 5	4 PCS	1 drawer, box height 40 mm/front height 60 mm, 1 drawer, box height 100 mm/front height 120 mm, 2 drawers, box height 100 mm/front height 180 mm	0957 505 030	1

Assembly trolley BASIC

Robust and easily manoeuvrable assembly trolley with three storage trays.

- Robust sheet steel construction, welded, with multiple edging
- Three robust storage trays with a load-bearing capacity of 100 kg each
- Aluminium handle strip with labelling strips and transparent cover
- Maximum load: 300 kg
- Rows of slots and perforated base to insert dividers
- Two robust steering handles
- Two fixed and two steering rollers with brake, Ø 100 mm



Type description	BASIC WMW 1/3
Drawer design	Without drawers
Body colour	Light grey RAL 7035
Width x depth x height (external dimension)	572 x 600 x 790 mm
Load capacity	300 kg

Art. no. 0957 505 040

P. Qty.: 1

Mobile assembly stool

Makes it easier to perform lengthy work tasks at low heights (e.g. when working on brakes or chassis).

- Infinitely adjustable height, max. body weight 100 kg
- Gas-assisted
- 5 casters (2 lockable)
- 2 storage compartments

Min./max. height	37-50 cm
Number of rolls	5 PCS
Seat diameter	34 cm



Art. no. 0715 93 04

P. Qty.: 1

BASIC swivel work chair with synthetic leather cover

Robust workshop chair with adjustable backrest

- Especially durable and easy to clean due to synthetic leather upholstery on seat and backrest
- Ergonomically shaped seat with pelvis support, backrest and integrated lumbar support
- Permanent contact backrest supports the movements of the upper body and can be locked in any position



Type description	BASIC 1
Adjustable seat inclination	No
Height adjustment	Yes
Colour of seating	Black
Min./max. height	450-600 mm
Seating material	Imitation leather
Seat width	460 mm
Seat depth	470 mm
Backrest height	500 mm
With armrests	Optional
Base frame design	Five-star base with rollers
Number of rolls	5 PCS

Art. no. 0957 591 001

P. Qty.: 1



Delivered dismantled with assembly instructions

BASIC swivel work chair with Supertec cover

Robust workshop chair with adjustable backrest

- Extremely robust, cut-proof and easy to clean as well as being soft and breathable
- Ergonomically shaped seat with pelvis support, backrest and integrated lumbar support
- Permanent contact backrest supports the movements of the upper body and can be locked in any position



Type description	BASIC 2
Adjustable seat inclination	No
Height adjustment	Yes
Colour of seating	Black
Min./max. height	450-600 mm
Seating material	Supertec
Seat width	460 mm
Seat depth	470 mm
Backrest height	500 mm
With armrests	Optional

Base frame design	Five-star base with rollers
Number of rolls	5 PCS

Art. no. 0957 591 005

P. Qty.: 1



Delivered dismantled with assembly instructions

PRO swivel work chair with synth leather cover

For the most demanding ergonomic requirements

- Synchronous technology for dynamic sitting
- Weight regulation for adapting to bodyweight
- Seat height, seat tilt and seat depth adjustment
- Backrest height adjustment
- Ergonomically shaped seat with pelvic support in the rear area
- Backrest with integrated lumbar support
- Extra high version for back support over a large area
- Especially durable and easy to clean due to synthetic leather upholstery on seat and backrest
- Stable, flat plastic base with load-dependent braked castors for hard floors



Type description	PRO 1
Adjustable seat inclination	Yes
Height adjustment	Yes
Colour of seating	Black
Min./max. height	440-620 mm
Seating material	Imitation leather
Seat width	450 mm
Seat depth	470 mm
Backrest height	600 mm
With armrests	Optional
Base frame design	Five-star base with rollers
Number of rolls	5 PCS

Art. no. 0957 591 010

P. Qty.: 1



Delivered dismantled with assembly instructions

PRO swivel work chair with fabric cover

For the most demanding ergonomic requirements

- Synchronous technology for dynamic sitting
- Weight regulation for adapting to bodyweight
- Seat height, seat tilt and seat depth adjustment
- Backrest height adjustment
- Ergonomically shaped seat with pelvic support in the rear area
- Backrest with integrated lumbar support
- Extra high version for back support over a large area
- Especially breathable due to material padding on seat and backrest
- Stable, flat plastic base with load-dependent braked castors for hard floors



Type description	PRO 2
Adjustable seat inclination	Yes
Height adjustment	Yes
Colour of seating	Black
Min./max. height	440-620 mm
Seating material	Material
Seat width	450 mm
Seat depth	470 mm
Backrest height	600 mm
With armrests	Optional
Base frame design	Five-star base with rollers
Number of rolls	5 PCS

Art. no. 0957 591 015

P. Qty.: 1



Delivered dismantled with assembly instructions

4-legged workshop stool

Made of solid strip steel with prop base for workshop and industry

- Shaped sheet steel
- Riveted legs and crossbars
- Round beech seat

Type description	HF4
Height	500 mm
Colour	Black grey RAL 7021
Seat diameter	350 mm
Surface	Powder-coated
Seating material	Beech



Art. no. 0957 500 001

P. Qty.: 1

3-legged workshop stool

Made of solid strip steel with prop base for workshops and industry

- Shaped sheet steel
- Riveted legs and crossbars
- Round beech seat

Type description	HF3
Height	500 mm
Colour	Black grey RAL 7021
Seat diameter	350 mm
Surface	Powder-coated
Seating material	Beech



Art. no. 0957 500 000

P. Qty.: 1

Mobile stool

For combined workspaces

- Soft-touch PU foam is robust and easy to clean
- Ergonomic seat shape provides maximum space
- Sturdy, low-profile plastic cruciform base with load-dependent braked castors for hard floors

Min./max. height	450-650 mm
Colour	Black
Seat diameter	400 mm
Base frame design	Five-star base with rollers
Seating material	PU foam



Art. no. 0957 591 020

P. Qty.: 1



Delivered dismantled with assembly instructions

Armrest for PRO/BASIC swivel work chair

Multi-function armrest for PRO and BASIC swivel work chairs.

- Swivelling and adjustable in height, depth and width
- Ideal adaptation to the user possible
- Can be subsequently assembled without problems

Colour	Black
Material	Plastic

Art. no. 0957 591 030

P. Qty.: 1

Item consists of left and right armrest



Standing support

For reducing the strain on individual parts of the body at assembly/standing workstations

- Protects muscles and skeleton through variable positioning of individual parts of the body
- Soft-touch PU foam is robust and easy to clean
- Sturdy, low-profile plastic cruciform base with gliders
- Chrome-plated foot ring, height adjustable with quick adjustment (without tools)

Height adjustment	Yes
Min./max. height	510-780 mm
Seating material	PU foam
With footrest	Yes
Base frame design	Five-star base with glides
Seat width	360 mm
Seat depth	380 mm
Backrest height	200 mm
Max. height	780 mm
Material of the frame	Plastic

Art. no. 0957 591 025

P. Qty.: 1



Delivered dismantled with assembly instructions

Workshop crawler board with padded liner

**Extremely robust and easy-to-handle racing rollers
with replaceable TPU steering rollers**

- Ergonomically designed cushion pads for back, shoulders and head areas in carbon finish
- Wheels made of high-quality plastic for hard and delicate flooring
- With magnetic holder on the left and right next to the head cushions



Length (L)	1045 mm
Width (B)	517 mm
Height (H)	90 mm
Load capacity	130 kg
Material	Plastic reinforced with glass fibre
Colour	Black
Number of rolls	6 PCS
Product weight (per item)	4700 g

Art. no. 0715 93 55

P. Qty.: 1



Professional aluminium telescopic ladder

Flexible for use as a leaning, step and staircase ladder, and as two separate work trestles

- Desired working height in distance between rungs can easily be adjusted using sturdy locking lever
- Robust, automatically locking safety section joints
- Can be used as a stepladder, even on stairs

Material	Aluminium
Surface	Plain
Load capacity	150 kg

Number of rungs	Min./max. length as standard ladder	Max. standing height as standard ladder	Min./max. length as step ladder	Max. standing height as step ladder	Art. no.	P. Qty.
4 x 3	1.96-3.08 m	1.85 m	0.98-1.5 m	0.84 m	0962 931 413	1
4 x 4	2.5-4.2 m	2.91 m	1.23-2.03 m	1.35 m	0962 931 414	1
4 x 5	3.07-5.3 m	3.97 m	1.49-2.57 m	1.88 m	0962 931 415	1
4 x 6	3.64-6.4 m	5.02 m	1.78-3.14 m	2.41 m	0962 931 416	1

Professional aluminium telescopic ladder with traverse

For flexible use as a leaning, free-standing and stair ladder

- Desired working height in distance between rungs can easily be adjusted using sturdy locking lever
- Robust, automatically locking safety section joints
- Can be used as a stepladder, even on stairs

Material	Aluminium
Surface	Plain
Load capacity	150 kg



Number of rungs	Min./max. length as standard ladder	Max. standing height as standard ladder	Min./max. length as step ladder	Max. standing height as step ladder	Art. no.	P. Qty.
4 x 3	1.96-3.08 m	1.85 m	0.98-1.5 m	0.84 m	0962 931 443	1
4 x 4	2.50-4.2 m	2.91 m	1.23-2.03 m	1.35 m	0962 931 444	1
4 x 5	3.07-5.3 m	3.97 m	1.49-2.57 m	1.88 m	0962 931 445	1
4 x 6	3.64-6.44 m	5.02 m	1.78-3.14 m	2.41 m	0962 931 446	1

The traverse (including fastening material) is included with the ladder and can be fitted in just a few easy steps.

Aluminium rungged stepladder

Double-sided access

- Highly torsion-resistant
- Very good bending resistance
- Secure footing
- Step safety

Material	Aluminium
Surface	Plain
Load capacity	150 kg



Number of rungs	Length	Width (bottom)/width (top)	Stand height	Art. no.	P. Qty.
2 x 5	1.56 m	0.50/0.31 m	0.68 m	0962 931 105	1
2 x 6	1.84 m	0.54/0.31 m	0.93 m	0962 931 106	1
2 x 7	2.13 m	0.57/0.31 m	1.18 m	0962 931 107	1
2 x 8	2.41 m	0.61/0.31 m	1.43 m	0962 931 108	1
2 x 9	2.69 m	0.64/0.31 m	1.68 m	0962 931 109	1
2 x 10	2.97 m	0.67/0.31 m	1.93 m	0962 931 110	1
2 x 12	3.54 m	0.74/0.31 m	2.43 m	0962 931 112	1
2 x 14	4.1 m	0.81/0.31 m	2.93 m	0962 931 114	1



Aluminium step ladder Riveted

Steps with tested slip resistance

- 85 mm deep steps with grooved surface ensure a high level of stepping safety and a comfortable, safe footing
- Strut/rung connection with special rivets and additional reinforcement struts ensure a high level of robustness and good torsional rigidity
- From dimension 2x9 upwards with metal cross brace for even greater stability



Material	Aluminium
Surface	Plain
Load capacity	150 kg

Number of steps	Length	Width (bottom)/width (top)	Stand height	Art. no.	P. Qty.
2 x 3	0.73 m	0.43/0.34 m	0.21 m	0962 931 503	1
2 x 4	0.96 m	0.45/0.34 m	0.42 m	0962 931 504	1
2 x 5	1.19 m	0.47/0.34 m	0.63 m	0962 931 505	1
2 x 6	1.42 m	0.50/0.34 m	0.85 m	0962 931 506	1
2 x 7	1.65 m	0.52/0.34 m	1.05 m	0962 931 507	1
2 x 8	1.88 m	0.55/0.34 m	1.27 m	0962 931 508	1
2 x 9	2.11 m	0.57/0.34 m	1.47 m	0962 931 509	1
2 x 10	2.34 m	0.60/0.34 m	1.69 m	0962 931 510	1
2 x 11	2.57 m	0.62/0.34 m	1.91 m	0962 931 511	1
2 x 12	2.8 m	0.64/0.34 m	2.12 m	0962 931 512	1



Aluminium stepladder with platform

With practical tool tray. Steps with tested slip resistance

- The grooved platform and high safety bar ensure safe and comfortable working
- 85 mm deep steps with grooved surface ensure a high level of stepping safety and a comfortable, safe footing
- Strut/rung connection with special rivets and additional reinforcement struts ensure a high level of robustness and good torsional rigidity



Material	Aluminium
Surface	Plain
Load capacity	150 kg

Number of steps (including platform)	Length	Width (bottom)/width (top)	Stand height	Art. no.	P. Qty.
1 x 3	1.5 m	0.48/0.33 m	0.75 m	0962 931 803	1
1 x 4	1.77 m	0.52/0.33 m	1 m	0962 931 804	1
1 x 5	2.06 m	0.54/0.33 m	1.25 m	0962 931 805	1
1 x 7	2.59 m	0.60/0.33 m	1.75 m	0962 931 807	1
1 x 9	3.1 m	0.66/0.33 m	2.25 m	0962 931 809	1



Wooden stepladder

With rungs made from hardwood and double-mortised rung/strut connection

- Tear-resistant spread-prevention belts
- Bucket hook built into hinge
- Wooden transport lock at ladder base

Material	Wood
Load capacity	150 kg



Number of rungs	Length	Width (bottom)/width (top)	Stand height	Art. no.	P. Qty.
2 x 3	0.96 m	467/380 mm	0.26 m	0962 932 103	1
2 x 9	2.64 m	647/380 mm	1.85 m	0962 932 109	1
2 x 10	2.92 m	677/380 mm	2.11 m	0962 932 110	1

Hybrid ladder single-sided

Wooden ladder, single-sided with two non-slip 80 mm deep aluminium steps with tested slip resistance for safe and effortless work according to TRBS 2121-2

- With finger pinch protection when folding due to 25 mm strut clearance
- Secure and stable thanks to two round metal rods on each side, which clamp the struts together
- Hardwood rungs, double mortised

Material of the beam	Wood
Material of the rungs	Wood
Material of the steps	Aluminium
Number of steps	2
Load capacity	150 kg



Continuation **Hybrid ladder single-sided**

Number of rungs	Length	Width (bottom)/width (top)	Stand height	Art. no.	P. Qty.
2 x 4	1.2 m	470/340 mm	0.5 m	0962 934 504	1
2 x 5	1.5 m	500/340 mm	0.8 m	0962 934 505	1
2 x 6	1.7 m	530/340 mm	1 m	0962 934 506	1
2 x 7	2 m	560/340 mm	1.3 m	0962 934 507	1
2 x 8	2.3 m	590/340 mm	1.5 m	0962 934 508	1
2 x 9	2.5 m	620/340 mm	1.8 m	0962 934 509	1
2 x 10	2.8 m	650/340 mm	2 m	0962 934 510	1



The aluminium rungs (including fastening material) are included with the ladder and can be fitted in just a few easy steps.

Wooden rungged stepladder

Hardwood rungs

- With finger pinch protection when folding due to 25 mm strut clearance
- Secure and stable thanks to two round metal rods per side, which clamp the struts together.
- Double mortised strut/rung connection



Material	Wood
Load capacity	150 kg

Number of rungs	Length	Width (bottom)/width (top)	Stand height	Art. no.	P. Qty.
2 x 3	0.9 m	440/340 mm	0.2 m	0962 932 703	1
2 x 4	1.2 m	470/340 mm	0.5 m	0962 932 704	1
2 x 5	1.5 m	500/340 mm	0.8 m	0962 932 705	1
2 x 6	1.7 m	530/340 mm	1 m	0962 932 706	1
2 x 7	2 m	560/340 mm	1.3 m	0962 932 707	1
2 x 8	2.3 m	590/340 mm	1.5 m	0962 932 708	1
2 x 9	2.5 m	620/340 mm	1.8 m	0962 932 709	1
2 x 10	2.8 m	650/340 mm	2 m	0962 932 710	1



Hybrid ladder Double-sided

Wooden ladder, double-sided with two non-slip 80 mm deep aluminium steps with tested slip resistance for safe and effortless work according to TRBS 2121-2

- With finger pinch protection when folding due to 25 mm strut clearance
- Secure and stable thanks to two round metal rods on each side, which clamp the struts together
- Hardwood rungs, double mortised



Material of the beam	Wood
Material of the rungs	Wood
Material of the steps	Aluminium
Number of steps	4
Load capacity	150 kg

Number of rungs	Length	Width (bottom)/width (top)	Stand height	Art. no.	P. Qty.
2 x 4	1.2 m	470/340 mm	0.5 m	0962 934 604	1
2 x 5	1.5 m	500/340 mm	0.8 m	0962 934 605	1
2 x 6	1.7 m	530/340 mm	1 m	0962 934 606	1
2 x 7	2 m	560/340 mm	1.3 m	0962 934 607	1
2 x 8	2.3 m	590/340 mm	1.5 m	0962 934 608	1
2 x 9	2.5 m	620/340 mm	1.8 m	0962 934 609	1
2 x 10	2.8 m	650/340 mm	2 m	0962 934 610	1



The aluminium rungs (including fastening material) are included with the ladder and can be fitted in just a few easy steps.

Axle stand with quick-adjustment feature

Ideal for securing and supporting heavy loads

- Robust axle stand made of solid steel
- Great stability
- Multi-stage quick-release lever

Material	Steel
Colour	Black, Red



Load capacity	Min. height	Max. height	Surface area width	Surface area length	Art. no.	P. Qty.
3000 kg	285 mm	425 mm	180 mm	205 mm	0691 850 3	1
6000 kg	390 mm	605 mm	245 mm	285 mm	0691 850 6	1
12000 kg	495 mm	720 mm	290 mm	330 mm	0691 850 12	1

Always sold in pairs

Stationary platform

For retrofitting Würth aluminium runged ladders to be able to continue using this as a workspace according to TRBS 2121 Part 2

- Foldable and can thus remain on the ladder without disrupting transport or storage
- Large, grooved platform ensures a comfortable and secure footing
- Due to assembly using hinge screws, the platform is firmly connected to the ladder and can still be mounted at another point of the ladder if required



Material	Aluminium
Width	260 mm
Depth	265 mm
Max. loading weight	150 kg
For rung dimension	28 x 28 mm
For rung distance	280 - 285 mm

Art. no. 0962 931 916

P. Qty.: 1

Strut extension

Universal for aluminium leaning ladders for easy and safe climbing over

- Extremely safe, as climbing over simply takes place between the strut extensions
- The position can be adjusted in three stages depending on the roof slope
- Folds parallel to the strut



Material	Aluminium/aluminium
For beam width	up to 25 mm
For beam height	58-102 mm

Art. no. 0962 931 917

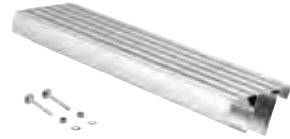
P. Qty.: 1



Retrofit step For runged aluminium single-section ladders

Comfortable and safe standing position according to TRBS 2121 Part 2. With tested slip resistance

- 80 mm deep steps with grooved surface
- Precision-fit, positive-locking clamp, screw connection, simply attach and tighten
- May remain on the ladder during transport



Material	Aluminium
Surface	Plain
Depth	80 mm
Max. loading weight	150 kg

Width	Art. no.	P. Qty.
275 mm	0962 930 912	1
275 mm	0962 930 913	1
347 mm	0962 930 922	1
347 mm	0962 930 923	1

Aluminium hook-in step

For wooden wide-rung ladders

- Comfortable and secure footing thanks to large, corrugated platform
- The platform complies with TRBS 2121 Part 2



Material	Aluminium/aluminium
Width	270 mm
Depth	268 mm
Max. loading weight	150 kg
For rung width max.	44 mm
For rung high max.	44 mm
For rung distance	280 - 285 mm

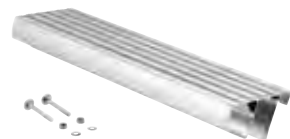
Art. no. 0962 931 918

P. Qty.: 1

Retrofit step For aluminium runged stepladders

Comfortable and safe standing position according to TRBS 2121 Part 2. With tested slip resistance

- 80 mm deep, serrated surface
- Precision-fit, positive-locking clamp, screw connection, simply attach and tighten
- May remain on the ladder during transport



Material	Aluminium
Surface	Plain
Depth	80 mm
Max. loading weight	150 kg

Continuation **Retrofit step For aluminium runged stepladders**

Width	Art. no.	P. Qty.
321/355 mm	0962 930 930	1
355 mm	0962 930 932	1
355 mm	0962 930 933	1

Rungs 1 and 2 must not be climbed. That's why the basic set is specifically designed to the width of the 3rd and 4th rungs.

With the 2-part and 3-part extension sets, additional rungs from rung 5 downwards can be retrofitted if necessary.

Retrofit step For wooden runged stepladders/hybrid ladders

Comfortable and safe standing position according to TRBS 2121 Part 2. With tested slip resistance

- 80 mm deep, serrated surface
- Precision-fit, positive-locking clamp, screw connection, simply attach and tighten
- May remain on the ladder during transport



Material	Aluminium
Surface	Plain
Depth	80 mm
Max. loading weight	150 kg

Width	Art. no.	P. Qty.
380/410 mm	0962 930 940	1
380 mm	0962 930 941	1
410 mm	0962 930 942	1
410 mm	0962 930 943	1
360/390 mm	0962 930 950	1
390 mm	0962 930 952	1
390 mm	0962 930 953	1

Rungs 1 and 2 must not be climbed. That's why the basic set is specifically designed to the width of the 3rd and 4th rungs. With the 2-part and 3-part extension sets, additional rungs from rung 5 downwards can be retrofitted if necessary.

Aluminium runged leaning ladder

Lightweight and strong

- High torsional rigidity thanks to quadruple flanged and pressed connections between struts and rungs
- Rungs and spar made of extruded aluminium for very good bending resistance
- Secure footing thanks to non-slip 2-component ladder feet/cross rail shoes

Material	Aluminium
Surface	Plain
Load capacity	150 kg



Number of rungs	Length	Width	Stand height	Art. no.	P. Qty.
1 x 6	1.85 m	0.35 m	0.71 m	0962 930 106	1
1 x 8	2.41 m	0.35 m	1.21 m	0962 930 108	1
1 x 10	2.97 m	0.35 m	1.71 m	0962 930 110	1
1 x 12	3.55 m	0.43 m	2.21 m	0962 930 112	1
1 x 14	4.11 m	0.43 m	2.71 m	0962 930 114	1
1 x 16	4.68 m	0.43 m	3.21 m	0962 930 116	1
1 x 18	5.25 m	0.43 m	3.71 m	0962 930 118	1
1 x 20	5.81 m	0.43 m	4.21 m	0962 930 120	1
1 x 24	6.95 m	0.43 m	4.71 m	0962 930 124	1



The traverse (including fastening material) is included with the ladder and can be fitted in just a few easy steps.

Wooden leaning ladder

Extra sturdy design

- Increased stability and tilt resistance thanks to the cross rail and non-slip 2-component cross rail shoes

Material	Wood
Width	44.5 cm



Number of rungs	Length	Stand height	Art. no.	P. Qty.
1 x 10	3 m	1.8 m	0962 932 610	1
1 x 14	4 m	2.8 m	0962 932 614	1
1 x 17	5 m	3.3 m	0962 932 617	1

The traverse (including fastening material) is included with the ladder and can be fitted in just a few easy steps.



Multipurpose aluminium ladder

Flexible for use as a leaning, extension or stepladder

- Robust guide fittings with slide bearings made from abrasion-resistant plastic provide secure, torsion-resistant support for the ladder parts
- High torsional rigidity thanks to quadruple flanged and pressed connections between struts and rungs
- Very good bending resistance, as rungs are made of extruded aluminium profile

Material	Aluminium
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Number of rungs	Min./max. length as standard ladder	Step ladder with sliding part: Min./Max. length	Step ladder with sliding part: Max. standing height	Step ladder without sliding part: Length	Art. no.	P. Qty.
3 x 8	2.42-5.25 m	2.4-3.9 m	2.9 m	2.42 m	0962 930 608	1
3 x 10	2.98-6.95 m	3-5 m	3.96 m	3 m	0962 930 610	1

Multi-purpose aluminium ladder

Stowaway ladder, flexible for use as a standard or step ladder

- Space-saving in vehicles and stockrooms
- Stable, automatically locking steel wire hanger joints
- Highly torsion-resistant

Material	Aluminium
Number of rungs	4 x 4
Load capacity	150 kg
Standing height as standard ladder	3.21 m
Standard ladder with wall distance: Standing height	2.4 m
Standing height as step ladder	1.54 m
Transport dimension	1.23 x 0.35 x 0.27 m
Weight	14.6 kg



Art. no. 0962 931 624

P. Qty.: 1



The traverses (including fastening material) are included with the ladder and can be fitted in just a few easy steps.

Multipurpose aluminium ladder

Stowaway ladder, flexible for use as a leaning or step ladder, or as a work platform.

- Space-saving in vehicles and stockrooms
- Solid, automatically engaging steel wire joints
- Highly torsion-resistant
- Very good bending resistance
- Secure footing
- Step safety

Material	Aluminium
Number of rungs	4 x 3
Load capacity	150 kg
Standing height as standard ladder	2.21 m
Standard ladder with wall distance: Standing height	1.57 m
Standing height as step ladder	1 m
Working platform: Standing height	0.93 m
Transport dimension	0.94 x 0.35 x 0.27 m
Weight of ladder	13.1 kg
Weight of platform	4.2 kg



Continuation **Multipurpose aluminium ladder**

Art. no. 0962 931 613

P. Qty.: 1



The traverse (including fastening material) is included with the ladder and can be fitted in just a few easy steps.

Aluminium extension ladder

Two pieces

- Easy extension and retraction
- Ladder parts are secure and torsion-resistant
- The sliding part can be used on both sides due to ladder feet at both ends and rungs grooved on both sides (type 2x8, type 2x10)

Material	Aluminium
Surface	Plain
Width	0.43 m
Load capacity	150 kg



Number of rungs	Min./max. length	Max. stand height	Art. no.	P. Qty.
2 x 8	2.42-3.84 m	2.46 m	0962 930 208	1
2 x 10	2.98-4.96 m	3.46 m	0962 930 210	1
2 x 12	3.55-6.09 m	4.46 m	0962 930 212	1
2 x 14	4.11-7.22 m	5.46 m	0962 930 214	1
2 x 16	4.68-8.36 m	6.46 m	0962 930 216	1
2 x 18	5.25-9.49 m	7.46 m	0962 930 218	1



The traverse (including fastening material) is included with the ladder and can be fitted in just a few easy steps.

Aluminium rope ladder

Two parts with runners

- Very safe, as there is no interfering rope in the rung area
- Easy extension and retraction
- Ladder parts are secure and torsion-resistant

Material	Aluminium
Width	0.43 m
Load capacity	150 kg



Number of rungs	Min./max. length	Max. stand height	Art. no.	P. Qty.
2 x 14	4.12-7.22 m	5.46 m	0962 930 514	1
2 x 16	4.69-8.36 m	6.46 m	0962 930 516	1
2 x 18	5.26-9.49 m	7.46 m	0962 930 518	1
2 x 20	5.81-10.62 m	8.46 m	0962 930 520	1



The traverse (including fastening material) is included with the ladder and can be fitted in just a few easy steps.



Aluminium assembly trestle

For use on construction sites and in workshops

Width (B)	80 cm
Height (H)	80 cm
Load capacity	230 kg
Material	Aluminium
Surface	Plain

Art. no. 0962 931 910

P. Qty.: 1

Wooden assembly trestle

Width (B)	55 cm
Height (H)	92 cm
Load capacity	100 kg
Material	Wood

Art. no. 0962 932 910

P. Qty.: 1



Folding, movable basic scaffolding

Compact, lightweight and robust, stand height 0.7 m

- Easy to set up without tools
- Flap hinge saves space during transport and storage
- Flexible standing heights, as the platform can be mounted at different heights

Material	Aluminium
Load capacity	150 kg
Max. number of people	1
Max. stand height	0.7 m



Art. no. 0962 931 705

P. Qty.: 1



Max. Standing height:

- Basic framework without accessories: 0.7 m (2nd rung)
- Basic frame with tip prevention Pro: 1.0 m (3rd rung)
- Basic frame with telescopic support set: 1.0 m (3rd rung)
- Basic frame with telescopic support set and railing set: 1.55 m (5th rung)

Folding roller scaffold Pro

Compact, lightweight and robust, stand height 1.0 m

- Easy to set up without tools
- Flexible stand heights and increased stand stability
- Using accessories, stand heights up to 1.55 m are possible

Material	Aluminium
Load capacity	150 kg
Max. number of people	1
Max. stand height	1 m



Art. no. 0962 931 706

P. Qty.: 1



Max. Standing height:

- Basic framework without accessories: 0.7 m (2nd rung)
- Basic frame with tip prevention Pro: 1.0 m (3rd rung)
- Basic frame with telescopic support set: 1.0 m (3rd rung)
- Basic frame with telescopic support set and railing set: 1.55 m (5th rung)

Folding roller scaffold, complete set

Compact, lightweight and robust, stand height 1.55 m

- Easy to set up without tools
- Flexible stand heights
- Retractable telescopic supports for even greater stability



Material	Aluminium
Load capacity	150 kg
Max. number of people	1
Max. stand height	1.55 m

Art. no. 0962 931 710

P. Qty.: 1

Contents for art. no. 0962 931 710			
Designation	Art. no.	Quantity	
Set of railings	0962 931 703	1	
Folding, movable basic scaffolding	0962 931 705	1	
Telescopic support set	0962 931 708	1	



Folding roller area-wide scaffold, complete set

Compact, lightweight and robust, stand height 1.55 m

- A lot of freedom of movement and space for equipment and tools
- Easy setup without tools and space-saving during transport and storage
- Adjustable stand height
- Optimum stability and space-saving storage on frame
- 4 steering rollers with locking brake



Material	Aluminium
Load capacity	200 kg
Max. number of people	2
Max. stand height	1.55 m

Art. no. 0962 931 720

P. Qty.: 1



Max. Standing height:

- Basic framework without accessories: 0.7 m (2nd rung)
- Basic frame with tip prevention Pro: 1.0 m (3rd rung)
- Basic frame with telescopic support set: 1.0 m (3rd rung)
- Basic frame with telescopic support set and railing set: 1.55 m (5th rung)

Supplied in modules

Assembly platform

Compact and sturdy

- Rapid assembly and space-saving transport/storage
- The ascending parts automatically snap into use/transport position
- Easy to transport



Platform dimension	1.7 x 0.5 m
Max. load capacity	300 kg
Stand height	0.58 m
Transport dimension	1.75 x 0.6 x 0.2 m

Art. no. 0962 940 600

P. Qty.: 1



Grating assembly platform

Compact and robust, ideal for tasks involving contact with dirt

- Non-slip, dirt simply falls through
- Quick set-up and space-saving transport/storage
- Climbing parts lock automatically into place in usage/transport position



Material	Aluminium
Platform dimension	1.55 x 0.55 m
Max. load capacity	300 kg
Stand height	0.65 m
Transport dimension	1.6 x 0.77 x 0.15 m

Art. no. 0962 931 760

P. Qty.: 1



Stepladder

Steps with tested slip resistance

- The extra-large, grooved standing platform ensures safe and comfortable working
- Accessible from both sides; can be folded away
- Can be expanded with another ladder step and up to two Würth telescopic planks next to each other to form a large working platform



Continuation Stepladder

Material	Aluminium
Surface	Plain
Load capacity	150 kg

Number of steps (including platform)	Length	Width (bottom)/width (top)	Stand height	Art. no.	P. Qty.
2 x 2	0.52 m	0.65/0.61 m	0.37 m	0962 930 702	1
2 x 3	0.71 m	0.67/0.61 m	0.56 m	0962 930 703	1
2 x 4	0.91 m	0.69/0.61 m	0.74 m	0962 930 704	1
2 x 5	1.11 m	0.71/0.61 m	0.93 m	0962 930 705	1



Lightweight platform ladder

With long handrails and large platform. Steps with tested slip resistance

- The extra-large, grooved standing platform, high safety bar and handrails ensure safe and comfortable working even over longer periods of time
- The handrails can be folded in to save time and space during transport and storage
- Storage possibility thanks to tray integrated in the safety bar



Material	Aluminium
Surface	Plain
Load capacity	150 kg

Number of steps (including platform)	Length	Width (bottom)/width (top)	Stand height	Art. no.	P. Qty.
1 x 3	1.93 m	0.57/0.38 m	0.75 m	0962 931 843	1
1 x 4	2.2 m	0.60/0.38 m	1 m	0962 931 844	1
1 x 5	2.47 m	0.63/0.38 m	1.25 m	0962 931 845	1
1 x 6	2.71 m	0.66/0.38 m	1.5 m	0962 931 846	1
1 x 7	2.98 m	0.69/0.38 m	1.75 m	0962 931 847	1
1 x 8	3.25 m	0.72/0.38 m	2 m	0962 931 848	1



Aluminium step-leaning ladder Riveted

Steps with tested slip resistance

- Step safety
- Robust, highly torsion-resistant
- Very good bending resistance

Material	Aluminium
Surface	Plain
Width	0.44 m
Load capacity	150 kg



Number of steps	Length	Stand height	Art. no.	P. Qty.
1 x 6	1.56 m	0.63 m	0962 930 406	1
1 x 7	1.79 m	0.84 m	0962 930 407	1
1 x 8	2.02 m	1.06 m	0962 930 408	1
1 x 9	2.25 m	1.27 m	0962 930 409	1
1 x 10	2.48 m	1.48 m	0962 930 410	1
1 x 11	2.71 m	1.69 m	0962 930 411	1
1 x 12	2.94 m	1.9 m	0962 930 412	1



Universal load dolly

The universal load dolly is a problem-solving solution for tilers, removal firms, furniture companies, carpenters, joiners etc.

- Extremely robust construction
- Special coating prevents the transported items from sliding around

Width	600 mm
Depth	350 mm
Height	145 mm
Load capacity	500 kg
Material	Multiplex beech
Material of the wheel	Plastic

Art. no. 0715 93 95

P. Qty.: 1

Universal load dolly With soft rollers

Robust, universal load dolly with high load capacity

- Non-slip coating prevents the goods to be transported from shifting
- Soft tread made of high-quality plastic, suitable for hard and delicate floorings
- Sturdy screw connection for the steering rollers, 18 mm thick birch plywood board



Width	575 mm
Depth	300 mm
Height	140 mm
Load capacity	400 kg
Material	Wood
Material of the wheel	PA - Polyamide

Art. no. 0715 93 988

P. Qty.: 1

Stack trolley

For easy transportation of light and heavy objects.

- Permanently welded steel construction
- Steel tube, Ø 26.9 x 1.75 mm
- Base plate made from 4 mm thick sheet steel
- Solid rubber or pneumatic wheels fitted with plastic rims and roller bearings
- Handles with safety bar made of high-strength plastic (in accordance with DIN EN 1757-3) protect against hand injuries
- Powder-coated in RAL 5010 (gentian blue)



Toe plate width	300 mm
Toe plate depth	225 mm
Load capacity	200 kg

Wheel diameter	Material of the wheel	Art. no.	P. Qty.
250 mm	Solid rubber	0962 400 103	1
260 mm	Air	0962 400 102	1

Stack trolley with step skids

With integrated step sliding skids for travelling over uneven ground and ledges.

- Step skids are secured with clips and can be replaced if necessary
- Permanently welded steel construction
- Steel tube, Ø 26.9 x 1.75 mm
- Base plate made from 4 mm thick sheet steel
- Wheels with plastic rims and roller bearings
- Handles with safety bar made of high-strength plastic (in accordance with DIN EN 1757-3) protect against hand injuries



Toe plate width	300 mm
Toe plate depth	225 mm

Load capacity	Wheel diameter	Material of the wheel	Art. no.	P. Qty.
200 kg	250 mm	Solid rubber	0962 400 107	1
250 kg	260 mm	Air	0962 400 106	1

Aluminium sack truck

Vertically welded tubes on the back enable bagged items and smaller objects to be transported.

- Permanently welded aluminium construction
- Aluminium tube, Ø 25.0 x 2 mm
- Base plate made from 4 mm thick sheet aluminium
- Polyurethane or pneumatic wheels fitted with plastic rims and roller bearings
- Handles with safety bar made of high-strength plastic (in accordance with DIN EN 1757-3) protect against hand injuries



Toe plate width	345 mm
Toe plate depth	170 mm
Load capacity	150 kg
Wheel diameter	260 mm
Material of the wheel	Polyurethane

Art. no. 0962 400 109

P. Qty.: 1

Sack truck

Vertically welded tubes on the back enable bagged items and smaller objects to be transported.

- Permanently welded steel construction
- Steel tube Ø 26.9 x 1.75 mm
- Base plate made from 4 mm thick sheet steel
- Solid rubber or pneumatic wheels with plastic rims and roller bearings
- Handles with safety bar made of high-strength plastic (in line with DIN EN 1757-3) protect against hand injuries



Toe plate width	400 mm
Toe plate depth	180 mm
Load capacity	200 kg

Wheel diameter	Material of the wheel	Art. no.	P. Qty.
250 mm	Solid rubber	0962 400 101	1
260 mm	Air	0962 400 100	1

Stack trolley with tube bends

For easy transportation of light and heavy objects.

- Permanently welded steel construction
- Steel tube Ø 26.9 x 1.75 mm
- Base plate made from 4 mm thick sheet steel
- Solid rubber or pneumatic wheels with plastic rims and roller bearings
- Handles with safety bar made of high-strength plastic (in line with DIN EN 1757-3) protect against hand injuries



Toe plate width	300 mm
Toe plate depth	225 mm
Load capacity	200 kg

Wheel diameter	Material of the wheel	Art. no.	P. Qty.
250 mm	Solid rubber	0962 400 105	1
260 mm	Air	0962 400 104	1

Staircase trolley

3-star solid rubber wheels fitted with plastic rims and roller bearings make it easier to perform the difficult task of transporting items up stairs.

- Permanently welded steel construction
- Useful in applications involving frequent trips up and down stairs where ground conditions are good and level
- Handles with safety bar made of high-strength plastic (in line with DIN EN 1757-3) protect against hand injuries.
- Steel tube Ø 26.9 x 1.75 mm
- Base plate made from 4 mm thick sheet steel



Continuation **Staircase trolley**

Toe plate width	300 mm
Toe plate depth	225 mm
Load capacity	150 kg
Wheel diameter	160 mm
Material of the wheel	Solid rubber

Art. no. 0962 400 125

P. Qty.: 1

Aluminium stack trolley with step skids

With integrated staircase sliding skids for travelling over uneven ground and ledges.

- Permanently welded aluminium construction
- Aluminium tube Ø 25.0 x 2 mm
- Base plate made from 4 mm thick sheet aluminium
- Polyurethane or pneumatic wheels with plastic rims and roller bearings
- Handles with safety bar made of high-strength plastic (in line with DIN EN 1757-3) protect against hand injuries
- Step skids are secured with clips and can be replaced if necessary



Toe plate width	300 mm
Toe plate depth	200 mm
Load capacity	150 kg
Wheel diameter	260 mm

Material of the wheel	Art. no.	P. Qty.
Air	0962 400 112	1
Polyurethane	0962 400 113	1

Steel tube shelf trolley

- Steel tube, Ø 26.9 x 1.75 mm
- Castors fitted with solid rubber tyres and roller bearings, galvanised housing
- Locking devices on the steering castors in line with European standard EN 1757-3
- Loading platform made from beech-effect wooden panel board (MDF)
- Wooden loading platforms are secured in angled frame from underneath
- Protruding edge is approx. 15 mm high
- Profiled steel frame made of 30/30/3 mm angular steel



Load capacity	250 kg
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Number of loading surfaces	Loading surface width x loading surface depth	Width	Depth	Loading-surface height	Art. no.	P. Qty.
2 PCS	790 x 490 mm	990 mm	500 mm	190 mm, 820 mm	0962 400 201	1
2 PCS	990 x 590 mm	1190 mm	600 mm	190 mm, 820 mm	0962 400 202	1
3 PCS	790 x 490 mm	990 mm	500 mm	190 mm, 505 mm, 820 mm	0962 400 203	1
3 PCS	990 x 590 mm	1190 mm	600 mm	190 mm, 505 mm, 820 mm	0962 400 204	1

Table trolley for steel pipes, flush loading area

- Steel tube Ø 26.9 x 1.75 mm
- Rollers with solid rubber tyres and roller bearings, galvanised housing
- Steering rollers with locking device in line with European standard EN 1757-3
- Loading platform made from beech-effect wooden panel board (MDF)



Number of loading surfaces	2 PCS
Loading-surface height	260 mm, 800 mm
Load capacity	500 kg

Loading surface width x loading surface depth	Width	Depth	Art. no.	P. Qty.
800 x 500 mm	850 mm	500 mm	0962 400 214	1
1000 x 700 mm	1050 mm	700 mm	0962 400 216	1
1200 x 800 mm	1250 mm	800 mm	0962 400 217	1

Angular steel table trolley

- Steel tube, diameter 26.9 x 1.75 mm
- Rollers fitted with solid rubber tyres and roller bearings, galvanised housing
- Locking device on the steering rollers in line with European standard EN 1757-3
- Loading platform made from beech-effect wooden panel board (MDF)
- Wooden loading platforms are inserted flush with the profile
- Profiled steel frame made of angular steel (40/40/4 mm) for high load-bearing capacity



Number of loading surfaces	2 PCS
Load capacity	500 kg

Loading surface width x loading surface depth	Width	Depth	Loading-surface height	Art. no.	P. Qty.
1000 x 700 mm	1150 mm	700 mm	280 mm, 900 mm	0962 400 210	1
1200 x 800 mm	1350 mm	800 mm	280 mm, 920 mm	0962 400 211	1

Warehouse trolley

With loading surface made of wooden plate (MDF) with beech surface decor

- Steel tube Ø 26.9 x 1.75 mm
- Rollers with solid rubber tyres and roller bearings, galvanised housing
- Steering rollers with locking device in line with European standard EN 1757-3



Material of the wheel	Solid rubber
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Loading-surface width	Loading-surface depth	Load capacity	Art. no.	P. Qty.
800 mm	500 mm	250 kg	0962 400 300	1
1000 mm	700 mm	400 kg	0962 400 301	1

Push handle trolley

With loading surface made of wooden plate (MDF) with beech surface decor

- Steel tube Ø 26.9 x 1.75 mm, welded on base frame
- Rollers with solid rubber tyres and roller bearings, galvanised housing
- Steering rollers with locking device according to European standard EN 1757-3
- Profile steel frame made of angular steel and square tubing



Material of the wheel	Solid rubber
Material of the loading surface	Medium density fibreboard

Loading-surface width	Loading-surface depth	Load capacity	Art. no.	P. Qty.
1000 mm	700 mm	400 kg	0962 400 330	1
1200 mm	800 mm	600 kg	0962 400 331	1

Board trolley

Steel construction made of steel tube and angular steel

- Steering rollers with solid rubber tyres and roller bearings
- Loading surface made from beech-effect wooden panel board (MDF)
- Square tube with 7 holes for inserting the bracket
- Start roller for easy loading and unloading of the plates
- Solid rubber tyres



Loading-surface depth	800 mm
Depth	800 mm
Wheel diameter	200 mm

Loading-surface width	Width	Load capacity	Product weight (per item)	Art. no.	P. Qty.
1200 mm	1340 mm	500 kg	500000 g	0962 400 360	1
1200 mm	1340 mm	1200 kg	49000 g	0962 400 361	1
1600 mm	1740 mm	500 kg	58000 g	0962 400 362	1
1600 mm	1740 mm	1200 kg	62 kg	0962 400 363	1

Folding trolley

The practical push handle can be folded onto the platform, allowing the trolley to be stowed to save space.

- Rollers with blue-grey solid rubber wheels and roller bearings
- Galvanised housing
- Steering rollers with locking device according to European standard EN 1757-3
- Loading surface made from beech-effect wooden panel board (MDF)



Colour	Gentian blue RAL 5010
Material of the loading surface	Medium density fibreboard

Loading-surface width	Loading-surface depth	Handle height	Load capacity	Wheel diameter	Art. no.	P. Qty.
720 mm	450 mm	900 mm	150 kg	125 mm	0962 400 350	1
900 mm	600 mm	950 mm	250 kg	160 mm	0962 400 351	1

Aluminium folding trolley

Upright push bar can be folded down onto the platform

- Castors fitted with blue-grey solid rubber tyres and roller bearings, galvanised housing
- Brakes on the steering castors in line with European standard EN 1757-3
- Loading platform made from corrugated aluminium



Load capacity	150 kg
Colour	Aluminium coloured
Material of the loading surface	Aluminium

Loading-surface width	Loading-surface depth	Handle height	Wheel diameter	Product weight (per item)	Art. no.	P. Qty.
720 mm	450 mm	900 mm	125 mm	12000 g	0962 400 352	1
900 mm	600 mm	950 mm	160 mm	25000 g	0962 400 353	1

Folding trolley with drawbar

Robust transport trolley made of wood with folding drawbar

- Loading area with non-slip MaxiGRIP-special coating
- Handle with premium soft grip
- Space-saving and easy-to-store
- High comfort level when pushing and pulling heavy loads
- Four soil-conserving ultra-soft machinery rollers for hard and sensitive floor surfaces



Loading-surface width	400 mm
Loading-surface depth	800 mm
Handle height	950 mm
Load capacity	300 kg
Wheel diameter	100 mm
Height (closed)	140 mm
Colour	Brownish
Material of the loading surface	Medium density fibreboard
Material of the tyre	TPE
Product weight (per item)	10000 g
Width	400 mm
Depth	400 mm

Art. no. 0962 400 115

P. Qty.: 1

Large recycling bag

Transparent design for easy inspection of fill level and separation of recyclable materials

Colour	Transparent
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Contents	Material thickness	Width	Length	Art. no.	P. Qty.
0.5 m ³	80 µm	700 mm	1700 mm	0899 800 582	70
1 m ³	90 µm	700 mm	2200 mm	0899 800 583	50
2.5 m ³	100 µm	1250 mm	2500 mm	0899 800 584	20



Refuse bag

Without pulling strap

- Made from selected recycled granulate
- Super tear-resistant and puncture-proof LDPE film, suitable for various requirements or applications

Contents	120 l
Width	700 mm
Length	1100 mm
Material	PE - Polyethylene

Material thickness	Colour	Art. no.	P. Qty.
40 µm	Blue	0899 800 550	25/250
40 µm	Red	0899 800 551	25/250
40 µm	Transparent	0899 800 553	25/250
40 µm	Yellow	0899 800 552	25/250
70 µm	Blue	0899 800 555	15/150
200 µm	Blue	0899 800 556	100

Fabric sack Mineral wool

Flat sack with drawstring

- „Mineral fibre waste, carcinogenic“ printed on
- Fabric thickness: 65 + 20 g/m²

Width	140 cm
Length	220 cm
Material	Polypropylene material

Art. no. 0899 801 005

P. Qty.: 40



Bin bag with handles

Contents	120 l
Material thickness	40 µm
Width	700 mm
Length	1000 mm
Colour	Blue

Art. no. 0899 800 581

P. Qty.: 20/200



Waste paper basket with flame extinguishing lid

Round waste paper basket with flame extinguishing lid for preventive fire protection

- Self-extinguishing flame extinguishing lid disrupts the oxygen flow and suffocates the flames
- TÜV certified
- Made from steel with a scratch-resistant epoxy resin coating

Colour	Grey
Material	Steel



Contents	Height x width x depth	Art. no.	P. Qty.
30 l	520 x 320 x 320 mm	0957 570 201	1
60 l	695 x 375 x 375 mm	0957 570 202	1



Waste bag holder

For 120-l refuse bags

- Tip-proof metal frame
- Steel clamping ring
- Zinc-plated and painted

Suitable for sacks for collecting recyclable materials	110 - 120 l
Height	98 cm
Width	50 cm
Length	53 cm
Colour	Pebble grey
Product weight (per item)	4600 g



Art. no. 0993 899 200

P. Qty.: 1

Big Bag Standard

With skirting and fastener bands

- With four lifting loops (length: 25 cm)
- Load (SWL): 1,200 kg
- Safety factor (SF): 5:1
- Fabric thickness: 150 g/m²
- Without imprint

Length	90 cm
Width	90 cm
Height	110 cm
Material	Polypropylene material
Design	Uncoated



Art. no. 0899 801 000

P. Qty.: 15

Big Bag Asbestos

With skirting and fastener bands

- With four lifting loops (length: 25 cm)
- Load (SWL): 1,200 kg
- Safety factor (SF): 5:1
- Fabric thickness: 150 + 20 g/m²
- With asbestos marking

Length	90 cm
Width	90 cm
Height	110 cm
Material	Polypropylene material
Design	Coated



Art. no. 0899 801 001

P. Qty.: 15

Big Bag Mineral wool

With skirting and fastener bands

- With four lifting loops (length: 25 cm)
- Load (SWL): 500 kg
- Safety factor (SF): 5:1
- Fabric thickness: 100 + 20 g/m²
- With mineral wool marking



Length	90 cm
Width	90 cm
Height	120 cm
Material	Polypropylene material
Design	Coated

Art. no. 0899 801 004

P. Qty.: 15

Asbestos sheeting sack

With skirting and fastener bands

- With four lifting loops (length: 25 cm)
- Load (SWL): 1,500 kg
- Safety factor (SF): 5:1
- Fabric thickness: 120 + 20 g/m²
- With asbestos marking



Width	125 cm
Height	30 cm
Material	Polypropylene material
Design	Coated

Length	Art. no.	P. Qty.
260 cm	0899 801 002	10
320 cm	0899 801 003	10



Edge protection profile

The profiles are flexible and can be pushed on by hand.

High resistance to ozone, weathering, UV radiation, alkalis and weak acids

Length	10 m
Ultraviolet resistance	Yes
Colour	Black

Min./max. grip range	Grip range	Width x height	Design	Min./max. temperature conditions	Art. no.	P. Qty.
	1.5 mm	4 x 10 mm	Solid rubber	-40 to 100 °C	0961 003	10
1-3 mm		9 x 14.7 mm	With metal insert, 26 x 0.5 mm	-25 to 70 °C	0961 002 7	10
1-2 mm		6.5 x 9.5 mm	With metal insert, 16 x 0.3 mm	-25 to 70 °C	0961 002 5	10

Labelling assortment Labelmanager 420P

Electronic labeller with accessories in system case

- Option of connecting to the PC via USB and the supplied software
- Quick and simple process for changing cassettes
- 4-line back-lit display showing the selected effects
- Thermal transfer printing
- Label tape width: 6, 9, 12 and 19 mm
- Multi-line printing (up to four lines)
- 7 font heights, 10 font types, 8 borders
- Saving of the last label
- Memory for up to 10 labels
- Adjustable fixed length, multiple copies, continuous enumeration, print preview
- Barcodes (8- and 13-digit EAN and UPC)
- Supplied with a rechargeable lithium-ion battery



ORSY

Number of pieces in assortment/set	6 PCS
System dimensions	8.4.2

Art. no. 5964 069 600

P. Qty.: 1

Contents for art. no. 5964 069 600		
Designation	Art. no.	Quantity
Electronic labelling unit DYMO LabelManager 420P	0696 002 700	1
Labelling tape Black White; Width of band 6 mm	0696 002 106	1
Labelling tape Black Transparent; Width of band 12 mm	0696 002 212	1
Labelling tape Black Yellow; Width of band 9 mm	0696 002 409	1
Mains power supply adapter		1
System insert, foam 8.4.2		1
System case 8.4.2	5581 011 000	1

Labelling strip, self-adhesive

Ideal for marking and lettering of shelving racks, for example

- Suitable for scanners due to transparent plastic
- Open at the top and sides
- Can be cut to variable lengths

Scope of delivery:

- 50 x insertion markers suitable for marking by hand

Length	200 mm
Design	Self-adhesive
Colour	Transparent
Material	Plastic
Thickness	2.2 mm



Height	Art. no.	P. Qty.
20 mm	0957 570 185	50
30 mm	0957 570 186	50

Labelling profile, magnetic

Label holder for magnetic fixing. Practical C-profile for easy insertion and secure holding of insertion markers

- Can be cut to variable lengths
- Magnetic label strip
- Includes labelling strips and transparent strips to protect from soiling



Length	200 mm
Design	Magnetic
Colour	Anthracite
Thickness	4 mm

Height	Art. no.	P. Qty.
20 mm	0957 570 190	50
30 mm	0957 570 191	50

Marking tape, magnetic

Ideal for flexible marking on metallic surfaces

- Can be cut to variable lengths
- Flexible, elastic and bend-resistant
- Can be marked using standard permanent markers



Length	5000 mm
Design	Magnetic
Colour	Anthracite, White
Thickness	3 mm

Height	Art. no.	P. Qty.
20 mm	0957 570 195	1
30 mm	0957 570 196	1

Hydraulic transmission jack

With rotary valve to control the lowering speed. Supplied complete with receptacle socket.

- With foot pump

Min./max. height	1.1-1.88 m
Roll distance	670 mm
Roll distance 2	670 mm
Width (support)	360 mm
Load capacity	500 kg

Art. no. 0715 93 80

P. Qty.: 1



Floor jack 3 tonnes

Flat design

- Very low underrun depth for using lowered vehicles up to 70 mm
- High mobility thanks to 2 oil- and acid-resistant nylon swivel rollers and 2 steel rollers, reliable, precision control during lifting and lowering thanks to the simple lifting rod operation, lifting only possible via lever
- Very robust design, two-piece lifting rod, lower lifting rod with rubber coating, saddle cushion made of oil-resistant rubber

Load capacity	3000 kg
Min. height (A)	70 mm
Max. height (B)	510 mm
Width	190 mm
Length	840 mm
Height	400 mm
Number of rolls	4 PCS
Colour	Black, Red
Material	Steel
Product weight (per item)	51500 g

Art. no. 0715 549 3

P. Qty.: 1



Floor jack 2.5 tonnes

Made of aluminium/steel

- High mobility thanks to 2 oil- and acid-resistant nylon swivel rollers and 2 steel rollers, reliable, precision control during lifting and lowering thanks to the simple lifting rod operation
- Very compact and robust design, two-piece lifting rod, lower lifting rod with rubber coating
- Saddle cushion made of oil-resistant rubber, built-in grab handles on sides

Load capacity	2500 kg
Min. height (A)	100 mm
Max. height (B)	450 mm
Width	330 mm
Length	720 mm
Height	190 mm
Number of rolls	4 PCS
Colour	Black, Red
Material	Steel
Product weight (per item)	26400 g

Art. no. 0715 549 025

P. Qty.: 1



Floor jack 2.5 tonnes

Made of steel with screw holder

- High mobility thanks to 2 oil- and acid-resistant nylon swivel rollers and 2 steel rollers, reliable, precision control during lifting and lowering thanks to the simple lifting rod operation
- Very compact and robust design, two-piece lifting rod, lower lifting rod with rubber coating
- Saddle cushion made of oil-resistant rubber, integrated grab handles

Load capacity	2500 kg
Min. height (A)	75 mm
Max. height (B)	510 mm
Width	380 mm
Length	790 mm
Height	215 mm
Number of rolls	4 PCS
Colour	Black, Red
Material	Steel
Product weight (per item)	32800 g

Art. no. 0715 549 25

P. Qty.: 1



Hydraulic lifting jack Heavy-duty design

Suitable for work and repairs on trailers, cars, minibuses and vans

- Additional height adjustment thanks to spindle extension, except for 30 tonne version
- Pump lever, 2 pcs.
- Pressure-limiting valve



Load capacity	Spindle length (B)	Lift height (C)	Min./max. overall height	Baseplate length	Art. no.	P. Qty.
2000 kg	48 mm	163 mm	181-344 mm	93 mm	0715 544 2	1
3000 kg	60 mm	180 mm	193-373 mm	103 mm	0715 544 3	1
5000 kg	70 mm	206 mm	210-416 mm	115 mm	0715 544 5	1
10000 kg	80 mm	230 mm	230-460 mm	120 mm	0715 544 10	1
20000 kg	60 mm	210 mm	242-452 mm	143 mm	0715 544 20	1
30000 kg	0 mm	175 mm	275-440 mm	153 mm	0715 544 30	1

TÜV-certified

Hydraulic trolley jack RH-6

With a robust frame construction and a load capacity of 6,000 kg.

- Convex rollers and swivelling wheels mounted on ball bearings ensure a high level of manoeuvrability.
- In the event of overloading, the safety valve causes the lifting rod to enter into idling operation.
- Lifting rod with ergonomic, rubber-coated handle



Load capacity	6000 kg
Min. height (A)	150 mm
Max. height (B)	570 mm
Product weight (per item)	90000 g

Art. no. 0715 54 160

P. Qty.: 1

Hydraulic trolley jack RH-4

With a robust frame construction and a load capacity of 4,000 kg.

- Convex rollers and swivelling wheels mounted on ball bearings ensure a high level of manoeuvrability
- In the event of overloading, the safety valve causes the lifting rod to enter into idling operation
- Additional foot pedal for activating the quick-lift function
- Reliable, precision control during lifting and lowering actions thanks to the simple means of operating the lifting rod
- Lifting rod with ergonomic, rubber-coated handle
- Pneumatic rubber wheels not included in scope of delivery



Load capacity	4000 kg
Min. height (A)	145 mm
Max. height (B)	560 mm
Product weight (per item)	70000 g

Art. no. 0715 54 150

P. Qty.: 1

Used oil collection device

For quick, clean oil changes

- Height-adjustable and pivotable collection tray
- Empties via pressure pad (0.5 bar)
- Container volume: 90 litres

Container capacity	90 l
Min./max. height	1400-1900 mm
Tray diameter	580 mm
Max. height	1900 mm
Tray height	300 mm
Tray capacity	13 l
Number of steering rollers	2 PCS
Number of fixed rollers	2 PCS



Art. no. 0715 93 90

P. Qty.: 1



Oil extraction device

For mobile operation, complete with 8 suction tubes

- Vacuum extraction
- Emptied by pressure pad (0.5 bar)
- Transparent suction head
- Oil can be drained from multiple vehicles one after the other
- External viewing tube
- Removable small parts tray
- Direct connection without probe for all Mercedes vehicles



Container capacity	90 l
Number of steering rollers	2 PCS
Number of fixed rollers	2 PCS

Art. no. 0715 93 91

P. Qty.: 1

Aluminium box

Very robust transport box with lockable lid, perfect for trade and business professionals

- Resistant to corrosion, weathering and extreme temperatures
- Wrap-around beading and profiles guarantee high stability and long durability
- Stackable
- Wrap-around rubber seal protects against environmental influences such as splashing water, dust and unpleasant odours



Material	Aluminium
Material thickness	1 mm

Width x depth x height (internal dimension)	Width x depth x height (external dimension)	Volume	Art. no.	P. Qty.
550 x 350 x 248 mm	580 x 385 x 277 mm	48 l	0962 320 047	1
550 x 350 x 381 mm	580 x 385 x 410 mm	73 l	0962 320 076	1
750 x 350 x 350 mm	780 x 385 x 379 mm	92 l	0962 320 091	1
870 x 460 x 350 mm	900 x 495 x 379 mm	140 l	0962 320 134	1
750 x 550 x 381 mm	782 x 585 x 410 mm	157 l	0962 320 157	1
1150 x 350 x 381 mm	1182 x 385 x 410 mm	153 l	0962 320 163	1
750 x 550 x 590 mm	782 x 585 x 619 mm	243 l	0962 320 240	1
1500 x 550 x 485 mm	1532 x 585 x 514 mm	400 l	0962 320 400	1
1160 x 755 x 485 mm	1192 x 790 x 514 mm	425 l	0962 320 415	1

Textured sheet metal box

Sturdy transport box made from aluminium checker plate, ideal for use as a flatbed truck box

- Fully welded seams
- Adjustable feet with M10 thread on the underside for fixed attachment
- Gas springs make it easier to open the cover and hold it open
- Wrap-around rubber seal and slip lid prevent the ingress of splashing water and dust



Material thickness	3 mm
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Width x depth x height (external dimension)	Volume	Design	Weight	Art. no.	P. Qty.
622 x 275 x 270 mm	37 l	With tether straps	6.7 kg	0962 323 037	1
522 x 375 x 420 mm	70 l	With tether straps	8.6 kg	0962 323 070	1
622 x 425 x 520 mm	120 l	With tether straps	11.7 kg	0962 323 120	1
772 x 525 x 645 mm	234 l	With tether straps	17.6 kg	0962 323 234	1
1022 x 525 x 520 mm	250 l	With gas pressure dampers	19.3 kg	0962 323 250	1
1272 x 525 x 520 mm	312 l	With gas pressure dampers	22.7 kg	0962 323 312	1
1522 x 525 x 520 mm	375 l	With gas pressure dampers	26.7 kg	0962 323 375	1
1896 x 525 x 520 mm	470 l	With gas pressure dampers	32 kg	0962 323 470	1
1700 x 700 x 850 mm	883 l	With gas pressure dampers	48 kg	0962 323 883	1

Storage basket For checker plate, 250–470 litres

Hook-on and moveable aluminium box for the additional storage of tools and small parts

Convenient storage of and easier access to tools and small parts under the cover



Width	440 mm
Depth	400 mm
Height	200 mm

Art. no. 0962 323 040

P. Qty.: 1

Trolley for Euro containers

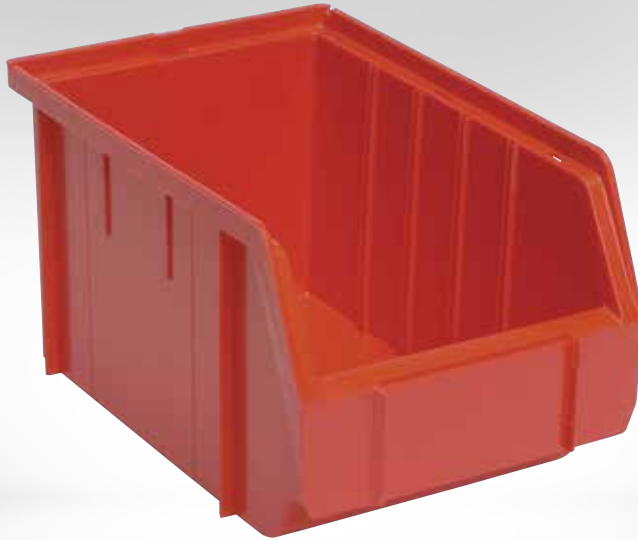
Lightweight trolley for easy transport of Euro containers

Colour	Red
Material	Plastic
Width x depth x height	620 x 420 x 155 mm
Load capacity	250 kg



Art. no. 0962 211 190

P. Qty.: 1



Storage box

For storing small parts, consumables and bulk materials in a way that makes them easy to locate. Ideal for workshops, trade businesses and industry.

- Resistant to common greases and oils
- Temperature-resistant from -20°C to +90°C
- Impact-resistant and break-proof

Material	PP- Polypropylene
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Size	Colour	Length (L1)	Width (B2)	Height (H2)	Art. no.	P. Qty.
1	Blue	489 mm	304 mm	185 mm	0962 211 012	1
1	Green	489 mm	304 mm	185 mm	0962 211 013	1
1	Grey	489 mm	304 mm	185 mm	0962 211 015	1
1	Red	489 mm	304 mm	185 mm	0962 211 011	1
1	Yellow	489 mm	304 mm	185 mm	0962 211 014	1
2	Blue	335 mm	209 mm	152 mm	0962 211 022	1
2	Green	335 mm	209 mm	152 mm	0962 211 023	1
2	Grey	335 mm	209 mm	152 mm	0962 211 025	1
2	Red	335 mm	209 mm	152 mm	0962 211 021	1
2	Yellow	335 mm	209 mm	152 mm	0962 211 024	1
3	Blue	230 mm	150 mm	130 mm	0962 211 032	1
3	Green	230 mm	150 mm	130 mm	0962 211 033	1
3	Grey	230 mm	150 mm	130 mm	0962 211 035	1
3	Red	230 mm	150 mm	130 mm	0962 211 031	1
3	Yellow	230 mm	150 mm	130 mm	0962 211 034	1

Continuation **Storage box**

Size	Colour	Length (L1)	Width (B2)	Height (H2)	Art. no.	P. Qty.
4	Blue	161 mm	105 mm	75 mm	0962 211 042	1
4	Green	161 mm	105 mm	75 mm	0962 211 043	1
4	Grey	161 mm	105 mm	75 mm	0962 211 045	1
4	Red	161 mm	105 mm	75 mm	0962 211 041	1
4	Yellow	161 mm	105 mm	75 mm	0962 211 044	1
5	Blue	90 mm	102 mm	50 mm	0962 211 052	1
5	Green	90 mm	102 mm	50 mm	0962 211 053	1
5	Grey	90 mm	102 mm	50 mm	0962 211 055	1
5	Red	90 mm	102 mm	50 mm	0962 211 051	1
5	Yellow	90 mm	102 mm	50 mm	0962 211 054	1

Storage box with lid

Colour	Red
Length (L1)	400 mm
Width (B2)	300 mm
Height (H2)	270 mm
Internal width (B1)	255 mm
Internal length (L3)	356 mm
Height (from floor to stacking rim)	255 mm



Art. no. 0955 903 680

P. Qty.: 1

Lid

For storage boxes sizes 2/3/4 to protect particularly delicate small parts in the box against dust and dirt

- Variable opening

Material	PP - Polypropylene
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Type	Size	Art. no.	P. Qty.
for box size 2	2	0962 210 152	5
for box size 3	3	0962 210 153	10
for box size 4	4	0962 210 154	10

Cart 1500

With universal rail for storage boxes in sizes 2/3/4.
Ideal for workshops, trade businesses and industry
for storage of small and/or spare parts.

- Optimal storage space arrangement through colour-coded grouping of storage boxes
- Optimised access at installation locations
- 2 fixed castors and 2 steering rollers with stop
- Simple assembly
- Load capacity 300 kg
- Sheet steel, galvanised



Width	1055 mm
Height	1695 mm
Load capacity	300 kg

Design of the boxes	Art. no.	P. Qty.
126 boxes, size 4 yellow, 60 boxes, size 3 blue	0962 200 240	1
Without boxes	0962 200 540	1
90 boxes, size 4 red, 48 boxes, size 3 green, 16 boxes, size 2 blue	0962 200 241	1
Without boxes	0962 200 541	1

Cart 1000

With universal rail for storage boxes in sizes 3/4.
Ideal for workshops, trade businesses and industry
for storage of small and/or spare parts.

- Optimal storage space arrangement through colour-coded grouping of storage boxes
- Optimised access at installation locations
- 2 fixed castors and 2 steering rollers with stop
- Simple assembly
- Load capacity 300 kg
- Sheet steel, galvanised



Width	1055 mm
Height	1295 mm
Load capacity	300 kg

Design of the boxes	Art. no.	P. Qty.
180 boxes, size 4 red	0962 200 221	1
Without boxes	0962 200 521	1
90 boxes, size 4 yellow, 36 boxes, size 3 green	0962 200 222	1
Without boxes	0962 200 522	1
36 boxes, size 3 yellow, 48 boxes, size 3 blue	0962 200 225	1
Without boxes	0962 200 525	1

Storage box cabinet PRO

High-quality storage box cabinet for optimum storage of plastic storage boxes, with optional shelves and drawers.

- Robust sheet-steel construction, welded with multiple edging
- Load capacity of each shelf 40 kg (with evenly distributed load)
- Recessed turning-handle safety lock secures the contents against theft
- Recessed safety lock of turning handle secures the contents against theft
- Drawers with 100% telescopic extensions, 50-kg load capacity (with evenly distributed load)



Body colour	Light grey RAL 7035
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Type description	Width x depth x height (external dimension)	Number of shelves	Number of drawers	Drawer design	Art. no.	P. Qty.
PRO FB 6	710 x 300 x 1028 mm	6 PCS		Without drawers	0957 353 060	1
PRO FB 6	710 x 300 x 1028 mm	6 PCS		Without drawers	0957 353 061	1
PRO FB 6	710 x 300 x 1028 mm	6 PCS		Without drawers	0957 353 062	1
PRO FB 6	710 x 300 x 1028 mm	6 PCS		Without drawers	0957 353 064	1
PRO FB 6	710 x 300 x 1028 mm	6 PCS		Without drawers	0957 353 260	1
PRO FB 6	710 x 300 x 1028 mm	6 PCS		Without drawers	0957 353 261	1
PRO FB 6	710 x 300 x 1028 mm	6 PCS		Without drawers	0957 353 262	1
PRO FB 6	710 x 300 x 1028 mm	6 PCS		Without drawers	0957 353 264	1
PRO FB 11	710 x 300 x 1680 mm	11 PCS		Without drawers	0957 353 110	1
PRO FB 11	710 x 300 x 1680 mm	11 PCS		Without drawers	0957 353 111	1
PRO FB 11	710 x 300 x 1680 mm	11 PCS		Without drawers	0957 353 112	1
PRO FB 11	710 x 300 x 1680 mm	11 PCS		Without drawers	0957 353 114	1
PRO FB 11	710 x 300 x 1680 mm	11 PCS		Without drawers	0957 353 210	1
PRO FB 11	710 x 300 x 1680 mm	11 PCS		Without drawers	0957 353 211	1
PRO FB 11	710 x 300 x 1680 mm	11 PCS		Without drawers	0957 353 212	1
PRO FB 11	710 x 300 x 1680 mm	11 PCS		Without drawers	0957 353 214	1
PRO FB 15	710 x 300 x 1950 mm	15 PCS		Without drawers	0957 353 150	1
PRO FB 15	710 x 300 x 1950 mm	15 PCS		Without drawers	0957 353 151	1
PRO FB 15	710 x 300 x 1950 mm	15 PCS		Without drawers	0957 353 152	1
PRO FB 15	710 x 300 x 1950 mm	15 PCS		Without drawers	0957 353 154	1
PRO FB 15	710 x 300 x 1950 mm	15 PCS		Without drawers	0957 353 250	1
PRO FB 15	710 x 300 x 1950 mm	15 PCS		Without drawers	0957 353 251	1

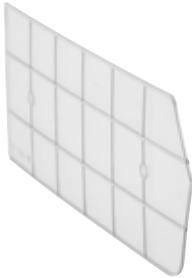
Type description	Width x depth x height (external dimension)	Number of shelves	Number of drawers	Drawer design	Art. no.	P. Qty.
PRO FB 15	710 x 300 x 1950 mm	15 PCS		Without drawers	0957 353 252	1
PRO FB 15	710 x 300 x 1950 mm	15 PCS		Without drawers	0957 353 254	1
PRO FB 14	1200 x 500 x 1950 mm	11 PCS	3 PCS	3 drawers, H 90 mm	0957 353 140	1
PRO FB 14	1200 x 500 x 1950 mm	11 PCS	3 PCS	3 drawers, H 90 mm	0957 353 141	1
PRO FB 14	1200 x 500 x 1950 mm	11 PCS	3 PCS	3 drawers, H 90 mm	0957 353 142	1
PRO FB 14	1200 x 500 x 1950 mm	11 PCS	3 PCS	3 drawers, H 90 mm	0957 353 144	1
PRO FB 14	1200 x 500 x 1950 mm	11 PCS	3 PCS	3 drawers, H 90 mm	0957 353 240	1
PRO FB 14	1200 x 500 x 1950 mm	11 PCS	3 PCS	3 drawers, H 90 mm	0957 353 241	1
PRO FB 14	1200 x 500 x 1950 mm	11 PCS	3 PCS	3 drawers, H 90 mm	0957 353 242	1
PRO FB 14	1200 x 500 x 1950 mm	11 PCS	3 PCS	3 drawers, H 90 mm	0957 353 244	1

Divider

Storage boxes can be divided lengthwise or crosswise

- For an even better overview and to make the best use of the box

Material	PS - Polystyrene
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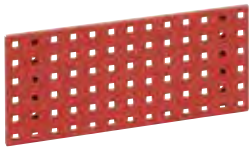


Type	Design	Art. no.	P. Qty.
for box size 1	Long	0962 210 111	5/50
for box size 1	Short	0962 210 112	5/50
for box size 2	Long	0962 210 121	10/100
for box size 2	Short	0962 210 122	10/100
for box size 3	Short	0962 210 132	10/100
for box size 4	Short	0962 210 142	10/100

Base plate for square-perforated panel system

The practical organiser for clearly organised, space-saving storage of tools, small parts and other work materials.

- Symmetrically perforated sheet steel panel with square holes
- Reinforced panel at the rear is welded and has side-edging
- Hole spacing is retained even with several plates next to/over each other
- Holes in the reinforcing profiles for easy wall mounting



Continuation **Base plate for square-perforated panel system**

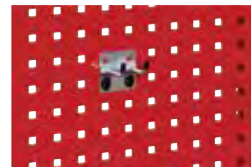
Punched-hole	10 x 10 mm
Hole distance	38 mm

Width x height	Colour	Art. no.	P. Qty.
495 x 228 mm	Traffic red RAL 3020	0960 050 020	1
495 x 228 mm	Anthracite grey RAL 7016	0960 050 050	1
495 x 228 mm	Gentian blue RAL 5010	0960 050 030	1
495 x 228 mm	Light grey RAL 7035	0960 050 040	1
495 x 228 mm	Reseda green RAL 6011	0960 050 000	1
495 x 228 mm	Graphite black RAL 9011	0960 050 010	1
495 x 457 mm	Traffic red RAL 3020	0960 050 021	1
495 x 457 mm	Anthracite grey RAL 7016	0960 050 051	1
495 x 457 mm	Gentian blue RAL 5010	0960 050 031	1
495 x 457 mm	Light grey RAL 7035	0960 050 041	1
495 x 457 mm	Reseda green RAL 6011	0960 050 001	1
495 x 457 mm	Graphite black RAL 9011	0960 050 011	1
991 x 457 mm	Traffic red RAL 3020	0960 050 022	1
991 x 457 mm	Anthracite grey RAL 7016	0960 050 052	1
991 x 457 mm	Gentian blue RAL 5010	0960 050 032	1
991 x 457 mm	Light grey RAL 7035	0960 050 042	1
991 x 457 mm	Reseda green RAL 6011	0960 050 002	1
991 x 457 mm	Graphite black RAL 9011	0960 050 012	1
1486 x 457 mm	Traffic red RAL 3020	0960 050 023	1
1486 x 457 mm	Anthracite grey RAL 7016	0960 050 053	1
1486 x 457 mm	Gentian blue RAL 5010	0960 050 033	1
1486 x 457 mm	Light grey RAL 7035	0960 050 043	1
1486 x 457 mm	Reseda green RAL 6011	0960 050 003	1
1486 x 457 mm	Graphite black RAL 9011	0960 050 013	1

Double hook

For square holes in perforated plates, workshop trolleys and ORSY®1 shelving system

- Vertical hook end
- Wide base plate
- With 2 fastening clips incl. Cover cap



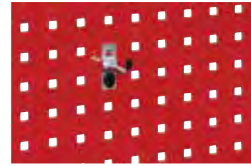
Hook diameter	6 mm
Base plate width x base plate height	60 x 60 mm

Length	Art. no.	P. Qty.
50 mm	0960 050 120	5
75 mm	0960 050 121	5
100 mm	0960 050 122	5
150 mm	0960 050 123	5

Hook

For square holes in perforated plates, workshop trolley and ORSY1 shelving system

- Vertical hook end
- Narrow base plate
- With fastening clip incl. Cover cap



Hook diameter	6 mm
Base plate width x base plate height	20 x 60 mm

Length	Art. no.	P. Qty.
50 mm	0960 050 110	5
75 mm	0960 050 111	5
100 mm	0960 050 112	5
150 mm	0960 050 113	5

Retaining pin

For square holes in perforated plates, workshop trolleys and ORSY®1 shelving system

- Angled pin holder
- Narrow base plate
- With fastening clip incl. Cover cap



Hook diameter	4 mm
Base plate width x base plate height	20 x 60 mm

Length	Art. no.	P. Qty.
25 mm	0960 050 100	5
50 mm	0960 050 101	5
75 mm	0960 050 102	5
100 mm	0960 050 103	5
250 mm	0960 050 104	5

Pliers holder

For square holes in perforated plates, workshop trolley and ORSY1 shelving system

- Three holding brackets for storing pliers
- Wide base plate
- With 2 fastening clips



Hook diameter	6 mm
Base plate width	60 mm
Base plate height	60 mm

Art. no. 0960 050 182

P. Qty.: 1

Wrench holder

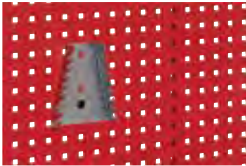
For square holes in perforated plates, workshop trolleys and ORSY®1 shelving system

- With 8 mounts for clearly laid-out storage of wrenches
- With fastening clip

Width	145 mm
Height	180 mm
Width x height x depth	145 x 180 x 40 mm

Art. no. 0960 050 181

P. Qty.: 1



Storage compartment

For square holes in perforated plates, workshop trolleys and ORSY®1 shelving system

- Ideal storage for small parts, aerosol cans and accessories
- Compartment depth: 170 mm
- With 2 fastening clips

Width	450 mm
Height	115 mm
Height (front)	30 mm
Width x height x depth	450 x 115 x 170 mm

Art. no. 0960 050 170

P. Qty.: 1

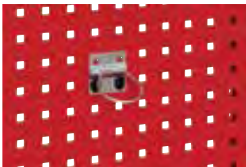


Round holder

For square holes in perforated plates, workshop trolleys and ORSY®1 shelving system

- Wide base plate
- With 2 fastening clips

Base plate width	60 mm
Base plate height	60 mm



		Art. no.	P. Qty.
		0960 050 145	2
		0960 050 146	2

Universal retaining system

Universal retaining system with variably adjustable clamping width. Clamping jaws can be moved and locked on the profile rail. Equipped.



- A retaining system for various clamping widths
- Maximum load per pair of clamping jaws: 8 kg, static load
- Individually extendable

Length	Number of clamping-jaw pairs	Art. no.	P. Qty.
380 mm	2 PCS	0960 060 011	1
495 mm	3 PCS	0960 060 012	1
1028 mm	6 PCS	0960 060 013	1
1485 mm	8 PCS	0960 060 014	1

Cable drum

For square holes in perforated plates, workshop trolley and ORSY1 shelving system

- Impact-resistant housing
- Overheating protection

Art. no. 0962 605 519

P. Qty.: 1



VDE tested and construction type certified

Magnetic dish

For simply and safely storing magnetic small parts, even lying on their side.

- Plastic-covered magnets for gentle attachment to delicate surfaces
- Tough dish with extra-high lip



Length (L)	240 mm
Width (B)	145 mm
Material	Stainless steel
Height (H)	45 mm

Art. no. 0714 937 124

P. Qty.: 1

Tool holder

Keeps the most important tools for tyre service to hand

- 4 powerful magnets with a retention force of max. 5 kg for flexible use
- Essential tools right where you work
- Protective and secure storage of tools thanks to the dip-coated mounts
- 1.6-mm thick steel construction
- Black powder-coated surface

Width (B)	102 mm
Height (H)	395 mm
Material thickness	1.6 mm



Art. no. 0714 937 130

P. Qty.: 1

Belt bag set 3-way

Belt bag with five large storage compartments and length-adjustable clip fastening belt for carrying tools and materials directly on your person.

- Two leather outer pockets, free-moving hammer holder, tape measure holder
- Two circlips to secure tools up to a maximum weight of 0.5 kg
- Rubber band on the outer side for pens and small screwdrivers



Length x width x height	650 x 140 x 270 mm
Material	Polyester/leather
Colour	Black, Grey
Max. load capacity	10 kg
Min./max. waist measurement	800-1200 mm
Product weight (per item)	830 g
Length	650 mm
Width	140 mm

Art. no. 0715 930 212

P. Qty.: 1

The tools shown are not included.

Clip fastening belt

Robust belt with plastic clip-on closure for simple opening.

- Length adjustable by means of riptape
- Made from high quality polyester (1680 denier)

Material	PES - Polyester
Colour	Black, Grey
Max. load capacity	10 kg



Min./max. waist measurement	800-1200 mm
Product weight (per item)	211 g
Length	1400 mm
Width	50 mm

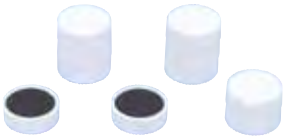
Art. no. 0715 930 231

P. Qty.: 1

The tools shown are not included in the scope of delivery.

Magnet

Height	12 mm
Diameter	34 mm
Colour	White
Holding capacity	2 kg



Art. no. 0993 997 087

P. Qty.: 10

Magnetic strip

For fastening pictures, plans, notices etc. by means of magnets.

Width	50 mm
Length	1000 mm
Colour	White
Design	Self-adhesive



Art. no. 0993 997 088

P. Qty.: 1

Supplied without magnets

Wall bracket

For fastening brooms, telescopic rods and garden tools. Particularly robust and durable hooks (up to 10 kg)

Material	TPE/Polypropylene
Width	80 mm
Height	60 mm
Min./max. diameter	25-35 mm
Min./max. temperature conditions	-10 to 80 °C



Colour	Length	Art. no.	P. Qty.
Blue	160 mm	0891 350 600	1
Blue	395 mm	0891 350 610	1
Green	160 mm	0891 350 602	1

Continuation **Wall bracket**

Colour	Length	Art. no.	P. Qty.
Green	395 mm	0891 350 612	1
Red	160 mm	0891 350 601	1
Red	395 mm	0891 350 611	1
White	160 mm	0891 350 603	1
White	395 mm	0891 350 613	1
Yellow	160 mm	0891 350 604	1
Yellow	395 mm	0891 350 614	1

Please consider the legal instruction at the beginning of this chapter.

Document folder

Practical folder for organising documents.

- Metal bracket for clamping writing pads, additional document compartment
- Business card holder with transparent window
- Wide rubber band for further business cards as well as smaller utensils



Length x width x height	260 x 50 x 350 mm
Sealing type	Zip
Material	PES - Polyester
Colour	Black, Grey
Product weight (per item)	750 g
Width	50 mm
Length	260 mm
Height	350 mm

Art. no. 0715 930 240

P. Qty.: 1

The additional products shown are not included in the scope of delivery.

Labelling pocket, magnetic

With magnetic strips on the back for use on metallic surfaces

- Ideal for labelling storage racks and metal containers

Design	Magnetic
Colour	Dark blue



Type description	Internal width	Internal depth	Art. no.	P. Qty.
1/2 A5 landscape	210 mm	74 mm	0957 570 106	50
1/3 A4 landscape	297 mm	74 mm	0957 570 107	50
A4 landscape	297 mm	210 mm	0957 570 104	50
A4 profile	210 mm	297 mm	0957 570 103	50
A5 landscape	210 mm	148 mm	0957 570 102	50

Type description	Internal width	Internal depth	Art. no.	P. Qty.
A6 landscape	148 mm	105 mm	0957 570 105	50
Large labels	150 mm	67 mm	0957 570 101	50
Small labels	100 mm	38 mm	0957 570 100	50

Labelling pocket, self-adhesive

With two permanent adhesive strips on the back

- Ideal for the labelling of e.g. Shelves, plastic containers, pallets and cartons



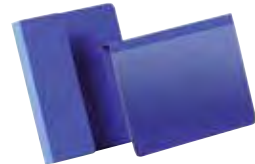
Design	With self-adhesive strips
Colour	Dark blue

Type description	Internal width	Internal depth	Art. no.	P. Qty.
1/2 A5 landscape	210 mm	74 mm	0957 570 123	50
1/3 A4 landscape	297 mm	74 mm	0957 570 125	50
A5 landscape	210 mm	148 mm	0957 570 124	50
A6 landscape	148 mm	105 mm	0957 570 122	50
Large labels	150 mm	67 mm	0957 570 121	50
Small labels	100 mm	38 mm	0957 570 120	50

Labelling pocket with fold

With a strong fold for overhanging cartons, boxes or other containers.

- Ideal for inserting between stacked boxes
- Can be reused multiple times for marking in production and warehouse



Design	Fold
Colour	Dark blue

Type description	Internal width	Internal depth	Art. no.	P. Qty.
A4 landscape	297 mm	210 mm	0957 570 142	50
A5 landscape	210 mm	148 mm	0957 570 141	50
A6 landscape	148 mm	105 mm	0957 570 140	50

Labelling pocket with neodymium magnets

With strong adhesive force thanks to two welded neodymium high-strength magnets

- Ideal for labelling of metallic surfaces such as crates, pipes and moving transport containers
- Protective flap to prevent documents being contaminated with dust and moisture



Design	Neodymium magnet
Colour	Dark blue

Continuation **Labelling pocket with neodymium magnets**

Type description	Internal width	Internal depth	Art. no.	P. Qty.
A4 landscape	297 mm	210 mm	0957 570 152	10
A4 profile	210 mm	297 mm	0957 570 151	10
A5 landscape	210 mm	148 mm	0957 570 150	10

Labelling pocket for crates

Crate labelling pocket with arrow-shaped loops for mounting into clamping slots

- Ideal for permanently marking storage and transport boxes
- Extremely strong hold on movable transport containers such as crates
- Protective flap to prevent documents being contaminated with dust and moisture



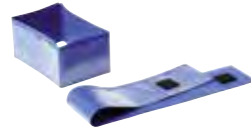
Design	Plastic straps
Colour	Dark blue

Type description	Internal width	Internal depth	Art. no.	P. Qty.
A4 landscape	297 mm	210 mm	0957 570 162	50
A4 profile	210 mm	297 mm	0957 570 161	50
A5 landscape	210 mm	148 mm	0957 570 160	50

Labelling pocket for pallet foot

Sleeve for attaching to the outside of the pallet base. Simple mounting with rip-tape fastening.

- Ideal for the flexible pallet labelling
- 4-sided labelling possible



Design	With hook and loop fastener
Colour	Dark blue
Internal width	140/90 mm
Internal depth	65 mm

Art. no. 0957 570 170

P. Qty.: 50

Labelling pocket with wire hanger

Wire hanger labelling pocket with zinc-plated, flexible wire for easy and secure fastening.

- For optimum identification of transport containers, crates, wooden support frames and pallet boxes
- Protective flap to prevent documents being contaminated with dust and moisture



Design	With eccentric clamp
Colour	Dark blue

Type description	Internal width	Internal depth	Art. no.	P. Qty.
A4 landscape	297 mm	210 mm	0957 570 182	50
A4 profile	210 mm	297 mm	0957 570 181	50
A5 landscape	210 mm	148 mm	0957 570 180	50

Information frame, self-adhesive

Self-adhesive and hinged information frame with magnetic closure for quick and easy exchange of documents.

- For A4 documents such as room identifiers, orientation information, hazardous substance instructions, operating instructions, fire safety identifiers.

Material	Plastic
Height	236 mm
Width	322 mm
DIN format	A4



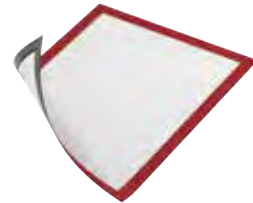
Colour	Art. no.	P. Qty.
Black	0957 570 001	2/10
Dark blue	0957 570 003	2/10
Orange	0957 570 004	2/10
Red	0957 570 002	2/10
Silver	0957 570 005	2/10

Info frame, magnetic

Magnetic information frame for attaching documents to metallic surfaces in production and in the office.

- For A4 documents such as machine files, operational figures, employee information, orientation information, hazardous substance instructions, operating instructions, fire safety identifiers.

Material	Plastic
Height	323 mm
Width	236 mm
DIN format	A4



Colour	Art. no.	P. Qty.
Black	0957 570 015	5
Dark blue	0957 570 017	5
Orange	0957 570 018	5
Red	0957 570 016	5
Silver	0957 570 019	5

Display panel system, wall, one colour

Wall holder with five display panels for clear storage of documents in DIN A4 format

- For A4 documents such as machine files, operational figures, employee information, orientation information, hazardous substance instructions, operating instructions, fire safety identifiers.

Material	Plastic
Height	280 mm
Width	340 mm
DIN format	A4
Design	Five-piece



Colour	Art. no.	P. Qty.
Dark blue	0957 570 027	1
Orange	0957 570 028	1
Red	0957 570 026	1

Display panel system wall, multi-colour

Wall holder with ten display panels for clear storage of documents in DIN A4 format

- For A4 documents such as machine files, operational figures, employee information, orientation information, hazardous substance instructions, operating instructions, fire safety identifiers.

Colour	Multicolour
Material	Plastic
Height	260 mm
Width	330 mm
DIN format	A4
Design	2 x red, 2 x dark blue, 2 x yellow, 2 x green, 2 x black



Art. no. 0957 570 031

P. Qty.: 1

Display panel system, magnetic, one colour

Magnetic wall holder with five display panels for clear storage of documents in DIN A4 format

- For installation on e.g. shelving, machinery, etc.

Material	Metal/Plastic
Height	280 mm
Width	340 mm
DIN format	A4
Design	Five-piece



Colour	Art. no.	P. Qty.
Black	0957 570 036	1
Dark blue	0957 570 037	1

Display panel system table stand

Table stand with 10 display panels for clear storage of documents and instructions in the workplace

- For A4 documents such as machine files, operational figures, employee information, orientation information, hazardous substance instructions, operating instructions, fire safety identifiers.

Colour	Multicolour
Material	Metal/Plastic
Height	270 mm
Width	395 mm
DIN format	A4
Design	2 x red, 2 x dark blue, 2 x yellow, 2 x green, 2 x black



Art. no. 0957 570 041

P. Qty.: 1

Sorting rack

Stable sorting rack for clear sorting and organisation of various documents in production and logistics

- Optimal organisation of e.g. order and working papers, drawings, work plans, etc.

Material	Sheet steel
Colour	Grey
DIN format	A4



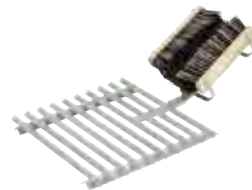
Length	Width	Height	Design	Art. no.	P. Qty.
253 mm	365 mm	345 mm	5-fold	0957 570 301	1
250 mm	360 mm	540 mm	8-fold	0957 570 302	1

Footrest

For cleaning shoes before entering portacabins, offices etc.

Zinc-plated steel grating with 3 sturdy, replaceable broom heads

Width	40 cm
Length	70 cm
Surface	Zinc plated
Number of pieces in assortment/set	4 PCS



Art. no. 0993 997 207

P. Qty.: 1

Hand brush, soft

Suitable for brushing away very fine dirt particles on smooth surfaces and machine parts.



Material of the handle	PP - Polypropylene
Material of the bristles	PES - Polyester
Length (L)	330 mm
Width (B)	35 mm
Length of bristles (H)	52 mm
Min./max. temperature resistance	-20 to 100 °C

Colour	Art. no.	P. Qty.
Blue	0891 350 700	1
Green	0891 350 702	1
Red	0891 350 701	1
White	0891 350 703	1
Yellow	0891 350 704	1

Please consider the legal instruction at the beginning of this chapter.

Hand brush, medium

Suitable for brushing both fine and coarse dirt

Angled bristles

FDA-compliant raw materials

- Also suitable for food use
- Halal-compliant

Hygienic design for easy cleaning and maintenance

- Dishwasher safe (at max. 93 °C)
- Can be sterilised in an autoclave (max. 121 °C)

Phthalate-free



Material of the handle	Polypropylene/stainless steel
Material of the bristles	PES - Polyester
Length (L)	330 mm
Width (B)	35 mm
Length of bristles (H)	50 mm
Min./max. temperature resistance	-20 to 100 °C

Colour	Art. no.	P. Qty.
Green	0891 350 712	1
Red	0891 350 711	1
White	0891 350 713	1
Yellow	0891 350 714	1

Please consider the legal instruction at the beginning of this chapter.

Broom, soft/hard bristles

Universal broom for almost all types of dirt. The hard bristles loosen the dirt while the soft bristles effectively sweep dirt particles together.



FDA-compliant raw materials

- Also suitable for food use
- Halal-compliant

Hygienic design for easy cleaning and maintenance

- Dishwasher safe (at max. 93 °C)
- Can be sterilised in an autoclave (max. 121 °C)

Material	Polypropylene/stainless steel
Material of the bristles	PES - Polyester
Length	410 mm
Width	90 mm
Height	120 mm
Length of bristles	60 mm
Min./max. temperature resistance	-20 to 100 °C

Colour	Art. no.	P. Qty.
Blue	0891 350 630	1
Green	0891 350 632	1
Red	0891 350 631	1
White	0891 350 633	1
Yellow	0891 350 634	1

Please consider the legal instruction at the beginning of this chapter.

Washing brush L, hard

Multi-purpose brush for stubborn dirt, also suitable for larger surfaces.

Large drop-shaped hanger for easy hanging and to facilitate cleaning

Stiff, angled bristles

Fully coloured and available in 5 different colours



Material	Polypropylene/stainless steel
Material of the bristles	PES - Polyester
Length	200 mm
Width	70 mm
Height	60 mm
Length of bristles	36 mm
Min./max. temperature conditions	-20 to 80 °C

Continuation **Washing brush L, hard**

Colour	Art. no.	P. Qty.
Blue	0891 350 680	1
Green	0891 350 682	1
Red	0891 350 681	1
White	0891 350 683	1
Yellow	0891 350 684	1

Hand brush / nail brush S, hard

Small universal brush for cleaning fingernails, hands and arms, as well as a range of surfaces and containers

Large drop-shaped hanger for easy hanging and to facilitate cleaning.

FDA-compliant raw materials

- Also suitable for food use
- Halal and kosher-compliant

Contains no phthalates or bisphenol A



Material	Polypropylene/stainless steel
Material of the bristles	PES - Polyester
Length	130 mm
Width	50 mm
Height	40 mm
Length of bristles	17 mm
Min./max. temperature conditions	-20 to 80 °C

Colour	Art. no.	P. Qty.
Blue	0891 350 670	1
Green	0891 350 672	1
Red	0891 350 671	1
White	0891 350 673	1
Yellow	0891 350 674	1

High-low brush/angled floor brush, medium

For thorough cleaning/scrubbing of even hard to reach surfaces

With angled shape and front-facing bristles

Due to the angled shape, this cleaning device can be held parallel to the ground, making it very easy to clean/scrub even hard-to-reach areas.



Free from phthalates and bisphenol A

Material	Polypropylene/stainless steel
Material of the bristles	PES - Polyester
Length	265 mm
Width	150 mm
Height	100 mm
Min./max. temperature resistance	-20 to 100 °C

Colour	Art. no.	P. Qty.
Blue	0891 350 640	1
Green	0891 350 642	1
Red	0891 350 641	1
White	0891 350 643	1
Yellow	0891 350 644	1

Please consider the legal instruction at the beginning of this chapter.

Universal brush, medium

For thorough cleaning of a range of surfaces in tight and hard-to-reach areas.

Small and lightweight brush with a wide head and ergonomically shaped handle

Hygienic design for easy cleaning and maintenance

Fully coloured and available in 5 different colours



Material of the handle	Polypropylene/stainless steel
Material of the bristles	PES - Polyester
Length x width	260 x 40 mm
Length of bristles	22 mm
Min./max. temperature resistance	-20 to 100 °C

Colour	Art. no.	P. Qty.
Blue	0891 350 690	1
Green	0891 350 692	1
Red	0891 350 691	1
White	0891 350 693	1
Yellow	0891 350 694	1

Please consider the legal instruction at the beginning of this chapter.

Hand puller with mini stem

Ultra-hygienic hand squeegee with soft, flexible rubber lip.

With ergonomic aluminium handle

Hygienic design for easy cleaning and maintenance

Fully coloured and available in 5 different colours



Material	TPE/Polypropylene
Length	245 mm
Width	50 mm
Height	104 mm
Product weight (per item)	230 g
Min./max. temperature conditions	-20 to 100 °C

Colour	Art. no.	P. Qty.
Blue	0891 350 660	1
Green	0891 350 662	1
Red	0891 350 661	1
White	0891 350 663	1
Yellow	0891 350 664	1

Please consider the legal instruction at the beginning of this chapter.

Water squeegee

With replaceable interchangeable foam rubber cartridge

Double-sheet water squeegee with soft, replaceable sponge rubber sheets

Floor squeegee with firm neck

- Very robust
- Has a long service life



Material	Polypropylene, foam rubber
Length	500 mm
Width	70 mm
Height	115 mm
Min./max. temperature conditions	-20 to 80 °C

Colour	Product weight (per item)	Art. no.	P. Qty.
Blue	250 g	0891 350 650	1
Green	290 g	0891 350 652	1
Red	290 g	0891 350 651	1
White	250 g	0891 350 653	1
Yellow	290 g	0891 350 654	1

Replacement cassette

Suitable for the water wiper

Length x width x height	500 x 27 x 43 mm
Material	Polypropylene, foam rubber
Product weight (per item)	151 g



Art. no. 0891 350 659

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Ergonomic aluminium handle

Extremely robust and ergonomic handle with rounded tip

Material of the handle	Aluminium
Material of the grip handle	Plastic
Length	1510 mm
Diameter	31 mm
Min./max. temperature conditions	-20 to 100 °C



Colour	Art. no.	P. Qty.
Blue	0891 350 620	1
Green	0891 350 622	1
Red	0891 350 621	1
White	0891 350 623	1
Yellow	0891 350 624	1

Please consider the legal instruction at the beginning of this chapter.

Screwdriver holder

Rack for storing up to 15 screwdrivers. For square holes in perforated plates, TOOLsystem workshop trolley and ORSY1 shelving system.

- Bored slots for wall mounting
- Surface: Black matt, powder-coated
- With holding clips for attaching to square perforation

Width	100 mm
Height	185 mm
Length	310 mm



Art. no. 0714 938 218

P. Qty.: 1

Machine vice

Reinforced version with two offset prism jaws and a high-quality, long design

- With horizontal and vertical prism for holding round materials



Width of clamping jaw (B1)	100 mm
Width (B2)	185 mm
Max. clamping width (A max)	115 mm
Min./max. length (L1)	375-480 mm
Height (H1)	74 mm
Clamping depth (H2)	35 mm

Art. no. 0715 670 100

P. Qty.: 1

Parallel vice Heuer

Simple, adjustable central guide

- Surface-hardened clamping jaws
- Forged, hardened pipe clamping jaws
- Protected precision spindle bearing
- Die-forged rear jaws with anvil
- Protected spindle with double-start trapezoidal thread
- Large bearing surfaces



Width of clamping jaw (B1)	Max. clamping width (A max)	Clamping depth (T)	Max. pipe diameter	Min./max. pipe diameter in inches	Art. no.	P. Qty.
100 mm	125 mm	50 mm	30 mm	5/8-1-3/16 in	0715 671 00	1
120 mm	150 mm	67 mm	55 mm	5/8-2-3/16 in	0715 671 01	1
140 mm	200 mm	85 mm	70 mm	11/16-2-3/4 in	0715 671 02	1
160 mm	225 mm	100 mm	100 mm	11/16-4 in	0715 671 03	1

Parallel vice

Robust vice made from forged steel with adjustable guide rail

- Induction-hardened jaws and anvil work surface



Width of clamping jaw (B1)	Max. clamping width (A max)	Clamping depth (T)	Length (L1)	Height (h)	Art. no.	P. Qty.
125 mm	150 mm	80 mm	355 mm	150 mm	0714 671 03	1
150 mm	200 mm	100 mm	460 mm	180 mm	0714 671 04	1

Parallel vice

Robust vice made from forged steel

- Induction-hardened jaws and anvil work surface



Width of clamping jaw (B1)	Max. clamping width (A max)	Clamping depth (T)	Max. pipe diameter	Min./max. pipe diameter in inches	Art. no.	P. Qty.
120 mm	120 mm	65 mm	46 mm	5/8-1-1/4 in	0714 671 01	1
140 mm	180 mm	90 mm	100 mm	3/4-4 in	0714 671 02	1

Turntable

For Heuer parallel vice

Material	Steel
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Width of clamping jaw	Art. no.	P. Qty.
100 mm	0715 671 001	1
120 mm	0715 671 011	1
140 mm	0715 671 021	1
160 mm	0715 671 031	1

Protective jaw Aluminium

Protective jaws made from special alloy aluminium for rough to medium-fine workpieces

- 6 longitudinal grooves ensure a secure hold
- Suitable for round workpieces
- Special magnetic holder



Material	Aluminium
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Width of clamping jaw	Art. no.	P. Qty.
100 mm	0715 671 05	1
135 mm	0715 671 06	1
150 mm	0715 671 07	1



TOOLsystem Compact workshop trolley Compact

Compact and versatile workshop trolley with numerous practical details

- Wheels made from trackless rubber, steering wheels Ø 100 mm (one with locking brake), running wheels Ø 140 mm
- Available with worktop made of ABS plastic, wood or ribbed rubber mat
- Power-coated: Unit available in four different colours; all drawers in RAL 9011 (graphite black)

Three-stage locking concept

- Central locking with cylinder lock
- One-handed unlocking and individual drawer locks prevent drawers from accidentally opening while in motion
- Drawer lock for excellent stability and to prevent tipping. Only one drawer can be opened at a time.

Width	710 mm
Depth	430 mm
Height	940 mm

Type description	Number of drawers	Drawer design	Colour	Material of the worktop	Art. no.	P. Qty.
C5	5 PCS	2 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm, 1 drawer, W 466 x D 336 x H 215 mm	Traffic red RAL 3020	Plastic top	0962 615 500	1
C5	5 PCS	2 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm, 1 drawer, W 466 x D 336 x H 215 mm	Traffic red RAL 3020	Rubber mat	0962 615 510	1
C5	5 PCS	2 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm, 1 drawer, W 466 x D 336 x H 215 mm	Traffic red RAL 3020	Wood panel	0962 615 520	1
C5	5 PCS	2 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm, 1 drawer, W 466 x D 336 x H 215 mm	Gentian blue RAL 5010	Plastic top	0962 615 502	1
C5	5 PCS	2 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm, 1 drawer, W 466 x D 336 x H 215 mm	Gentian blue RAL 5010	Rubber mat	0962 615 512	1
C5	5 PCS	2 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm, 1 drawer, W 466 x D 336 x H 215 mm	Gentian blue RAL 5010	Wood panel	0962 615 522	1
C5	5 PCS	2 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm, 1 drawer, W 466 x D 336 x H 215 mm	Light blue RAL 5012	Plastic top	0962 615 501	1
C5	5 PCS	2 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm, 1 drawer, W 466 x D 336 x H 215 mm	Light blue RAL 5012	Rubber mat	0962 615 511	1

Continuation **TOOLsystem Compact workshop trolley Compact**

Type description	Number of drawers	Drawer design	Colour	Material of the worktop	Art. no.	P. Qty.
C5	5 PCS	2 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm, 1 drawer, W 466 x D 336 x H 215 mm	Light blue RAL 5012	Wood panel	0962 615 521	1
C5	5 PCS	2 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm, 1 drawer, W 466 x D 336 x H 215 mm	Light grey RAL 7035	Plastic top	0962 615 503	1
C5	5 PCS	2 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm, 1 drawer, W 466 x D 336 x H 215 mm	Light grey RAL 7035	Rubber mat	0962 615 513	1
C5	5 PCS	2 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm, 1 drawer, W 466 x D 336 x H 215 mm	Light grey RAL 7035	Wood panel	0962 615 523	1
C6	6 PCS	3 drawers, W 466 x D 336 x H 65 mm, 3 drawers, W 466 x D 336 x H 140 mm	Traffic red RAL 3020	Plastic top	0962 615 600	1
C6	6 PCS	3 drawers, W 466 x D 336 x H 65 mm, 3 drawers, W 466 x D 336 x H 140 mm	Traffic red RAL 3020	Rubber mat	0962 615 610	1
C6	6 PCS	3 drawers, W 466 x D 336 x H 65 mm, 3 drawers, W 466 x D 336 x H 140 mm	Traffic red RAL 3020	Wood panel	0962 615 620	1
C6	6 PCS	3 drawers, W 466 x D 336 x H 65 mm, 3 drawers, W 466 x D 336 x H 140 mm	Gentian blue RAL 5010	Plastic top	0962 615 602	1
C6	6 PCS	3 drawers, W 466 x D 336 x H 65 mm, 3 drawers, W 466 x D 336 x H 140 mm	Gentian blue RAL 5010	Rubber mat	0962 615 612	1
C6	6 PCS	3 drawers, W 466 x D 336 x H 65 mm, 3 drawers, W 466 x D 336 x H 140 mm	Gentian blue RAL 5010	Wood panel	0962 615 622	1

Type description	Number of drawers	Drawer design	Colour	Material of the worktop	Art. no.	P. Qty.
C6	6 PCS	3 drawers, W 466 x D 336 x H 65 mm, 3 drawers, W 466 x D 336 x H 140 mm	Light blue RAL 5012	Plastic top	0962 615 601	1
C6	6 PCS	3 drawers, W 466 x D 336 x H 65 mm, 3 drawers, W 466 x D 336 x H 140 mm	Light blue RAL 5012	Rubber mat	0962 615 611	1
C6	6 PCS	3 drawers, W 466 x D 336 x H 65 mm, 3 drawers, W 466 x D 336 x H 140 mm	Light blue RAL 5012	Wood panel	0962 615 621	1
C6	6 PCS	3 drawers, W 466 x D 336 x H 65 mm, 3 drawers, W 466 x D 336 x H 140 mm	Light grey RAL 7035	Plastic top	0962 615 603	1
C6	6 PCS	3 drawers, W 466 x D 336 x H 65 mm, 3 drawers, W 466 x D 336 x H 140 mm	Light grey RAL 7035	Rubber mat	0962 615 613	1
C6	6 PCS	3 drawers, W 466 x D 336 x H 65 mm, 3 drawers, W 466 x D 336 x H 140 mm	Light grey RAL 7035	Wood panel	0962 615 623	1
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Traffic red RAL 3020	Plastic top	0962 615 700	1
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Traffic red RAL 3020	Rubber mat	0962 615 710	1
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Traffic red RAL 3020	Wood panel	0962 615 720	1
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Gentian blue RAL 5010	Plastic top	0962 615 702	1
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Gentian blue RAL 5010	Rubber mat	0962 615 712	1
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Gentian blue RAL 5010	Wood panel	0962 615 722	1

Continuation **TOOLsystem Compact workshop trolley Compact**

Type description	Number of drawers	Drawer design	Colour	Material of the worktop	Art. no.	P. Qty.
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Light blue RAL 5012	Plastic top	0962 615 701	1
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Light blue RAL 5012	Rubber mat	0962 615 711	1
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Light blue RAL 5012	Wood panel	0962 615 721	1
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Light grey RAL 7035	Plastic top	0962 615 703	1
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Light grey RAL 7035	Rubber mat	0962 615 713	1
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Light grey RAL 7035	Wood panel	0962 615 723	1
C7	7 PCS	5 drawers, W 466 x D 336 x H 65 mm, 2 drawers, W 466 x D 336 x H 140 mm	Anthracite, metallic	Plastic top	0962 615 001	1
C8	8 PCS	7 drawers, W 466 x D 336 x H 65 mm, 1 drawer, W 466 x D 336 x H 140 mm	Traffic red RAL 3020	Plastic top	0962 615 800	1
C8	8 PCS	7 drawers, W 466 x D 336 x H 65 mm, 1 drawer, W 466 x D 336 x H 140 mm	Traffic red RAL 3020	Rubber mat	0962 615 810	1
C8	8 PCS	7 drawers, W 466 x D 336 x H 65 mm, 1 drawer, W 466 x D 336 x H 140 mm	Traffic red RAL 3020	Wood panel	0962 615 820	1
C8	8 PCS	7 drawers, W 466 x D 336 x H 65 mm, 1 drawer, W 466 x D 336 x H 140 mm	Gentian blue RAL 5010	Plastic top	0962 615 802	1
C8	8 PCS	7 drawers, W 466 x D 336 x H 65 mm, 1 drawer, W 466 x D 336 x H 140 mm	Gentian blue RAL 5010	Rubber mat	0962 615 812	1

Type description	Number of drawers	Drawer design	Colour	Material of the worktop	Art. no.	P. Qty.
C8	8 PCS	7 drawers, W 466 x D 336 x H 65 mm, 1 drawer, W 466 x D 336 x H 140 mm	Gentian blue RAL 5010	Wood panel	0962 615 822	1
C8	8 PCS	7 drawers, W 466 x D 336 x H 65 mm, 1 drawer, W 466 x D 336 x H 140 mm	Light blue RAL 5012	Plastic top	0962 615 801	1
C8	8 PCS	7 drawers, W 466 x D 336 x H 65 mm, 1 drawer, W 466 x D 336 x H 140 mm	Light blue RAL 5012	Rubber mat	0962 615 811	1
C8	8 PCS	7 drawers, W 466 x D 336 x H 65 mm, 1 drawer, W 466 x D 336 x H 140 mm	Light blue RAL 5012	Wood panel	0962 615 821	1
C8	8 PCS	7 drawers, W 466 x D 336 x H 65 mm, 1 drawer, W 466 x D 336 x H 140 mm	Light grey RAL 7035	Plastic top	0962 615 803	1
C8	8 PCS	7 drawers, W 466 x D 336 x H 65 mm, 1 drawer, W 466 x D 336 x H 140 mm	Light grey RAL 7035	Rubber mat	0962 615 813	1
C8	8 PCS	7 drawers, W 478 x D 345 x H 65 mm, 1 drawer, W 478 x D 345 x H 140 mm	Light grey RAL 7035	Wood panel	0962 615 823	1
C9	9 PCS	9 drawers, W 478 x D 345 x H 65 mm	Traffic red RAL 3020	Plastic top	0962 615 900	1
C9	9 PCS	9 drawers, W 478 x D 345 x H 65 mm	Traffic red RAL 3020	Rubber mat	0962 615 910	1
C9	9 PCS	9 drawers, W 478 x D 345 x H 65 mm	Traffic red RAL 3020	Wood panel	0962 615 920	1
C9	9 PCS	9 drawers, W 478 x D 345 x H 65 mm	Gentian blue RAL 5010	Plastic top	0962 615 902	1
C9	9 PCS	9 drawers, W 478 x D 345 x H 65 mm	Gentian blue RAL 5010	Rubber mat	0962 615 912	1
C9	9 PCS	9 drawers, W 478 x D 345 x H 65 mm	Gentian blue RAL 5010	Wood panel	0962 615 922	1
C9	9 PCS	9 drawers, W 478 x D 345 x H 65 mm	Light blue RAL 5012	Plastic top	0962 615 901	1
C9	9 PCS	9 drawers, W 478 x D 345 x H 65 mm	Light blue RAL 5012	Rubber mat	0962 615 911	1
C9	9 PCS	9 drawers, W 478 x D 345 x H 65 mm	Light blue RAL 5012	Wood panel	0962 615 921	1

Continuation **TOOLsystem Compact workshop trolley Compact**

Type description	Number of drawers	Drawer design	Colour	Material of the worktop	Art. no.	P. Qty.
C9	9 PCS	9 drawers, W 478 x D 345 x H 65 mm	Light grey RAL 7035	Plastic top	0962 615 903	1
C9	9 PCS	9 drawers, W 478 x D 345 x H 65 mm	Light grey RAL 7035	Rubber mat	0962 615 913	1
C9	9 PCS	9 drawers, W 478 x D 345 x H 65 mm	Light grey RAL 7035	Wood panel	0962 615 923	1

Workshop trolley Compact 7 plus equipment

74 pieces. Compact and versatile workshop trolley with numerous practical details for professional use in the workshop.



- Robust, multi-folded sheet steel construction
- External dimensions incl. handle (W x D x H): 710 x 430 x 940 mm
- Total load: 300 kg
- Working height: 885 mm
- Ball bearing-mounted fully extending drawers, load capacity up to 35 kg
- Drawer dimensions suitable for tool assortments in foam inserts
- Robust, ergonomic side handle
- Trackless rubber, steering wheels Ø 100 mm (one with locking brake), running wheels Ø 140 mm
- Crash protection made of foam rubber protects against impact damage
- Available with ABS plastic worktop, wooden panel or ribbed rubber mat
- Powder-coated: Unit available in four different colours, all drawers in RAL 9011 (graphite black)
- Wide range of accessories
- Sidewalls with square perforations for accessories from perforated plate range

Three-stage locking concept

- Central locking with cylinder lock
- One-handed unlocking and individual drawer locks prevent drawers opening by themselves while moving
- Drawer lock for maximum stability and to prevent tipping. Only one drawer can be opened at a time

Width x depth x height (external dimension)	710 x 430 x 940 mm
Load capacity	300 kg

Colour	Colour of drawer	Pullout type	Art. no.	P. Qty.
Traffic red RAL 3020	Traffic red RAL 3020	Ball-bearing	0962 612 040	1
Light grey RAL 7035			0962 612 043	1
Gentian blue RAL 5010	Light blue RAL 5012	Ball-bearing	0962 612 041	1
Light grey RAL 7035	Light grey RAL 7035	Ball-bearing	0962 612 042	1

Workshop trolley Compact 6 plus equipment

109 pieces. Compact and versatile workshop trolley with numerous practical details for professional use in the workshop.

- Robust, multi-folded sheet steel construction
- External dimensions incl. handle (W x D x H): 710 x 430 x 940 mm
- Total load: 300 kg
- Working height: 885 mm
- Ball bearing-mounted fully extending drawers, load capacity up to 35 kg
- Drawer dimensions suitable for tool assortments in foam inserts
- Robust, ergonomic side handle
- Trackless rubber, steering wheels Ø 100 mm (one with locking brake), running wheels Ø 140 mm
- Crash protection made of foam rubber protects against impact damage
- Available with ABS plastic worktop, wooden panel or ribbed rubber mat
- Powder-coated: Unit available in four different colours, all drawers in RAL 9011 (graphite black)
- Wide range of accessories
- Sidewalls with square perforations for accessories from perforated plate range



Three-stage locking concept

- Central locking with cylinder lock
- One-handed unlocking and individual drawer locks prevent drawers opening by themselves while moving
- Drawer lock for maximum stability and to prevent tipping. Only one drawer can be opened at a time

Width x depth x height (external dimension)	710 x 430 x 940 mm
Load capacity	300 kg
Pullout type	Ball-bearing

Colour	Colour of drawer	Art. no.	P. Qty.
Traffic red RAL 3020	Traffic red RAL 3020	0962 612 036	1
Gentian blue RAL 5010	Gentian blue RAL 5010	0962 612 038	1
Light blue RAL 5012	Light blue RAL 5012	0962 612 037	1
Light grey RAL 7035	Light blue RAL 5012	0962 612 039	1

Workshop trolley Compact8 equipped for Mercedes-Benz

238 pieces. Compact and versatile workshop trolley with numerous practical details for professional use in the workshop

Contents of drawer 1:

Screwdriver assortment, 18 pieces (item no. 0965900923)

Contents of drawer 2:

Tool assortment, 35 pieces (item no. 0965900924)

Contents of drawer 3:

Pliers assortment, 10 pieces (item no. 0965900925)

Contents of drawer 4:

Double-end box wrench assortment, 29-pieces (item no. 0965900926)

Contents of drawer 5:

Combination wrench assortment, 29 pieces (item no. 0965900927)

Contents of drawer 6:

1/4-inch + 1/2-inch socket wrench assortment, 92 pieces (item no. 0965900928)

Contents of drawer 7:

Striking tool assortment, 24 pieces (item no. 0965900929)



Width x depth x height (external dimension)	710 x 430 x 940 mm
Load capacity	300 kg

Colour	Art. no.	P. Qty.
Traffic red RAL 3020	0962 612 032	1
Gentian blue RAL 5010	0962 612 034	1
Light blue RAL 5012	0962 612 033	1
Light grey RAL 7035	0962 612 035	1

Workshop trolley Compact8 equipped for BMW

327 pieces. Compact and versatile workshop trolley with numerous practical details for professional use in the workshop

Contents of drawer 1:

Screwdriver set, 21 pieces (item no. 0965900916)

Contents of drawer 2:

Circlip pliers set, 25 pieces (item no. 0965900917)

Contents of drawer 3:

Tool assortment, 19 pieces (item no. 0965900918)

Contents of drawer 4:

Double-end box wrench assortment, 22-pieces (item no. 0965900919)

Contents of drawer 5:

Combination wrench assortment, 27 pieces (item no. 0965900920)

Contents of drawer 6:

3/8-inch socket wrench assortment, 103 pieces (item no. 0965900921)

Contents of drawer 7:

Tool assortment, 109 pieces (item no. 0965900922)



Width x depth x height (external dimension)	710 x 430 x 940 mm
Load capacity	300 kg

Colour	Art. no.	P. Qty.
Traffic red RAL 3020	0962 612 028	1
Gentian blue RAL 5010	0962 612 030	1
Light blue RAL 5012	0962 612 029	1
Light grey RAL 7035	0962 612 031	1

Workshop trolley Compact 7 equipped for VW/AUDI

195 pieces. Compact and versatile workshop trolley with numerous practical details for professional use in the workshop

Contents of drawer 1:

1/2-inch socket wrench assortment, 43 pieces (item no. 0965900914)

Contents of drawer 2:

Screwdriver set, 25 pieces (item no. 0965900915)

Contents of drawer 3:

Pliers assortment, 18 pieces (item no. 0965900911)

Contents of drawer 4:

3/8 + 1/4-inch socket wrench assortment, 62 pieces (item no. 0965900913)

Contents of drawer 5:

Combination wrench assortment, 36 pieces (item no. 0965900912)

Contents of drawer 6:

- Simplex soft-face hammer (item no. 071572 20)
- Machinist's hammer with protective handle sheath 300 g + 800 g (item no. 071573 30; 071573 80)
- Assembly vacuum lifter (item no. 071558 03)
- Brake calliper file (item no. 071461 79)
- Brake calliper brush (item no. 071555 26)
- Wire stripping pliers AS 61 (item no. 0691501)
- Mini digital multimeter (item no. 071553 370)
- Ear defenders (item no. 0899300210)
- Full-vision safety goggles (item no. 0899102100)



Width x depth x height (external dimension)	710 x 430 x 940 mm
Load capacity	300 kg

Colour	Art. no.	P. Qty.
Traffic red RAL 3020	0962 612 024	1
Gentian blue RAL 5010	0962 612 026	1
Light blue RAL 5012	0962 612 025	1
Light grey RAL 7035	0962 612 027	1

System workshop trolley Basic 8.4

Unique workshop trolley that can be equipped with all foam and tray inserts as well as system boxes in the ORSY® system world thanks to the system dimensions.

- The workshop trolley can be adapted to the needs of the application in question using different accessories.
- Sturdy side handle
- Drawers with full extension
- Two-stage locking concept



ORSY

Width x depth x height (external dimension)	665 x 393 x 964 mm
Number of rolls	4 PCS
Design of the rolls	1 swivel castor with brake (D: 100 mm), 1 swivel castor without brake (D: 100 mm), 2 fixed castors without brake (D: 100 mm)
Surface	Powder-coated
Material	Sheet steel
Pullout type	Full extension, Ball-bearing
Load capacity	250 kg
Load capacity of drawer	25 kg

Type description	Drawer design	Colour	Number of drawers	Art. no.	P. Qty.
BASIC 8.4/3	3 drawers, W 466 x D 336 x H 69 mm, 1 cupboard compartment with hinged doors W 490 x D 350 x H 440 mm	Bright red orange RAL 2008	3 PCS	0962 641 034	1
BASIC 8.4/3	3 drawers, W 466 x D 336 x H 69 mm, 1 cupboard compartment with hinged doors W 490 x D 350 x H 440 mm	Traffic black RAL 9017	3 PCS	0962 641 033	1
BASIC 8.4/3	3 drawers, W 466 x D 336 x H 69 mm, 1 cupboard compartment with hinged doors W 490 x D 350 x H 440 mm	Traffic red RAL 3020	3 PCS	0962 641 030	1
BASIC 8.4	3 drawers, W 466 x D 336 x H 69 mm, 3 drawers, W 466 x D 336 x H 149 mm	Traffic red RAL 3020	6 PCS	0962 641 060	1
BASIC 8.4	5 drawers, W 466 x D 336 x H 69 mm, 2 drawers, W 466 x D 336 x H 149 mm	Traffic red RAL 3020	7 PCS	0962 641 070	1
BASIC 8.4	7 drawers, W 466 x D 336 x H 69 mm, 1 drawer, W 466 x D 336 x H 149 mm	Traffic red RAL 3020	8 PCS	0962 641 080	1
BASIC 8.4	3 drawers, W 466 x D 336 x H 69 mm, 3 drawers, W 466 x D 336 x H 149 mm	Gentian blue RAL 5010	6 PCS	0962 641 061	1

Continuation **System workshop trolley Basic 8.4**

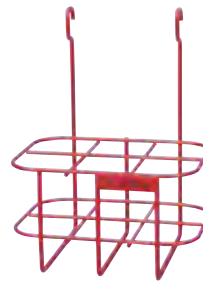
Type description	Drawer design	Colour	Number of drawers	Art. no.	P. Qty.
BASIC 8.4	5 drawers, W 466 x D 336 x H 69 mm, 2 drawers, W 466 x D 336 x H 149 mm	Gentian blue RAL 5010	7 PCS	0962 641 071	1
BASIC 8.4	7 drawers, W 466 x D 336 x H 69 mm, 1 drawer, W 466 x D 336 x H 149 mm	Gentian blue RAL 5010	8 PCS	0962 641 081	1
BASIC 8.4	3 drawers, W 466 x D 336 x H 69 mm, 3 drawers, W 466 x D 336 x H 149 mm	Telegrey 4 RAL 7047	6 PCS	0962 641 062	1
BASIC 8.4	5 drawers, W 466 x D 336 x H 69 mm, 2 drawers, W 466 x D 336 x H 149 mm	Telegrey 4 RAL 7047	7 PCS	0962 641 072	1
BASIC 8.4	7 drawers, W 466 x D 336 x H 69 mm, 1 drawer, W 466 x D 336 x H 149 mm	Telegrey 4 RAL 7047	8 PCS	0962 641 082	1
BASIC 8.4	3 drawers, W 466 x D 336 x H 69 mm, 3 drawers, W 466 x D 336 x H 149 mm	Traffic black RAL 9017	6 PCS	0962 641 063	1
BASIC 8.4	5 drawers, W 466 x D 336 x H 69 mm, 2 drawers, W 466 x D 336 x H 149 mm	Traffic black RAL 9017	7 PCS	0962 641 073	1
BASIC 8.4	7 drawers, W 466 x D 336 x H 69 mm, 1 drawer, W 466 x D 336 x H 149 mm	Traffic black RAL 9017	8 PCS	0962 641 083	1

Hanging wire basket

Sturdy construction with hanging hook

- Compartments for 6 aerosol cans
- Compartment partition approx. 70 x 70 mm

Width (B)	230 mm
Depth (T)	180 mm
Height (H)	300 mm
Suitable for workshop trolley	C, F, MW, R, WE, S



Art. no. 0891 890 893

P. Qty.: 1

Mobile assembly workbench MW

Extremely robust and spacious assembly workbench for professional workshop applications

- Solid sheet metal design
- External dimensions incl. handle (W x D x H): 1260 x 925 x 600 mm
- Total load: 450 kg
- Working height: 885 mm
- Central locking with cylinder lock for drawers and door
- Each drawer is secured against opening by itself
- Roller-mounted partially extending drawers, loadable up to 30 kg
- Robust side handle
- Wheels produced from rubber, steering wheels Ø 125 mm (two with locking brake), running wheels Ø 125 mm
- Solid copper beech panel, bar type, glued, oiled
- Dimensions of worktop: 1200 x 25 x 600 mm (W x H x D)



Number of drawers	5 PCS
Width x height x depth	1260 x 925 x 600 mm
Load capacity	450 kg

Type description	Drawer design	Art. no.	P. Qty.
MW1	1 drawer, W 459 x D 535 x H 115 mm, 1 drawer, W 459 x D 535 x H 160 mm, 1 drawer, W 999 x D 539 x H 65 mm, 2 drawers, W 459 x D 535 x H 65 mm	0962 610 113	1
MW1	1 drawer, W 459 x D 539 x H 115 mm, 1 drawer, W 459 x D 535 x H 160 mm, 1 drawer, W 999 x D 539 x H 65 mm, 2 drawers, W 459 x D 535 x H 65 mm	0962 610 112	1
MW1	2 drawers, W 459 x D 535 x H 65 mm, 1 drawer, W 459 x D 535 x H 115 mm, 1 drawer, W 459 x D 535 x H 160 mm, 1 drawer, W 999 x D 539 x H 65 mm	0962 610 101	1
MW1	2 drawers, W 459 x D 535 x H 65 mm, 1 drawer, W 459 x D 535 x H 115 mm, 1 drawer, W 459 x D 535 x H 160 mm, 1 drawer, W 999 x D 539 x H 65 mm	0962 610 111	1
MW2	1 drawer, W 459 x D 535 x H 115 mm, Four drawers, W 459 x D 539 x H 65 mm	0962 610 122	1
MW2	1 drawer, W 459 x D 535 x H 115 mm, Four drawers, W 459 x D 539 x H 65 mm	0962 610 123	1
MW2	1 drawer, W 459 x D 539 x H 115 mm, Four drawers, W 459 x D 539 x H 65 mm	0962 610 121	1
MW2	Four drawers, W 459 x D 539 x H 65 mm, 1 drawer, W 459 x D 539 x H 115 mm	0962 610 102	1
MW3	1 drawer, W 459 x D 535 x H 202 mm, 1 drawer, W 459 x D 535 x H 115 mm, 3 drawers, W 459 x D 535 x H 65 mm	0962 610 131	1
MW3	1 drawer, W 459 x D 535 x H 202 mm, 1 drawer, W 459 x D 535 x H 115 mm, 3 drawers, W 459 x D 535 x H 65 mm	0962 610 132	1
MW3	1 drawer, W 459 x D 535 x H 202 mm, 1 drawer, W 459 x D 535 x H 115 mm, 3 drawers, W 459 x D 535 x H 65 mm	0962 610 133	1
MW3	3 drawers, W 459 x D 535 x H 65 mm, 1 drawer, W 459 x D 535 x H 115 mm, 1 drawer, W 459 x D 535 x H 202 mm	0962 610 103	1

Double open-end wrench assortment

8 pcs, metric

Depth	335 mm
Width	185 mm
Height	60 mm
Size foam section	2
Number of pieces in assortment/set	8 PCS



Art. no. 0965 900 404

P. Qty.: 1



Contents for art. no. 0965 900 404		
Designation	Art. no.	Quantity
Double open-end wrench 6 x 7 mm	0713 304 067	1
Double open-end wrench 8 x 9 mm	0713 304 089	1
Double open-end wrench 10 x 11 mm	0713 304 101	1
Double open-end wrench 12 x 13 mm	0713 304 123	1
Double open-end wrench 14 x 15 mm	0713 304 145	1
Double open-end wrench 16 x 17 mm	0713 304 167	1
Double open-end wrench 18 x 19 mm	0713 304 189	1
Double open-end wrench 20 x 22 mm	0713 304 202	1
Foam insert for double open-end wrench assortment		1

Double-end box wrench assortment

12-piece, metric, deep depressed centre

Depth	185 mm
Width	335 mm
Height	60 mm
Size foam section	2
Number of pieces in assortment/set	12 PCS



Art. no. 0965 900 405

P. Qty.: 1



Contents for art. no. 0965 900 405		
Designation	Art. no.	Quantity
Double ring wrench, deep offset 6 x 7 mm	0713 305 067	1
Double ring wrench, deep offset 8 x 9 mm	0713 305 089	1
Double ring wrench, deep offset 10 x 11 mm	0713 305 101	1
Double ring wrench, deep offset 12 x 13 mm	0713 305 123	1
Double ring wrench, deep offset 14 x 15 mm	0713 305 145	1

Designation	Art. no.	Quantity
Double ring wrench, deep offset 16 x 17 mm	0713 305 167	1
Double ring wrench, deep offset 18 x 19 mm	0713 305 189	1
Double ring wrench, deep offset 20 x 22 mm	0713 305 202	1
Double ring wrench, deep offset 21 x 23 mm	0713 305 213	1
Double ring wrench, deep offset 24 x 27 mm	0713 305 247	1
Double ring wrench, deep offset 25 x 28 mm	0713 305 258	1
Double ring wrench, deep offset 30 x 32 mm	0713 305 302	1
Foam insert for double-end box wrench assortment	0955 900 405	1



System assortment 8.4.1, socket wrench 1/4 + 1/2 inch

108 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	108 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm

ORSY

Decor	Art. no.	P. Qty.
Carbon appearance	0965 905 922	1
Carbon appearance, Black matt	0965 905 301	1

System assortment 8.4.1, socket wrench 3/8 + 1/4 inch

91 pcs

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	91 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

Art. no. 0965 905 903

P. Qty.: 1



System assortment 8.4.1, socket wrench 1/2 inch

23 pcs

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	23 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

Art. no. 0965 905 202

P. Qty.: 1



System assortment 2.4.1, socket wrench 1/2 inch TX

17 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	17 PCS
Size foam section	2.4.1
Width x height x depth	115 x 38 x 335 mm
Decor	Carbon appearance

Art. no. 0965 905 201

P. Qty.: 1



System assortment 4.4.1, Multi ratchet combination wrench

8 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	8 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 406

P. Qty.: 1

System assortment 4.4.1, TX socket wrench 1/2 inch

12 pcs

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	12 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 207

P. Qty.: 1

System assortment 8.4.1, socket wrench 1/4 + 1/2 inch

56 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	56 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance



ORSY



Art. no. 0965 905 901

P. Qty.: 1

System assortment 2.4.1, hexagon socket wrench 1/2 inch

11 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	11 PCS
Size foam section	2.4.1
Width x height x depth	115 x 38 x 335 mm
Decor	Carbon appearance

Art. no. 0965 905 204

P. Qty.: 1



System assortment 4.4.1, screwdriver

8 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	8 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance

Art. no. 0965 905 501

P. Qty.: 1



System assortment 4.4.1, screwdriver TX

7 pieces. With circular blade and drill hole.

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	7 PCS
Size foam section	4.4.1



Continuation **System assortment 4.4.1, screwdriver TX**

Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance

Art. no. 0965 905 502

P. Qty.: 1



System assortment 4.4.1, pliers

4 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	4 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance

Art. no. 0965 905 600

P. Qty.: 1



System assortment 4.4.1, combination wrench

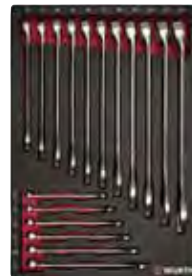
17 pieces. Metric, ring angled 15°.

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	17 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance

Art. no. 0965 905 401

P. Qty.: 1



System assortment 8.4.1, striking tool

13 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	13 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 703

P. Qty.: 1

System assortment 4.4.1, drift punch and striking tool

14 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	14 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 701

P. Qty.: 1

System assortment 8.4.1, striking tool and files

24 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	24 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm



ORSY

Decor	Art. no.	P. Qty.
Carbon appearance	0965 905 929	1
Carbon appearance, Black matt	0965 905 302	1



System assortment 8.4.1, screwdriver

21 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	21 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance



Art. no. 0965 905 916

P. Qty.: 1

System assortment 8.4.1, double-end box wrench

12 pieces Metric, deep offset.

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.



Number of pieces in assortment/set	12 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance



Art. no. 0965 905 405

P. Qty.: 1

System assortment 4.4.1, circlip pliers

4 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.



Number of pieces in assortment/set	4 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance



Art. no. 0965 905 602

P. Qty.: 1

System assortment 8.4.1, files and scrapers

9 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.



Number of pieces in assortment/set	9 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance



Art. no. 0965 905 802

P. Qty.: 1

System assortment 4.4.1, flexible ratchet combination wrench

8 pieces

- Compatible with all products of the ORSY system world
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes marked on insert.

Number of pieces in assortment/set	8 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 407

P. Qty.: 1

System assortment 2.4.1 socket wrench 1/4 inch and 3/8 inch

22 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	22 PCS
Size foam section	2.4.1
Width x height x depth	115 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 904

P. Qty.: 1

System assortment 4.4.1, socket wrench 1/4 and 1/2 inch

59 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	59 PCS
Size foam section	6.4.1
Width x height x depth	346 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 946

P. Qty.: 1

System assortment 8.4.1, pliers

18 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	18 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 911

P. Qty.: 1

System assortment 4.4.1, bits

38 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	38 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 907

P. Qty.: 1

System assortment 8.4.1, double open-end box wrench

22 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	22 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 919

P. Qty.: 1

System assortment 8.4.1, socket wrench 1/2 inch

43 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.



ORSY

Number of pieces in assortment/set	43 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

Art. no. 0965 905 914

P. Qty.: 1

System assortment 4.4.1, screwdriver gun

37 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.



ORSY

Number of pieces in assortment/set	37 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance

Art. no. 0965 905 943

P. Qty.: 1

System assortment 8.4.1, screwdriver

18 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.



ORSY

Number of pieces in assortment/set	18 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

Art. no. 0965 905 923

P. Qty.: 1

System assortment 8.4.1, screwdriver and ratchet key

35 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	35 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 924

P. Qty.: 1

System assortment 2.4.1, socket wrench 3/8 inch

12 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	12 PCS
Size foam section	2.4.1
Width x height x depth	115 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 909

P. Qty.: 1

System assortment 4.4.1, pliers VDE

4 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	4 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 607

P. Qty.: 1

System assortment 4.4.1, socket wrench 3/8 inch

19 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	19 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 944

P. Qty.: 1

System assortment 8.4.1, double open-end wrench

29 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	29 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 926

P. Qty.: 1

System assortment 4.4.1, socket wrench 1/2 inch

24 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	24 PCS
Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 945

P. Qty.: 1

System assortment 8.4.1 socket wrench 1/4 inch and 3/8 inch

62 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.



Number of pieces in assortment/set	62 PCS
Size foam section	8.4.1
Width x height x depth	462 x 38 x 335 mm
Decor	Carbon appearance

ORSY

Art. no. 0965 905 913

P. Qty.: 1

System assortment 2.4.1, impact socket wrench 1/2-inch

4 pieces

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Number of pieces in assortment/set	4 PCS
Size foam section	2.4.1
Width x height x depth	115 x 38 x 335 mm
Decor	Carbon appearance



ORSY

Art. no. 0965 905 213

P. Qty.: 1

System insert 4.4.1, empty compartment

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.

Size foam section	4.4.1
Width x height x depth	231 x 38 x 335 mm
Decor	Carbon appearance



Art. no. 0955 905 980

P. Qty.: 1

ORSY

Plastic insert bodywork

12 empty compartments marked VL, VR, HL and HR

- Compatible with all ORSY system products
- Insert made from high-quality plastic in attractive carbon finish for improved robustness, stability and easy cleaning
- Tool sizes are marked on the insert.



Size foam section	8.8.1
Width x height x depth	670 x 54 x 463 mm
Decor	Carbon appearance

Art. no. 0955 905 955

P. Qty.: 1



08**OCCUPATIONAL
SAFETY**

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Disposable nitrile glove

Liquid-proof, food-safe disposable glove

- Powder-free
- Silicone-free manufacturing process
- In practical disposable dispenser

Material	Nitrile
Interior finish	Powder-free, Chlorinated
Standards	EN 374 EN 420
Category	III
Length	240 mm
Tolerance, material thickness (+/-)	0.01 mm

Colour	Size	Material thickness	Art. no.	P. Qty.
Blue	S	0.1 mm	0899 470 00	100
Blue	M	0.1 mm	0899 470 01	100
Blue	L	0.1 mm	0899 470 02	100
Blue	XL	0.1 mm	0899 470 03	100
Blue	XXL	0.1 mm	0899 470 04	100
Black	S	0.1 mm	0899 470 100	100
Black	M	0.1 mm	0899 470 101	100
Black	L	0.1 mm	0899 470 102	100
Black	XL	0.1 mm	0899 470 103	100
Black	XXL	0.1 mm	0899 470 104	100

Disposable nitrile grip glove

Unique, diamond texture for optimal grip

- Extremely tear-resistant, powder and latex-free, silicone-free manufacturing process
- Orange colour increases visibility
- In a practical disposable dispenser



Colour	Orange
Material	Nitrile
Interior finish	Powder-free
Standards	EN 374 EN 420
Category	III
Length	240 mm
Material thickness of finger (smooth)	0.18 mm
Material thickness of finger (textured)	0.27 mm
Material thickness of palm (textured)	0.23 mm
Material thickness of cuff (smooth)	0.11 mm
Tolerance, material thickness (+/-)	0.01 mm

Size	Art. no.	P. Qty.
S	0899 470 120	50
M	0899 470 121	50
L	0899 470 122	50
XL	0899 470 123	50
XXL	0899 470 124	50



Arm guard W-280 Level C

Protects the heel of the hand, wrist and forearm areas from cuts and heat

- Two-layer, seamless, round-knit fine fabric design made from 100% Kevlar®
- Optimal in conjunction with cut protection clothing or gloves
- Arm guard fits perfectly over the heel of the hand thanks to integrated thumb hole



Size	Universal
Length	35 cm
Material of the liner	Kevlar®
Standards	EN 388 EN 407 EN 420
Cut resistance according to ISO 13997	C
Category	II

Continuation **Arm guard W-280 Level C**

Art. no. 0899 400 420

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Household glove

Liquid-proof, premium-quality cleaning glove made from natural latex

- Diamond structure for a secure grip
- Extremely elastic
- Optimum sense of touch
- Food safe
- Silicone-free manufacturing process



Material	Natural latex
Interior finish	Flocklined
Standards	EN 388 EN 374 EN 420
Category	III
Length	300 mm
Material thickness	0.42 mm
Tolerance, material thickness (+/-)	0.03 mm
Colour	Yellow

Size	Art. no.	P. Qty.
7	0899 415 01	12
8	0899 415 02	12
9	0899 415 03	12
10	0899 415 04	12



Chemical protective glove, natural latex and neoprene

Cotton flocking on the inside

- 100% liquid-proof
- Excellent sense of touch
- Good resistance to diluted acid and alkaline solutions
- Good mechanical resistance
- Silicone-free manufacturing process
- Food-safe



Material	Natural latex chloroprene mix
Interior finish	Flocklined
Standards	EN 388 EN 374 EN 420
Category	III
Length	320 mm
Material thickness	0.67 mm
Tolerance, material thickness (+/-)	0.03 mm
Colour	Black

Size	Art. no.	P. Qty.
8	0899 435 508	6
9	0899 435 509	6
10	0899 435 510	6



Chemical protective glove made from chloroprene and latex

Cotton flocking on the inside

- 100% waterproof
- Excellent grip thanks to diamond profile on palms and fingertips
- Food safety tested



Material	Chloroprene latex
Interior finish	Flocklined
Standards	EN 388 EN 374 EN 420
Category	III
Length	320 mm
Material thickness	0.67 mm
Tolerance, material thickness (+/-)	0.03 mm
Colour	Blue, Yellow

Size	Art. no.	P. Qty.
8	0899 435 81	6
9	0899 435 82	6
10	0899 435	6



Chemical protective glove chloroprene

Heavy-duty design

- Cotton flocking on the inside
- Diamond structure for a secure grip
- Highly resistant to dilute acids, alkaline solutions, oils and fats
- Good mechanical resistance
- Food-safe



Material	Chloroprene
Interior finish	Flocklined
Standards	EN 388 EN 374 EN 420
Category	III
Length	330 mm
Material thickness	0.68 mm
Tolerance, material thickness (+/-)	0.03 mm
Colour	Black

Size	Art. no.	P. Qty.
8	0899 435 608	6
9	0899 435 609	6
10	0899 435 610	6



Chemical and moisture protective glove Vinyl

Fully dipped protective glove with vinyl coating on cotton jersey lining

- Excellent wet and dry grip thanks to micro-roughened palm surfaces
- 100% waterproof
- Cold-insulating and heat-insulating jersey lining



Size	10
Material	PVC - Polyvinyl chloride
Interior finish	Cotton jersey liner
Standards	EN 374 EN 388 EN 420
Category	III
Length	350 mm
Material thickness	1.8 mm
Tolerance, material thickness (+/-)	0.03 mm
Colour	Green

Art. no. 0899 430

P. Qty.: 12



Chemical protective glove, Butyl

Gas-tight and resistant to exhaust gases produced by combustion processes

- Excellent protection against hazardous chemicals
- Good mechanical resistance
- Rolled edge
- Powdered



Material	Butyle
Interior finish	Powdered
Standards	EN 374 EN 388 EN 420
Category	III
Length	350 mm
Material thickness	0.5 mm
Tolerance, material thickness (+/-)	0.1 mm
Colour	Black

Size	Art. no.	P. Qty.
8	0899 430 308	1
9	0899 430 309	1
10	0899 430 310	1



Not resistant to oils, greases, halogens and hydrocarbons

Chemical protective glove nitrile with backing fabric

Robust, liquid-tight protective glove with polyamide support fabric that combines optimum chemical protection, secure grip and comfort

- Comfortable wearing thanks to polyamide support fabric
- Liquid-tight nitrile coating with roughened palm, optimal grip in moist, wet and oily working areas
- Good mechanical resistance



Material	Nitrile
Interior finish	Polyamide liner
Standards	EN 374 EN 388 EN 420
Category	III
Length	345 mm
Material thickness	1.3 mm
Tolerance, material thickness (+/-)	0.1 mm
Colour	Green, Black

Continuation **Chemical protective glove nitrile with backing fabric**

Size	Art. no.	P. Qty.
8	0899 435 808	6
9	0899 435 809	6
10	0899 435 810	6
11	0899 435 811	6



Chemical protective glove PVC w. backing fabric

Very robust, submersible PVC glove with cotton support fabric



- Comfortable wearing thanks to cotton jersey lining
- Excellent mechanical resistance
- Optimum protection against moisture and chemicals, good resistance to aqueous acids and alkalis, fats and oils

Material	PVC - Polyvinyl chloride
Interior finish	Cottontrikot
Standards	EN 374 EN 388 EN 420
Category	III
Material thickness	1.1 mm
Colour	Red brown

Size	Length	Art. no.	P. Qty.
9	350 mm	0899 430 409	6
10	350 mm	0899 430 410	6
9	580 mm	0899 430 419	3
10	580 mm	0899 430 420	3



Polyamide/cotton coarse-knit glove

Universal, rugged glove for all dry applications

- Seamless, two-layer round-knit design, cotton lining for enhanced comfort and durable, abrasion-resistant nylon exterior
- Non-slip vinyl dot coating on the palms and reinforced fingertips
- Good abrasion and wear resistance and good cold and heat protection



Gauge	7
Material of the liner	Polyamide/cotton
Material coating	PVC dots
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
8	0899 400 010	6
9	0899 400 020	6
10	0899 400 030	6
11	0899 400 040	6



Polyamide/cotton fine-knit glove

Knitted glove with a good fit for flexible use

- Seamless, two-layer round-knit design, cotton lining for enhanced comfort and durable, abrasion-resistant nylon exterior
- High degree of flexibility, good fit and excellent touch sensitivity
- Good grip thanks to abrasion-proof vinyl dots



Gauge	13
Material of the liner	Polyamide/cotton
Material coating	PVC dots
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
7	0899 404 107	12
8	0899 404 108	12
9	0899 404 109	12
10	0899 404 110	12



Protective glove Nitrilon Plus

Outstanding mechanical resistance

- High-quality acrylic/nitrile/butadiene coating on a rugged, seamless round-knit polyamide backing fabric
- Skin-friendly backing and coating materials
- Excellent dry grip properties for safe handling of workpieces and tools
- Great fit



Gauge	10
Material of the liner	Polyamide
Material coating	Nitrile
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
8	0899 400 660	6
9	0899 400 661	6
10	0899 400 662	6



Coarse-knit glove Universal

Rugged round-knit glove for dry working areas

- Seamless round-knit glove made from of polyester/synthetic yarn
- Good flexibility and fit
- Non-slip, vinyl dot coating



Gauge	7
Material of the liner	Acrylic/polyester
Material coating	PVC dots
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
8	0899 400 108	12
10	0899 400 110	12



Coarse-knit glove Economy

Functional glove with a non-slip dot coating

- Polyester/cotton backing fabric
- Good comfort and good fit thanks to round-knit design



Gauge	7
Material of the liner	Polyester/cotton
Material coating	PVC dots
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
8	0899 404 08	12/144
10	0899 404 010	12/144





Protective glove Protect

Flexible pigskin nappa leather glove for installers and mechanics

- Soft, supple pigskin nappa leather
- Back of the hand made from breathable elastic cotton fabric for comfort
- Excellent fit, flexibility and dexterity
- Perfect fit thanks to hook and loop fastener

Material	Pig Nappa leather
Interior finish	Without lining
Standards	EN 388 EN 420
Category	II
Colour	Red, White

Size	Art. no.	P. Qty.
8	0899 400 132	12
9	0899 400 133	12
10	0899 400 134	12

Protective glove Driver Classic

High-quality driver-style protective glove completely made from durable, soft cowhide leather

- Very good fit and very comfortable to wear
- Good grip
- Elasticated band on the back of the hand



Material	Full-grain cowhide leather
Interior finish	Without lining
Standards	EN 388 EN 420
Category	II
Colour	Natural

Size	Art. no.	P. Qty.
8	5350 000 408	6
9	5350 000 409	6
10	5350 000 410	6
11	5350 000 411	6



Full cowhide leather glove W-20

Rugged work glove made from high-quality full-grain cowhide

- Particularly supple
- Good flexibility and grip
- Rubberised cuff
- Backs of hands and cuffs made from heavy cotton fabric
- Backs of hands elasticated for more safety
- Knuckle guards and fingertips made from full-grain cowhide
- Index finger made completely from full-grain cowhide
- Cotton half-lining



Material	Full-grain cowhide leather
Interior finish	Palm lining
Standards	EN 388 EN 420
Category	II
Colour	Natural

Size	Art. no.	P. Qty.
8	5350 000 008	12
9	5350 000 009	12
10	5350 000 010	12
11	5350 000 011	12



Only limited suitability for wet work

Split cowhide leather glove W-10

Robust work glove made from split leather

- The thumb and index finger are completely made of leather for special protection
- Backs of hands made from heavy cotton fabric
- Knuckle guards and fingertips made of split leather
- Rubberised cuff
- Cotton half-lining



Size	10
Material	Split cowhide leather
Interior finish	Palm lining
Standards	EN 388 EN 420
Category	II

Art. no. 5350 000 110

P. Qty.: 12/120



Only limited suitability for wet work

Blue nitrile glove

Laminated safety cuff

- Nitrile coating on a heavy cotton jersey lining
- Breathable thanks to open backs of hands
- Very comfortable
- Liquid and oil repellent with good chemical resistance
- Good abrasion resistance



Material of the liner	Cotton jersey
Material coating	Nitrile
Standards	EN 388 EN 420
Category	II
Colour	Blue

Size	Art. no.	P. Qty.
10	0899 420	12
11	0899 420 100	6



Blue nitrile glove Economy

Safety cuff

- Medium-weight, cotton jersey lining, dip-coated in nitrile and synthetic latex
- Safety cuff made from sail material
- Breathable thanks to open backs of hands
- Good abrasion resistance
- Liquid repellent



Size	10
Material of the liner	Cotton jersey
Material coating	Nitrile
Standards	EN 388 EN 420
Category	II
Colour	Blue

Art. no. 0899 420 001

P. Qty.: 144



Yellow nitrile glove

Universal, lightweight assembly glove with nitrile coating

- Nitrile coating on a dense interlock cotton lining with knitted wrist gaiters
- Breathable through open backs of hands
- Good abrasion resistance
- Repellent to liquids, oil and grease
- Very good dry grip



Material of the liner	Cotton-Interlock
Material coating	Nitrile
Standards	EN 388 EN 420
Category	II
Colour	Yellow

Size	Art. no.	P. Qty.
7	0899 410 07	12
8	0899 410 08	12
9	0899 410 09	12
10	0899 410 10	12



Nitrile glove, yellow Economy

Lightweight assembly glove with nitrile coating

- Dip-coated in nitrile and synthetic latex
- Cotton/polyester interlock lining with wrist gaiter
- Good dry drip
- Partially liquid repellent
- Breathable thanks to open backs of hands



Material of the liner	Cotton-Interlock
Material coating	Nitrile
Standards	EN 388 EN 420
Category	II
Colour	Yellow

Size	Art. no.	P. Qty.
9	0899 410 109	12/144
10	0899 410 110	12/144



Nitrile chemical protective glove

Cotton velour lining

- 100% liquid-proof
- Diamond pattern for a secure grip
- Chemical and liquid protection against many alkalis, acids, greases, oils and in some cases solvents
- Silicone-free manufacturing process
- Food-safe



Material	Nitrile
Interior finish	Flocklined
Standards	EN 374 EN 388 EN 420
Category	III
Length	330 mm
Material thickness	0.38 mm
Tolerance, material thickness (+/-)	0.03 mm
Colour	Green

Size	Art. no.	P. Qty.
7	0899 435 07	6
8	0899 435 08	6
9	0899 435 09	6
10	0899 435 10	6
11	0899 435 11	6



Nitrile chemical protective glove, heavy-duty

Long, heavy-duty design

- Diamond pattern for a secure grip
- Chemical and liquid protection against many alkalis, acids, greases, oils and in some cases solvents
- Silicone-free manufacturing process
- Food-safe



Material	Nitrile
Standards	EN 374 EN 388 EN 420
Category	III
Length	450 mm
Material thickness	0.58 mm
Tolerance, material thickness (+/-)	0.03 mm
Colour	Green

Size	Art. no.	P. Qty.
8	0899 435 408	6
9	0899 435 409	6
10	0899 435 410	6



Nitrile glove Light

Light mechanical stress

- Palms and 3/4 of the backs of the hands coated with nitrile
- Cotton lining with knitted cuff
- Basic wear resistance
- Liquid-repellent, oil-repellent and grease-repellent
- Outstanding dry grip



Size	10
Standards	EN 388 EN 420
Category	II

Art. no. 0993 899 130

P. Qty.: 12/144



4.1.1.1



Mechanic's glove

Universal glove with good mechanical resistance and special surface texturing for excellent dry and wet grip

- Excellent flexibility for fine assembly work
- Excellent dry and wet grip via special surface texturing
- High-quality natural latex coating with open hand back for good breathability

Gauge	15
Material of the liner	Polyamide
Material coating	Natural rubber with crinkle finish
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
7	0899 400 528	6
8	0899 400 529	6
9	0899 400 530	6
10	0899 400 531	6
11	0899 400 532	6

Craftsman's glove Professional

Universal glove with excellent wet and dry grip and vibration-damping properties

- Cotton jersey backing fabric
- Excellent dry and wet grip
- Pressure and vibration-damping properties
- Optimum fit
- Velcro closure ensures wearer safety



Material of the liner	Cotton
Material coating	PVC foam
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
8	0899 400 652	6
9	0899 400 653	6
10	0899 400 654	6
11	0899 400 655	6



Vinyl protective glove

Dirt-protection glove for light to medium-heavy tasks with minimal risks

- Moisture and dirt-repellent artificial leather (vinyl-impregnated fabric)
- Inside with cotton half-lining
- Backs of hands and light safety cuffs made from cotton



Size	10
Material	PVC - Polyvinyl chloride
EN standard	420
Category	I

Art. no. 0899 401 000

P. Qty.: 12

Protective glove MultiFit Latex

Extremely light and flexible

- Good dry and wet grip properties
- Micro-porous, foamed natural latex coating on palm
- Seamless polyamide/elastane backing fabric



Gauge	15
Material of the liner	Polyamide/elastane
Material coating	Latex foam
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
7	0899 405 107	6
8	0899 405 108	6
9	0899 405 109	6
10	0899 405 110	6
11	0899 405 111	6





Protective glove MultiFit Nitrile

Universal and robust

- Highly resistant to wear
- Good resistance to many greases and oils in small amounts
- Microporous foamed nitrile coating in the palm

Gauge	15
Material of the liner	Polyamide/elastane
Material coating	Nitrile foam
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
6	0899 405 216	6
7	0899 405 217	6
8	0899 405 218	6
9	0899 405 219	6
10	0899 405 220	6
11	0899 405 221	6
12	0899 405 222	6

Please consider the legal instruction at the beginning of this chapter.

Protective glove MultiFit Nitrile Plus

Extremely robust and durable

- Outstanding mechanical resistance and service life thanks to additional nub texture
- Good resistance to many greases and oils in small amounts
- Seamless polyamide-elastane backing fabric



Gauge	15
Material of the liner	Polyamide/elastane
Material coating	Nitrile foam with dots
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
7	0899 405 307	6
8	0899 405 308	6
9	0899 405 309	6
10	0899 405 310	6
11	0899 405 311	6

Please consider the legal instruction at the beginning of this chapter.



Assembly glove Soft

Extremely lightweight and flexible glove with superior dexterity and sensitivity

- Fine-knit glove made of polyamide stretch yarn
- Maximum comfort
- Breathable thanks to extremely lightweight, micro-porous PU coating
- Very flexible and stretchable
- Fits like a second skin



Gauge	18
Material of the liner	Polyamide
Material coating	Polyurethane
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
7	0899 400 730	6
8	0899 400 731	6
9	0899 400 732	6
10	0899 400 733	6
11	0899 400 734	6



Cotton jersey glove

Skin-friendly cotton glove with good heat-protection and cold-protection properties

- Cotton jersey fabric, fluffy texture on the inside
- Can be worn on either hand



Size	10
Material	Cotton
Standards	EN 420
Category	I

Art. no. 0899 400 140

P. Qty.: 12

Cotton jersey glove

Fine cotton glove for light assembly work or as an underglove

- 100% bleached cotton, with sidewalls
- Lightweight design
- Comfortable to wear and good fit



Material	Cotton
Standards	EN 420
Category	I

Size	Art. no.	P. Qty.
8	0899 400 08	12
10	0899 400 10	12
12	0899 400 12	12

Mechanic's glove Uni-Top

Universal glove for work performed by mechanics and skilled tradesmen

- Skin-friendly, seamlessly round-knit polyamide backing fabric
- Very good dry and wet grip properties
- Special foamed polymer coating with pressure and vibration-damping properties
- Outstanding fit and flexibility thanks to stretchable materials
- Wearer safety ensured thanks to rip-tape fastening



Gauge	15
Material of the liner	Polyamide
Material coating	PVC foam
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
8	0899 400 690	6
9	0899 400 691	6
10	0899 400 692	6



Assembly glove Comfort

Lightweight, breathable fine assembly glove

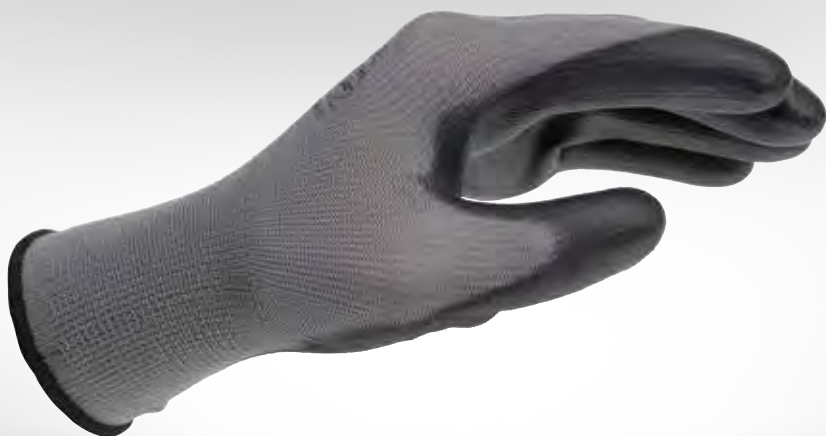
- Fine-knit nylon backing fabric
- Breathable PU coating
- Excellent flexibility
- Outstanding fit
- Very comfortable to wear



Gauge	15
Material of the liner	Polyamide
Material coating	Polyurethane
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
7	0899 400 607	5
8	0899 400 608	5
9	0899 400 609	5
10	0899 400 610	5
11	0899 400 611	5





Assembly glove Economy

Lightweight gloves with breathable black PU coating

- Fine-knit fabric made from grey textured polyester
- Comfortable to wear
- Excellent fit, flexibility and dexterity
- Resistant to dirt

Gauge	15
Material of the liner	Polyester
Material coating	Polyurethane
Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
7	0899 400 617	12/120
8	0899 400 618	12/120
9	0899 400 619	12/120
10	0899 400 620	12/120
11	0899 400 621	12/120

Mechanic's glove Pro

With an integrated magnet on the back of the hand to attach small tools and fastening materials.

- Robust protectors on backs and fingers
- Shock-absorbing palm inserts
- Areas of strain specifically reinforced
- Highly durable triple stitching on the palm
- Great fit and high degree of user safety
- Comfortable



Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
8	0899 400 748	1
9	0899 400 749	1
10	0899 400 750	1



Mechanic's glove Cut plus

Robust all-round gloves with excellent cut protection

- Special cut-protection fibres in the palm area
- Specific reinforcements at areas placed under strain
- Robust protectors on the back of the hand and fingers
- Palm with abrasion-proof and non-slip facings
- Soft neoprene rip-tape fastening
- Breathable, elasticated polyester fabric on the back of the hand



Standards	EN 388 EN 420
Category	II

Size	Art. no.	P. Qty.
8	0899 401 248	1
9	0899 401 249	1
10	0899 401 250	1
11	0899 401 251	1



Protective glove MultiFit Dry

Liquid-repellent, fully dipped all-round glove, particularly suitable for wet working environments

- Liquid-repellent and breathable
- Outstanding grip in dry and wet conditions
- Optimum fit and maximum touch sensitivity
- Cuff with comfort width
- Maximum comfort thanks to the seamlessly round-knit polyamide/elastane backing fabric combined with a breathable coating



Gauge	15
Material of the liner	Polyamide/elastane
Material coating	Latex foam
Standards	EN 388 EN 407 EN 420
Category	II

Size	Art. no.	P. Qty.
7	0899 405 507	6
8	0899 405 508	6
9	0899 405 509	6
10	0899 405 510	6
11	0899 405 511	6



Mechanic's winter glove

Seamless polyester and cotton looped, knit fabric with natural latex coating

- Breathable thanks to open backs of hands
- Fine surface texture for outstanding wet and dry grip
- Excellent mechanical resistance



Size	11
Gauge	10
Material of the liner	Polyester/acrylic
Material coating	Natural rubber with crinkle finish
Standards	EN 388 EN 511 EN 420
Category	II

Art. no. 0899 400 522

P. Qty.: 6



Winter glove Comfort

Two-layer knitted glove with excellent protection against cold

- Acrylic/pure new wool fibre for maximum comfort
- Open backs for excellent breathability
- High-quality natural latex coating
- Fine surface texture for outstanding wet and dry grip



Gauge	15
Material of the liner	Polyamide/acrylic-wool
Material coating	Natural rubber with crinkle finish
Standards	EN 388 EN 511 EN 420
Category	II
Colour	Orange

Size	Art. no.	P. Qty.
8	0899 450 108	6
9	0899 450 109	6
10	0899 450 110	6
11	0899 450 111	6



Cold protection gloves Cyokit 400

Hand protection with integrated special membrane for handling cryogenic gases and working in cold environments

- Protection against cold contact injuries and burns from escaped liquid gas and impermeable to water
- High breathability and comfortable to wear
- Highly elastic



Standards	EN 388 EN 511
Category	III

Size	Art. no.	P. Qty.
10	0899 450 160	1
11	0899 450 161	1



Not suitable for immersion in cold fluids!

Welding glove W-100

Robust welding glove for universal use; made from full-grain cowhide

- Full-grain cowhide palms
- Split leather backs and cuffs
- Very rugged and hard-wearing
- Repellent to oil, grease and water



Size	10
Length	35 cm
Material	Full-grain cowhide leather
Interior finish	Without lining
Standards	EN 388 EN 420 EN 12477A
Category	II

Art. no. 5350 050 010

P. Qty.: 1



Welding glove W-110

High-quality, fully lined welding glove for all welding tasks with increased heat development

- Fully lined, including cuffs
- Heat-insulating Molton lining
- Full-grain cowhide palms
- Split leather backs and cuffs
- Leather surface protects against welding beads and sparks
- Repellent to oil, grease and water
- Long service life



Length	35 cm
Material	Full-grain cowhide leather
Interior finish	Complete lining
Standards	EN 388 EN 420 EN 12477A
Category	II

Size	Art. no.	P. Qty.
8	5350 050 108	1
9	5350 050 109	1
10	5350 050 110	1
11	5350 050 111	1



Welding glove W-120

Split leather standard glove with porous surface

Size	10
Length	35 cm
Material	Split cowhide leather
Interior finish	Without lining
Standards	EN 388 EN 420 EN 12477A
Category	II



Art. no. 5350 050 210

P. Qty.: 1



Gloves should not be used at oily and greasy work stations.

Welding glove W-130

Touch-sensitive welding gloves for work with excellent touch feel

- Excellent touch sensitivity
- Palms and backs of hands made from supple nappa leather
- Split leather cuffs
- Lined cuffs
- Repellent to oil, grease and water



Material	Nappa leather
Interior finish	Without lining
Standards	EN 388 EN 420 EN 12477B
Category	II

Size	Length	Art. no.	P. Qty.
8	30 cm	5350 050 308	1
9	31 cm	5350 050 309	1
10	32 cm	5350 050 310	1
11	33 cm	5350 050 311	1



Voltage protective glove

For working voltages up to 1000 V/AC

- Good flexibility
- Good sense of touch
- Layer thickness according to the standard max. 1 + 0.6 mm
- Supplied in a UV-resistant PE storage pouch



Length	410 mm
Material	Natural latex
Category	III
Class	0 - Operating voltage < 1000 volts
Utilisation voltage (AC voltage)	1000 V/AC
Utilisation voltage (DC voltage)	1500 V/DC

Size	Art. no.	P. Qty.
9	0899 400 929	1
10	0899 400 930	1
11	0899 400 931	1

Resistant to acid, oil, ozone and cold temperatures (category RC)

EN 60903

EN 61482-1+2

- Level 1: 4 kA/0.5 s/300 mm
- Level 2: 7 kA/0.5 s/300 mm

Cut protection glove W-110 Level B

Universal, very comfortable cut protection glove with Dyneema® fibres and breathable PU coating

- Excellent hand temperature and optimal comfort for long periods thanks to Dyneema® fibres
- Maximum comfort thanks to breathable PU coating, excellent fit and flexibility
- High degree of abrasion resistance and mechanical resistance



Gauge	13
Material of the liner	Dyneema®/polyamide/elastane
Material coating	Polyurethane
Standards	EN 388 EN 420
Cut resistance according to ISO 13997	B
Category	II

Size	Art. no.	P. Qty.
7	0899 400 739	6
8	0899 400 740	6
9	0899 400 741	6
10	0899 400 742	6
11	0899 400 743	6

Please consider the legal instruction at the beginning of this chapter.



Cut protection glove W-200 Level C

Very comfortable and robust cut protection glove with Dyneema® fibres and breathable PU coating

- Excellent hand temperature and optimal comfort for long periods thanks to Dyneema® fibres
- Maximum comfort thanks to breathable PU coating, excellent fit and flexibility
- High degree of abrasion resistance and mechanical resistance



Gauge	13
Material of the liner	Dyneema®/polyamide/glass
Material coating	Polyurethane
Standards	EN 388 EN 420
Cut resistance according to ISO 13997	C
Category	II

Size	Art. no.	P. Qty.
7	0899 400 761	6
8	0899 400 762	6
9	0899 400 763	6
10	0899 400 764	6
11	0899 400 765	6

Please consider the legal instruction at the beginning of this chapter.



Cut protection glove W-120 Level B

Universal, flexible cut protection glove for light cut protection work

- Outstanding wearing comfort thanks to breathable PU coating
- Highly flexible and good tactile sensitivity
- Good mechanical abrasion resistance and good cut protection



Gauge	13
Material of the liner	Polyethylene/elastane/polyamide/polyester/glass fibre
Material coating	Polyurethane
Standards	EN 388 EN 420
Cut resistance according to ISO 13997	B
Category	II

Continuation **Cut protection glove W-120 Level B**

Size	Art. no.	P. Qty.
7	0899 403 307	6
8	0899 403 308	6
9	0899 403 309	6
10	0899 403 310	6
11	0899 403 311	6



Cut protection glove W-500 Level F

Extremely robust cut protection glove with maximum cut protection and abrasion resistance

- Outstanding mechanical resistance in terms of cut and abrasion resistance
- Nitrile foam coating with outstanding grip and good resistance against grease and oils
- Good puncture resistance against metal chips, good fit



Gauge	13
Material of the liner	HDPE/steel/basalt/polyester/elastane
Material coating	Nitrile foam
Standards	EN 388 EN 420
Cut resistance according to ISO 13997	F
Category	II

Size	Art. no.	P. Qty.
7	0899 403 907	6
8	0899 403 908	6
9	0899 403 909	6
10	0899 403 910	6
11	0899 403 911	6



Heat protection glove H-100

Universal, flexible heat protection glove with nitrile nubs for short-term contact with heat

- Increased heat protection due to heavy, seamless double-knit design
- Short-term protection against contact heat up to 250°C
- Better grip and flexibility due to nitrile nubs on both sides



Gauge	7
Material of the liner	Cotton double layer

Material coating	Nitrile dots
Standards	EN 388 EN 420 EN 407
Category	II

Size	Art. no.	P. Qty.
9	0899 407 009	6
10	0899 407 010	6



Heat protection glove H-110

Universal, flexible heat protection glove with nitrile coating with good sensitivity and comfort

- Short-term protection against contact heat up to 250°C
- Liquid-tight nitrile coating with high nubs
- Additional cut protection and increased service life due to reinforced crook of the thumb



Gauge	10
Material of the liner	Para-aramid synthetic fibre
Material coating	Nitrile foam
Standards	EN 388 EN 407 EN 420
Category	II

Size	Art. no.	P. Qty.
8	0899 407 208	6
9	0899 407 209	6
10	0899 407 210	6



Heat protection glove H-120

Robust heat protection glove with very good cut protection properties for short-term contact heat up to 350°C

- Optimum heat protection and cut protection thanks to special double-knit design (outside: aramid fibres, inside: 100% cotton)
- Short-term protection against contact heat up to 350°C
- Very good wrist protection due to long design and seamless, knitted cuff



Size	10
Gauge	7
Standards	EN 388 EN 407 EN 420

Continuation **Heat protection glove H-120**

Category	II
Material	Aramid fibre/cotton

Art. no. 0899 407 310

P. Qty.: 1



Glove holder with snap hooks

For easy fastening to work and protective clothing

- Very secure hold due to serrated grips
- Easy to use



Material	Polycarbonate - PC
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Art. no. 0899 899 023

P. Qty.: 3



Ear plugs x-100

Ergonomic, cone-shaped disposable ear plugs for use in extremely noisy environments

- Closed surface prevents foreign bodies and dirt particles from penetrating the ear plug
- Gentle, optimum adaptation to the ear canal
- Quick and easy proper insertion and easy removal of the ear plug

SNR attenuation value	37 dB
L attenuation value	34 dB
M attenuation value	34 dB
H attenuation value	36 dB

Container	Design	Art. no.	P. Qty.
Disposable dispenser	In pairs in polybag	0899 300 331	200
Disposable dispenser	Loose	0899 300 342	50
Refilling bag for dispenser	Loose	0899 300 336	200

Corded ear plugs x-100

Ergonomic, cone-shaped disposable ear plugs for use in extremely noisy environments

- Always available and close at hand thanks to safety cord
- Outstanding insulation properties
- Excellent voice recognition
- Very comfortable for maximum user acceptance
- Closed surface prevents the penetration of foreign bodies and dirt particles in the plugs
- Soft and optimum adjustment to the ear canal
- Quick and simple to insert correctly
- Easy to remove

SNR attenuation value	37 dB
L attenuation value	34 dB
M attenuation value	34 dB
H attenuation value	36 dB
Container	Disposable dispenser
Design	In pairs in polybag

Art. no. 0899 300 332

P. Qty.: 100



Ear plug band x-300

Lightweight at only 8 g

- To be worn under the chin
- Designed according to the latest ergonomic findings
- Oval plugs perfectly close up the ear canal.
- Fixing of the strap eliminates distracting friction noises

SNR attenuation value	24 dB
L attenuation value	18 dB
M attenuation value	19 dB
H attenuation value	27 dB
EN standard	352

Art. no. 0899 300 339

P. Qty.: 3



Folding ear plug band x-300

Practical and comfortable hearing protection that you can store in any shirt or jacket pocket and take with you.

- To be worn under the chin
- Oval ear plugs perfectly close up the ear canal
- Fixing of the strap eliminates distracting friction noises

SNR attenuation value	23 dB
L attenuation value	17 dB



M attenuation value	18 dB
H attenuation value	26 dB
EN standard	352

Art. no. 0899 300 341

P. Qty.: 3

Replacement plugs

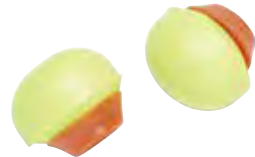
For ear defender strap x-300

Number of ear plugs	5 Pair
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Art. no. 0899 300 340

P. Qty.: 5

VE 5 = 5 pairs



Corded ear plugs

Soft fins make these ear plugs very comfortable to wear

- Always to hand thanks to a securing cord
- High insulation performance with good signal and speech recognition
- Comfortable to wear due to soft fins

SNR attenuation value	27 dB
L attenuation value	22 dB
M attenuation value	24 dB
H attenuation value	27 dB
EN standard	352



Art. no. 0899 300 338

P. Qty.: 4

Ear defenders 3M Peltor Optime I

Very light and versatile ear defenders for the best possible protection.

Extremely comfortable to wear, even during long-term use

- The soft and comfortable sealing rings filled with a unique combination of liquid and foam guarantee a perfect seal with low-contact pressure
- Plenty of space under the shells despite slimline profile

Can be combined

The ear defenders can be worn together with other protective equipment.

SNR attenuation value	27 dB
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Continuation **Ear defenders 3M Peltor Optime I**

Art. no. 5M51 0

P. Qty.: 1

Ear defenders WNA 200

With very good insulation properties (SNR attenuation value 33 dB) and height-adjustable headband

- Very comfortable due to padded headbands and soft sealing cushions
- Adapts to any head shape thanks to height-adjustable straps
- Suitable for areas with lots of noise

SNR attenuation value	33 dB
L attenuation value	24 dB
M attenuation value	31 dB
H attenuation value	35 dB



Art. no. 0899 300 410

P. Qty.: 1

Ear defenders WNA 200/F

With excellent insulation properties (SNR attenuation value 32 dB), height-adjustable headband and fluorescent muffs

- Very comfortable due to padded headbands and soft sealing cushions
- Adapts to any head shape thanks to height-adjustable straps
- Excellent visibility in difficult viewing conditions thanks to fluorescent capsules and reflective lettering on the headband

SNR attenuation value	32 dB
L attenuation value	22 dB
M attenuation value	29 dB
H attenuation value	36 dB



Art. no. 0899 300 430

P. Qty.: 1

Professional forest helmet combination

This forest-worker helmet combination meets the needs of professional forestry workers, providing effective protection, good ventilation, comfort and optimum visibility.

- Very safe thanks to the special UV-stabilised ABS plastic and the special helmet shape
- Optimum visibility thanks to the short peak and professional visor
- Protection class „S“ for increased durability



SNR attenuation value	28 dB
L attenuation value	16 dB
M attenuation value	26 dB
H attenuation value	35 dB
EN standard	397

Art. no. 0899 200 150

P. Qty.: 1

Tested and recognised by the FPA (German Forestry Testing Commission)





Cup-shaped mask CM 3000 V FFP1 NR D

Complete protection and comfortable to wear thanks to special, soft filter materials

- Exhalation valve ensures a pleasant microclimate inside the mask
- Low breathing resistance
- Pre-moulded design
- Nosepiece for a better grip
- Half-height sealing lip in the nose area
- Looped-through cotton head strap
- Use together with Würth safety glasses for optimum protection

Filter class	FFP1 NR D
Design	With valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 501

P. Qty.: 15

Cup-shaped mask CM 3000 FFP1 NR D

Complete protection and comfortable to wear thanks to special, soft filter materials

Low breathing resistance

Optimum fit and seal thanks to

- Pre-moulded design
- Nosepiece for a better grip
- Half-height sealing lip in the nose area

Looped-through cotton head strap

Use together with Würth safety glasses for optimum protection



Filter class	FFP1 NR D
Design	No valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 500

P. Qty.: 20

Cup-shaped mask CM 3000 FFP2 NR D

Complete protection and comfortable to wear thanks to special, soft filter materials

Low breathing resistance

Optimum fit and seal thanks to

- Pre-moulded design
- Nosepiece for a better grip
- Half-height sealing lip in the nose area

Looped-through cotton head strap

Use together with Würth safety glasses for optimum protection



Filter class	FFP2 NR D
Design	No valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 502

P. Qty.: 20



Cup-shaped mask CM 3000 V FFP2 NR D

Complete protection and comfortable to wear thanks to special, soft filter materials

- Exhalation valve ensures the user feels comfortable wearing the mask
- Minimal breathing resistance
- Nose clip for optimised fitting

Filter class	FFP2 NR D
Design	With valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 503

P. Qty.: 15

Cup-shaped mask CM 3000, carbon V FFP2 NR D

With active carbon to remove unpleasant odours and for use when welding under the occupational exposure limit

- Exhalation valve ensures a pleasant microclimate inside the mask
- Ideal protection and comfortable thanks to special soft filter materials
- Low breathing resistance
- Pre-moulded design
- Nosepiece for a better grip
- Half-height sealing lip in the nose area
- Looped-through cotton head strap
- Use together with Würth safety glasses for optimum protection



Filter class	FFP2 NR D
Design	With valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 504

P. Qty.: 15



Cup-shaped mask CM 3000 V FFP3 NR D

Complete protection and comfortable to wear thanks to special, soft filter materials

- Exhalation valve ensures a pleasant microclimate inside the mask
- Low breathing resistance
- Pre-moulded design
- Nosepiece for a better grip
- All-round sealing lip
- Adjustable head strap
- Use together with Würth safety glasses for optimum protection

Filter class	FFP3 NR D
Design	With valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 505

P. Qty.: 5

Comfort mask CM 3000 Pro V FFP2 NR D

Optimum protection with maximum comfort

- Two extra filters ensure a longer service life and minimal breathing resistance
- Mask is more pleasant to wear thanks to an exhalation valve and two additional inhalation valves (heat and moisture)
- 3D nose area ensures an optimum fit. Mask can also be used with Würth safety glasses and provides a clear field of vision
- Head strap length can be adjusted in a flexible manner
- Sealing lip all round for optimum seal

Filter class	FFP2 NR D
Design	With valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 510

P. Qty.: 5



Comfort mask CM 3000 Pro V FFP3 NR D

Optimum protection with maximum comfort

- Two extra filters ensure a longer service life and minimal breathing resistance
- Mask is more pleasant to wear thanks to an exhalation valve and two additional inhalation valves (heat and moisture)
- 3D nose area ensures an optimum fit. Mask can also be used with Würth safety glasses and provides a clear field of vision
- Head strap length can be adjusted in a flexible manner
- Sealing lip all round for optimum seal

Filter class	FFP3 NR D
Design	With valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 511

P. Qty.: 5



Folding mask FM 3000 FFP1 NR D

In a practical design that folds completely flat

- Hygienic individual packaging
- Ideal protection and comfortable thanks to special soft filter materials
- Low breathing resistance
- Nosepiece for a better grip
- Half-height sealing lip in the nose area
- Looped-through cotton head strap
- Use together with Würth safety goggles for optimum protection

Filter class	FFP1 NR D
Design	No valve
EN standard	149:2001 + A1:2009



Continuation **Folding mask FM 3000 FFP1 NR D**

Art. no. 0899 110 520

P. Qty.: 20

Folding mask FM 3000 V FFP1 NR D

In a practical design that folds completely flat

- Hygienic individual packaging
- Exhalation valve ensures a pleasant microclimate inside the mask
- Ideal protection and comfortable thanks to special soft filter materials
- Low breathing resistance
- Nosepiece for a better grip
- Half-height sealing lip in the nose area
- Looped-through cotton head strap
- Use together with Würth safety glasses for optimum protection

Filter class	FFP1 NR D
Design	With valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 521

P. Qty.: 15

Folding mask FM 3000 FFP2 NR D

In a practical design that folds completely flat

- Hygienic individual packaging
- Ideal protection and comfortable thanks to special soft filter materials
- Low breathing resistance
- Nosepiece for a better grip
- Half-height sealing lip in the nose area
- Looped-through cotton head strap
- Use together with Würth safety goggles for optimum protection

Filter class	FFP2 NR D
Design	No valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 522

P. Qty.: 20



Folding mask FM 3000 V FFP2 NR D

In a practical design that folds completely flat

- Exhalation valve ensures the user feels comfortable wearing the mask
- Complete protection and comfortable to wear thanks to special, soft filter materials
- Nose clip for optimised fitting

Filter class	FFP2 NR D
Design	With valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 523

P. Qty.: 15



Folding mask FM 3000, carbon V FFP2 NR D

With active carbon to remove unpleasant odours and for use when welding under the occupational exposure limit

- Practical design that folds completely flat
- Hygienic individual packaging
- Exhalation valve ensures a pleasant microclimate inside the mask
- Ideal protection and comfortable thanks to special soft filter materials
- Low breathing resistance
- Nosepiece for a better grip
- Half-height sealing lip in the nose area
- Looped-through cotton head strap
- Use together with Würth safety glasses for optimum protection

Filter class	FFP2 NR D
Design	With valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 524

P. Qty.: 10



Folding mask FM 3000 V FFP3 NR D

In a practical design that folds completely flat

Hygienic individual packaging

Exhalation valve ensures a pleasant microclimate inside the mask

Ideal protection and comfortable thanks to special soft filter materials

Low breathing resistance

Optimum fit and seal thanks to

- Nosepiece for a better grip
- Circumferential seal
- Adjustable head strap

Use together with Würth safety glasses for optimum protection



Filter class	FFP3 NR D
Design	With valve
EN standard	149:2001 + A1:2009

Art. no. 0899 110 525

P. Qty.: 10

Storage box (empty)

Practical storage box for the half face mask HM 173

Length x width x height	300 x 200 x 150 mm
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Art. no. 0899 171 000

P. Qty.: 1



Particle filter P3 for half face mask HM 173

- Bayonet connection system in accordance with EN 141
- Low weight

Filter class	P3
Protection against	Fine dusts up to 30 times the limit value, Fine dusts with full face mask up to 400 times the limit value
Range of applications	Against solid and liquid particles of toxic, highly toxic and carcinogenic substances



Art. no. 0899 173 002

P. Qty.: 4

Gas filter for half face mask HM 173

Lightweight filter with bayonet connection system according to EN 141



Filter class	Protection against	Range of applications	Art. no.	P. Qty.
A2	Organic vapours and gases (boiling point above 65°C)	Spray painting, Application of solvents	0899 173 003	12
A2-P3	Organic vapours and gases (boiling point above 65°C), Fine dusts up to 30 times the limit value, Fine dusts with full face mask up to 400 times the limit value	Spray painting, Application of solvents, Against solid and liquid particles of toxic, highly toxic and carcinogenic substances	0899 173 004	8
ABEK1	Organic vapours, Inorganic and acidic gases, Ammoniac, Derivatives	Application of chlorine, Application of bleaching agents, Application of hydrochloric acid, Application of sulphur dioxide, Application of methylamine	0899 173 005	12
ABEK1 P3	Organic vapours, Inorganic and acidic gases, Ammoniac, Derivatives, Fine dusts up to 30 times the limit value, Fine dusts with full face mask up to 400 times the limit value	Application of chlorine, Application of bleaching agents, Application of hydrochloric acid, Application of sulphur dioxide, Application of methylamine, Against solid and liquid particles of toxic, highly toxic and carcinogenic substances	0899 173 006	8

Particle pre-filter for HM 173 half face mask

For additional filtering of fine dust when working with half face mask HM 173

- Filtering of fine dust particles protects the gas filter in the half face mask.

Filter class	P2
Protection against	Fine dusts up to 10 times the limit value, Fine dusts with full face mask up to 15 times the limit value
Range of applications	As a particle prefilter for gas filters for solid and liquid particles



Art. no. 0899 173 001

P. Qty.: 50

Only in conjunction with gas filter, art. no. 0899173003, and filter holder, art. no. 0899173007.

Screw filter P3 RD

High-quality filter for protective masks with standardised round threaded connection in accordance with EN 148-1

Plastic filter housing

Therefore reduced weight

Low breathing resistance

Resealable openings

Therefore increased durability

Long shelf life

12 years



Filter class	P3 RD
EN standard	143, 14387, 148-1

Continuation **Screw filter P3 RD**

Art. no. 0899 142 300

P. Qty.: 1

EN 143:2000 and EN 14387

Screw filter A2-P3 RD

High-quality filter for protective masks with standardised round threaded connection in accordance with EN 148-1

Aluminium filter housing

Therefore reduced weight

Low breathing resistance

Resealable openings

Therefore increased durability

Long shelf life

6 years



Filter class	A2-P3 RD
EN standard	143, 14387, 148-1

Art. no. 0899 142 312

P. Qty.: 1

In accordance with EN 143:2000 and EN 14387

Screw filter A2B2E2K2Hg-P3 RD

High-quality filter for protective masks with standardised round threaded connection in accordance with EN 148-1

Aluminium filter housing

Therefore reduced weight

Low breathing resistance

Resealable openings

Therefore increased durability

Long shelf life

6 years



Filter class	ABEK2Hg-P3 RD
EN standard	143, 14387, 148-1

Art. no. 0899 142 015

P. Qty.: 1

In accordance with EN 143:2000 and EN 14387

Safety glasses Wega®

Sporty safety glasses with perfect all-around protection

- Safely shields the eyes against flying particles
- Adapts to the shape of the individual wearer's face for comfort and perfect protection
- Perfect fit with adjustable arm length and angle
- Scratch-resistant lens surface and permanent anti-fog coating on inside
- 100% UV protection (up to 400 nm)



Colour of safety lens	Clear
Material of safety lens	Polycarbonate
UV protection	400 nm
EN standard	166, 170
Mechanical strength	F (45m/s)

Art. no. 0899 102 115

P. Qty.: 1

Safety glasses Cetus®

Perfect protection with a sporty, dynamic, fashionable look

- Perfect eye coverage
- Distortion-free view
- Extremely scratch-resistant lens surface and permanent anti-fog coating on inside
- 100% UV protection (up to 400 nm)
- High wear comfort and secure fit owing to flexible two-component arms



Material of safety lens	Polycarbonate
UV protection	400 nm
Mechanical strength	F (45m/s)

Colour of safety lens	EN standard	Art. no.	P. Qty.
Clear	166, 170	0899 102 320	1
Grey	166, 172	0899 102 321	1

Safety goggles LIBRA®

Versatile use with perfect protection and comfort

- Excellent coverage of the eye area
- Innovative lens technology with excellent visual clarity
- Crystal-clear, distortion-free view
- Scratch-resistant lens surface and permanent anti-fog coating on inside
- 100% UV protection (up to 400 nm)
- Excellent for combining with prescription glasses
- No contact between goggles and prescription glasses
- Quick, automatic adjustment of arms to head shape
- Soft, especially flexible arm ends for comfort



Colour of safety lens	Clear
Material of safety lens	Polycarbonate
UV protection	400 nm
EN standard	166, 170
Mechanical strength	F (45m/s)

Art. no. 0899 102 275

P. Qty.: 1

Safety glasses CEPHEUS®

Lightweight, well-fitting safety glasses

- Sporty slip-in bracket for pressure-free fit
- Unrestricted side view
- Highly impact-resistant polycarbonate lens
- Scratch-resistant coating on both sides
- 100% UV protection (up to 400 nm)



Material of safety lens	Polycarbonate
UV protection	400 nm
Mechanical strength	F (45m/s)

Colour of safety lens	EN standard	Art. no.	P. Qty.
Clear	166, 170	0899 102 250	1
Grey	166, 172	0899 102 252	1
Yellow	166, 170	0899 102 251	1



Safety glasses Electra

Highly functional safety glasses in sporty filigree design

- Suitable for a wide range of head sizes
- 100% UV protection (up to 400 nm)
- Extremely low weight of 23 g
- Soft, adjustable nose rest for non-slip fit
- Anti-slip arm ends
- Outer panes are extremely scratch-resistant and inside panes feature a permanent anti-fog coating

Material of safety lens	Polycarbonate
UV protection	400 nm
Mechanical strength	F (45m/s)

Colour of safety lens	EN standard	Art. no.	P. Qty.
Clear	166, 170	0899 102 340	1
Grey	166, 172	0899 102 341	1

Safety glasses LIBRA®

Ultra-light safety glasses for unhindered working

- Barely perceptible weight of just 18 g
- First-class comfort thanks to a new strap technology
- Smooth transition from hard to soft plastic at the ends of the arms
- Extremely thin and break-proof lens
- Lens with extraordinary visual clarity
- Optimum fit and high degree of user safety
- Perfect safety with a sporty design
- Scratch-resistant lens surface and permanent anti-fog coating on inside
- 100% UV protection (up to 400 nm)



Material of safety lens	Polycarbonate
UV protection	400 nm
Mechanical strength	F (45m/s)

Colour of safety lens	EN standard	Art. no.	P. Qty.
Clear	166, 170	0899 102 270	1
Grey	166, 172	0899 102 271	1

Safety glasses CASSIOPEIA®

Comfortable, individually adjustable safety goggles with a dynamic design

- Four air cushions on earpieces for a pressure-free fit
- Individual adjustment of earpiece length and angle
- Large coverage
- Ergonomically designed lenses for wide field of vision
- Highly impact-resistant polycarbonate lenses
- Scratch-resistant coating
- 100% UV protection (up to 400 nm)



Material of safety lens	Polycarbonate
UV protection	400 nm
Mechanical strength	F (45m/s)

Colour of safety lens	EN standard	Art. no.	P. Qty.
Clear	166, 170	0899 102 220	1
Grey	166, 172	0899 102 222	1
Yellow	166, 170	0899 102 221	1

Safety goggles Cetus®X-treme

Maximum protection in a casual design

- Soft part makes direct contact with the screen
- Outer panes are extremely scratch-resistant and inside panes feature a permanent anti-fog coating
- 100% UV protection (up to 400 nm)



Material of safety lens	Polycarbonate
UV protection	400 nm
Mechanical strength	F (45m/s)

Colour of safety lens	EN standard	Art. no.	P. Qty.
Clear	166, 170	0899 102 380	1
Grey	166, 172	0899 102 381	1

Safety glasses Taurus®

Casual, dynamic safety goggles with high-quality metal frame for perfect protection at work

- Maximum safety coupled with optimum comfort
- Good fit
- Scratchproof with permanent fog-free coating on both sides of the lenses
- Individually adjustable, flexible nose bridge
- Screwless lens holder provides a high level of safety for mechanical stresses
- Microfibre bag to store and clean the glasses (included in scope of delivery)
- 100% UV protection (up to 400 nm)



Material of safety lens	Polycarbonate
UV protection	400 nm
Mechanical strength	F (45m/s)

Colour of safety lens	EN standard	Art. no.	P. Qty.
Clear	166, 170	0899 102 290	1
Grey	166, 172	0899 102 291	1

Safety glasses Spica®

Sporty eye protection with enhanced comfort

- Wide field of vision
- Ideal adjustment to the face
- Soft nose bridge for non-slip, comfortable fit
- Ergonomic, soft brow rest
- Scratch-resistant lens surface and permanent anti-fog coating on inside
- 100% UV protection (up to 400 nm)
- Variable arm angle for individual adjustment and optimum eye coverage



Continuation **Safety glasses Spica®**

Material of safety lens	Polycarbonate
UV protection	400 nm
Mechanical strength	F (45m/s)

Colour of safety lens	EN standard	Art. no.	P. Qty.
Clear	166, 170	0899 102 330	1
Grey	166, 172	0899 102 331	1

Safety goggles Cetus® X-treme 65KB

Extraordinary protection in a casual design

- Increases contrast and reduces blue light
- Scratch-resistant, interior permanently mist-free and 100% UV protection up to 400 nm
- Flexible 2-component nose bridge



Material of safety lens	Polycarbonate
UV protection	400 nm
EN standard	166, 172
Mechanical strength	F (45m/s)
Design	Contrast increasing, Blue light reducing

Art. no. 0899 102 382

P. Qty.: 1

Safety goggles FORNAX® plus

Maximum protection in an innovative design

- Integrated side protection
- Panoramic lens for large field of vision
- Scratch-resistant lens surface and permanent anti-fog coating on inside
- 100% UV protection (up to 400 nm)
- Variable arm angle for flexible adjustment
- Secure fit without pressure marks – even after long periods of wear
- Very compact when folded
- Excellent in combination with breathing masks



Colour of safety lens	Clear
Material of safety lens	Polycarbonate
UV protection	400 nm
EN standard	166, 170
Mechanical strength	F (45m/s)

Art. no. 0899 102 242

P. Qty.: 1

Safety glasses Cetus®S

Perfect protection with a casual, dynamic fashionable look, ideal for small heads

- Perfect eye coverage
- Outside is extremely scratch-resistant, inside permanently mist-free
- 100% UV protection (up to 400 nm)
- High wear comfort and secure fit owing to flexible two-component arms



Material of safety lens	Polycarbonate
UV protection	400 nm
Mechanical strength	F (45m/s)

Colour of safety lens	EN standard	Art. no.	P. Qty.
Clear	166, 170	0899 102 324	1
Grey	166, 172	0899 102 325	1

Safety goggles Ergo Top

Innovative frame technology for maximum protection and comfort

- Maximum hold, will not fall off head
- Comfortable to wear thanks to even distribution of contact pressure
- Good combination option with corrective eye wear as no pressure on frames of corrective glasses.
- Variable arm angle adjustment for optimal adjustment to face shape



Colour of safety lens	Clear
Material of safety lens	Polycarbonate
UV protection	385 nm
EN standard	166
Mechanical strength	F (45m/s)

Art. no. 0899 102 002

P. Qty.: 1



Full-vision goggles Andromeda®

Two-component technology for reliable protection and maximum comfort

- Spacious
- Panoramic field of vision
- Optimum ventilation for ideal eye comfort
- Suitable for combining with half-face masks
- High impact-resistant polycarbonate lens
- Scratch-resistant lens surface and permanent anti-fog coating on inside
- Lens can be replaced quickly and easily
- Individually adjustable headband
- 100% UV protection up to 400 nm

Colour of safety lens	Clear
Material of safety lens	Polycarbonate
UV protection	400 nm
EN standard	166, 170
Mechanical strength	B (120m/s)

Art. no. 0899 102 110

P. Qty.: 1

Full-vision goggles WEGA®

The light-weight of full-vision goggles

- Slim design and lightweight (46 g)
- Perfect fit and very comfortable to wear thanks to flexible soft components
- Adapts to the shape of the wearer's face
- Adjustable headband
- High-quality lens coating
- Outer panes are extremely scratch-resistant and inside panes feature a permanent anti-fog coating
- Ideal for combining with hard hats and breathing masks
- 100% UV protection up to 400 nm



Colour of safety lens	Clear
Material of safety lens	Polycarbonate
UV protection	400 nm
EN standard	166, 170
Mechanical strength	B (120m/s)

Art. no. 0899 102 116

P. Qty.: 1

Goggles case

With zip and belt loop

For safe storage of goggles and corresponding spare lenses

Art. no. 0899 102 350

P. Qty.: 1



Lens for Andromeda full-vision goggles

Highly impact-resistant polycarbonate lens

- 100% UV protection up to 400 nm

Colour of safety lens	Clear
Material of safety lens	Polycarbonate
UV protection	400 nm
EN standard	166, 170
Mechanical strength	B (120m/s)



Art. no. 0899 102 111

P. Qty.: 1

Face shield

Perfect protection for grinding and cutting work, as well as against dripping or splashing liquids

- Maximum safety combined with optimum comfort
- Special geometry for extended protection of the upper head and chin
- Large, resistant polycarbonate visor with wide field of view
- Quick and easy lens change
- Multiple visor inclination adjustment settings
- Individual head strap adjustment
- Soft padding on all parts with head contact
- Tested in accordance with EN166 and 170



Mechanical strength	B (120m/s)
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Art. no. 0899 101 202

P. Qty.: 1

Glasses cleaning cloth

Practical removal box with 100 individually packed moist cleaning wipes

- Special moist cleaning wipe for gentle cleaning of all glasses, in particular all safety goggles
- Suitable for all glasses coatings

Silicone-free	Yes
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Art. no. 0899 102 300

P. Qty.: 100





First-aid case, DIN 13157

Suitable for stationary and mobile use

- Easy to find what you need thanks to flexible interior compartments and Plexiglas cover
- High-strength ABS plastic
- Protected against dust and water spray thanks to rubber seal in the interior
- Includes wall bracket with 90° locking mechanism

Length	280 mm
Width	220 mm
Height	110 mm

Art. no. 0899 520 6

P. Qty.: 1

First-aid case, DIN 13169

Suitable for stationary and mobile use

- Easy to find what you need thanks to flexible interior compartments and Plexiglas cover
- Protected against dust and water spray thanks to rubber seal in the interior
- Includes wall bracket with 90° locking mechanism



Continuation **First-aid case, DIN 13169**

Length	445 mm
Width	320 mm
Height	150 mm

Art. no. 0899 520 15

P. Qty.: 1

Eye rinse solution

Handy bottle with sterile sodium chloride solution (0.9%)

- Ergonomically shaped eye cup
- The bottle is especially suitable for mobile use in the workplace and for refilling wall stations and wall-mounted emergency boxes

Chemical basis	Sterile sodium chloride solution (0.9%)
Range of applications	For rinsing foreign bodies.
Shelf life from production	36 Month



Contents	Recommended rinsing time	Art. no.	P. Qty.
200 ml	approx. 2 minutes	0899 511 915	1/10
500 ml	approx. 5 minutes	0899 511 906	1/12

In accordance with DIN EN 15154-4

Neutralising eye rinse solution

Handy bottle with sterile phosphate solution (4.9%) which has a neutralising effect when there is a risk of chemical burns

- Ergonomically shaped eye cup
- The bottle is especially suitable for mobile use at workstations or for refilling wall stations or wall-mounted first-aid boxes

Contents	200 ml
Chemical basis	Sterile phosphate buffer solution (4,9%)
Range of applications	To neutralize acids and a variety of alkali., Rinse until the bottle is empty., Continuation of rinsing with the Würth Eye Irrigation.
Recommended rinsing time	approx. 2 minutes
Shelf life from production	36 Month



Art. no. 0899 511 921

P. Qty.: 1

Rinse eyes until the bottle is empty. Continue rinsing with the Würth eye wash solution until medical treatment is sought.

Emergency station for eyes

In a dust-proof wall-mounted box

Scope of delivery

- Eye rinse solution, 500 ml
- Neutralising eye rinse solution, 200 ml
- Mirror and emergency plan for eyes

Contents	700 ml
Chemical basis	Sodium chlorite
Shelf life from production	36 Month

Art. no. 0899 511 920

P. Qty.: 1



Eye rinsing station

Compact eye rinsing station for local use

Scope of delivery:

- Wall station consisting of 1x eye wash solution, 500 ml
- Wall bracket with pictograms and mirror

Shelf life from production	36 Month
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Art. no. 0899 511 905

P. Qty.: 1

In accordance with DIN EN 15154-4



Eye rinsing station Maxi

With two 500 ml filled, ready-to-use eye wash bottles

- Ideal for use in industry and workshops
- Dustproof wall box protects the eye wash bottles against external contamination

Contents	500 ml
Chemical basis	Sodium chlorite
Recommended rinsing time	approx. 5 minutes
Shelf life from production	36 Month

Art. no. 0899 511 914

P. Qty.: 1



Finger bandage

For covering skin injuries on fingers

Length	12 cm
Width	2 cm
Number of pieces	20 PCS



Continuation **Finger bandage**

Art. no. 0899 520 101

P. Qty.: 1

First-aid kit for car

First aid kit complies with DIN 13164

Scope of delivery:

1x roll of plasters, 1x set of assorted plasters, 2x skin wipes, 4x small first aid dressings, 2x large dressings, 5x roller bandage, 3x compresses, 2x triangular bandage, 1x pair of scissors, 1x emergency blanket, 4x gloves, 1x first aid booklet, 1x table of contents



DIN	13164
Length	255 mm
Width	166 mm
Height	80 mm
Box material	ABS

Art. no. 0899 520 7

P. Qty.: 1

Refill pack for first-aid kit

Contents in accordance with DIN 13157

- Contents: 66 pcs.

DIN	13157, 13169
Shelf life from production	60 Month



Art. no. 0899 520 100

P. Qty.: 1

Refill kit for first aid bags

First-aid materials in accordance with DIN 13164-2014

DIN	13164
Length	240 mm
Width	65 mm
Height	160 mm
Shelf life from production	48 Month
Included in delivery (Lieferumfang)	10 x replacement pack



Art. no. 0824 403 000

P. Qty.: 10

Plaster strips

Elastic, individually packaged fabric plasters suitable for single use and for replenishing plaster dispensers

- Rapid first aid for minor injuries
- The plasters are individually wrapped and ready for immediate use after removal from the dispenser



Number of pieces	45 PCS
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Art. no. 0899 520 151

P. Qty.: 1

Adhesive-free plaster Elast latex-free

Adhesive-free plaster for all wounds and cuts.

- Does not adhere to skin, hair or wounds
- No residues
- Self-adhesive (only sticks to itself), does not adhere to skin, hair or wounds
- Absorbent, absorbs blood



Number of pieces	1 PCS
Plaster length	450 cm

Plaster width	Art. no.	P. Qty.
3 cm	0899 512 240	1
6 cm	0899 512 24	1



Blue, adhesive-free plaster Elast latex-free

Adhesive-free plaster for all wounds and cuts, optimum hold even in food-processing areas

- Recognisable as for use in areas where food is processed or stored
- Does not adhere to skin, hair or wounds
- No residues
- Self-adhesive (only adheres to itself)
- Cannot be detected

Number of pieces	1 PCS
Plaster length	450 cm

Plaster width	Art. no.	P. Qty.
3 cm	0899 512 250	1
6 cm	0899 512 25	1

Plaster strips, long

For quickly attending to minor injuries

- Particularly suitable for finger injuries
Plasters can be wrapped around the finger several times as they are particularly long
- A flexible, skin-coloured fabric plaster
- The plasters are individually packed and immediately ready for use after removal from the dispenser



Number of pieces	30 PCS
Plaster length	120 mm
Plaster width	20 mm

Art. no. 0899 520 106

P. Qty.: 1

Plasters Alu

For fast first aid for minor injuries with aluminium layer. Ideal for burns.

- Flexible fabric plaster with a micronised aluminium layer
- Does not stick to the wound
- Breathable and skin-friendly



Number of pieces	45 PCS
Plaster length	72 mm
Plaster width	25 mm

Art. no. 0899 520 178

P. Qty.: 1

Combination first-aid bag

Space-saving vehicle combi bag with bandaging material in accordance with DIN 13164 as well as European warning triangle

- Case made of high-quality nylon material with water-repellent coating
- 3-sided all-round zip fastening



Length	435 mm
Width	100 mm
Height	75 mm
DIN	13164

Art. no. 0899 520 9

P. Qty.: 1

Defibrillator AED Plus®

Semi-automatic external defibrillator ideal for first aiders

The AED Plus® includes a support in real time for CPR, to guide the first aider step-by-step through resuscitation.

This facilitates good and safe chest compressions and is proven to increase the chances of survival of the patient many times over.

Audiovisual real-time feedback on the performance, the depth and rate of compressions in CPR

Coaching with the aim of achieving a high-standard of CPR by first aiders, to increase survival rates for heart and brain-related ailments.

Durable and cost-effective

- 5-year electrode shelf life
- 5-year battery life



Width	24.1 cm
Height	13.3 cm
Power input	0 W
Nominal voltage	3 V
Protection class	Protection class II/protective insulation
Depth	29.2 cm
Type description	Inch AED Plus
Material	Polycarbonate - PC

Art. no. 0993 900 100

P. Qty.: 1

Wall cabinet for defibrillators

Cabinet suitable for many defibrillators

- With holes for wall mounting
- Front raised edge for safe storage of the defibrillator
- Viewing window made from shatterproof acrylic glass

Product weight (per item)	4.9 kg
Material	Sheet steel
Width	400 mm
Length	220 mm
Height	400 mm



Art. no. 0993 900 103

P. Qty.: 1

Plaster dispenser

For quickly attending to minor injuries

The plasters can quickly and easily be removed with one hand

- The protective paper is automatically removed when the plaster strip is pulled out of the dispenser
- Very hygienic
- Plaster is easy to unwrap from the packaging
- Plaster can be applied immediately



Included in delivery (Lieferumfang)	Empty dispenser including fastening materials
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Colour	Length	Height	Width	Art. no.	P. Qty.
Green	230 mm	135 mm	30 mm	0899 520 175	1
Transparent	85 mm	130 mm	35 mm	0899 520 181	1

Dispenser

For adhesive-free latex-free plasters

- Optimum availability
- Hygienic storage
- Integrated blade for cutting plasters

Included in delivery (Lieferumfang)	Plaster dispenser incl. fastening materials
Colour	Red
Length	280 mm
Height	170 mm
Width	170 mm



Art. no. 0899 512 23

P. Qty.: 1



Hard hat SH 2000-S

Comfortable hard hat with internal dial adjustment

- Extended downwards for neck protection
- Low weight
- 30 mm insert pockets allow the fitting of hearing protection

Min./max. size	52 cm-61 cm
Interior equipment helmet	6-point
EN standard	397
Min. temperature conditions	-30 °C
Material	PE - Polyethylene

Colour	Art. no.	P. Qty.
Blue	0899 200 245	1
Red	0899 200 256	1
White	0899 200 243	1
Yellow	0899 200 244	1

Hard hat SH 2000-S Pro

Comfortable hard hat with internal dial adjustment and pre-mounted 4-point chin strap

- High-quality 4-point chin strap
- Neck protector extended downwards
- Optimum, quick width adjustment with dial system
- Unobstructed upwards view thanks to short helmet peak
- 6-point fabric lining and individually controlled ventilation openings on the front and back
- Low weight
- Good combination options
- Tested in line with EN 397 with supplementary requirements



Colour	White
Min./max. size	52 cm-61 cm
Interior equipment helmet	6-point
EN standard	397
Min. temperature conditions	-30 °C
Material	PE - Polyethylene

Art. no. 0899 200 235

P. Qty.: 1

Electrician's helmet SH-E 2000-S

Comfortable electrician's hard hat with internal dial adjustment

- Helmet shell is completely closed, so suitable for use by electricians in accordance with EN 397 and EN 50365 (1000 VAC)
- Optimum, quick width adjustment with dial system
- Unobstructed upwards view thanks to short helmet peak
- 6-point textile suspension harness
- Compatible with visors and ear defenders
- Suitable for very low temperatures down to -30°C
- Protects against weld spatter (MM = molten metal)



Colour	White
Min./max. size	52 cm-61 cm
Interior equipment helmet	6-point
EN standard	397, 50365
Min. temperature conditions	-30 °C
Material	PE - Polyethylene

Art. no. 0899 200 236

P. Qty.: 1

Hard hat SH-6

Helmet shell extended downwards for neck protection

- Special net structure reinforces the shell at all critical points
- Low weight
- Circumferential rain groove for directed water run-off
- Ventilation holes for „good climate“ under the helmet
- 30 mm insert pockets for hearing protection
- Long, circumferential sweatband made from especially absorbent fleece material
- Attachment points for chin strap
- Quick-action closure for optimum adjustment to head size
- Approval as a cold-use safety helmet to -30 °C



Min./max. size	52 cm-62 cm
Interior equipment helmet	6-point
EN standard	397
Min. temperature conditions	-30 °C
Material	PE - Polyethylene

Colour	Art. no.	P. Qty.
White	0899 200 71	1
Yellow	0899 200 70	1

Hard hat Builder

Very comfortable to wear and secure fit through ergonomic and height-adjustable inner

**Inner with rotary wheel for perfect setting
Firm inside fit**

To prevent localised pressure upon impact

Extended protective area for the neck

240 mm² ventilation areas

5-rib design



Min./max. size	53 cm-61 cm
Interior equipment helmet	6-point
EN standard	397
Min. temperature conditions	-20 °C
Material	HDPE - High density polyethylene

Colour	Art. no.	P. Qty.
Blue	0993 899 222	1
Green	0993 899 224	1
Orange	0993 899 225	1
Red	0993 899 223	1
White	0993 899 221	1
Yellow	0993 899 220	1

BG Bau recommends replacing hard hats made of thermoplastics after a maximum of four years.

Chin strap, 4-point

For hard hat SH 2000

Material	Plastic
Colour	Black



Art. no. 0899 200 248

P. Qty.: 1

Sweatband

For hard hat SH 2000/working-at-height helmet

Material	Faux leather
Colour	Skin-coloured



Art. no. 0899 200 249

P. Qty.: 10

Winter hood

Ideal for work in the cold that requires a helmet, as the helmet sits securely on the hood.

- Windproof and water-repellent outer material
- Circumferential reflector band
- Side mesh in the ear area increases the wearer's attention to environmental influences
- Warm fleece inner lining

Colour	Yellow
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Art. no. 0899 200 293

P. Qty.: 1

Standard visor

For hard hat SH 2000-S

Easy removal of the visor without removing the complete device thanks to magnetic fasteners

Material	Polycarbonate - PC
Colour	Clear
EN standard	166, 170



Art. no. 0899 200 237

P. Qty.: 1

Electrician's visor SLB 1

Arc fault class 1 visor for electrician's hard hat SH-E 2000-S

- The magnetic fastenings make it possible to detach the visor, without having to remove the whole apparatus.

Material	Polycarbonate - PC
Colour	Clear
Non-fogging	Yes
EN standard	166, 170

Art. no. 0899 200 238

P. Qty.: 1



Electrician's visor SLB 2

Arc fault class 2 visor for electrician's hard hat SH-E 2000-S

- The magnetic fastenings make it possible to detach the visor, without having to remove the whole apparatus.

Material	Polycarbonate - PC
Colour	Blue
Non-fogging	Yes
EN standard	166, 170

Art. no. 0899 200 239

P. Qty.: 1



Ear defenders

For hard hat SH 2000-S

- The magnetic fastening enable easy attachment to the visor.

SNR attenuation value	27 dB
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Art. no. 0899 200 259

P. Qty.: 1

No helmet adapter included. The hearing protection can only be attached to the helmet in combination with a visor.



Neck protector

Optimum protection of the neck area when working with SH 2000 hard hats.

Material	100% polyester
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Art. no. 0899 200 296

P. Qty.: 1



Helmet adapter

Practical adapter for SH 2000 hard hats used for attaching ear plugs and visors.

- The magnetic fastenings make it possible to detach the visor, without having to remove the whole apparatus.

Material	PE - Polyethylene
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Art. no. 0899 200 297

P. Qty.: 2



Face shield Ultimate

Perfect protection for grinding and cutting work, as well as against dripping or splashing liquids

- Maximum safety with optimum comfort
- Special geometry provides extended protection for top of the head and chin
- Large, durable polycarbonate visor with wide field of vision

Material	PA - Polyamide
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Art. no. 0899 101 205

P. Qty.: 1



Impact cap

Sporty head protection with a modern baseball cap design for any applications with a risk of impact to the head.

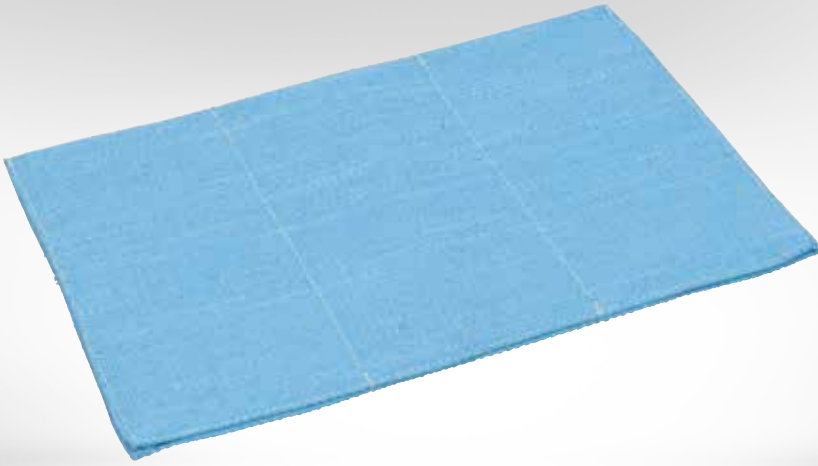
- Upper material: 100% cotton
- Hard plastic shell
- Foam padding on the shell and built-in ventilation holes for comfort
- Adjustable with riptape fastening
- Built-in sweatband
- Covering washable at up to 30°C

Min./max. temperature conditions	-30 to 50 °C
EN standard	812
Min./max. size	54 cm-59 cm



Colour	Art. no.	P. Qty.
Black	0899 200 981	1
Dark blue	0899 200 980	1
Grey	0899 200 986	1

The impact caps are designed to protect the wearer from light impacts and scratches. They do not protect against the effects of falling or thrown objects or moving, hanging loads. Under no circumstances may the impact cap be used in place of an industrial hard hat in accordance with EN 397.



High-temperature protective blanket HTD 1000

To protect delicate components during welding and soldering work

- Suitable for extreme conditions
- Resistant to sparks, cinders, welding beads and incandescent materials
- Asbestos-free

Max. temperature resistance	850 °C
Max. short-term temperature resistance	1000 °C

Length	Width	Art. no.	P. Qty.
500 mm	330 mm	0984 350 1	1
1500 mm	1000 mm	0984 350	1
3000 mm	2000 mm	0984 350 0	1

High-temperature protective blanket HTD 900

To protect sensitive components during welding and soldering work

- Resistant to sparks, cinders, welding beads
- Asbestos-free
- Application temperature: 750°C, briefly: 900°C



Max. temperature resistance	750 °C
Max. short-term temperature resistance	900 °C

Length	Width	Art. no.	P. Qty.
1500 mm	1000 mm	0984 350 3	1
3000 mm	2000 mm	0984 350 10	1

Portable welding protection wall

The combination of extremely robust base frame based on square profiles (30x30 mm) and the welding protection curtain is suitable for arc welding according to EN 1598.

- Translucent orange welding protection curtain
- Risk factor < 1
- Degree of reflection: 230 to 400 nm < 10%

Dimensions:

- Wall: W x H: 200 x 190 cm
- Curtain: W x H: 205 x 180 cm



ISO	EN ISO 25980
Width x height	200 x 190 cm

Art. no. 0984 770

P. Qty.: 1

In accordance with EN 1598

According to Article 5 of VBG (Institution for Statutory Accident Insurance and Prevention in the Administrative Sector) Accident Prevention Regulation 15, work stations for arc welding must be set up in such a way that non-participants are protected against harmful effects of optical radiation to the skin and eyes.

Barricade post with pull-out belt

Post system for a mobile, primarily visual or symbolic barrier. The pull-out belt can be attached to another post, wall cassette or wall clip.

- Mobile and flexible barrier
- Safe belt return and good stability
- The barrier can be flexibly configured using wall cassette and wall clip

Height	1000 mm
Base plate shape	Round



Post diameter	Material	Colour	Base plate diameter	Product weight (per item)	Art. no.	P. Qty.
63.5 mm	Metal	Yellow, Black	350 mm	10.5 kg	0957 595 002	2
63.5 mm	Plastic	Yellow, Black	410 mm	8 kg	0957 595 001	2
100 mm	Metal	Black	350 mm	11 kg	0957 595 005	1

When combining different products from the range of barriers with belt pull-out, please ensure the same type designation.

Welding goggles CEPHEUS®

Lightweight and comfortable welding goggles

- Modern design
- Highly impact-resistant polycarbonate lens
- Special welding protection coating minimises welding spark burn-in
- UV and IR protection



Material of safety lens	Polycarbonate
UV and IR protection	Yes
EN standard	166, 169
Mechanical strength	S
Colour of safety lens	Green

Protection level	Art. no.	P. Qty.
2	0984 502 120	1
5	0984 502 150	1

Welding goggles FORNAX®plus

Maximum protection in an innovative design

- With integrated side protection, panoramic lens for large field of view, extremely scratch-resistant outer, permanently fog-free interior
- Very good colour recognition through grey lens, infrared and glare protection, 100% UV protection (up to 400 nm)
- Adapts flexibly through variable arm angle, secure hold without pressure points even during extended wear



Protection level	5
Material of safety lens	Polycarbonate
UV and IR protection	Yes
EN standard	166, 169
Mechanical strength	F (45m/s)
Colour of safety lens	Grey

Art. no. 0984 502 250

P. Qty.: 1

Welding lens

For visor and protective screen

Width	110 mm
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Height	Protection level	Design	Art. no.	P. Qty.
40 mm	0	Not metallised	0984 500 101	2
90 mm	0	Not metallised	0984 500 100	10
90 mm	0	Not metallised	0984 500 200	10
90 mm	8	Metallised	0984 500 208	10
90 mm	8	Not metallised	0984 500 108	10
90 mm	9	Not metallised	0984 500 109	10
90 mm	10	Metallised	0984 500 210	10
90 mm	10	Not metallised	0984 500 110	10
90 mm	11	Metallised	0984 500 211	10
90 mm	11	Not metallised	0984 500 111	10
90 mm	12	Not metallised	0984 500 112	10
90 mm	13	Not metallised	0984 500 113	10
90 mm	14	Not metallised	0984 500 114	10

External lens

For automatic welding helmet WSH II 3/11, WSH II 9-13, WSH II 5-13, WSH III 10-11, WSH III 9-13 and WSH III 5-13

Art. no. 0984 680 02

P. Qty.: 2



Internal lens

For WSH II 5/13 and WSH II 9/13 automatic welding helmets

Art. no. 0984 700 05

P. Qty.: 5



Sweat band

For automatic welding helmets

Art. no. 0984 700 14

P. Qty.: 5



Welding cap WSC 9-12

Lightweight, comfortable glare protection with automatic darkening

- Lightweight and extremely comfortable, optimum coverage of the face, neck and ears, wider field of view through the nose cutout in the anti-glare cassette
- Infinitely variable adjustment of protection levels between DIN 9-12, grinding mode switches off the cassette for flicker-free grinding
- For all arc welding methods: Electrode welding, MIG/MAG, flux-cored wire welding, TIG welding



Translucency when not activated	Protection level 3
Translucency when activated	Protection level 9-12
Weight	425 g
Approval mark	CE, ANSI, AS/NZS
EN standard	166, 175, 379
Energy supply	2 replaceable 3 V button cells (CR2032)
Min./max. operating temperature	-10 to 60 °C

Art. no. 0984 700 300

P. Qty.: 1

Caution: Not suitable for laser welding!

Welder's apron, split leather

- With chest flap
- Universally adjustable leather straps
- Rough surface



Material	Sheepskin
Length	100 cm
Width	80 cm
Design	Raspy surface

Art. no. 0984 312

P. Qty.: 1

Welder's apron, full leather

The ideal protection for welding shops, distilleries, foundries, galvanising shops. The smooth surface makes it resistant to flying sparks, welding beads, liquid steel and aluminium.

- With chest flap
- Universally adjustable leather straps
- Smooth surface



Material	Full leather
Length	100 cm
Width	80 cm
Design	Smooth surface

Art. no. 0984 313

P. Qty.: 1



Safety harness Profi 3

Ideal as safety harness and retaining harness

- Tested and approved for up to 125 kg
- Rear harness eye in accordance with EN 361
- Two chest loops as harness eye in accordance with EN 361
- Two side harness eyes in accordance with EN 358

EN standard	361, 358
Max. load capacity	125 kg

Design	Art. no.	P. Qty.
Standard	0899 032 915	1
XXL	0899 032 068	1

Safety harness Basic

Light safety harness

- Back harness eye in accordance with EN 361
- Two chest loops as harness eye in accordance with EN 361

Max. load capacity	100 kg
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Art. no. 0899 032 911

P. Qty.: 1



- If both chest loops on the safety harness are not used with a fastener, they must be connected using a carabiner.
- If chest loops are used as an anchor point on the safety harness, both loops must be connected to the carabiner of the coupling device.

Safety harness Elastico

Ergonomic safety harness with elastic belt material around the chest

- Maximum freedom of movement and comfort, even when working in tight conditions
- Rear harness eye in accordance with EN 361
- Two chest loops as harness eye in accordance with EN 361
- Two side harness eyes in accordance with EN 358

EN standard	358, 361
Max. load capacity	100 kg

Art. no. 0899 032 008

P. Qty.: 1



- If both chest loops on the safety harness are not used with a fastener, they must be connected using a carabiner.
- If chest loops are used as an anchor point on the safety harness, both loops must be connected to the carabiner of the coupling device.

Safety harness with high-vis waistcoat

Fall arrestor and high-vis vest in one product

- Safety harness with integrated high-vis vest for workplaces with falling hazards, especially where lighting conditions are poor and where visibility requirements are higher
- According to EN 361 and EN 20471
- Harness eyelet on back according to EN 361
- Two chest loops as harness eyelets according to EN 361
- Two zips to adjust the size
- Quick and easy to put on and take off thanks to quick-release fasteners on the leg straps

EN standard	361
Design	M/L
Max. load capacity	100 kg



Continuation **Safety harness with high-vis waistcoat**

Art. no. 0899 032 064

P. Qty.: 1

- If both chest loops on the safety harness are not used with a fastener, they must be connected using a carabiner.
- If chest loops are used as an anchor point on the safety harness, both loops must be connected to the carabiner of the coupling device.

Elastico Pro safety harness

Ergonomic safety harness allowing maximum freedom of movement

- Elasticated straps in chest area
- X-shaped back padding
- Leg padding
- Belts threaded through the back padding (no twisting)
- Quick-action buckles on the leg straps
- Rear harness eyelet in accordance with EN 361
- Two chest loops as harness eyelet in accordance with EN 361



EN standard	361
Max. load capacity	100 kg

Art. no. 0899 032 075

P. Qty.: 1

- If both chest loops on the safety harness are not used with a fastener, they must be connected using a carabiner.
- If chest loops are used as an anchor point on the safety harness, both loops must be connected to the carabiner of the coupling device.

Safety harness device, trailing W101

With integrated fall dampener

- Travels freely in the climbing direction and automatically locks in the event of a fall
- Robust, flexible 11-mm kernmantle rope
- Tested and approved up to 140 kg



EN standard	353-2
Length	15 m

Art. no. 0899 032 929

P. Qty.: 1

Fall arrestor device with belt strap

Light fall arrestor device for universal use in areas with a falling hazard

EN standard	360
Total length of connection element	2.5 m
Width x height x depth	110 x 110 x 80 mm
Weight	1.13 kg
Max. load capacity	100 kg

Art. no. 0899 032 908

P. Qty.: 1



Fall arrestor HSG-18 Compact

Lightweight fall arrestor with belt strap, in particular for use involving aerial work platforms

- Equipped with tri-lock aluminium carabiners
- Permissible user weight of 135 kg
- Integrated belt absorbs fall energy
- Lightweight, compact construction
- Double edges tested

EN standard	354, 360
Total length of connection element	1.8 m
Max. load capacity	135 kg

Art. no. 0899 032 110

P. Qty.: 1



Fall arrestor HSG-25-Y Compact

Lightweight fall arrestor in particular for use involving scaffolding construction and alternating of work positions

- Two-strand Y-design for securing one individual, alternating attachment facilitates optimal, continual safety
- Equipped with tri-lock aluminium carabiner and two aluminium tubular carabiners with an opening of 60 mm for quick and simple attachment, integrated belt fall dampener for absorbing fall energy
- Permissible user weight of 135 kg, lightweight, compact construction, double edges tested

EN standard	354, 360
Total length of connection element	2.5 m
Max. load capacity	135 kg

Art. no. 0899 032 112

P. Qty.: 1



Fall arrester HSG-25 Compact

Lightweight fall arrester with belt strap, in particular for use involving scaffolding construction

- Equipped with tri-lock aluminium carabiner and aluminium tubular carabiner with an opening of 60 mm for quick and simple attachment
- Integrated belt fall cushioner for absorbing fall energy
- Permissible user weight of 135 kg
- Lightweight, compact construction
- Double edges tested

EN standard	354, 360
Total length of connection element	2.5 m
Max. load capacity	135 kg

Art. no. 0899 032 111

P. Qty.: 1





Fall arrester device Pro with steel cable

Offers optimum freedom of movement and flexibility during work whilst providing maximum safety in the event of a fall

- Optimum safety through independent retraction of the steel rope, edge-tested
- In the event of a fall, the device locks as soon as a falling speed of 1.5 m/s is reached
- Sturdy plastic housing, swivel snap hook prevents rope from twisting; suitable for horizontal use

EN standard	360
Wire cable diameter	4.8 mm
Max. load capacity	100 kg

Wire cable length	Width x height x depth	Weight	Art. no.	P. Qty.
5 m	145 x 210 x 70 mm	2.6 kg	0899 032 120	1
10 m	180 x 275 x 80 mm	3.76 kg	0899 032 121	1
15 m	265 x 375 x 100 mm	5.47 kg	0899 032 122	1

Rope, mast anchorage

With rope grab for continuous adjustment of the holding position

EN standard	358
Length	2 m
Diameter	12 mm

Art. no. 0899 032 016

P. Qty.: 1



Connector with fall arrestor belt for scaffolding

Ideal for longitudinal façade scaffolding

- For fast, easy attachment to pipes and scaffolding up to max. Ø 59 mm via a large, aluminium pipe carabiner
- Tested on sharp edges

EN standard	354, 355
Length	2 m
Max. load capacity	100 kg

Art. no. 0899 032 052

P. Qty.: 1



Connector with energy absorber

One-handed carabiners for easy use

EN standard	354, 355
Length	2 m
Max. load capacity	100 kg

Art. no. 0899 032 012

P. Qty.: 1



Connector with energy absorber and pipe carabiner

Ideal for façade scaffolding

For fast, easy attachment to pipes and scaffolding up to max. Ø 59 mm

via a large, steel pipe carabiner

EN standard	354, 355
Length	1.5 m
Suitable for	Pipe up to max. diameter 59 mm
Max. load capacity	100 kg

Art. no. 0899 032 014

P. Qty.: 1



Y-connector

For attachment on alternating sides

For fast, easy attachment to pipes up to Ø 59 mm with large, steel pipe carabiner

EN standard	354, 355
Length	1.5 m
Suitable for	Pipe up to max. diameter 59 mm
Max. load capacity	100 kg



Art. no. 0899 032 015

P. Qty.: 1

Locking carabiner, oval

Screw retainer

Material	Steel
Surface	Zinc plated
EN standard	362
Max. width of mouth	17 mm
Length	109 mm
Width	57 mm
Load force in an open position	8 kN
Load force in a vertical position	25 kN



Art. no. 0899 032 920

P. Qty.: 1

In accordance with EN 362

ABS rope system Stainless steel cable

Stainless steel cable made of particularly robust V4A steel.

Length	1 m
EN standard	795
Material	Stainless steel
Colour	Silver grey



Wire cable diameter	Type description	Weight	Art. no.	P. Qty.
6 mm	SY-1000A	152 g	0838 904 065	1
8 mm	SY-1000	250 g	0838 904 060	1

The 6 mm version is also available in the highly visible warning colour red.

ABS Clamping element

Stainless steel end fastener (fork head) made of extremely robust V4A steel with integrated clamping device

- Clamping element made of stainless steel
- For ABS rope systems I - IV



EN standard	795
Material	Stainless steel
Colour	Silver grey

Wire cable diameter	Type description	Weight	Art. no.	P. Qty.
6 mm	SY-1007A	383.7 g	0838 904 066	1
8 mm	SY-1007	855.3 g	0838 904 061	1

ABS universal slider

ABS ProSlide: Aluminium slider for safety harness systems that can be driven over



Length	90 mm
EN standard	795
Material	Aluminium
Wire cable diameter	8 mm
Type description	SY-PROSLIDE
Colour	Black
Weight	92 g

Art. no. 0838 904 069

P. Qty.: 1

ABS special stainless steel cable preassembled

ABS stainless steel cable with pressed-on fork head in 6 and 8 mm and preassembled lengths

EN standard	795
Material	Stainless steel
Colour	Silver grey



Length	Wire cable diameter	Type description	Weight	Art. no.	P. Qty.
2.5 m	6 mm	SY-SEIL-6-2.5-GK	0.54 kg	0838 904 300	1
2.5 m	8 mm	SY-SEIL-8-2.5-GK	0.93 kg	0838 904 280	1
5 m	6 mm	SY-SEIL-6-5-GK	0.92 kg	0838 904 301	1
5 m	8 mm	SY-SEIL-8-5-GK	1.54 kg	0838 904 281	1
7.5 m	6 mm	SY-SEIL-6-7.5-GK	1.3 kg	0838 904 302	1
7.5 m	8 mm	SY-SEIL-8-7.5-GK	2.15 kg	0838 904 282	1
10 m	6 mm	SY-SEIL-6-10-GK	1.68 kg	0838 904 303	1

Length	Wire cable diameter	Type description	Weight	Art. no.	P. Qty.
10 m	8 mm	SY-SEIL-8-10-GK	2.76 kg	0838 904 283	1
12.5 m	6 mm	SY-SEIL-6-12.5-GK	2.06 kg	0838 904 304	1
12.5 m	8 mm	SY-SEIL-8-12.5-GK	3.37 kg	0838 904 284	1
15 m	6 mm	SY-SEIL-6-15-GK	2.44 kg	0838 904 305	1
15 m	8 mm	SY-SEIL-8-15-GK	3.98 kg	0838 904 285	1
17.5 m	6 mm	SY-SEIL-6-17.5-GK	2.82 kg	0838 904 306	1
17.5 m	8 mm	SY-SEIL-8-17.5-GK	4.59 kg	0838 904 286	1
20 m	6 mm	SY-SEIL-6-20-GK	3.2 kg	0838 904 307	1
20 m	8 mm	SY-SEIL-8-20-GK	5.2 kg	0838 904 287	1
25 m	6 mm	SY-SEIL-6-25-GK	3.97 kg	0838 904 308	1
25 m	8 mm	SY-SEIL-8-25-GK	6.42 kg	0838 904 288	1
30 m	6 mm	SY-SEIL-6-30-GK	4.74 kg	0838 904 309	1
30 m	8 mm	SY-SEIL-8-30-GK	7.64 kg	0838 904 289	1
35 m	6 mm	SY-SEIL-6-35-GK	5.51 kg	0838 904 310	1
35 m	8 mm	SY-SEIL-8-35-GK	8.86 kg	0838 904 290	1
40 m	6 mm	SY-SEIL-6-40-GK	6.28 kg	0838 904 311	1
40 m	8 mm	SY-SEIL-8-40-GK	10.08 kg	0838 904 291	1
45 m	6 mm	SY-SEIL-6-45-GK	7.05 kg	0838 904 312	1
45 m	8 mm	SY-SEIL-8-45-GK	11.3 kg	0838 904 292	1
50 m	6 mm	SY-SEIL-6-50-GK	7.82 kg	0838 904 313	1
50 m	8 mm	SY-SEIL-8-50-GK	12.52 kg	0838 904 293	1
55 m	6 mm	SY-SEIL-6-55-GK	8.59 kg	0838 904 314	1
55 m	8 mm	SY-SEIL-8-55-GK	13.74 kg	0838 904 294	1
60 m	6 mm	SY-SEIL-6-60-GK	9.36 kg	0838 904 315	1
60 m	8 mm	SY-SEIL-8-60-GK	14.96 kg	0838 904 295	1
65 m	6 mm	SY-SEIL-6-65-GK	10.13 kg	0838 904 316	1
65 m	8 mm	SY-SEIL-8-65-GK	16.18 kg	0838 904 296	1
70 m	6 mm	SY-SEIL-6-70-GK	10.9 kg	0838 904 317	1
70 m	8 mm	SY-SEIL-8-70-GK	17.4 kg	0838 904 297	1
75 m	6 mm	SY-SEIL-6-75-GK	11.67 kg	0838 904 318	1
75 m	8 mm	SY-SEIL-8-75-GK	18.62 kg	0838 904 298	1
80 m	6 mm	SY-SEIL-6-80-GK	12.44 kg	0838 904 319	1
80 m	8 mm	SY-SEIL-8-80-GK	19.84 kg	0838 904 299	1

Snap hook Trilock

With Trilock closure for maximum safety

Material	Aluminium/aluminium
Surface	Plain
EN standard	362, 12275
Max. width of mouth	23 mm
Length	112 mm
Width	78 mm
Load force in a horizontal position	8 kN
Load force in an open position	6 kN
Load force in a vertical position	24 kN



Art. no. 0899 032 925

P. Qty.: 1

In accordance with EN 362, EN 12275

ABS Lock I

The perfect window fall protection: an anchor point that can be removed at the push of a button

- DIN EN 795:2012, B + DIN CEN/TS 16415:2013
- Removable at the push of a button
- Crossbar protects against accidental opening
- Usable with ABS-Lock II-B for concrete and wood
- Usable with ABS-Lock II-ST for steel



EN standard	795
Surface	Stainless steel FINISH
Length	10 cm
Width	5 cm
Height	10 cm
Type description	L1-1000
Material	Stainless steel
Product weight (per item)	250 g

Art. no. 0838 904 134

P. Qty.: 1

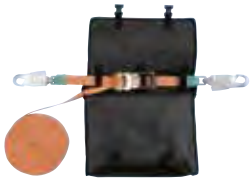
Temporary horizontal securing system

Optimum freedom of movement in horizontal positions

Belt strap with ratchet, length: 20 m

Includes:

- 2 rotary spring hooks
- 2 belt slings
- Storage and carry bag



EN standard	795-B
Material	PES - Polyester
Height	64.4 mm

Art. no. 0899 032 960

P. Qty.: 1

In accordance with EN 795 B

Suitable for a maximum of 2 persons

Single anchor point W-BAP 1

Single anchor point for fixing in concrete with DIBt National technical approval Z-14.9-692. Mounting with Würth chemical injection mortar WIT-VIZ and anchor rod W-VIZ-A/A4 M16 (h_{ef} 125) or W-VIZ-IG/A4 M16x120 (female thread)



- Signal yellow for excellent visibility
- Inexpensive alternative to other fall arrester systems
- Quick and easy anchor point installation and removal
- The load-bearing capacity of the mounting surface must be ensured

Material	Non-alloyed steel, 1.0570
Rod length	80 mm
Surface	Lacquered

Art. no. 0838 904 484

P. Qty.: 1

With general construction permit Z-14.9-692 for concrete and steel



- Observe the installation instructions and only use approved fasteners
- The single anchor point is made of unalloyed structural steel; this must be noted when using in aggressive environments
- Single anchor points must be attached to the concrete using the fasteners named in the approval documentation. The approval will otherwise be rendered null and void
- Delivery incl. fastening material (anchor rod) but without chemical injection mortar

Anchor point ABS Lock X wood 16

Single anchor point with DIBt approval for weak wooden surfaces



- Anchoring point directly onto wooden formwork and wooden structures
- GP Standard 200 x 200 mm
- Tested in accordance with EN 795
- Includes 16 ABS stainless steel special screws
- Approved for the safety harness system and as a single anchor point for 3 people

Material	Stainless steel
Surface	Stainless steel FINISH

Rod length	Art. no.	P. Qty.
150 mm	0838 904 040	1
300 mm	0838 904 041	1
400 mm	0838 904 042	1
500 mm	0838 904 043	1
600 mm	0838 904 044	1

ABS attachment point Lock X SR concrete

Attachment point for fixing with drive-in dowels in concrete surfaces

- Anchoring point
- Reinforced as end holder
- Base plate 150 x 150 mm
- Tested to EN 795
- Supplied with fastening material depending on the surface
- Design = Overhang
- Approved for safety harness system and as anti-fall protection for 3 people



Material	Stainless steel
Rod length	300 mm
Surface	Stainless steel FINISH

Art. no. 0838 904 080

P. Qty.: 1

DIBt general technical approval also granted for mounting of the ABS-Lock X-SR-B with wedge anchors. This version has a Ü-sign.

Also available in lengths of up to 1500 mm.

Anchor point ABS-Lock-On-Top MAX

For non-penetrative mounting on the roof membrane

- Anchor point for welding on bitumen with abZ
- Anchor point with damping element for an enormous force reduction
- Non-penetrative without extra load



Material	Stainless steel A2, 1.4301
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Art. no. 0838 904 059

P. Qty.: 1

Assembly kit fall arrester

Assembly kit with quality tool for mounting anchor points and rope safety systems

Set consisting of torque wrenches and many other products in a practical backpack

Art. no. 0838 904 485

P. Qty.: 1



Terminal W-MAP 1

Terminal for fast and safe securing of mobile anchor points in concrete. For use with the W-MAP 1 mobile anchor points

- Quick and easy installation and removal of the single anchor point W-MAP 1 (eyelet) thanks to a special locking system
- Visually barely noticeable due to its small size and almost flush-mount installation of the terminal in a wall or ceiling
- The internal spring plug automatically protects the W-MAP 1 terminal against contamination
- Economical and flexible, as any number of W-MAP 1 terminals can be installed in the building, but only one mobile W-MAP 1 anchor point (eyelet) is required per user



Material	Stainless steel A2, 1.4301
Rod length	120 mm
Diameter	20 mm
Surface	Stainless steel FINISH

Art. no. 0838 904 481

P. Qty.: 1

- General construction permit Z-14.9-692
- Also certified in accordance with DIN EN 795:2012 Type A (tests for deformation, static and dynamic strength and integrity) and CEN/TS 16415



- Installation with WIT-PE 500 chemical injection mortar
- The load-bearing capacity of the surface must be ensured
- Observe the installation instructions and approvals for the fasteners and single anchor point
- The W-MAP 1 terminal may only be used in conjunction with the mobile W-MAP 1 anchor point. The individual components are not compatible with similar systems
- The W-MAP 1 terminal is fixed permanently to the structure; mobile W-MAP 1 anchor points are quick and easy to move from one terminal to the next

ABS Lock III B

ABS-Lock III-B attachment point, the all-rounder for concrete

- Anchor point for concrete, for cementing into a façade or overhead
- General technical approval (abZ) from the German Institute for Construction Technology (DIBt - Deutsches Institut für Bautechnik)
- Can be used to set up various holding and catching systems
- Approved as a support in safety harness systems



Material	Stainless steel
Surface	Stainless steel FINISH
Colour	Stainless steel coloured

Continuation **ABS Lock III B**

Rod length	Art. no.	P. Qty.
100 mm	0838 904 002	1
200 mm	0838 904 003	1
300 mm	0838 904 004	1
400 mm	0838 904 005	1
500 mm	0838 904 006	1
600 mm	0838 904 007	1
800 mm	0838 904 009	1

For use in safety harness systems on a wall/façade (corner support or end bracket) with a projection \geq 100 mm, you will need a support tube.

ABS Lock X T

Securing device with general technical approval (abZ) for trapezoidal sheet roofs.

- The stainless steel anchor point with moldable plastic supports (16 mm diameter)
- general technical approval (abZ)
- has the appropriate Ü-number
- The anchor point is designed for positively and negatively laid trapezoidal sheets.
- It can be used as a single anchor point as well as a bracket for safety harness components.
- The safety solution is fastened with 4 toggle fixings, which are included.
- The anchor point has been tested for transverse loads
- for 3 people against falling from a roof



Material	Stainless steel
Diameter	16 mm
Surface	Stainless steel FINISH
Colour	Stainless steel coloured

Rod length	Art. no.	P. Qty.
150 mm	0838 904 024	1
300 mm	0838 904 025	1
400 mm	0838 904 026	1
500 mm	0838 904 027	1
600 mm	0838 904 028	1
700 mm	0838 904 229	1
800 mm	0838 904 231	1

Anchor point ABS Lock X, trapezoid With support tube

- Stainless steel anchoring point for a positively or negatively displaced trapezoidal metal sheet
- Tested in accordance with EN 795 for 3 people at once
- Can also be used as a system support (end, curve and intermediate support) for rope systems in accordance with EN 795 class C
- From a steel sheet thickness of 0.63 mm, base plate 290 x 200 mm, support Ø 16 mm
- For raised bead spacings (centre-centre) of 180 mm to 250 mm
- Includes fastening material (4 special spring toggles)



Material	Stainless steel
Surface	Stainless steel FINISH

Rod length	Art. no.	P. Qty.
150 mm	0838 904 224	1
300 mm	0838 904 090	1
400 mm	0838 904 091	1
500 mm	0838 904 092	1
600 mm	0838 904 093	1
700 mm	0838 904 094	1
800 mm	0838 904 095	1

The anchor point is DIBt-approved and conforms to DIN EN 795:2012 type A for attaching to trapezoidal sheets.

Metal roofing anchoring point Anchor point Lock V standing seam

- Single anchor point for seam roofs without roof penetration
- Suitable for copper standing seam roofs
- Tested in accordance with EN 795 for 3 people
- Brass clamp
- Lug made from V2A
- For all panel widths



Material	Stainless steel
Rod length	0 mm
Surface	Stainless steel FINISH

Colour	Art. no.	P. Qty.
Anthracite grey RAL 7016	0838 904 410	1
Brown grey RAL 7013	0838 904 411	1
Stainless steel coloured	0838 904 113	1
Stainless steel coloured	0838 904 115	1

ST = for aluminium, titanium zinc and steel

CU = for copper standing seam



ABS Lock III BE

Flat roof fall arrester with general technical approval (abZ - allgemeine bauaufsichtliche Zulassung)

- Anchor point for hammering into concrete
- General technical approval (abZ) from the German Institute for Construction Technology (DIBt - Deutsches Institut für Bautechnik)
- Incl. Stainless steel anchor ring
- Installed in around 2 minutes
- Approved as a support element in safety harness systems

Material	Stainless steel
Rod length	300 mm
Surface	Stainless steel FINISH
Colour	Stainless steel coloured

Art. no. 0838 904 010

P. Qty.: 1

ABS Lock III ST

Attachment point with or without projection

- 16-mm thick stainless steel support
- The securing device can be loaded in any direction
- Secures up to 3 people
- Suitable as an intermediate holder
- Functions as a curve or corner support with fitted support tube
- Incl. fastening material



Material	Stainless steel
Surface	Stainless steel FINISH
Colour	Stainless steel coloured

Rod length	Art. no.	P. Qty.
0 mm	0838 904 170	1
50 mm	0838 904 182	1
100 mm	0838 904 171	1
150 mm	0838 904 172	1
200 mm	0838 904 174	1
300 mm	0838 904 176	1
400 mm	0838 904 178	1
500 mm	0838 904 180	1
600 mm	0838 904 183	1

With or without projection. Incl. fastening material. With support tube as end and corner post in rope systems.

Scaffolding set Basic

Complete set for scaffolding work

- Safety harness with back eyelet extension tested on sharp edges (length 50 cm)
- Fastener with belt fall arrester belt tested on sharp edges (length 2 m) and pipe carabiner for fast, easy attachment to pipes and scaffolding



Number of pieces in assortment/set	3 PCS
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Art. no. 0899 032 050

P. Qty.: 1

Contents for art. no. 0899 032 050		
Designation	Art. no.	Quantity
Connector with fall arrester belt for scaffolding	0899 032 052	1
Basic safety harness for scaffolding	0899 032 053	1
Rucksack	0899 032 943	1

Professional scaffolding set Elastico

Complete set for scaffolding work with the especially comfortable Elastico safety harness

- Safety harness with back eyelet extension tested on sharp edges (length 50 cm)
- Fastener with belt fall arrester belt tested on sharp edges (length 2 m) and pipe carabiner for fast, easy attachment to pipes and scaffolding



Number of pieces in assortment/set	3 PCS
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Art. no. 0899 032 051

P. Qty.: 1

Contents for art. no. 0899 032 051

Designation	Art. no.	Quantity
Connector with fall arrester belt for scaffolding	0899 032 052	1
Elastico safety harness for scaffolding	0899 032 054	1
Rucksack	0899 032 943	1

ABS Roofer set

Always have the complete set of personal protective equipment against falling at hand, with the ABS Roofer Kit

- With safety harness with back eyelet and fastener with rope shortening device
- Lengths: 5, 10, 15, 20 metres
- Ideal for use on the roof



Number of pieces in assortment/set	3 PCS
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	Art. no.	P. Qty.
	0838 905 055	1
	0838 905 056	1
	0838 905 057	1
	0838 905 058	1



Fall arrester set Aerial work platform

Complete set for working with aerial work platform in practical backpack.

Number of pieces in assortment/set	3 PCS
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Art. no. 0899 032 113

P. Qty.: 1

Contents for art. no. 0899 032 113		
Designation	Art. no.	Quantity
Elastico Pro safety harness	0899 032 075	1
Fall arrester HSG-18 Compact 1,8 m	0899 032 110	1
Rucksack	0899 032 943	1

Fall arrester set of scaffolding

Complete set for scaffolding in a practical backpack

Number of pieces in assortment/set	3 PCS
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Art. no. 0899 032 114

P. Qty.: 1



Continuation **Fall arrester set of scaffolding**

Contents for art. no. 0899 032 114		
Designation	Art. no.	Quantity
Elastico Pro safety harness	0899 032 075	1
Fall arrester HSG-25 Compact 2.5 m	0899 032 111	1
Rucksack	0899 032 943	1



Fall arrestor set W1000, 3 pieces

Complete set comprising safety harness, synchronous-running fall arrestor with 15 m rope and storage case

- Tested and approved up to 140 kg

Number of pieces in assortment/set	3 PCS
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Art. no. 0899 032 976

P. Qty.: 1

Fall arrestor set W1001, 3 pieces

Complete set comprising safety harness, synchronous-running fall arrestor with 15 m rope and backpack

- Tested and approved up to 140 kg

Number of pieces in assortment/set	3 PCS
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Art. no. 0899 032 977

P. Qty.: 1



Continuation **Fall arrestor set W1001, 3 pieces**

- If both chest loops on the safety harness are not used with a fastener, they must be connected using a carabiner.
- If chest loops are used as an anchor point on the safety harness, both loops must be connected to the carabiner of the coupling device.
- When using a fall protection belt and coupling device, the user weight of the coupling device is decisive.

ABS Sealing cuff BITU

ABS-LockSeal BITU - sealing cuffs for attachment points

- Sanded for bitumen roofs
- For Ø 16mm and Ø 42mm supports
- Incl. heat-shrink tubing
- Root resistant
- Plate diameter Ø 42cm



Product weight (per item)	378 g
Material	Bitumen
Diameter	42 cm

Type description	Art. no.	P. Qty.
ZU-BITU-42	0838 905 032	1
ZU-BITU-16	0838 905 031	1

ABS Sealing cuff PE/PP/PVC

Sealing cuff for attachment points ABS-LockSeal PE/PP/ PVC

- 0838 905 033 + 34 – sealing cuff for PVC (Sikaplan, Bauder, FDT, Wolfen, Alwitra, Flag, Alkorplan F).
- 0838 905 035 + 36 – sealing cuff for PP (Bauder, FDT, Vedag, Wolfen, Flag, Sucoflex).
- 0838 905 037 + 38 – sealing cuff for PE (Polyfin, Nebiprofa, Schedetal).



Diameter	22 cm
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Product weight (per item)	Material	Type description	Art. no.	P. Qty.
98 g	PP - Polypropylene	ZU-PP-42	0838 905 036	1
98 g	PP - Polypropylene	ZU-PP-16	0838 905 035	1
100 g	PE - Polyethylene	ZU-PE-42	0838 905 038	1
100 g	PE - Polyethylene	ZU-PE-16	0838 905 037	1
140 g	PVC - Polyvinyl chloride	ZU-PVC-42	0838 905 034	1
140 g	PVC - Polyvinyl chloride	ZU-PVC-16	0838 905 033	1

ABS sealing cuffs Bitu S

Sealing cuff for bitumen roofs, with PVC reduction

Product weight (per item)	1160 g
Material	Bitumen



Type description	Art. no.	P. Qty.
ZU-BITU-S-42	0838 905 029	1
ZU-BITU-S-16	0838 905 028	1

Safety traverse Aluminium

Flexible anchor point in an attractive design for use between load-bearing door openings

- Permitted as an anchor point for max. 2 people
- Made from high quality material
- Low weight for very good handling



reddot design award
winner 2018

Material	Aluminium
Weight	7.5 kg
Width	12 cm
Height	14.5 cm
Length	139.3 cm

Art. no. 0899 032 980

P. Qty.: 1

Mobile stop clamp

Mobile, adjustable anchor point for steel beams with a flange width from 90 to 380 mm.

- Permitted as an attachment point for 1 person
- Two locking pins to fix the setting



Material	Aluminium
Height	109 mm
Length	490 mm

Art. no. 0899 032 985

P. Qty.: 1



TYVEK® protective suit Classic Xpert

Ideal combination of protection, durability and comfort. Innovative, ergonomic design for optimum freedom of movement.

- High degree of resistance to wear and tear
- Anti-static on both sides
- Silicon-free
- Breathable: Impermeable to air and water
- Hood surrounds the face perfectly
- Optimally designed around the wearing of respiratory masks
- Sleeves sit perfectly, including for overhead work
- Outstanding protection against solid, airborne particles and to a limited extent against liquids

Colour	White
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Size	Art. no.	P. Qty.
M	0899 020 122	5
L	0899 020 123	5
XL	0899 020 124	5
XXL	0899 020 125	5

Please consider the legal instruction at the beginning of this chapter.

Disposable protective suit W14

To protect against light contamination

- Disposable protective suit, category 1
- Elasticated band around the hood, sleeves, ankles and back area
- Easy protection for workplaces free of harmful substances

Colour	Blue
Material	Polypropylene material

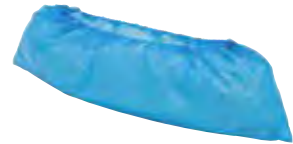


Size	Art. no.	P. Qty.
M	0899 021 242	1/25
L	0899 021 243	1/25
XL	0899 021 244	1/25
XXL	0899 021 245	1/25
3XL	0899 021 246	1/25

Overshoe

Hygiene and dirt protection overshoe for protection against fluids and dirt

Colour	Blue
Size	Universal
Material	PE - Polyethylene



Art. no. 0899 028 1

P. Qty.: 100

VE 100 = 100 units

Overshoe with outer sole

Overshoe made from air-permeable polypropylene fleece with non-slip and waterproof outsole

- Reusable thanks to stable and tear-resistant material

Colour	Blue, White
Size	Universal
Material	Polypropylene/polyethylene



Art. no. 0899 028 6

P. Qty.: 50

Packing unit 50 = 50 units

High-vis vest

With Velcro fastening

- Two 5-cm wide all-round reflective strips
- Individually packed in polythene bags



ISO	20471:2013
Material	100% polyester

Colour	Size	EN standard	Art. no.	P. Qty.
Orange	XL		0899 078	1
Yellow	45 x 50 cm (child)	1150	0824 403 110	1
Yellow	XL		0824 403 050	50
Yellow	XL		0824 403 100	100
Yellow	XL		0899 078 002	1

To be carried in all cars, trucks, tractors, tractor trailers and buses

Reusable painting suit

Hood and drawstring

- Silicone-free
- 100% polyester
- Antistatic and lint-free
- Breathable
- Elasticated sleeves, ankles and waist
- Two-way zip with cover
- Washable up to 40°C or dry clean



Material	PES - Polyester
Colour	Blue
Silicone-free	Yes

Size	Art. no.	P. Qty.
L	0899 025 011	1
M	0899 025 010	1
S	0899 025 009	1
XL	0899 025 012	1
XXL	0899 025 013	1

CAT I in accordance with PPE regulation

Storage box

For optimal storage of personal protective equipment

- Sign indicating mandatory use included
- Always at hand and neatly stored away
- Suitable for safety goggles, breathing protection (half face masks), ear defenders

Width	225 mm
Height	180 mm

Art. no. 0899 102 360

P. Qty.: 1





Mechanic's protective mat

Protective mat made from non-absorbent foam, to protect against dirt and prevent health hazards.

- Easy-to-clean, closed-cell surface
- Ergonomic carry handle
- Resistant to oil, petrol and brake-cleaning agents

Colour	Black, Red
Material	Foam material

Length x width x thickness	Art. no.	P. Qty.
480 x 320 x 36 mm	0899 500 210	1
1150 x 550 x 36 mm	0899 500 220	1

Knee pads PROFI

For universal use for all kneeling tasks

- Abrasion-resistant PU surface, extremely non-slip
- Very comfortable
- No one-sided strain or cutting into the back of the knee

Material	Polyurethane
Material of the fastening strip	Chloropren
Colour	Black
EN standard	14404
Number of pieces	1 Pair



Art. no. 0899 030 10

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Knee pads UNI

For working on very hard and rough surfaces

- Certified in accordance with DIN EN 14404
- Highly abrasion-resistant surface with 600 g/m² Kevlar®, can slip in some conditions
- Very comfortable
- No one-sided strain or cutting the hollows of the knees
- Maximum damping despite low material thickness thanks to a 12-mm-thick sandwich design
- High-quality material (Durable LYCRA® coating)

Material	Kevlar®
Material of the fastening strip	Chloropren
Colour	Black
EN standard	14404
Number of pieces	1 Pair



Art. no. 0899 030 20

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Warning marking adhesive tape

Quick and easy to apply and virtually no residue when removed

- Meets the requirements of DIN 4844 or DIN EN ISO 7010
- Good adhesion properties, high tensile strength and good abrasion resistance
- Tape can be driven over by industrial trucks, passenger cars, commercial vehicles, etc. Revolving and turning on the tape should be avoided.

According to ASR A1.3

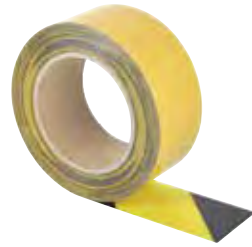
Length	33 m
Thickness	0.16 mm
Suitable for use in the following materials	Concrete screed, Smooth surfaces
Area of application	Indoors
Min./max. temperature conditions	0 to 60 °C
Min./max. processing temperature	5 to 40 °C
Elongation at break	150 %
Material	PVC - Polyvinyl chloride
Adhesive base	Natural rubber

Width	Colour	Art. no.	P. Qty.
50 mm	Red-white	0812 44 662	1
50 mm	Yellow-black	0812 44 660	1
75 mm	Red-white	0812 44 663	1
75 mm	Yellow-black	0812 44 661	1

Warning marking adhesive tape Heavy Duty

Adhesive tape with thick material layer for simple, universal bonding.

- Meets the requirements of DIN 4844 or DIN EN ISO 7010
- Good adhesion properties, high tensile strength and good abrasion resistance
- Tape can be driven over by industrial trucks, passenger cars, commercial vehicles, etc. Revolving and turning on the tape should be avoided.



Length	10 m
Thickness	0.5 mm
Suitable for use in the following materials	Concrete screed, Smooth surfaces
Area of application	Indoors
Min./max. temperature conditions	-20 to 55 °C
Min./max. processing temperature	15 to 25 °C
Material	PVC - Polyvinyl chloride
Adhesive base	Acrylate

Width	Colour	Art. no.	P. Qty.
50 mm	Red-white	0812 44 666	1
50 mm	Yellow-black	0812 44 664	1
75 mm	Red-white	0812 44 667	1
75 mm	Yellow-black	0812 44 665	1

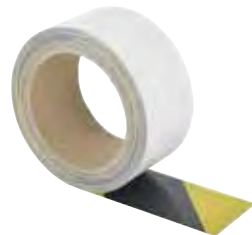
According to ASR A1.3

- Yellow-black tape for permanent hazard points and obstacles
- Red and white tape for temporarily restricted or movable hazard points and obstacles
- The adhesion surface must be dry and free from grease and dust

Warning adhesive tape for food areas and hygiene zones

Lower dirt adhesion due to low material thickness

- Meets the requirements of DIN 4844 or DIN EN ISO 7010
- High tensile strength and can be driven over immediately
- Tape can be driven over by industrial trucks, passenger cars, commercial vehicles, etc. Revolving and turning on the tape should be avoided.



Length	15 m
Thickness	0.2 mm
Suitable for use in the following materials	Concrete screed, Smooth surfaces
Area of application	Indoors
Min./max. temperature conditions	-40 to 150 °C
Min./max. processing temperature	10 to 25 °C
Material	PES - Polyester
Adhesive base	Acrylate

Continuation **Warning adhesive tape for food areas and hygiene zones**

Width	Colour	Art. no.	P. Qty.
50 mm	Red-white	0812 44 670	1
50 mm	Yellow-black	0812 44 668	1
75 mm	Red-white	0812 44 671	1
75 mm	Yellow-black	0812 44 669	1

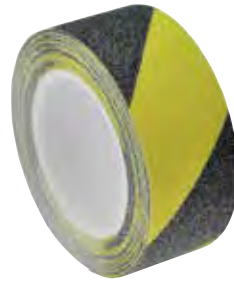
According to ASR A1.3

- Yellow-black tape for permanent hazard points and obstacles
- Red and white tape for temporarily restricted or movable hazard points and obstacles
- The adhesion surface must be dry and free from grease and dust.

Warning adhesive tape, non-slip, standard

Slip resistance R13 according to DIN 51130

- Meets the requirements of DIN 4844 or DIN EN ISO 7010
- Prevents slipping and falling accidents
- Tape can be driven over by industrial trucks, passenger cars, commercial vehicles, etc. Revolving and turning on the tape should be avoided.



Length	6 m
Thickness	1 mm
Colour	Yellow-black
Suitable for use in the following materials	Concrete screed, Asphalt, Smooth surfaces
Area of application	Outdoors, Indoors
Material	PVC - Polyvinyl chloride
Adhesive base	Acrylate

Width	Art. no.	P. Qty.
50 mm	0812 44 672	1
75 mm	0812 44 673	1

In accordance with ASR A1.5/1.2 and ASR A1.3

- Yellow-black tape for permanent hazard points and obstacles
- The butyl primer should be used outdoors. This significantly increases the adhesive strength of an adhesive tape on all surfaces.
- The adhesion surface must be dry and free from grease and dust.

Warning adhesive tape, non-slip, luminous

Good visibility in the dark and R13 slip-resistance according to DIN 51130.

- Meets the requirements of DIN 4844 or DIN EN ISO 7010
- Prevents slipping and falling accidents
- Tape can be driven over by industrial trucks, passenger cars, commercial vehicles, etc. Revolving and turning on the tape should be avoided.



Length	6 m
Thickness	1 mm
Colour	Yellow-black
Suitable for use in the following materials	Concrete screed, Asphalt, Smooth surfaces
Area of application	Outdoors, Indoors
Material	PVC - Polyvinyl chloride
Adhesive base	Acrylate

Width	Art. no.	P. Qty.
25 mm	0812 44 675	1
50 mm	0812 44 674	1

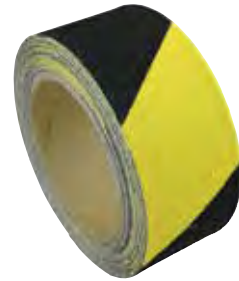
In accordance with ASR A1.5/1.2 and ASR A1.3

- Yellow-black tape for permanent hazard points and obstacles
- For outdoor use, apply butyl primer first. This significantly increases the adhesion strength of adhesive tape on all surfaces.
- The adhesion surface must be dry and free from grease and dust.

Warning adhesive tape, non-slip, aluminium-laminated

Mouldable tape with R13 slip-resistance according to DIN 51130.

- Meets the requirements of DIN 4844 or DIN EN ISO 7010
- Prevents slipping and falling accidents
- Aluminium-laminated for good formability
- Tape can be driven over by industrial trucks, passenger cars, commercial vehicles, etc. Revolving and turning on the tape should be avoided.



Length	6 m
Thickness	1 mm
Colour	Yellow-black
Suitable for use in the following materials	Concrete screed, Asphalt, Smooth surfaces
Area of application	Outdoors, Indoors
Material	Aluminium
Adhesive base	Acrylate

Width	Art. no.	P. Qty.
25 mm	0812 44 677	1
50 mm	0812 44 676	1

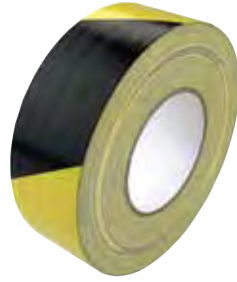
In accordance with ASR A1.5/1.2 and ASR A1.3

- Yellow-black tape for permanent hazard points and obstacles
- For outdoor use, apply butyl primer first. This significantly increases the adhesion strength of adhesive tape on all surfaces.
- The adhesion surface must be dry and free from grease and dust.

Fabric hazard marking tape

Fast, easy and flexible bonding and marking

- Dense, firm and tightly woven fabric
- Meets the requirements of DIN 4844 or DIN EN ISO 7010
- Good abrasion resistance



Length	50 m
Thickness	0.29 mm
Colour	Yellow-black
Suitable for use in the following materials	Concrete screed, Smooth surfaces
Area of application	Indoors
Material	Fabric - plastic coated
Adhesive base	Natural rubber

Width	Design	Art. no.	P. Qty.
50 mm	Left-pointing	0812 44 678	1
50 mm	Right-pointing	0812 44 680	1
75 mm	Left-pointing	0812 44 679	1
75 mm	Right-pointing	0812 44 681	1

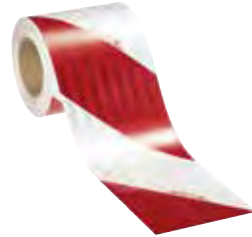
According to ASR A1.3

- Yellow-black tape for permanent hazard points and obstacles
- Guidance past hazard points by directing to the left/right
- The adhesion surface must be dry and free from grease and dust.

Warning marking adhesive tape (3840) 3M Scotchlite

Reflective class type 2

- Flexible and removable
- Improved visibility for vehicles during the day and night
- Self-adhesive for ease of use
- Particularly suitable for adhering to vehicles with three-dimensional surfaces
- Edge sealed against dirt and moisture



Length	45.7 m
Width	141 mm
Colour	Red-white

Design	Art. no.	P. Qty.
Left-pointing	5M38 401 411	1
Right-pointing	5M38 401 412	1

Warning adhesive tape (13057) 3M Scotchlite

Black/yellow partially reflective: Highlights moving obstacles such as barriers, cranes, gates or forklift trucks.

- The reflective tape is self-adhesive and meets the requirements of DIN 4844.
- Indicates left and right every 25 m



Length	25 m
Width	50 mm
Colour	Yellow-black

Art. no. 5M13 058 50

P. Qty.: 1

Floor marking adhesive tape

Quick and easy to apply and virtually no residue when removed

- Meets the requirements of DIN 4844 or DIN EN ISO 7010
- Good floor adhesion, high tensile strength and good abrasion resistance
- Tape can be driven over by industrial trucks, passenger cars, commercial vehicles, etc. Revolving and turning on the tape should be avoided.



Length	33 m
Thickness	0.16 mm
Suitable for use in the following materials	Concrete screed, Smooth surfaces
Area of application	Indoors
Min./max. temperature conditions	0 to 60 °C
Min./max. processing temperature	5 to 40 °C
Elongation at break	150 %
Material	PVC - Polyvinyl chloride
Adhesive base	Natural rubber

Width	Colour	Art. no.	P. Qty.
50 mm	Blue	0812 449 652	1
50 mm	Green	0812 449 656	1
50 mm	Red	0812 449 654	1
50 mm	Yellow	0812 449 650	1
75 mm	Blue	0812 449 653	1
75 mm	Green	0812 449 657	1
75 mm	Red	0812 449 655	1
75 mm	Yellow	0812 449 651	1

According to ASR A1.3

The adhesion surface must be dry and free from grease and dust.

Floor marking adhesive tape Heavy Duty

Adhesive tape with thick material layer for simple, universal bonding

- Meets the requirements of DIN 4844 or DIN EN ISO 7010
- High durability, high tensile strength and good abrasion resistance
- Tape can be driven over by industrial trucks, passenger cars, commercial vehicles etc. Revolving and turning on the tape should be avoided



Length	10 m
Thickness	0.5 mm
Suitable for use in the following materials	Concrete screed, Smooth surfaces
Area of application	Indoors
Min./max. temperature conditions	-20 to 55 °C
Min./max. processing temperature	15 to 25 °C
Material	PVC - Polyvinyl chloride
Adhesive base	Acrylate

Width	Colour	Art. no.	P. Qty.
50 mm	Blue	0812 449 660	1
50 mm	Green	0812 449 664	1
50 mm	Red	0812 449 662	1
50 mm	Yellow	0812 449 658	1
75 mm	Blue	0812 449 661	1
75 mm	Green	0812 449 665	1
75 mm	Red	0812 449 663	1
75 mm	Yellow	0812 449 659	1

According to ASR A1.3

The adhesion surface must be dry and free from grease and dust

Floor marking adhesive tape for food areas and hygiene zones

Lower dirt adhesion due to low material thickness

- Meets the requirements of DIN 4844 or DIN EN ISO 7010
- High tensile strength and can be driven over immediately
- Tape can be driven over by industrial trucks, passenger cars, commercial vehicles, etc. Revolving and turning on the tape should be avoided.



Length	15 m
Thickness	0.2 mm
Suitable for use in the following materials	Concrete screed, Smooth surfaces
Area of application	Indoors
Min./max. temperature conditions	-40 to 150 °C
Min./max. processing temperature	10 to 25 °C
Material	PES - Polyester
Adhesive base	Acrylate

Width	Colour	Art. no.	P. Qty.
50 mm	Blue	0812 449 668	1
50 mm	Green	0812 449 672	1
50 mm	Red	0812 449 670	1
50 mm	Yellow	0812 449 666	1
75 mm	Blue	0812 449 669	1
75 mm	Red	0812 449 671	1
75 mm	Yellow	0812 449 667	1

According to ASR A1.3

The adhesion surface must be dry and free from grease and dust.

Floor marking tape, anti-slip Heavy Duty

Retro-reflective tape (cat's eye effect) with R11 slip-resistance according to DIN 51130.

- Meets the requirements of DIN 4844 or DIN EN ISO 7010
- Extremely wear-resistant
- Tape can be driven over by industrial trucks, passenger cars, commercial vehicles, etc. Revolving and turning on the tape should be avoided.



Length	12.5 m
Thickness	1.6 mm
Suitable for use in the following materials	Concrete screed, Asphalt, Smooth surfaces
Area of application	Outdoors, Indoors
Min./max. temperature conditions	-20 to 80 °C
Min./max. processing temperature	15 to 25 °C
Material	PU fabric reinforced
Adhesive base	Natural rubber

Width	Colour	Art. no.	P. Qty.
50 mm	Black	0812 449 680	1
50 mm	Blue	0812 449 678	1
50 mm	Green	0812 449 684	1
50 mm	Red	0812 449 682	1
50 mm	White	0812 449 676	1
50 mm	Yellow	0812 449 674	1
75 mm	Black	0812 449 681	1
75 mm	Blue	0812 449 679	1
75 mm	Green	0812 449 685	1
75 mm	Red	0812 449 683	1
75 mm	White	0812 449 677	1
75 mm	Yellow	0812 449 675	1

In accordance with ASR A1.5/1.2 and ASR A1.3

- For outdoor use, apply butyl primer first. This significantly increases the adhesion strength of adhesive tape on all surfaces.
- The adhesion surface must be dry and free from grease and dust.

PVC Plus anti-fatigue mat by the metre

2-layer floor mat for medium to heavy-duty applications at dry workstations.

- Mat made from closed-cell PVC foam with asphalt surface
- Slip resistance R10 in accordance with EN13552
- Hardened surface



Design	Customized cutting
Colour	Black
Material	PVC - Polyvinyl chloride

Length x width x thickness	Art. no.	P. Qty.
100 x 600 x 12.5 mm	0957 590 125	10
100 x 900 x 12.5 mm	0957 590 126	10
100 x 1200 x 12.5 mm	0957 590 127	10

Floor mats are cut to customer specifications. It is not possible to exchange the products.

Mat can be ordered in individual lengths, PU 10 = 10 cm, maximum length: 18 metres / VE 1800

PVC Premium anti-fatigue mat

2-layer floor mat for heavy-duty applications at dry workstations.

- The mat is made up of a foamed PVC underside and a vinyl upper section with checker plate surface
- Vinyl top is self-extinguishing, very rugged and durable



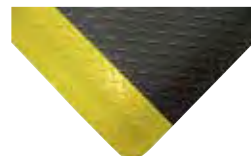
Design	Cutting
Material	PVC - Polyvinyl chloride

Length x width x thickness	Colour	Art. no.	P. Qty.
900 x 600 x 14 mm	Black	0957 590 130	1
900 x 600 x 14 mm	Black, Yellow	0957 590 135	1
1500 x 900 x 14 mm	Black	0957 590 131	1
1500 x 900 x 14 mm	Black, Yellow	0957 590 136	1

PVC Premium anti-fatigue mat by the metre

2-layer floor mat for heavy-duty applications at dry workstations.

- The mat is made up of a foamed PVC underside and a vinyl upper section with checker plate surface
- The vinyl upper section is self-extinguishing, extremely robust and durable



Design	Customized cutting
Material	PVC - Polyvinyl chloride

Length x width x thickness	Colour	Art. no.	P. Qty.
100 x 600 x 14 mm	Black	0957 590 140	10
100 x 600 x 14 mm	Black, Yellow	0957 590 145	10
100 x 900 x 14 mm	Black	0957 590 141	10
100 x 900 x 14 mm	Black, Yellow	0957 590 146	10
100 x 1200 x 14 mm	Black	0957 590 142	10
100 x 1200 x 14 mm	Black, Yellow	0957 590 147	10

Floor mats are cut to customer specifications. It is not possible to exchange the products.

Mat can be ordered in individual lengths, PU 10 = 10 cm, maximum length: 18 metres / VE 1800

Anti-fatigue mat with textured surface

Floor mat made from natural rubber for heavy-duty applications at static standing workstations

- The textured surface also encourages users to move more
- The air chambers on the bottom provide additional cushioning



Design	Cutting
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Length x width x thickness	Colour	Material	Art. no.	P. Qty.
900 x 600 x 14 mm	Black	Rubber	0957 590 160	1
1200 x 900 x 14 mm	Black	Rubber	0957 590 161	1
900 x 600 x 14 mm	Black, Yellow	Rubber	0957 590 165	1
1200 x 900 x 14 mm	Black, Yellow	Rubber	0957 590 166	1
900 x 600 x 14 mm	Black	Nitrile rubber	0957 590 170	1
1200 x 900 x 14 mm	Black	Nitrile rubber	0957 590 171	1

Chemical resistance should be checked on a case-by-case basis.

Premium anti-fatigue mat with textured surface

PU floor mat for heavy-duty applications at static standing workstations.

- Foamed PU mat with textured surface to encourage increased movement
- Fire protection class B1 in accordance with DIN54332/ DIN4102



Design	Cutting
Colour	Black
Material	Polyurethane

Length x width x thickness	Art. no.	P. Qty.
900 x 600 x 15 mm	0957 590 195	1
1200 x 900 x 15 mm	0957 590 196	1

Premium anti-fatigue mat, closed design

NBR rubber floor mat for heavy-duty applications at dry and wet workstations.

The modular tile system consists of middle and edge sections. Modules are toothed on the edges and can simply be slotted together.

The tiles and edge modules can be cut to size on the basis of a 30-cm grid.



Design	Tile
Length x width x thickness	900 x 900 x 16 mm
Colour	Black
Material	Rubber

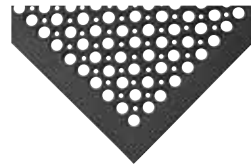
Art. no. 0957 590 200

P. Qty.: 1

Anti-fatigue mat, perforated design

SBR rubber floor mat with perforated design for heavy-duty applications at dry and wet workstations.

- The perforated structure makes it possible for liquids to drain away or for chips to be collected
- Fire protection class B1 according to DIN 54332/DIN 4102



Design	Cutting
Colour	Black
Material	Rubber

Length x width x thickness	Art. no.	P. Qty.
1200 x 800 x 10 mm	0957 590 215	1
1500 x 900 x 10 mm	0957 590 216	1

Chemical resistance must be tested on a case-by-case basis.

Insulating mat

Insulating mat for work on live parts in accordance with EN 61111.

- EPDM rubber mat for work on live parts
- Anti-slip surface thanks to fine ribbing
- Resistant to oil and chemicals
- Colour coded on the reverse



Design	Customized cutting
EN standard	BS EN 61111:2009
Colour	Black
Material	Rubber

Class	Length x width x thickness	Art. no.	P. Qty.
0 - Operating voltage < 1000 volts	100 x 1000 x 3 mm	0957 590 230	10
2 - Operating voltage < 17000 volts	100 x 1000 x 4 mm	0957 590 231	10
4 - Operating voltage < 36000 volts	100 x 1000 x 5 mm	0957 590 232	10

Floor mats are cut to customer specifications. It is not possible to exchange the products.

Mat can be ordered in individual lengths, PU 10 = 10 cm, maximum length: 10 metres / VE 1000

Chemical resistance should be tested on a case-by-case basis.

Dirt trapping mat

Wear-resistant dirt trapping mat for the reliable capture of dirt and moisture.

- Durable and high-performance
- Easy to clean

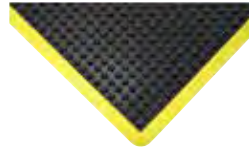


Colour	Black, Grey
Material	100% polyamide

Length x width x thickness	Art. no.	P. Qty.
9 x 600 x 900 mm	0957 590 241	1
9 x 900 x 1500 mm	0957 590 242	1

Anti-fatigue mat with textured surface, extendible

Floor mat made from natural rubber for heavy-duty applications at static standing workstations.



- The anti-fatigue mats help to improve ergonomics at standing workstations. The properties of the mat help to protect the back and joints.
- Mats can be extended lengthwise. Sections are toothed on the edges and can simply be slotted together.
- Mat made from natural rubber with textured surface

Design	Length x width x thickness	Colour	Material	Art. no.	P. Qty.
Centrepiece	900 x 600 x 14 mm	Black	Rubber	0957 590 185	1
Corner piece	900 x 600 x 14 mm	Black	Rubber	0957 590 186	1
Centrepiece	900 x 600 x 14 mm	Black	Nitrile rubber	0957 590 190	1
Corner piece	900 x 600 x 14 mm	Black	Nitrile rubber	0957 590 191	1
Centrepiece	900 x 600 x 14 mm	Black, Yellow	Rubber	0957 590 245	1
Corner piece	900 x 600 x 14 mm	Black, Yellow	Rubber	0957 590 246	1
Centrepiece	1200 x 900 x 14 mm	Black, Yellow	Rubber	0957 590 250	1
Corner piece	1200 x 900 x 14 mm	Black, Yellow	Rubber	0957 590 251	1

Chemical resistance should be checked on a case-by-case basis.

Sneeze guard roller blind

Transparent barrier against droplet infections

- Thin, crystal-clear material
- Dirt- and scratch-resistant.
- Pre-mounted on mounting rail
- Side pulley (can be mounted either on the right or on the left)



Width x depth x height	Art. no.	P. Qty.
1200 x 70 x 1800 mm	0997 865 646	1
1500 x 70 x 1800 mm	0997 865 647	1

Sneeze guard screen

Transmission protection with connectable base plates

- Screen can be set up free-standing on tables and counters
- Multiple modules can be placed next to each other
- Simple and fast installation simply by plugging together



Width x depth x height	1000 x 5 x 650 mm
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		Art. no.	P. Qty.
		0997 865 459	1
		0997 865 460	1
		0997 865 471	1



Ratchet strap with standard ratchet

GS-certified security, double J-hook

- Pressure ratchet
- No premature discard or wear due to inner label

In accordance with EN 12195-2
GS-certified

Width (B)	50 mm
Material	PES - Polyester
Shape of the hook	Double pointed hook
Standards	EN 12195-2

Design	Length (L)	Max. elongation lashing strap	Permitted tensile force LC in the strapping	Permissible LC tensile force when pulled directly	Art. no.	P. Qty.
	8 m		4000 daN		0713 91 091	1
	8 m	5 %	4000 daN	2000 daN	0713 91 191	1
Two-piece	10 m	5 %	4000 daN	2000 daN	0713 91 19	1
Two-piece	8 m	5 %	5000 daN	2500 daN	0713 91 205	1
Two-piece	10 m	5 %	5000 daN	2500 daN	0713 91 210	1
Two-piece	12 m	5 %	5000 daN	2500 daN	0713 91 215	1
Two-piece	8 m	5 %	5000 daN	2500 daN	5713 91 205	8
Two-piece	10 m	5 %	5000 daN	2500 daN	5713 91 210	8

Continuation **Ratchet strap with standard ratchet**

Design	Length (L)	Max. elongation lashing strap	Permitted tensile force LC in the strapping	Permissible LC tensile force when pulled directly	Art. no.	P. Qty.
Two-piece	12 m	5 %	5000 daN	2500 daN	5713 91 215	8
Two-piece	8 m	7 %	4000 daN	2000 daN	0713 92 254	1
Two-piece	8 m	5 %	5000 daN	2500 daN	0713 92 255	1

Ratchet lashing belt for inner lashing

GS-approved safety, end fitting suitable for combination anchor rail

Pressure ratchet



Design	Two-piece
Width (B)	45 mm
Length (L)	3.5 m
Max. elongation lashing strap	5 %
Permitted tensile force LC in the strapping	2000 daN
Permissible LC tensile force when pulled directly	1000 daN
Pre-load	260 daN
Product certification	GS certified safety
Material	PES - Polyester
Shape of the hook	Anchor rail fitting
Colour	Red
Standards	EN 12195-2

Art. no. 0713 92 30

P. Qty.: 1

In accordance with EN 12195-2
GS-approved



Lashing belts with coloured belt strap are not 100% colour-fast. Use in constant rain may result in slight staining.

Ratchet lashing belt with heavy-duty ratchet

GS-certified security, double J-hook

Tensioning ratchet



Design	Two-piece
Width (B)	75 mm
Max. elongation lashing strap	5 %
Permitted tensile force LC in the strapping	10000 daN

Permissible LC tensile force when pulled directly	5000 daN
Pre-load	500 daN
Product certification	GS certified safety
Material	PES - Polyester
Shape of the hook	Double pointed hook
Colour	Red
Standards	EN 12195-2

Length (L)	Art. no.	P. Qty.
4 m	0713 92 114	1
10 m	0713 92 116	1

In accordance with EN 12195-2
GS-certified



Lashing belts with coloured belt strap are not 100% colour-fast. Use in constant rain may result in slight staining.

Ratchet strap with long-lever ratchet

GS-approved safety, double-pointed hook

- Tensioning ratchet
- No premature discard or wear due to inner label



Design	Two-piece
Width (B)	50 mm
Max. elongation lashing strap	5 %
Permitted tensile force LC in the strapping	5000 daN
Permissible LC tensile force when pulled directly	2500 daN
Pre-load	500 daN
Product certification	GS certified safety
Material	PES - Polyester
Shape of the hook	Double pointed hook
Colour	Red
Standards	EN 12195-2

Length (L)	Art. no.	P. Qty.
8 m	0713 91 112	1
10 m	0713 91 122	1
8 m	5713 91 112	8
10 m	5713 91 122	8
12 m	5713 91 132	8

In accordance with EN 12195-2
GS-approved

Continuation **Ratchet strap with long-lever ratchet**



Lashing belts with coloured belt strap are not 100% colour-fast. Use in constant rain may result in slight staining.

Ratchet strap with long-lever ratchet

GS-certified safety, double J-hook with safety catch

- Tensioning ratchet
- No premature discard or wear due to inner label



Design	Two-piece
Width (B)	50 mm
Length (L)	8 m
Max. elongation lashing strap	5 %
Permitted tensile force LC in the strapping	5000 daN
Permissible LC tensile force when pulled directly	2500 daN
Pre-load	500 daN
Product certification	GS certified safety
Material	PES - Polyester
Shape of the hook	Double pointed hook with snap
Colour	Red
Standards	EN 12195-2

Art. no. 0713 91 113

P. Qty.: 1

In accordance with EN 12195-2
GS-certified



Lashing belts with coloured belt strap are not 100% colour-fast. Use in constant rain may result in slight staining.

Ratchet lashing belt with standard ratchet

GS-certified safety, double J-hook with safety catch

- Pressure ratchet
- No premature discard or wear due to inner label



Design	Two-piece
Width (B)	50 mm
Max. elongation lashing strap	5 %
Pre-load	400 daN
Product certification	GS certified safety

Material	PES - Polyester
Shape of the hook	Double pointed hook with snap
Colour	Red
Standards	EN 12195-2

Length (L)	Permitted tensile force LC in the strapping	Permissible LC tensile force when pulled directly	Art. no.	P. Qty.
8 m	4000 daN	2000 daN	0713 91 171	1
8 m	5000 daN	2500 daN	0713 92 207	1
10 m	4000 daN	2000 daN	0713 91 17	1

In accordance with EN 12195-2
GS-certified



Lashing belts with coloured belt strap are not 100% colour-fast. Use in constant rain may result in slight staining.

Ratchet lashing belt, two-part with S-hooks

For small to medium loads

- No scratching as S-hooks have a PVC coating
- Suitable for lashing points with larger bracket diameters



Design	Two-piece
Width (B)	25 mm
Length (L)	6 m
Max. elongation lashing strap	5 %
Permitted tensile force LC in the strapping	700 daN
Permissible LC tensile force when pulled directly	350 daN
Pre-load	133 daN
Product certification	GS certified safety
Material	PES - Polyester
Shape of the hook	S hook
Colour	Red
Standards	EN 12195-2

		Art. no.	P. Qty.
		5713 922 537	1
		5713 988 001	1

In accordance with EN 12195-2
GS-certified

Place the goods to be secured on non-slip mats for additional protection

Ratchet strap, two-piece with double-claw hook

An all-round system for small to medium loads in all sectors (e.g. tradespeople and industry)



Width (B)	35 mm
Permitted tensile force LC in the strapping	2000 daN
Permissible LC tensile force when pulled directly	1000 daN
Pre-load	220 daN
Material	PES - Polyester
Shape of the hook	Double pointed hook
Colour	Red
Standards	EN 12195-2

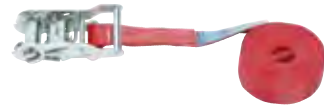
Design	Length (L)	Max. elongation lashing strap	Product certification	Art. no.	P. Qty.
	6 m			5713 988 003	1
Two-piece	6 m	5 %	GS certified safety	0713 92 332	1
Two-piece	8 m	5 %	GS certified safety	0713 92 333	1

In accordance with DIN EN 12195-2
GS-certified

Lashing straps with coloured belt strap are not 100 % colour-fast. Use in constant rain may result in slight staining.

Ratchet strap, one-piece with standard ratchet

An all-round system for small to medium loads in all sectors (e.g. tradespeople and industry)



Suitable for bundling loose pipes and rods

Design	One-piece
Width (B)	35 mm
Max. elongation lashing strap	5 %
Permitted tensile force LC in the strapping	2000 daN
Product certification	GS certified safety
Material	PES - Polyester
Colour	Red
Standards	EN 12195-2

Length (L)	Art. no.	P. Qty.
4 m	0713 92 330	1
6 m	0713 92 331	1

In accordance with DIN EN 12195-2
GS-approved

Lashing straps with coloured belt strap are not 100% colour-fast. Use in constant rain may result in slight staining.

Ratchet strap, two-piece, double-claw hook with safety catch

An all-round system for small to medium loads in all sectors (e.g. tradespeople and industry)

- Safety catch on the double-claw hook prevents accidental unhooking from the lashing point



Design	Two-piece
Width (B)	35 mm
Max. elongation lashing strap	5 %
Permitted tensile force LC in the strapping	2000 daN
Permissible LC tensile force when pulled directly	1000 daN
Pre-load	220 daN
Product certification	GS certified safety
Material	PES - Polyester
Shape of the hook	Double pointed hook with snap
Colour	Red
Standards	EN 12195-2

Length (L)	Art. no.	P. Qty.
4 m	0713 92 336	1
6 m	0713 92 337	1
8 m	0713 92 338	1

In accordance with EN 12195-2
GS-certified



Lashing straps with coloured belt strap are not 100 % colour-fast. Use in constant rain may result in slight staining.

Ratchet strap, one pcs With basic ratchet

For small loads

- Robust and durable basic ratchet



Design	One-piece
Width (B)	25 mm
Max. elongation lashing strap	5 %
Permitted tensile force LC in the strapping	700 daN
Product certification	GS certified safety
Material	PES - Polyester
Colour	Red
Standards	EN 12195-2

Length (L)	Art. no.	P. Qty.
2 m	5713 922 532	1
4 m	5713 922 533	1
6 m	5713 922 535	1

Continuation **Ratchet strap, one pcs With basic ratchet**

In accordance with EN 12195-2
GS-certified



Lashing straps with coloured belt strap are not 100% colour-fast

Ratchet strap, two-part With tailboard claw

For secure attachment of smaller loads to the tailboard

- Can also be used in combination with intermediate wall locks and clamping bars
- Fast lashing of goods and easy handling thanks to automatic clamping of the tailboard claw
- No lashing points or lashing rails required and no damage to the tailboard due to rubberised claw
- Pressure ratchet



Design	Two-piece
Width (B)	50 mm
Length (L)	3 m
Max. elongation lashing strap	5 %
Permitted tensile force LC in the strapping	500 daN
Permissible LC tensile force when pulled directly	250 daN
Product certification	GS certified safety
Material	PES - Polyester
Shape of the hook	board wall clamp
Colour	Red
Standards	EN 12195-2

Art. no. 5713 922 563

P. Qty.: 1

In accordance with EN 12195-2
GS-approved



Additionally, place the goods to be secured on non-slip mats

Lashing strap loose end with claw hook

Replacement tensioning belt with double J-hook for existing ratchet strap systems from Würth

No premature discard or wear due to inner label



Width	50 mm
Max. elongation lashing strap	5 %

Permissible LC tensile force when pulled directly	2500 daN
Product certification	GS certified safety
Shape of the hook	Double pointed hook
Colour	Red
Material	PES - Polyester

Loose end length	Art. no.	P. Qty.
7.5 m	0713 92 340	10
9.5 m	0713 92 341	10

In accordance with DIN EN 12195-2
GS-certified



Supplied without ratchet tool

Lashing chain, one-part

With lashing hook

- Ratchet spanner, eyelet screws on both sides with screw-out lock
- Chain quality class 8, black, dipped



Usable length	3.5 m
Material	Steel
Surface	Lacquered

Recommended tensile load	Nominal thickness	Product weight (per item)	Art. no.	P. Qty.
4000 daN	8 mm	9670 g	0713 922 102	1
6400 daN	10 mm	13447 g	0713 922 100	1
10000 daN	13 mm	20108 g	0713 922 101	1

In accordance with EN 12195-3

Lashing chain, two pieces

With shortening hook

- Ratchet spanner, eyelet screws on both sides with screw-out lock
- Chain quality class 8, black



Usable length	3.5 m
Material	Steel
Surface	Lacquered

Recommended tensile load	Nominal thickness	Product weight (per item)	Art. no.	P. Qty.
4000 daN	8 mm	9670 g	0713 922 105	1
6400 daN	10 mm	13447 g	0713 922 106	1
10000 daN	13 mm	20108 g	0713 922 107	1

In accordance with EN 12195-3

Locking beam SAM Profi

For optimum securing of stored goods in dry and refrigerated trailers, as well as vans

- Large, continuous adjustment range
- Patented clamping mechanism
- Telescopic brake
- Non-slip rubber feet for any surface
- Robust, long-lasting quality – can be recycled



Locking force	140 daN
Pipe diameter	54 mm
Mounting option	Horizontal, Vertical
Material	Aluminium

Min./max. adjustment range	Art. no.	P. Qty.
2100-2550 mm	0713 92 421	1
2400-2850 mm	0713 92 424	1

Load bar PAT one-piece

Load bar for securing heavy loads in vehicle interiors.

- Large adjustment range with adjustable clamping element and high-strength hook
- Easy and safe fitting and locking with the patented clamping/joint element.
- Made of reinforced aluminium pipe
- Stable, durable quality – recyclable



Mounting option	Horizontal
Material	Aluminium
Length x Width profile cross-section	65 x 49 mm

Locking force	Min./max. adjustment range	Suitable for min./max. dropside thickness	Suitable for dropside thickness	Art. no.	P. Qty.
625 daN	2460-2520 mm		25 mm	0713 92 201	1
1000 daN	2400-2520 mm	18-35 mm		0713 92 222	1

Load bar PAT two-piece

The load bar with 1000 daN locking force for securing heavy loads in the vehicle interior.

- Large adjustment range with adjustable clamping element and high-strength hook
- Easy and safe fitting and locking with the patented clamping/joint element.
- Made of reinforced, high-strength aluminium pipe
- Stable, durable quality – recyclable



Mounting option	Horizontal
Material	Aluminium
Length x Width profile cross-section	65 x 49 mm

Locking force	Min./max. adjustment range	Suitable for min./max. dropside thickness	Suitable for dropside thickness	Art. no.	P. Qty.
625 daN	2220-2520 mm		25 mm	0713 92 221	1
1000 daN	2290-2520 mm	18-35 mm		0713 92 209	1

Lashing strap with clamping lock, one pcs

For small to medium loads

- Optimum pressure and force distribution by means of a belt clamp manufactured in a die-casting process
- Also suitable for bundling loose pipes among other things



Max. elongation lashing strap	5 %
Product certification	GS certified safety
Material	PES - Polyester
Standards	EN 12195-2

Width (B)	Endless length	Length (L)	Colour	Permitted tensile force LC in the strapping	Art. no.	P. Qty.
25 mm	1.2 m	1.2 m	Red	250 daN	5713 922 113	4
25 mm	2 m	2 m	Red	250 daN	5713 922 114	4
25 mm	3 m	3 m	Red	250 daN	5713 922 115	4
25 mm	5 m	5 m	Red	250 daN	5713 922 116	4
35 mm	6 m	6 m	Black	700 daN	5713 922 119	1
35 mm	6 m	6 m	Red	700 daN	5713 922 117	1

In accordance with EN 12195-2
GS-certified



Lashing straps with coloured belt strap are not 100% colour-fast

Container tarpaulin

DEKRA-certified

Air-permeable material

Grammage: 220 g/m²

Easy to fold (soft)

Coating weight per m²	220 g
Material	PE - Polyethylene



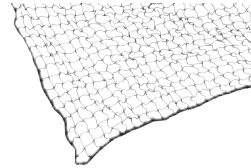
Continuation Container tarpaulin

Length	Width	Suitable for container volume	Colour	Art. no.	P. Qty.
4.5 m	2.3 m	7 m³ (1.7 x 4 m)	Red	0880 230 451	1
5 m	2.3 m	10 m³ (1.7 x 4.5 m)	Green	0880 230 500	1
5 m	2.3 m	10 m³ (1.7 x 4.5 m)	Red	0880 230 501	1
5.5 m	2.3 m	10 m³ (1.7 x 4.5 m)	Red	0880 230 551	1
7 m	3.1 m	12 m³ (2.5 x 6.3 m), 18 m³ (2.5 x 6.3 m), 20 m³ (2.5 x 6.3 m)	Green	0880 310 700	1
7 m	3.1 m	12 m³ (2.5 x 6.3 m), 18 m³ (2.5 x 6.3 m), 20 m³ (2.5 x 6.3 m)	Red	0880 310 701	1
7.5 m	3.1 m	30 m³ (2.5 x 6.8 m)	Green	0880 310 750	1
7.5 m	3.1 m	30 m³ (2.5 x 6.8 m)	Red	0880 310 751	1
8 m	3.1 m	38 m³ (2.5 x 7.3 m), 40 m³ (2.5 x 7.3 m)	Green	0880 310 800	1
8 m	3.1 m	38 m³ (2.5 x 7.3 m), 40 m³ (2.5 x 7.3 m)	Red	0880 310 801	1
8.5 m	3.1 m	38 m³ (2.5 x 7.8 m), 40 m³ (2.5 x 7.8 m)	Red	0880 310 851	1

Trailer net

With reinforced border cord

Length	2.7 m
Material	PP - Polypropylene
Cord thickness at edge	8 mm
Colour	Black



Width	Mesh size	Cord thickness	Art. no.	P. Qty.
2.5 m	45 x 45 mm	3 mm	0880 270 251	1
2.5 m	100 x 100 mm	6 mm	0880 270 250	1
3.1 m	45 x 45 mm	3 mm	0880 270 311	1
3.5 m	45 x 45 mm	3 mm	0880 270 351	1
3.5 m	100 x 100 mm	6 mm	0880 270 350	1
4.1 m	45 x 45 mm	3 mm	0880 270 411	1
4.1 m	100 x 100 mm	6 mm	0880 270 410	1

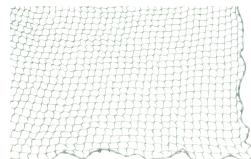
Dekra-tested



Container net

With reinforced border cord

Material	PP - Polypropylene
Colour	Green
Mesh size	45 x 45 mm
Cord thickness	3 mm



Width	Length	Suitable for container volume	Art. no.	P. Qty.
3 m	5 m	5 m ³ (1.7 x 3.3 m), 7 m ³ (1.7 x 4 m), 10 m ³ (1.7 x 4.5 m)	0880 300 500	1
3.5 m	7 m	12 m ³ (2.5 x 6.3 m), 18 m ³ (2.5 x 6.3 m), 20 m ³ (2.5 x 6.3 m)	0880 350 700	1
3.5 m	8 m	30 m ³ (2.5 x 6.8 m), 38 m ³ (2.5 x 7.3 m), 40 m ³ (2.5 x 7.3 m)	0880 350 800	1

Dekra-tested



Edge protection angle

Made of plastic

Even, gentle pressure distribution

Suitable for max. belt width	50 mm
Width	149 mm
Limb length	78 mm
Material	PP - Polypropylene
Colour	Dark grey



Art. no. 0713 92 161

P. Qty.: 40

Edge protection angle XXL

Made of plastic

Larger contact surface

- High dimensional stability
- Even, gentle pressure distribution

Suitable for max. belt width	50 mm
Width	150 mm
Limb length	190 mm
Limb length 2	155 mm
Material	PP - Polypropylene
Colour	Black



Art. no. 0713 92 166

P. Qty.: 4/80

Textbook for load securing

For training purposes and the instruction (statutory obligation to provide training) of employees

For securing loads on trucks, in vans, pick-up vehicles, passenger cars and passenger cars with trailers

Evidence card to document training sessions

Rules on load securing are translated and printed in six languages.

EN, HU, PL, IT, CZ, RU



Number of pages	192 PCS
DIN format	A5 h

Art. no. 5713 713 001

P. Qty.: 1

Due to the complexity of calculating restraint forces for load securing, the textbook for load securing prioritises easy-to-use calculation methods.

Lifting strap

Made from high-strength polyester

- Flat woven fabric, with crane loops at both ends
- Reinforced crane loops
- Various sling configurations are possible
- Protects surfaces
- Considerably lower risk of injury compared with conventional slings



High load-bearing capacity with low tare weight

Colour-coded load-bearing capacity designation

Material	PES - Polyester
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Width of band	Usable length	Load-bearing capacity (single direct)	Load-bearing capacity (single u-shape)	Load-bearing capacity (single noosed)	Art. no.	P. Qty.
30 mm	2 m	1000 kg	2000 kg	800 kg	0713 50 502	1
30 mm	4 m	1000 kg	2000 kg	800 kg	0713 50 504	1
30 mm	6 m	1000 kg	2000 kg	800 kg	0713 50 506	1
60 mm	2 m	2000 kg	4000 kg	1600 kg	0713 50 702	1
60 mm	4 m	2000 kg	4000 kg	1600 kg	0713 50 704	1
60 mm	6 m	2000 kg	4000 kg	1600 kg	0713 50 706	1
90 mm	2 m	3000 kg	6000 kg	2400 kg	0713 50 602	1
90 mm	4 m	3000 kg	6000 kg	2400 kg	0713 50 604	1
90 mm	6 m	3000 kg	6000 kg	2400 kg	0713 50 606	1

In accordance with DIN EN 1492-1
GS-certified



Disposable lifting strap

In accordance with DIN 60005

Made from high-strength polyester

Extremely flexible sling

High load-bearing capacity



Width of band	48 mm
Usable length	0.6 m
Load-bearing capacity (single direct)	750 kg
Load-bearing capacity (single u-shape)	1500 kg
Load-bearing capacity (single noosed)	600 kg
Material	PES - Polyester

Art. no. 0713 50 390

P. Qty.: 50

Disposable lifting straps may only be used once and must be disposed of at the end of the transport chain!



Round sling

Ensures high load-bearing capacity despite low tare weight

Made from high-strength polyester with woven-in barrel strips

Endless loop

Colour-coded load-bearing capacity designation

Extremely flexible sling for loads of all kinds

- Protects surfaces
- Considerably lower risk of injury compared with conventional slings

In accordance with DIN EN 1492-2

GS-certified

Material	PES - Polyester
----------	-----------------

Usable length	Load-bearing capacity (single direct)	Load-bearing capacity (single u-shape)	Load-bearing capacity (single noosed)	Colour	Art. no.	P. Qty.
1 m	1000 kg	2000 kg	800 kg	Purple	0713 50 12	1
1 m	2000 kg	4000 kg	1600 kg	Green	0713 50 22	1
1 m	3000 kg	6000 kg	2400 kg	Yellow	0713 50 32	1
1.5 m	1000 kg	2000 kg	800 kg	Purple	0713 50 13	1
1.5 m	2000 kg	4000 kg	1600 kg	Green	0713 50 23	1
1.5 m	3000 kg	6000 kg	2400 kg	Yellow	0713 50 33	1
2 m	1000 kg	2000 kg	800 kg	Purple	0713 50 14	1
2 m	2000 kg	4000 kg	1600 kg	Green	0713 50 24	1
2 m	3000 kg	6000 kg	2400 kg	Yellow	0713 50 34	1

Usable length	Load-bearing capacity (single direct)	Load-bearing capacity (single u-shape)	Load-bearing capacity (single noosed)	Colour	Art. no.	P. Qty.
3 m	1000 kg	2000 kg	800 kg	Purple	0713 50 16	1
3 m	2000 kg	4000 kg	1600 kg	Green	0713 50 26	1
3 m	3000 kg	6000 kg	2400 kg	Yellow	0713 50 36	1
4 m	2000 kg	4000 kg	1600 kg	Green	0713 50 28	1
4 m	3000 kg	6000 kg	2400 kg	Yellow	0713 50 38	1

Expander

The expander with the extra-large hook can be used in many ways to tie and secure.

- For securing, fastening and adding to tarpaulin coverings
- Can be used individually or combined for versatility and universal use
- Extra-large hook



Material	PE - Polyethylene
Length	800 mm
Diameter	8 mm
Colour	Red

Art. no. 0880 240 185

P. Qty.: 4

Expander with shortening hook

Red expander cord with one plastic hook and one steel hook. Can be shortened to required length using shortening hook. Maximum: 800 mm.

- When under strain, the shortened expander cord tightens itself
- Quickly and easily adjustable to the desired length
- Polypropylene cord, natural rubber inner material
- Metal hook breaking load: 200 N, plastic hook breaking load: 500 N



Max. length	800 mm
Diameter	8 mm
Max. tensile force	200 N
Colour	Red

Art. no. 0880 240 190

P. Qty.: 4

Expander with locking device

For universal bundling of pipes, rods, channels, etc., as well as securing a wide variety of goods

- Bundling diameter can be adjusted to suit
- Infinitely extendible by connecting several expanders



Material	PES - Polyester
Length	1000 mm
Diameter	8 mm
Colour	Red

Art. no. 0880 240 195

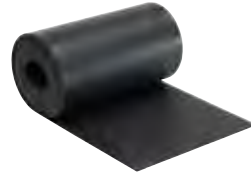
P. Qty.: 2

Can also be used to tie umbrellas, rotary clothes dryers, rolls of material etc. together.

Vulcanised non-slip mat

Ideal for use in addition to lashing down and also prevents the penetration of consumables such as water, oil and dirt

- Secured friction coefficient of at least 0.6 μ
- Robust solid rubber reusable mat



Suitable for	Normal loads
Min. friction	0.6 μ
Material thickness	2 mm
Material	Rubber
Colour	Black
Width	250 mm
Length	5000 mm

Art. no. 0713 92 905

P. Qty.: 1

KAHO tested in line with VDI 2700 with a sliding friction coefficient of $\mu > 0.6$

Non-slip mat, granulate

Geeignet für Schwerlasten, normale Lasten

**Ideal addition when lashing down
Ensured sliding friction coefficient of at least 0.6 μ**

Precise calculations of lashing material requirements.



Suitable for	Heavy loads, Normal loads
Min. friction	0.6 μ
Material thickness	8 mm
Material	Rubber granules chemically bound with PUR
Colour	Black
Width	250 mm
Length	5000 mm

Art. no. 0713 92 915

P. Qty.: 1

Tested by the Fraunhofer Institute according to VDI 2700 Sheet 14 with a coefficient of sliding friction of $\mu > 0.6$

Intermediate wall lock

Suitable for blocking the load on the load surface

- By using several intermediate wall locks, the load surface can be divided into different zones
- Material: Aluminium
- Clamping element with additional slip protection



Min./max. grip range	2400-2700 mm
Material	Aluminium
Surface	Plain
Height	125 mm
Width	30 mm

Art. no. 0713 92 200

P. Qty.: 1

Rubber tensioning ring

For tarpaulin fixing

Diameter (D)	8 mm
Material	Rubber
Colour	Black



Length (L)	Art. no.	P. Qty.
200 mm	0880 150 5	25
250 mm	0880 150 6	25
400 mm	0880 150 7	25

Three-hole hook

Material	Steel
----------	-------

Art. no. 0880 931

P. Qty.: 25



S hook



Length (l ₁)	Art. no.	P. Qty.
30 mm	0880 45 1	25
40 mm	0880 45 2	25
45 mm	0880 45	25
60 mm	0880 45 3	25

Round button

For expanders and tarpaulin cables up to a rope thickness of 8 mm

- Suitable for stretching cover nets with and without expander
- Through hole 6 mm for rivets or screws



Material	PA - Polyamide
Colour	Black
Suitable for max. rope diameter	8 mm

Diameter	Art. no.	P. Qty.
20 mm	0880 930 001	50
30 mm	0880 930 002	50

Expander cable

Length (L)	100 m
------------	-------



Diameter (Ø)	Art. no.	P. Qty.
8 mm	0880 100 10	100
10 mm	0880 100 11	100

Throttle clamp

Material	Iron
Surface	Zinc plated

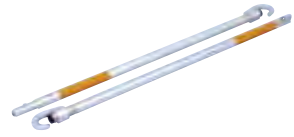


Suitable for rope diameter	Art. no.	P. Qty.
6 mm	0880 155 300	25
8 mm	0880 155 3	25
10 mm	0880 155 301	25

Towbar Professional

2 pieces

- Towing capacity up to 3.2 t
- Absolutely jerk-free towing
- New joining technique with the help of locking pins



Max. loading weight	3.2 t
Length	1.8 m
Length (folded together)	0.96 m
Pipe diameter	30 mm
Surface	Zinc plated

Art. no. 0772 04 400

P. Qty.: 1

Znak jakości:

- Attest bezpieczeństwa TÜV, monitorowana produkcja
- Produkt sprawdzony pod względem bezpieczeństwa

When towing, always release the steering column lock and switch on the warning lights. The bar must remain straight between the vehicles. This may mean shifting to the side when driving if the eyelets/coupling are not attached to the vehicles centrally. The towing of vehicles with a defective brake system is not permitted on public roads. Do not drive faster than max. 50 kph. Always drive in the lane of the pulling vehicle.



09

BUILDING MATERIALS

	Page
Construction site equipment	2376
Roofing materials	2399
Wood connector	2431





Warning tape

To close off, secure and mark hazard zones, construction sites, construction pits, plots of land, paths etc.

- Extremely resistant to tearing
- Blocked red/white on both sides
- PVC and heavy metal free

Width	80 mm
Length	500 m

Art. no. 0899 615 002

P. Qty.: 2

Wall cassette with belt pull-out for barriers

Alternative to a bollard if a permanent barrier is required or space is limited.

- Space-saving solution for permanent barriers
- Secure belt return and flexible belt pull-out
- The barrier can be flexibly configured using bollard and wall clip



Material	Textile
Colour	Yellow-black
Width	50 mm

Length	Type description	Material of the housing	Art. no.	P. Qty.
3000 mm	A	Metal	0957 595 021	1
4000 mm	G	Metal	0957 595 020	1
8000 mm	G	Plastic	0957 595 025	1

- 0957 595 025 features a belt pull-out, no mounting of incoming belts.
- When combining different products from the range of barriers with belt pull-out, please ensure the same type designation.

Dispenser

Empty roller block for warning tape

Material	PE - Polyethylene
Suitable for strap dimension	500 m x 80 mm

Art. no. 0899 615 000

P. Qty.: 1



Plastic chain

For blocking off, securing and use as rain run-off chains

- Rustproof
- Non-magnetic
- High resistance to weathering



Length	25 m
Material	PE - Polyethylene
Min./max. temperature resistance	-70 to 100 °C

Diameter (Ø)	Colour	Number of chain links until the colour changes	Length of link (internal) (c)	External width (b)	Art. no.	P. Qty.
6 mm	Black-yellow	11 PCS	42 mm	20 mm	0899 610 613	1
6 mm	Red-white	11 PCS	42 mm	20 mm	0899 610 612	1
8 mm	Black-yellow	9 PCS	61 mm	25 mm	0899 610 813	1
8 mm	Red-white	9 PCS	61 mm	25 mm	0899 610 812	1

Not suitable for suspending heavy parts

Delineator

BASf-tested delineator in accordance with technical specifications, with practical swivel adapter for safe direction of traffic in roadworks

- Sturdy bollard body with film protection and grip edge
- Internally reinforced lamp support, 40x40 mm, for beacon lamps
- Swivel adapter with protective edge to stop dirt and moisture penetrating the ratchet mechanism

Length x width x height	1320 x 295 x 55 mm
-------------------------	--------------------



Foil type	Art. no.	P. Qty.
RA1/A	0993 899 302	1
RA1/A	0993 899 303	1/72
RA2/B	0993 899 332	1
RA2/B	0993 899 333	1

Pointing to the right/left

Bollard base

BASf-tested base in accordance with technical specifications, for positioning delineators, fall arresters and traffic signs

- With swivel adapter mount, integrated battery compartment and two carry handles
- Extremely stable and non-slip
- Unbreakable, stackable and resistant to oil, frost and salt

Height	115 mm
Width	400 mm
Length	800 mm
Product weight (per item)	25 kg



Art. no. 0993 899 304

P. Qty.: 1/36

Routing cone

Traffic warning cone, orange (luminous red) with 2 white non-reflective stripes

- Routing cone base made from recycled material with tilt-prevention edges
- Cone body made from HDPE
- Day-glow paint with white painted rings

Min./max. diameter	40-610 mm
Height	500 mm



Product weight (per item)	1103 g
Colour	Red, White

Art. no. 0993 899 500

P. Qty.: 1

Not approved for use on public roads.

Routing cone

Temporary routing cone with outstanding level of stability, approved for use on roads

- High level of stability thanks to anti-tip edge
- Optimised stacking without getting stuck
- Recessed handle for easy handling even when wearing gloves

Colour	White, Red
Foil type	RA1/A



Height	Length x width	Product weight (per item)	Art. no.	P. Qty.
500 mm	325 x 325 mm	3050 g	0993 899 306	1
750 mm	445 x 445 mm	5150.3 g	0993 899 307	1

BAST-tested and in line with technical specifications

Not permitted on motorways

Cable bridge

Can be traversed with a wheel load of up to 9 tonnes

- Ducts: 1 x 40 mm diameter, 2 x 20 mm diameter

Max. loading weight	9 t
Number of openings	3 PCS
Length	1500 mm
Width	200 mm
Height	65 mm



Art. no. 0993 899 308

P. Qty.: 1

Stand-up display „Please keep your distance – min. 1.5 m“

Made of aluminium for flexible use inside and outside

Material	Aluminium
Colour	White
Product weight (per item)	200 g

Art. no. 0997 865 478

P. Qty.: 1



Tetrahedral warning sign „Dangerous electrical voltage“

With magnetic base

- According to DIN EN ISO 7010 W012
- Printed on 3 sides (pyramid)
- For self-assembly

Design	Dangerous electrical voltage
Length	150 mm
Width	170 mm
Height	150 mm
Material	Carton with foil coating
Colour	Yellow, Black



Art. no. 0967 933 501

P. Qty.: 5

Down pipe replacement film

Protects façades from soiling and structural damage.

Reliable façade protection

Easy to use

- Fast and easy to attach and remove.
- Practical dispenser simplifies fitting.

Cost-effective

Less expensive than plastic pipes

Universal use

Downpipe replacement can be used for all drain pipes up to 150 mm diameter.

Material	PE - Polyethylene
Foil thickness	0.14 mm
Diameter (Ø)	200 mm
Length of roll	150 m
Additional articles	Cable ties, art. prefix no. 0502 ...; Adhesive tapes, art. prefix no. 0992 ...; Blades, art. prefix no. 0715 ...



Art. no. 0818 070 150

P. Qty.: 1

Fibre concrete spacer with wire

Kiwa-tested spacer for simple attachment of several concrete covers depending on position

- Excellent material quality for compressive strength and fire resistance
- Does not soften and melt in the heat, does not become brittle in the cold
- Homogeneous bond between concrete and spacers
- Same expansion coefficient as concrete
- Fewer cracks form



Material	Fibre-reinforced concrete
Cutting width	24 mm

Length	Concrete cover	Product weight (per item)	Art. no.	P. Qty.
20 mm	20 mm, 25 mm, 30 mm	37 g	5396 240 201	20000
35 mm	35 mm, 40 mm, 50 mm	91 g	5396 240 351	10000
45 mm	45 mm, 55 mm, 60 mm	142 g	5396 240 451	6000

Fibre-reinforced concrete loop

Kiwa-approved spacers for horizontal reinforcement. The loop shape prevents the device from tipping over.

- Excellent material quality for compressive strength and fire resistance
- Does not soften and melt in the heat, does not become brittle in the cold
- Homogeneous bond between concrete and spacers
- Same expansion coefficient as concrete
- Fewer cracks form



Length	80 cm
Material	Fibre-reinforced concrete

Concrete cover	Product weight (per item)	Art. no.	P. Qty.
25 mm	620 g	5396 800 250	1200
30 mm	638 g	5396 800 300	1000
35 mm	876 g	5396 800 350	750
40 mm	1025 g	5396 800 400	600
45 mm	1169 g	5396 800 450	600
50 mm	1150 g	5396 800 500	500

Fibre concrete triangle surface spacer

Kiwa-approved spacer for horizontal reinforcement

- Excellent material quality for compressive strength and fire resistance
- Does not soften and melt in the heat, does not become brittle in the cold
- Homogeneous bond between concrete and spacers
- Same expansion coefficient as concrete
- Fewer cracks form



Length	100 cm
Material	Fibre-reinforced concrete

Concrete cover	Product weight (per item)	Art. no.	P. Qty.
20 mm	510 g	5396 100 200	1500
25 mm	820 g	5396 100 250	1000
30 mm	1194 g	5396 100 300	1000
35 mm	1530 g	5396 200 350	700
40 mm	2000 g	5396 100 400	600
45 mm	2575 g	5396 100 450	600
50 mm	3143 g	5396 100 500	400
60 mm	4520 g	5396 100 600	300

Fibre concrete spacer

Kiwa-tested spacer for the horizontal reinforcement of several concrete covers depending on position

- Excellent material quality for compressive strength and fire resistance
- Does not soften and melt in the heat, does not become brittle in the cold
- Homogeneous bond between concrete and spacers
- Same expansion coefficient as concrete
- Fewer cracks form



Material	Fibre-reinforced concrete
Cutting width	24 mm

Length	Concrete cover	Product weight (per item)	Art. no.	P. Qty.
20 mm	20 mm, 25 mm, 30 mm	36.5 g	5396 240 200	20000
35 mm	35 mm, 40 mm, 50 mm	89 g	5396 240 350	10000
45 mm	45 mm, 55 mm, 60 mm	140 g	5396 240 450	6000

Fibre concrete loop with burl

**Kiwa-approved spacers for horizontal reinforcement.
The loop shape prevents the device from tipping over.**

- Excellent material quality for compressive strength and fire resistance
- Does not soften and melt in the heat, does not become brittle in the cold
- Homogeneous bond between concrete and spacers
- Same expansion coefficient as concrete
- Fewer cracks form

Length	80 cm
Material	Fibre-reinforced concrete



Concrete cover	Product weight (per item)	Art. no.	P. Qty.
25 mm	638 g	5396 800 251	1200
30 mm	810 g	5396 800 301	1000
35 mm	876 g	5396 800 351	750
40 mm	1025 g	5396 800 401	600
45 mm	1169 g	5396 800 451	600
50 mm	1150 g	5396 800 501	500

Fibre-reinforced concrete T loop

**Kiwa-tested spacer with a particularly robust design
for horizontal reinforcement**

- Excellent material quality for compressive strength and fire resistance
- Does not soften and melt in the heat, does not become brittle in the cold
- Homogeneous bond between concrete and spacers
- Same expansion coefficient as concrete
- Fewer cracks form

Length	80 cm
Material	Fibre-reinforced concrete



Concrete cover	Product weight (per item)	Art. no.	P. Qty.
30 mm	617 g	5396 800 305	1000
35 mm	848 g	5396 800 355	750
40 mm	994 g	5396 800 405	600
50 mm	1108 g	5396 800 505	500

Fibre concrete short piece with hook

Kiwa-tested spacer for vertical reinforcement with steel hook for suspension in structural steel meshes

- Excellent material quality for compressive strength and fire resistance
- Does not soften and melt in the heat, does not become brittle in the cold
- Homogeneous bond between concrete and spacers
- Same expansion coefficient as concrete
- Fewer cracks form



Material	Fibre-reinforced concrete
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Length	Concrete cover	Product weight (per item)	Art. no.	P. Qty.
18 cm	25 mm	141 g	5396 180 250	5000
18 cm	30 mm	168 g	5396 180 300	5000
18 cm	35 mm	183 g	5396 180 350	4000
18 cm	40 mm	243 g	5396 180 400	3500
18 cm	45 mm	300 g	5396 180 450	3200
18 cm	50 mm	370 g	5396 180 500	2000
33 cm	25 mm	263 g	5396 330 250	3000
33 cm	30 mm	313 g	5396 330 300	3000
33 cm	35 mm	348 g	5396 330 350	2400
33 cm	40 mm	450 g	5396 330 400	2000
33 cm	45 mm	563 g	5396 330 450	1600
33 cm	50 mm	685 g	5396 330 500	1280

Wheelbarrow

Highly stable propylene pan that is easy to clean and resistant to impact.

- UV-resistant pan
- Galvanised frame (pipe diameter 30 mm)



Colour	Red
Contents	100 l
Wheel diameter	400 mm

Design	Art. no.	P. Qty.
Includes hollow rubber wheel	0993 998 106	1
Includes pneumatic wheel	0993 998 100	1

Mortar bucket

Round

- Material: PE granulate
- Colour: black
- Recessed grips



Contents	Height	Art. no.	P. Qty.
65 l	340 mm	0993 997 025	1
90 l	380 mm	0993 997 021	1

LED Euro warning lamp

With automatic twilight function

- Can be used for long periods
- Option to switch between flashing or continuous light
- Lamp head diameter of 200 mm
- With suspension hook and integrated holder (also suitable for use on barriers)
- The lamp must not be removed from the tube or holder when the battery is being changed

Lamp-head diameter	200 mm
--------------------	--------

Art. no. 0827 830 002

P. Qty.: 12

RSA-tested (TL)

For two block batteries (not included). One lamp key included per packing unit



LED warning lamp

With automatic twilight function

- With changeover for flashing or continuous light
- Diameter lamp head 180 mm rotatable
- With suspension eye and integral holder

Lamp-head diameter	180 mm
--------------------	--------

Art. no. 0827 830 005

P. Qty.: 12

For two block batteries (not included) One lamp key included per packing unit



Warning and beacon lamp

BAST-tested lamp with shatter-proof housing and comfortable carry handle

- Only one LED per lighting direction, reducing power consumption
- Can be switched between flashing and continuous modes
- Effective light emission 180 mm

Lamp-head diameter	180 mm
IP protection class	IP 33



Colour of light	Art. no.	P. Qty.
Red	0993 899 300	1/12
Yellow	0993 899 301	1/12

Continuation **Warning and beacon lamp**

- BAST-tested, in line with technical specifications
- Corresponds to EN 12352 – L6

Supplied without batteries, lamp holder and lamp key

Lamp key

For LED Euro warning lamp and LED warning lamp

Material	PP - Polypropylene
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Art. no. 0827 830 004

P. Qty.: 3



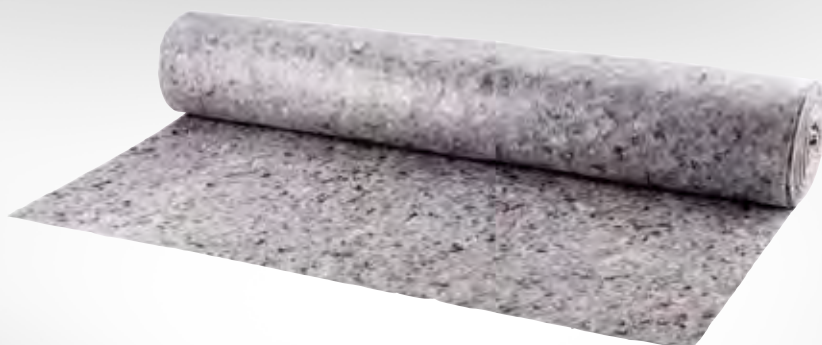
Block battery

For LED warning lamp

Rechargeable battery/battery designation	6 V block battery
Nominal voltage	6 V/DC



Rechargeable battery/battery capacity	Art. no.	P. Qty.
7 Ah	0827 000 001	1/20
50 Ah	0827 000 002	1/12



Reusable cover fleece

Offers universal protection for flooring during painting and renovation work

- Long service life; can be used multiple times
- Highly absorbent. Film coating means that leaks do not penetrate downwards
- Completely secure grip thanks to non-slip film on the underside

Material	60% cotton, 40% synthetic fibre
Colour	Grey flecked
Roll width	1 m
Length of roll	50 m
Coating weight per m ²	275 g
Thickness	1.9 mm

Art. no. 0818 050 100

P. Qty.: 50

Please consider the legal instruction at the beginning of this chapter.

Permeable cover fleece

Particularly for use on breathing surfaces or surfaces which need to be allowed to breathe.



- Vapour-permeable
- Light-coloured fleece is visually unobtrusive
- Long service life; can be used multiple times
- Provides a completely firm grip thanks to the non-slip coating on the underside
- Easy to lay out and cut

Material	100% regenerated fibres
Colour	Light multi coloured
Roll width	1 m
Length of roll	30 m
Coating weight per m ²	320 g
Thickness	1.8 mm

Art. no. 0818 030 112

P. Qty.: 30

Please consider the legal instruction at the beginning of this chapter.

The product should be positioned with the coated side of the fleece facing the floor. The vapour-permeability means there is no protection from liquid penetration. The surface must be clean, dry, dust-free, free of release agents and resistant to tension/compression. The product should always be tested for compatibility on site, as materials, surfaces and external influences can vary.

Single-use cover fleece

Offers universal protection for flooring during painting and renovation work



- Highly absorbent, film coating means that leaks do not penetrate downwards
- Completely firm grip due to non-slip film on the underside
- Easy to lay out and cut

Material	60% cotton, 40% synthetic fibre
Colour	Grey flecked
Roll width	1 m
Length of roll	50 m
Coating weight per m ²	200 g
Thickness	1.7 mm
Number of rolls per pallet	24 PCS

Art. no. 0818 050 090

P. Qty.: 50

Please consider the legal instruction at the beginning of this chapter.

The product should be positioned with the side of the fleece that is covered with a film facing the floor.

Universal cover fleece

Cover fleece with laminated, slip-resistant polyethylene film and two adhesive strips on the back

- Width suitable for many applications at 33 cm
- Rear adhesive strips ensure safe operation
- Non-slip and highly absorbent



Material	Fleece/polyethylene film
Colour	Grey flecked
Roll width	0.33 m
Length of roll	25 m
Coating weight per m ²	230 g

Art. no. 0818 050 165

P. Qty.: 2

Please consider the legal instruction at the beginning of this chapter.

The substrate must always be checked for suitability. Not suitable for natural stone and freshly coated surfaces.

UV protective fleece

Recommended for use with PVC roofing membranes to prevent plasticizers transferring to the roofing membrane.



Material	100% polyester
Thickness	4 mm

Length	Art. no.	P. Qty.
310 mm	0862 003 085	10
510 mm	0862 003 090	10

Self-adhesive cover fleece

White self-adhesive cover fleece for visually high-quality covering work

- Absorbent, white fleece useful side with high abrasion resistance
- Extremely tear-resistant



Material	Polyester/Propylene
Roll width	1 m
Length of roll	50 m
Coating weight per m ²	135 g
Number of rolls per pallet	25 PCS

Art. no. 0818 050 050

P. Qty.: 50

Please consider the legal instruction at the beginning of this chapter.

Continuation **Self-adhesive cover fleece**

Self-adhesive cover fleece is not suitable for freshly laid coverings as it is not breathable and can cause stains. The self-adhesive cover fleece can be removed completely without a residue on most surfaces. Due to the versatile conditions of the surfaces and the environmental influences, no general guarantee for this can be assumed, however.

Cover/construction film

Robust, tear-proof and watertight LDPE film for indoor and outdoor use

- For covering large areas of floors, components and facilities that need to be protected from moisture, dust, paint etc. during renovation and painting work.
- Suitable for indoor and outdoor use



Area	200 m ²
Length	50 m
Width	4 m

Foil type	Tolerance of material thickness	Design	Number of rolls per pallet	Foil thickness	Art. no.	P. Qty.
100	5 %	Translucent	46 PCS	80 µm	0818 002 100	200
150	5 %	Translucent	39 PCS	125 µm	0818 002 150	200
200	5 %	Translucent	32 PCS	160 µm	0818 002 200	200
200	26 %	Opaque	39 PCS	120 µm	0993 818 200	200

Please consider the legal instruction at the beginning of this chapter.

Reinforced film

Robust cover film for multiple uses

- Snowproof, windproof and rainproof
- Semi-transparent film enables inspection



Foil type	90
Tolerance of material thickness	5 %
Width	2 m

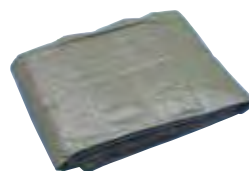
Area	Length	Art. no.	P. Qty.
100 m ²	50 m	0818 011 090	100
200 m ²	100 m	0818 010 090	200

Please consider the legal instruction at the beginning of this chapter.

Tarpaulin with eyelets

Tarpaulin for reliable coverage

- Easy and secure mounting using eyelets
- Snow, wind and rain-proof
- UV and weather-resistant approximately 1.5 years in Central Europe



Foil type	90
Foil thickness	105 µm

Area	Length	Width	Length (folded)	Width (folded)	Art. no.	P. Qty.
12 m ²	3 m	4 m	45 cm	32 cm	0818 004 092	3
24 m ²	4 m	6 m	53 cm	34 cm	0818 004 091	3
48 m ²	8 m	6 m	35 cm	45 cm	0818 004 090	3

Please consider the legal instruction at the beginning of this chapter.

Cover/waxed paper

Robust cover material for a wide range of applications

- Withstands heavy loads, also making it suitable for use under scaffolding
- The double-sided PE film lamination makes the milk carton paper water resistant, dimensionally stable and tear resistant.



Width	1.3 m
Length	50 m
Area	65 m ²
Coating weight per m ²	300 g
Colour	White, Brown

Art. no. 0818 040 050

P. Qty.: 65

Please consider the legal instruction at the beginning of this chapter.

Floor protection panel

A honeycomb structure provides outstanding rigidity, compressive strength and durability

- The plates can be used several times depending on the contamination and the load
- Quick and simple to install
- Recyclable
- Resistant to UV, chemicals, acids and alkaline solutions



Thickness	4.5 mm
Max. loading weight	300 kg
Min. temperature resistance	-20 °C
Ultraviolet resistance	Yes
Material	Ethylene propylene copolymer
Width	800 mm

Continuation **Floor protection panel**

Length	1200 mm
Chemical resistance	Yes

Art. no. 0818 050 300

P. Qty.: 20/220

Please consider the legal instruction at the beginning of this chapter.

Exercise caution with damp or freshly laid floors. The floor protection panels are not moisture-permeable. As a result, water vapour cannot escape and the floor may be damaged.

For stress values of over 300 kg per panel, preliminary tests must be conducted and information obtained from Würth where necessary.

Fuel canister Rapidon 6

Sturdy plastic canister with double handle

- The liquid output and air supply are controlled by pressing a button
- Large filler opening
- Semi-circular tank neck
- Swivel-mounted tank neck
- Two-dimensional fill level gauge
- Sticker with contents description included in scope of delivery
- Resistant to petrol, petrol/oil mixtures and diesel
- Max. filling volume: 6 litres
- UN-approved



Material	HDPE - High density polyethylene
Colour	White
Contents	6 l
Width	150 mm
Length	435 mm
Height	262 mm
Resistance against	Petrol, Petrol-oil mixture, Diesel

Art. no. 0891 420 60

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Footfall sound insulation

Parquet and laminate floor underlay

- Footfall sound insulation and a vapour retarder combined in a single product
- Suitable for underfloor heating
- Can be used on both sides



Material	Polypropylene fleece
Length	30 m
Total thickness	2.5 mm
Length of roll	30 m

Width	1 m
Thickness	2.5 mm
Coating weight per m ²	300 g

Art. no. 0818 050 220

P. Qty.: 30

Please consider the legal instruction at the beginning of this chapter.

Decoupling fleece CERAfix® 205

For isolating stresses while laying tiles and natural stone or parquet, laminate flooring and carpets

Simple to use

- Easy to unroll and lay
- Can be laid with no folds
- Minimal lengthways and crosswise expansion

Favourable sound values thanks to a high degree of solidification

Suitable for new buildings and renovations

Material	PES - Polyester
Total thickness	0.8 mm
Length of roll	25 m
Roll width	1 m
Coating weight per m ²	0.16 kg

Art. no. 5875 100 205

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Dispose of CERAfix 205 as construction waste.



Fan heater

Compact fan heater with infinitely adjustable thermostat

- 2 heat settings (1000/2000 W)
- Cold setting (fan)
- With oscillating motion that can be switched off

Power rating	2000 W
Min./max. blower temperature	7 to 88 °C
Width	20 cm
Height	29 cm
Depth	14.5 cm
Cable length	1.2 m

Art. no. 9501 008 385

P. Qty.: 1



Submersible pump Easy-Sub 400W

Robust, reliable submersible waste water pump with mounted float switch

- Grain size up to 10 mm
- Cable length 20 m + safety plug
- Fully submersible to 3 bar
- Longitudinally water-tight cable entry protects the winding from water ingress
- Prevents the motor from overheating on rotor blocking, unequal phases, voltage fluctuations
- Low-wear F-impeller (free current vortex)
- Incl. Storz C-coupling



Max. feed quantity	220 l/min
Max. delivery height	11.5 m
Nominal voltage	230 V/AC
Nominal current	3.1 A
Motor output	0.4 kW
Weight of machine	13 kg
Connection thread	ET 2 inch
Connection coupling	Storz C
Min./max. temperature conditions	0 to 40 °C
Residual water height	88 mm

Art. no. 0993 702 80

P. Qty.: 1



Submersible pump Classic

Flat suction pump for extracting water up to 2 mm deep

- Aluminium housing with stove enamelling
- Oil-filled motor for continuous operation with overload protection
- Self-aspirating

Max. feed quantity	70 l/min
Max. delivery height	6 m
Nominal voltage	230 V/AC
Nominal current	1 A
Motor output	190 W
Weight of machine	5 kg
Connection thread	1/2 inch, 3/4 inch, 1 inch
Cable length	10 m
Residual water height	2 mm

Art. no. 0993 702 70

P. Qty.: 1

Submersible pump Type HS

Small and robust waste water pump, suitable for use in a broad range of applications

- Long-lasting, simple maintenance process
- Wear-resistant pump housing
- Newly developed motor
- Built-in thermal switch

Scope of delivery

- 1x cable 10 m with plug
- 1x 2" threaded connection, external thread, fixed Storz C coupling (2" internal thread)



Max. feed quantity	100 l/min
Max. delivery height	8 m
Nominal voltage	230 V/AC
Nominal current	2.6 A
Motor output	0.4 kW
Weight of machine	11 kg
Connection thread	ET 2 inch
Connection coupling	Storz C
Cable length	10 m
Min./max. temperature conditions	0 to 40 °C
Residual water height	90 mm
Max. grain size	7 mm

Art. no. 0993 702 60

P. Qty.: 1

Submersible pump Type N

Small and robust submersible waste water pump, suitable for use in a broad range of applications wherever water needs to be moved

- Pump suitable for prolonged use at low water level and 'snore mode'
- Fail-safe operation under the toughest conditions and over long periods of time
- No overheating of the motor



Max. feed quantity	240 l/min
Max. delivery height	11 m
Nominal voltage	230 V/AC
Nominal current	2.9 A
Motor output	0.4 kW
Weight of machine	12.1 kg
Connection thread	2 inch
Connection coupling	Storz C
Cable length	10 m
Min./max. temperature conditions	0 to 40 °C

Residual water height	50 mm
Max. grain size	7.5 mm

Art. no. 0993 702 85

P. Qty.: 1

Flat vacuum GDR

Makes it easy to suck up water to a level of 2 mm.

Even the smallest puddles can be extracted

- Pump suitable for prolonged use at low water level and ,sip mode'
- Fail-safe operation under the toughest conditions and over long periods of time
- No overheating of the motor



Max. feed quantity	240 l/min
Max. delivery height	11 m
Nominal voltage	230 V/AC
Nominal current	2.9 A
Motor output	0.4 kW
Weight of machine	13 kg
Connection thread	1 inch
Male thread	25.4 mm
Connection coupling	Storz C
Cable length	10 m
Min./max. temperature conditions	0 to 40 °C
Residual water height	2 mm
Max. grain size	3 mm

Art. no. 0993 702 95

P. Qty.: 1

Tying rope

For short-term securing and lashing of light loads

- Four-strand
- Bundled
- With clip
- Soft and flexible



Length	250 cm
Diameter (Ø)	8 mm
Max. loading weight	300 kg
Material	Hemp

Art. no. 0695 944 01

P. Qty.: 10

Scaffolding rope

Rot resistant, UV stabilised scaffolding weave for short-term securing and lashing of light loads.

- Four-strand
- Bundled
- With clip
- Soft and flexible
- Heat-resistant up to approx. 70°C



Length	250 cm
Diameter (Ø)	8 mm
Max. loading weight	550 kg
Material	PP - Polypropylene

Art. no. 0695 944 02

P. Qty.: 10



Vapour retarder WÜTOP® DB 2

Vapour-permeable, moisture-regulating, airtight and easy-to-install vapour retarder for interior renovations and attic conversions. To be used in conjunction with vapour-permeable underlay membranes and roof protection films

- Durable and tear-resistant thanks to embedded mesh fabric
- Prevents heat loss caused by unnecessary airflow
- Prevents moisture penetration of internal heat insulation and, therefore, the impairment of the insulating effect

DIN EN 13984

Coating weight per m ²	116 g
Length of roll	50 m

Roll width	Number of rolls per pallet	Width	Art. no.	P. Qty.
1.5 m	30 PCS	1.5 m	0681 000 145	75
1.5 m	46 PCS	1.5 m	0681 000 004	75
3 m	30 PCS	3 m	0681 000 144	150

WÜTOP® vapour retarder DB 20

Extremely resistant and vapour-permeable vapour retarder.

- Vapour-permeable, airtight vapour retarder that is particularly easy to install
- For interior renovations and attic conversions
- Extreme durability, tear resistance and puncture resistance.
- Prevents moisture penetration of internal heat insulation
- Three-ply vapour retarder with fabric reinforcement
- Environmentally friendly
- Universal use
- Saves time and money



Design	With fabric mesh
Coating weight per m ²	130 g
Length of roll	50 m
Material	Polyethylen/HDPE/PP Polypropylen

Roll width	Area	Number of rolls per pallet	Width	Art. no.	P. Qty.
1.5 m	75 m ²	50 PCS	1.5 m	0681 000 267	75
3 m	150 m ²	25 PCS	3 m	0681 000 264	150

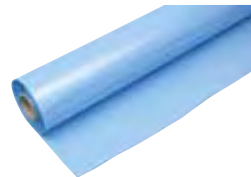


PE vapour barrier

PE vapour retarder/vapour barrier for use with screed.

Fire protection class E (formerly B2)

Coating weight per m ²	188 g
Length of roll	25 m
Roll width	1 m
Area	100 m ²
Number of rolls per pallet	46 PCS
Material	PE - Polyethylene
Width	4 m



Art. no. 0681 000 165

P. Qty.: 100



This vapour retarder is not stabilised against UV rays. This must be taken into consideration during storage, processing and while in use. When bonding the joints and connections, all grease, stresses and dust must be removed from the adhesive surfaces (e.g. with art. no.0899800880).

For production reasons, deposits such as release agents may be found on the PE vapour retarders.

Vapour retarder WÜTOP® DB 20 renovation 2SK

This vapour retarder can be applied to structures as both a sarking membrane and a freely suspended vapour retarder.



Design	With self-adhesive strips
Coating weight per m ²	170 g
Length of roll	50 m
Roll width	1.5 m
Area	75 m ²
Number of rolls per pallet	20 PCS
Material	PP - Polypropylene
Width	1.5 m

Art. no. 0681 000 270

P. Qty.: 75



Moisture-variable vapour retarder WÜTOP® Vario SD

2-layer vapour retarder made from moisture-variable polyamide with stabilising PP fleece

For universal use

Saves time and money



Coating weight per m ²	85 g
Length of roll	50 m
Roll width	1.5 m
Area	75 m ²
Number of rolls per pallet	50 PCS
Width	1.5 m

Art. no. 0681 000 148

P. Qty.: 75



Please refer to the current ZVDH [German Central Association of the Roofing Trade] directives and instructions for laying this product.

Not suitable for new buildings that have not yet dried out. An alternative option for an application of this type is WÜTOP Thermo Vario SD, art. no. 0681000147

Moisture-variable vapour retarder WÜTOP® Thermo Vario SD

Moisture-variable vapour retarder with the advantages of polyester technology

- WÜTOP Thermo Vario SD is a vapour-permeable, moisture-variable and airtight vapour retarder for the refurbishment of old buildings, interior renovations and loft conversions. When combined with WÜTOP® underlay membrane and roof protection films and EURASOL adhesive tapes, it can be used to create modern airtight and windproof structures that fulfil current energy saving regulations.
- Extremely resistant to weathering
- Can be used in roof, wall and floor applications



Coating weight per m ²	100 g
Length of roll	50 m
Roll width	1.5 m
Area	75 m ²
Number of rolls per pallet	30 PCS
Width	1.5 m

Art. no. 0681 000 147

P. Qty.: 75

DIN EN 13984



Please refer to the current ZVDH [German Central Association of the Roofing Trade] directives and instructions for laying this product.

Connecting membrane Wütop® Anschlussfix 2SK

Self-adhesive connecting membrane for purlins and wood frame construction

- Diversity
- Technology
- Safety
- Saves time and money



Coating weight per m ²	170 g
Length of roll	24 m
Roll width	0.75 m
Area	18 m ²
Number of rolls per pallet	30 PCS
Width	0.75 m

Art. no. 0681 000 149

P. Qty.: 18

Airtight interiors



WÜTOP® DS 100 vapour barrier

WÜTOP DS 100 is a vapour and wind barrier with high sd value

- Prevents heat loss caused by unnecessary airflow.
- Prevents moisture penetration of internal heat insulation and, therefore, the impairment of the insulating effect.
- This vapour barrier is reflective due to the metallic coating on the inside. This boosts the insulating effect and creates a more efficient vapour barrier.
- Due to the embedded mesh fabric, WÜTOP DS 100 is extremely resilient and tear-resistant compared with conventional construction films.



Type description	WÜTOP vapour barrier DS 100
Coating weight per m ²	156 g
Length of roll	50 m
Roll width	1.5 m
Min. air layer thickness equivalent to water-vapour diffusion	100 m
Foil thickness	12 µm
Material	PE - Polyethylene

Art. no. 0681 000 006

P. Qty.: 75



FD Alu 1500SK vapour barrier

The sealing sheet (Sd value ≥ 1500 m) is a high-quality, cold-applied self-adhesive air and vapour barrier that is very quick to process. It consists of an aluminium film combined with an extremely tear-proof mesh to which an acrylic adhesive and a protective film are applied across the entire underside.

The vapour barrier sheet is especially suitable for laying on steel profile sheets/trapezoidal sheets in flat sloping roof areas $>2^\circ$ angle of inclination.



Type description	Vapour retarder, flat roof
Coating weight per m ²	150 g
Length of roll	100 m
Roll width	1.5 m
Min. air layer thickness equivalent to water-vapour diffusion	1500 m

Continuation **FD Alu 1500SK vapour barrier**

Foil thickness	0.2 mm
Material	Aluminium

Art. no. 0838 000 103

P. Qty.: 150

The membrane fulfils the requirement for combustible vapour barriers according to DIN 18234-1 „Structural fire protection of large roofs, exposure to fire from below“ with a required heat value/fire value of < 10,500 kJ/m². According to the Industrial Construction Directive, this applies to roofs over 2500 m² with a supporting deck made from trapezoidal steel profiles.



Joint seal **WÜTOP® Flex**

One-sided, self-adhesive, profiled aluminium roll for durable and secure sealing of typical roof junctions.

- Ideal alternative to sheet metal and lead flashing
- Material adapts perfectly to roof surface
- Paint-coated surface allows optimum adaptation to the respective tile



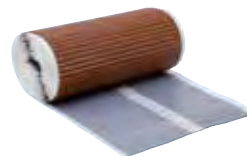
Length of roll	5 m
Roll width	280 mm
Length	10 m
Number of rolls	2 PCS

Colour	Art. no.	P. Qty.
Black	0681 018 032	10
Brown	0681 018 031	10
Copper	0681 018 033	10
Grey	0681 018 035	10
Oxide red	0681 018 036	10
Red	0681 018 030	10

Joint seal **WÜTOP® Flex-Plus**

One-sided, self-adhesive, profiled aluminium roll for durable and secure sealing of typical roof junctions. Due to the special embossing, WÜTOP Flex-Plus can be perfectly adapted to all shapes and curvatures.

- Ideal alternative to sheet metal and lead flashing
- Material adapts perfectly to roof surface
- Paint-coated surface allows optimum adaptation to the respective tile



Length of roll	5 m
Roll width	280 mm
Length	10 m
Number of rolls	2 PCS

Colour	Art. no.	P. Qty.
Black	0681 018 042	10
Brown	0681 018 041	10
Grey	0681 018 045	10
Oxide red	0681 018 046	10
Red	0681 018 040	10

Joint seal Dachflex 3D

Three-dimensional Dachflex adhesive strips produced from aluminium (or copper) and butyl for complex connection work on rising building elements such as chimneys and roofs.



- Consists of weather and UV-resistant aluminium foil that has a complete butyl adhesive layer
- Aluminium flanged approx. 5 mm at the edges to avoid injuries during use
- Adheres to almost all surfaces
- Covered with a siliconised plastic film, split into two

Length of roll	5 m
Roll width	280 mm
Length	10 m
Number of rolls	2 PCS

Colour	Art. no.	P. Qty.
Black	0681 018 052	10
Brown	0681 018 051	10
Red	0681 018 050	10

Please store product laying flat in a cool, dry location (under 30°C).

Valley sealing strips

For permanent seals between valley seals and roofing tiles

- For permanent seals between valley seals and roofing tiles
- Protects against driving rain and blowing snow



Colour	Black
Length	1000 mm
Width	60 mm
Height	30 mm

Art. no. 0681 004 3

P. Qty.: 200

Outlet vent connection

One part for diameters from 90 mm to 150 mm

Art. no. 0681 001 161

P. Qty.: 30



STAMISOL



Cable conduit connection

For producing cost-effective joint detailing (cable conduit d=15 mm) with Stamisol roof or façade membranes.

Min. diameter	15 mm
Max. diameter	22 mm
Length	160 mm
Width	160 mm



STAMISOL

Art. no. 0681 001 166

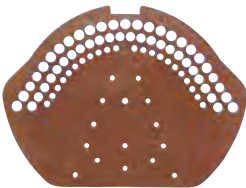
P. Qty.: 5/50



Ridge end cap

Ventilated end piece on dry ridge and hip

- Provides the necessary ventilation and enhances the appearance of the ridge.
- Matching ridge end cap for an appealing finish on dry ridge and burrs.



Material	PP - Polypropylene
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Colour	Art. no.	P. Qty.
Black	0681 011 250	25
Brick red	0681 011 150	25
Brown	0681 011 50	25
Dark red	0681 011 252	25
Grey	0681 011 251	25

WÜTOP® ridge and hip roll Uni-Roll

Universal ridge and hip roll for almost all conventional concrete tiles and clay tiles

- UV-stabilised and non-rotting PVC with aluminium sealing strips along sides
- Rounded edges prevent hand injuries
- Extremely flexible and easy to install
- Butyl rubber with excellent adhesive strength
- Ventilation cross-section in line with DIN 4108: approx. 160 cm², sufficient for approx. 16 m rafter length.



Length of roll	10 m
Roll width	300 mm
Number of rolls	2 PCS
Ventilation cross section	160 cm ²

Colour	Art. no.	P. Qty.
Anthracite	0681 000 083	20
Brick red	0681 000 081	20
Brown	0681 000 082	20

Conduct your own adhesion tests on tiles with thick silicone coatings

WÜTOP® ridge and hip roll Roll ridge

Butyl rubber strips adhere excellently to clay, concrete and tile

- WÜTOP® roll ridge can be installed quickly and easily
- It offers absolute UV protection and is not affected by ozone and other environmental influences
- The WÜTOP roll ridge adhesive system is activated by removing the cover film



Length of roll	10 m
Number of rolls	2 PCS
Ventilation cross section	210 cm ²
Length	20 m

Colour	Roll width	Art. no.	P. Qty.
Anthracite	295 mm	0681 000 013	20
Anthracite	360 mm	0681 000 033	20
Dark brown	295 mm	0681 000 012	20
Dark brown	360 mm	0681 000 032	20
Red	295 mm	0681 000 011	20
Red	360 mm	0681 000 031	20

WÜTOP® ridge and hip roll DV ridge

Universal applications for inlet and outlet ventilation of all pitched roof structures with non-flammable centre segment



- The middle, natural/fibreglass mixed fabric is UV-stable (at least 5 years) and non-flammable (flammability rating A2)
- Fire behaviour of aluminium B2 - flame retardant
- The tear-resistant middle section offers a high degree of protection against blown snow, insects and splash water ingress

Roll width	310 mm
Ventilation cross section	195 cm ²
Min./max. processing temperature	5 to 90 °C
Length	20 m

Colour	Length of roll	Number of rolls	Art. no.	P. Qty.
Anthracite	5 m	4 PCS	0681 000 132	20
Anthracite	10 m	2 PCS	0681 000 127	20
Brick red	5 m	4 PCS	0681 000 130	20
Brick red	10 m	2 PCS	0681 000 129	20
Brown	5 m	4 PCS	0681 000 131	20
Brown	10 m	2 PCS	0681 000 128	20

Tested at the Materialprüfungsamt Nordrhein-Westfalen (North Rhine-Westphalia materials testing agency); fire behaviour verification report no. 230007467-4



Conduct your own adhesion tests on tiles with thick silicone coatings

WÜTOP ridge and hip, strong

Universal system for almost all concrete and clay roof tiles

- Can be processed quickly and easily
- Extremely robust due to bonded and sewn connection between the geotextile and aluminium
- The adhesive system is activated by removing the cover film



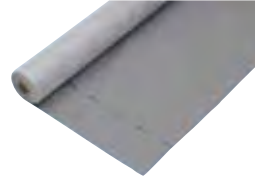
Length of roll	5 m
Number of rolls	4 PCS
Ventilation cross section	170 cm ²
Building material class/conditions	B2 - Normally inflammable/in accordance with DIN 4102
Min./max. processing temperature	5 to 40 °C
Building material class conditions	in accordance with DIN 4102
Length	20 m

Colour	Roll width	Art. no.	P. Qty.
Anthracite	320 mm	0681 000 421	20
Anthracite	390 mm	0681 000 424	20
Brown	320 mm	0681 000 423	20
Brown	390 mm	0681 000 426	20
Red	320 mm	0681 000 422	20
Red	390 mm	0681 000 425	20

Underlay/roof protection film WÜTOP® 95

Lightweight, pale, vapour-permeable underlay membrane and roof protection film for pitched roofs

- PP top fleece protects the membrane from damage and reduces the risk of slipping
- Fire behaviour EN-13501-1 – class E
- Normally inflammable DIN 4102 – class B2
- Not suitable for slate roofs
- Fulfils the requirements of the German Central Association of the Roofing Trade product data sheet



Design	Without self-adhesive strips
Coating weight per m ²	95 g
Length of roll	50 m
Roll width	1.5 m
Area	75 m ²
Number of rolls per pallet	20 PCS
Material	PP - Polypropylene

Art. no. 0681 001 015

P. Qty.: 75

DIN EN 13859-1



Underlay membrane and roof protection film Wütop® Trio Plus 2SK

The robust roof protection film in 2SK design.

Durability

A grammage of 195 g/m² and high tear strength make WÜTOP Trio Plus incredibly durable and robust

Technology

Three-layer, polypropylene-based roof protection film with monolithic functional membrane

Safety

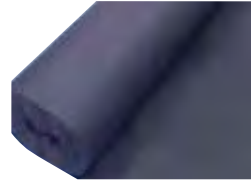
PP top fleece reduces the risk of slipping and the membrane inside is protected thanks to its three-layer structure

Cost and time savings

Easy and fast installation thanks to integrated 2SK adhesive strips (single-sided fingerlift).

Especially for slate roofs

Suitable as temporary roofing for slate roofs according to German Central Association of the Roofing Trade



Design	With self-adhesive strips
Coating weight per m ²	195 g
Length of roll	50 m
Roll width	1.5 m
Area	75 m ²
Number of rolls per pallet	20 PCS
Material	PP - Polypropylene

Art. no. 0681 001 085

P. Qty.: 75

DIN EN 13859-1

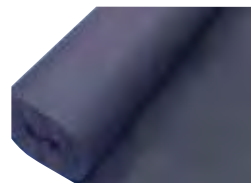


Please refer to the current ZVDH [German Central Association of the Roofing Trade] directives and instructions for laying this product

Underlay membrane and roof protection film WÜTOP Trio 2SK

All-round roof protection film

- 3-layer, polypropylene-based roof protection film with monolithic functional membrane
- PP top fleece reduces the risk of slipping and protects the membrane inside thanks to its 3-ply structure
- Easy and fast installation thanks to integrated adhesive strips (SK and 2SK)



Design	With self-adhesive strips
Coating weight per m ²	145 g
Length of roll	50 m
Roll width	1.5 m

Area	75 m ²
Number of rolls per pallet	20 PCS
Material	PP - Polypropylene

Art. no. 0681 001 026

P. Qty.: 75

DIN EN 13859-1



- Please refer to the current ZVDH [German Central Association of the Roofing Trade] directives and instructions for laying this product.
- Please refer to the relevant technical data sheet for more information on the use of WÜTOP Trio 2SK as an airtight layer.

Underlay membrane and roof protection film WÜTOP® Trio

All-round roof protection film

- Available in 3 designs (without adhesive strip, with adhesive strip and with two adhesive strips).
- 3-layer, polypropylene-based roof protection film with monolithic functional membrane.
- PP top fleece reduces the risk of slipping and protects the membrane inside thanks to its 3-ply structure.



Design	Without self-adhesive strips
Coating weight per m ²	145 g
Length of roll	50 m
Roll width	1.5 m
Area	75 m ²
Number of rolls per pallet	20 PCS
Material	PP - Polypropylene

Art. no. 0681 001 001

P. Qty.: 75

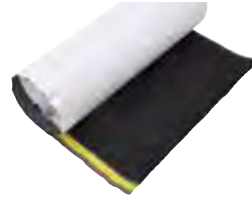
DIN EN 13859-1



Please refer to the current German Central Association of the Roofing Trade directives and instructions for laying this product.

Separating layer WÜTOP® Metall SK

WÜTOP Metall SK is a vapour-permeable, elastic and self-adhesive separating layer for non-self-supporting metal cladding.



Safety

- The laminated, approx. 8 mm thick nonwoven top layer reliably protects the membrane against corrosion and significantly reduces annoying drumming caused by rain or hail.
- The sd value of approx. 0.04 allows residual moisture present in the rafters or formwork to be released to the outside in a controlled manner.
- The adhesive strips are used to bond overlaps.

Design	With double-sided self-adhesive strips
Coating weight per m ²	450 g
Length of roll	24 m
Roll width	1.5 m
Area	36 m ²
Material	PP - Polypropylene

Art. no. 0681 001 072

P. Qty.: 36



Please refer to the current German Central Association of the Roofing Trade directives and instructions for laying this product

WÜTOP® underlay membrane and roof protection film

Basic roof protection film for ventilated and non-ventilated pitched roofs



- 3-layer, vapour-permeable, polypropylene roof underlay with a microporous membrane and double-sided adhesive strip
- 3-ply structure protects the internal membrane
- Easy and fast installation thanks to integrated adhesive strips

Design	Without self-adhesive strips
Coating weight per m ²	136 g
Length of roll	50 m
Roll width	3 m
Area	150 m ²
Number of rolls per pallet	20 PCS
Material	PP - Polypropylene

Art. no. 0681 001 087

P. Qty.: 150

DIN EN 13859-1

Windproof in external areas. Suitable for requirements classes 3 - 6 according to the German Central Association of the Roofing Trade

Certified resistance to driving rain

Meets the requirements according to the German Central Association of the Roofing Trade product data sheet for class UDB-A/USB-A



Please refer to the current ZVDH [German Central Association of the Roofing Trade] directives and instructions for laying this product.

Underlay membrane and roof protection film STAMISOL DW

Exceptionally durable membrane for demanding applications and extreme weather conditions on low-gradient pitched roofs $\geq 5^\circ$ or arched roofs

Extremely robust and durable

- Exceptionally long service life under all climatic conditions
- Lasting UV resistance and extremely high resistance to heat and moisture

Compression-resistant and walkable

Suitable for emergency roofing

Can be combined

Regulating



STAMISOL
DW

Coating weight per m ²	380 g
Length of roll	26 m
Roll width	2.5 m
Area	65 m ²
Material	Polyester fleece

Design	Number of rolls per pallet	Art. no.	P. Qty.
Without self-adhesive strips	25 PCS	0681 001 110	1625
With self-adhesive strips	45 PCS	0681 001 149	65
With self-adhesive strips	45 PCS	0681 001 150	65

ETA-16/0986



Stamisol roof protection films and façade membranes must only be combined with accessory products from the Stamisol system!

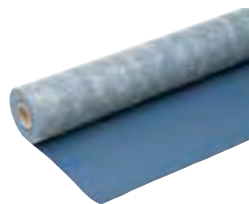
The mechanical properties specified in the product information are mean values with a tolerance of $\pm 10\%$.

*** Temperature resistance according to requirements of system warranty!**

Underlay membrane and roof protection film STAMISOL ECO

Reliable and long-lasting membrane for demanding applications on low-gradient pitched roofs $\geq 15^\circ$

- Robust and durable
- Compression-resistant and walkable
- Suitable for emergency roofing
- Can be combined
- Regulating



STAMISOL
ECO

Coating weight per m ²	335 g
Length of roll	26 m
Roll width	2.5 m
Area	65 m ²
Material	Polyester fleece

Design	Number of rolls per pallet	Art. no.	P. Qty.
Without self-adhesive strips	25 PCS	0681 001 111	1625
With self-adhesive strips	53 PCS	0681 001 151	65

ETA-16/0986



Stamisol roof protection films and façade membranes must only be combined with accessory products from the Stamisol system!

The mechanical properties specified in the product information are mean values with a tolerance of $\pm 10\%$.

*** Temperature resistance according to requirements of system warranty!**

Roof protection film STAMISOL PACK 500

Weldable and robust membrane with exceptional mechanical strength for low-gradient pitched roofs or arched roofs

- Robust and durable
- Compression-resistant and walkable
- Weldable and bondable
- 100% recyclable
- Also suitable for pre-assembly



STAMISOL
PACK 500

Design	Without self-adhesive strips
Coating weight per m ²	520 g
Length of roll	25 m
Roll width	2.6 m
Area	65 m ²
Number of rolls per pallet	25 PCS
Material	PVC - Polyvinyl chloride

Art. no. 0681 001 152

P. Qty.: 65

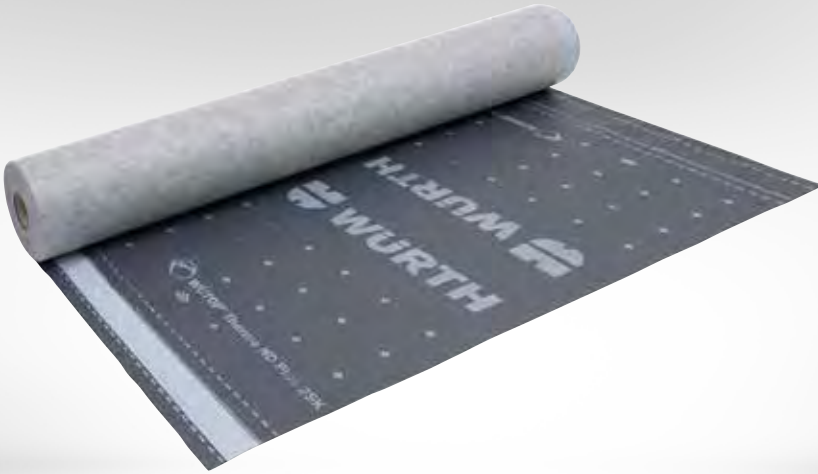
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Stamisol roof protection films and façade membranes must only be combined with accessory products from the Stamisol system!

The mechanical properties specified in the product information are mean values with a tolerance of $\pm 10\%$.

*** Temperature resistance according to requirements of system warranty!**



Underlay membrane and roof protection film WÜTOP® Thermo ND Plus

The perforation-proof polyester roof protection film

The WÜTOP Thermo ND Plus is a highly vapour-permeable polyester-based underlay membrane and roof protection film with a special coating. It is laid directly on the heat insulation or formwork of ventilated and non-ventilated pitched roofs.

- Secured against perforation in accordance with ETA-17/0206
Self-seals around nail punctures on pressure-resistant surfaces (tested at the Fraunhofer Institute for Building Physics).
- Safety
Polyester is an extremely weather-resistant material, offers excellent resistance against UV radiation, and is temperature resistant up to 120°C. The special coating is non-slip and can be securely bonded.
- Saves time and money
Self-seals around nail punctures saving huge amounts of time and money. Easy and fast installation thanks to integrated adhesive strips.

European Technical Assessment ETA-17/0206

UDB-A/USB-A

Meets the requirements specified in the German Central Association of the Roofing Trade product data sheet for class UDB-A/USB-A

Perforation-proof in accordance with ETA-17/0206

In accordance with the Technical University of Berlin test certificate and the Fraunhofer Institute for Building Physics test reports no. P-06-186-2015 and P-06-187-2015 (each based on DIN EN 13111; 2001-08), the product is classified as perforation-proof (nail-proof) and resistant to driving rain as defined by these test reports. Note: Both systems were tested for test reports P-6-186-2015 (without nail sealing tape) and P-6-187/2015 (with nail sealing tape). The Wütop Thermo ND Plus showed sufficient resistance to nail punctures. The following construction-related conditions must be met:

- Fasten counter battens (30/50) with min. 3.1 x 90 nails (smooth) or 2.8 x 80 (grooved)
- Install dry counter battens (S10, <20M%)
- No staples in the surface area of the strip; alternatively, these staple points can be sealed afterwards with a suitable adhesive tape

Design	With self-adhesive strips
Coating weight per m ²	230 g
Length of roll	50 m
Material	Polyester fleece

Roll width	Area	Number of rolls per pallet	Art. no.	P. Qty.
1.5 m	75 m ²	20 PCS	0681 001 037	75
3 m	150 m ²	10 PCS	0681 001 089	150

Underlay/roof protection membrane WÜTOP® Thermo L-SK

Non-slip polyester roofing membrane

- The surface of Wütop Thermo L-SK has a special non-slip TPU coating, making it cost-effective to lay on steep roofs
- Polyester is a highly weather-resistant material with good UV and temperature-resistance up to +120°C. This facilitates the creation of secure underlay/roof protection membranes



Design	With self-adhesive strips
Coating weight per m ²	210 g
Length of roll	50 m
Roll width	1.5 m
Area	75 m ²
Number of rolls per pallet	15 PCS
Material	Polyester fleece

Art. no. 0681 001 080

P. Qty.: 75

Please consider the legal instruction at the beginning of this chapter.

Meets the requirements of the German Central Association of the Roofing Trade product data sheet for class UDB-A/USB-A.



Suitable for requirement classes 3 - 6 according to the German Central Association of the Roofing Trade.

Airtight and windproof cuff WÜTOP®

For rapid and permanent sealing of openings

- Powerful-bond, solvent-free adhesive with maximum ageing resistance
- Optimum compensation of component movements and pressure relief on the seal area
- Maximum safety with blower door tests

Guaranteed airtight seal according to DIN 4108-7, OVE guideline R7 and current EnEV.



Moisture resistance	No
Ultraviolet resistance	Max. 6 months
Min. processing temperature	5 °C

Design	Min./max. diameter	Length	Width	Height	Art. no.	P. Qty.
1-fold	4-8 mm	150 mm	150 mm		0681 000 285	10
1-fold	8-12 mm	150 mm	150 mm		0681 000 286	10
1-fold	15-22 mm	150 mm	150 mm		0681 000 287	10
1-fold	75-90 mm	230 mm	230 mm		0681 000 288	4
1-fold	100-110 mm	230 mm	230 mm		0681 000 289	4
1-fold	125-135 mm	230 mm	230 mm		0681 000 290	4
Inside corner		75 mm	75 mm	75 mm	0681 000 171	12
Outside corner		75 mm	75 mm	75 mm	0681 000 170	12

Please consider the legal instruction at the beginning of this chapter.

The WÜTOP airtight and windproof collar is ideal for bonding on WÜTOP roof underlay membrane and roof protection films, WÜTOP vapour retarders and vapour barriers and WÜTOP façade membranes and has been tested on these films. For this reason, we recommend using WÜTOP films to achieve optimum results.

The application surface must be dry and free from grease, chips and dust. Porous and absorbent surfaces, such as concrete, plaster, soft particle boards etc. must be pretreated with EURASOL AdhesionPlus or primer spray.

The sleeve must be selected according to the duct dimensions to ensure permanent airtightness and strain relief.

Sleeves are talc-powdered ex works. In the case of deficient sliding properties, please use the talcum powder sachet included and apply to the inner grommet or pipe.

Wütop Fix renovation strip

Art. no. 0681 000 140

P. Qty.: 162



Façade membrane WÜTOP® Thermo Façade 2SK

With self-adhesive edge for wind and rainproof façade constructions. The UV-stabilised façade membrane is suitable for all back-ventilated façade structures with closed and open claddings with an open joint portion of max 40% of the façade surface and clear joint widths of up to 50 mm.



- Windproof and rainproof
- Protects the insulation against driving rain and snow
- Joint proportion up to 40% of the façade area
- Processing temperature +5°C to +50°C

Coating weight per m ²	220 g
Length of roll	50 m
Roll width	1.5 m
Area	75 m ²
Number of rolls per pallet	20 PCS
Material	Polyester fleece

Design	Art. no.	P. Qty.
Without self-adhesive strips	0681 001 061	75
With self-adhesive strips	0681 001 060	75

DIN EN 13859-2



- The applicable standards, technical regulations and application instructions must be observed during application.
- DIN 18516-1 and DIN 1055 parts 1-4 must be adhered to during installation

Façade membrane STAMISOL FA 2Tape

Coloured membrane for façades with decorative joints, an open joint portion of max. 50% of the façade surface and clear joint widths of up to 50 mm.



Robust and durable

Lasting resistance to UV radiation, heat and moisture

Protection

The membrane provides walls with lasting protection from water and can withstand extremely windy conditions

Aesthetically more pleasing

Gives open façade cladding more contrast and depth

Breathable

The membrane prevents the risk of condensation and aids heat insulation

STAMISOL
FA

Design	With self-adhesive strips
Coating weight per m ²	290 g
Length of roll	26 m

Continuation **Façade membrane STAMISOL FA 2Tape**

Roll width	2.5 m
Area	65 m ²
Number of rolls per pallet	40 PCS
Material	Polyester fleece

Art. no. 0681 001 153

P. Qty.: 65



Stamisol roof protection films and façade membranes must only be combined with accessory products from the Stamisol system!

The mechanical properties specified in the product information are mean values with a tolerance of $\pm 10\%$.

Façade membrane STAMISOL FI 2Tape

Black membrane for closed or slightly open façades up to max. 15 mm

Robust and durable

Extremely resistant to UV radiation, heat and moisture

High degree of fire safety

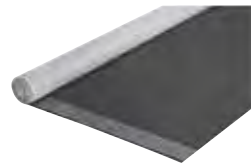
Complies with EN 13501-1

Protection

The membrane provides walls with lasting protection from water and wind

Breathable

The membrane prevents the risk of condensation and aids heat insulation



STAMISOL
FI

Design	With self-adhesive strips
Coating weight per m ²	145 g
Length of roll	40 m
Roll width	2.5 m
Area	100 m ²
Number of rolls per pallet	16 PCS
Material	Polyester fleece

Art. no. 0681 001 102

P. Qty.: 100



Stamisol roof protection films and façade membranes must only be combined with accessory products from the Stamisol system!

The mechanical properties specified in the product information are mean values with a tolerance of $\pm 10\%$.

Façade membrane STAMISOL COLOR

Façade membrane in various colours for aesthetically pleasing sealing of perforated façades up to an open joint portion of max. 70% of the façade surface and clear joint widths of up to 10 cm.

- Robust and durable
- Aesthetic improvement
- Efficient heat insulation



STAMISOL
COLOR

Design	Without self-adhesive strips
Length of roll	26 m
Roll width	2.5 m
Area	65 m ²
Number of rolls per pallet	25 PCS
Material	Polyester fleece

Coating weight per m ²	Art. no.	P. Qty.
445 g	0681 001 180	65
445 g	0681 001 181	65
445 g	0681 001 182	65
445 g	0681 001 190	65
445 g	0681 001 191	65
445 g	0681 001 192	65
445 g	0681 001 194	65
445 g	0681 001 195	65
800 g	0681 001 179	65
800 g	0681 001 186	65
800 g	0681 001 188	65
800 g	0681 001 189	65
800 g	0681 001 196	65
800 g	0681 001 197	65
800 g	0681 001 198	65



The design must meet the „recognised codes of practice“.

Stamisol roof protection films and façade membranes must only be combined with accessory products from the Stamisol system.

Roof underlay strip WÜTOP Full Protection SK

Fully adhesive vapour-permeable water-protection membrane for use in ceilings, walls and roofs

- Suitable for use on ceilings, walls and roofs
- Can remain permanently in the structure



Design	With self-adhesive strips
Coating weight per m ²	230 g
Length of roll	30 m
Roll width	1.5 m

Continuation **Roof underlay strip WÜTOP Full Protection SK**

Area	45 m²
Number of rolls per pallet	20 PCS
Material	Polypropylene fleece

Art. no. 0681 001 103

P. Qty.: 45

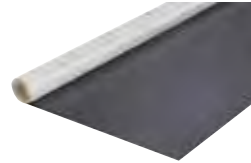
Façade membrane Stamisol Safe One

Non-combustible façade membrane in black, for use on façades with decorative joints, an open joint portion of max. 50% of the façade surface and clear joint widths of 50 mm

Non-combustible façade membrane Euro Class A2-s1,d0

Lasting resistance to UV radiation, heat and moisture

The membrane provides walls with lasting protection from water and can withstand extremely windy conditions



STAMISOL

Design	Without self-adhesive strips
Coating weight per m²	310 g
Length of roll	20 m
Roll width	265 cm
Area	53 m²
Number of rolls per pallet	25 PCS
Material	Fibre glass

Art. no. 0681 001 199

P. Qty.: 53

10-year Stamisol warranty



Stamisol façade membranes must only be combined with accessory products from the Stamisol Safe One system.

The mechanical properties specified in the product information are mean values with a tolerance of $\pm 10\%$.

Airtight and windproof cuff WÜTOP® Thermo

For openings in vapour retarders and roofing sheeting with high temperature requirements

- High thermal stability
- Ensures airtight sealing of openings
- Economic processing

Design	1-fold
Colour	White
Backing material	Tyvek®



Ultraviolet resistance	3 months
Min./max. temperature resistance	-30 to 120 °C
Min. processing temperature	5 °C
Min./max. processing temperature	5 to 40 °C

Min./max. diameter	Length	Width	Art. no.	P. Qty.
15-22 mm	150 mm	150 mm	0681 000 291	10
50-72 mm	230 mm	230 mm	0681 000 292	4
72-90 mm	230 mm	230 mm	0681 000 293	4
90-100 mm	320 mm	320 mm	0681 000 294	4
100-110 mm	320 mm	320 mm	0681 000 295	4
125-135 mm	320 mm	320 mm	0681 000 296	4
150-165 mm	350 mm	350 mm	0681 000 297	4

Vent and bird screen mesh

Vented cover for eaves or façades in accordance with DIN 4108

- Highly impact-resistant PP
- Light-resistant
- Weather-resistant
- Elliptical hole arrangement



Length of roll	5 m
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Colour	Length	Width	Number of rolls	Art. no.	P. Qty.
Black	120 m	80 mm	24 PCS	0681 007 80	24
Black	120 m	100 mm	24 PCS	0681 007 100	24
Black	240 m	50 mm	48 PCS	0681 007 50	48
Brick red	120 m	80 mm	24 PCS	0681 006 80	24
Brick red	120 m	100 mm	24 PCS	0681 006 100	24
Brick red	240 m	50 mm	48 PCS	0681 006 50	48
Brown	120 m	80 mm	24 PCS	0681 005 80	24
Brown	120 m	100 mm	24 PCS	0681 005 100	24
Brown	240 m	50 mm	48 PCS	0681 005 50	48
White	120 m	80 mm	24 PCS	0681 004 80	24
White	240 m	50 mm	48 PCS	0681 004 50	48

Vent and bird screen mesh

Vent and bird screen mesh with elliptical hole arrangement

- Highly impact-resistant PP
- Light-resistant
- Weather-resistant
- Elliptical hole arrangement

Length	60 m
Length of roll	60 m
Number of rolls	1 PCS



Continuation **Vent and bird screen mesh**

Colour	Width	Art. no.	P. Qty.
Black	50 mm	0681 017 50	60
Black	80 mm	0681 017 80	60
Black	100 mm	0681 017 100	60
Brick red	50 mm	0681 016 50	60
Brick red	80 mm	0681 016 80	60
Brick red	100 mm	0681 016 100	60
Brown	50 mm	0681 015 50	60
Brown	80 mm	0681 015 80	60
Brown	100 mm	0681 015 100	60
White	50 mm	0681 014 50	60
White	80 mm	0681 014 80	60
White	100 mm	0681 014 100	60

Ventilation and bird screen profile

- Angled profile with 30 mm unperforated leg. The other leg is perforated.
- Weather-resistant
- Highly impact-resistant PP
- Length per rod 2.5 m



Length	2500 mm
Material	PP - Polypropylene

Width 1	Colour	Art. no.	P. Qty.
30 mm	Black	0681 007 300	20
30 mm	Brick red	0681 007 30	20
30 mm	Brown	0681 007 3	20
30 mm	White	0681 007 301	20
50 mm	Black	0681 008 500	20
50 mm	Brick red	0681 008 50	20
50 mm	Brown	0681 008 5	20
50 mm	White	0681 008 501	20
70 mm	Black	0681 009 700	10
70 mm	Brick red	0681 009 70	10
70 mm	Brown	0681 009 7	10
70 mm	White	0681 009 701	10
90 mm	Black	0681 010 900	10
90 mm	Brick red	0681 010 90	10
90 mm	Brown	0681 010 9	10
90 mm	White	0681 010 901	10

Aluminium ventilation profile

- Prevents small animals from entering roof space
- Total length 2.50 m
- Both legs perforated



Length	100 m
Material	Aluminium

Width 1	Width 2	Colour	Art. no.	P. Qty.
10 mm	50 mm	Aluminium coloured	0681 003 016	40
10 mm	70 mm	Aluminium coloured	0681 003 017	40
10 mm	90 mm	Aluminium coloured	0681 003 018	40
30 mm	30 mm	Aluminium coloured	0681 003 000	40
30 mm	30 mm	Black	0681 003 007	40
30 mm	40 mm	Aluminium coloured	0681 003 006	40
30 mm	50 mm	Black	0681 003 008	40
30 mm	70 mm	Black	0681 003 009	40
50 mm	30 mm	Aluminium coloured	0681 003 001	40
60 mm	30 mm	Aluminium coloured	0681 003 004	40
70 mm	30 mm	Aluminium coloured	0681 003 002	40
80 mm	30 mm	Aluminium coloured	0681 003 005	40
90 mm	30 mm	Aluminium coloured	0681 003 003	40

Aluminium ventilation profile

- Prevents small animals from entering roof space
- Both legs perforated

Length	60 m
Material	Aluminium



Width 1	Width 2	Colour	Art. no.	P. Qty.
50 mm		Aluminium coloured	0681 003 010	60
80 mm		Aluminium coloured	0681 003 011	60
80 mm	0 mm	Brown, White	0681 003 071	60
80 mm	0 mm	Red, Black	0681 003 077	60
100 mm		Aluminium coloured	0681 003 012	60
100 mm	0 mm	Brown, White	0681 003 072	60
100 mm	0 mm	Red, Black	0681 003 078	60

Vario ridge and hip batten bracket

Installation using all conventional sizes of Ø 6 mm screws (minimum length: 80 mm)

- Continuously height-adjustable, universal ridge and hip batten bracket
- Economically rapid and easy installation and adjustment of ridge/hip battens
- Versatile applications using various screw lengths
- Higher pull-out strength than conventional batten brackets
- Material: high-strength, UV-stabilised and weather-resistant polyamide

Material	PA - Polyamide
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Continuation **Vario ridge and hip batten bracket**

Securing of lath thickness	Art. no.	P. Qty.
24 x 48 upright, 30 x 50 upright	0681 014 40	100
30 x 50 horizontal, 40 x 60 upright	0681 014 60	100

According to ZVDH (German Central Association of the Roofing Trade) guidelines, manufacturers must verify the rated loads of ridge/hip batten brackets. The fasteners used must also be able to absorb a force of 0.6 kN per metre perpendicular to the position of the ridge or hip. When combined with Würth Assy screws, the Vario ridge and hip batten bracket achieves a strength of 0.6 kN per fastening point with a screw-in depth of just 40 mm.

Ridge/hip nail

For fixing ridge and hip battens to the ridge rafter

- Ridge and hip nails are simply hammered in where the rafters form the ridge.
- Quick adjustment by simply hammering in

Material	Steel
Surface	Zinc plated



Length	Width of U-profile	Art. no.	P. Qty.
210 mm	50 mm	0681 013 210	50
210 mm	60 mm	0681 013 211	50
260 mm	50 mm	0681 013 260	50

Valley/hip clip for flat tiles

Universal stainless steel retaining clip for quick installation of cut pantiles in hip and valley areas.

Stainless steel retaining clip (material 1.4310) with integrated 500 mm stainless steel binding wire
Clips can be clipped or hammered on easily for efficient use

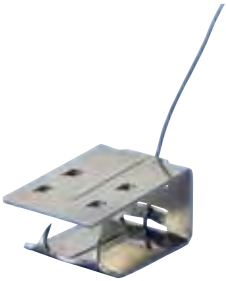
Eliminates complex, time-consuming and wasteful drilling

Material	Stainless steel A2, 1.4310
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Art. no. 0681 420 100

P. Qty.: 25

Due to the many different roof tile models and different rebate designs, always check the suitability of the retaining clip for the individual tile type using a sample.



Valley/hip clip for head rebate roof tiles

Universal stainless steel retaining clip for quick installation of cut pantiles in hip and valley areas

Stainless steel retaining clip (material 1.4310) with integrated stainless steel wire

Clips are easily clipped or hammered on for efficient use

Equipped with 500 mm stainless-steel binding wire

Material	Stainless steel A2, 1.4310
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Art. no. 0681 420 110

P. Qty.: 25

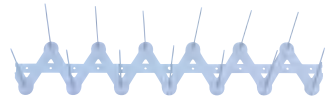
Due to the many different roof tile models and different rebate designs, always check the suitability of the retaining clip for the individual tile type using a sample.



Pigeon deterrent spike

Base material: UV-resistant plastic

- The special pigeon deterrent spikes efficiently prevent birds from landing on window sills, cornices, terraces, roofs, beams, projections and many others.
- The modules consist of a UV-resistant polycarbonate base plate and spring rods made from rustproof V4A stainless steel. The various modules can be combined with each other as desired.
- Selected materials
- Time factor
- Predetermined breaking points



Module length	33 cm
Material of the wire	Stainless steel
Material	Polycarbonate - PC

Number of rows	Min./max. protected area	Art. no.	P. Qty.
2 PCS	6-10 cm	0681 020 002	20
3 PCS	5-10.5 cm	0681 020 003	20
4 PCS	14-18 cm	0681 020 004	20
6 PCS	20-25 cm	0681 020 006	20

On wooden surfaces, we recommend mechanical attachment.

Combined spreader/spacer pipe one piece Octagon

Ready-made spacer between vertical formwork

Material	Polyolefin
Internal diameter	22 mm
Outer diameter	60 mm



Suitable for wall thickness	Length	Art. no.	P. Qty.
200 mm	200 mm	0519 171 020	100
240 mm	240 mm	0519 171 024	100
250 mm	250 mm	0519 171 025	100

Continuation **Combined spreader/spacer pipe one piece Octagon**

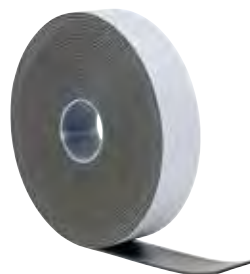
Suitable for wall thickness	Length	Art. no.	P. Qty.
300 mm	300 mm	0519 171 030	100
350 mm	350 mm	0519 171 035	100
365 mm	365 mm	0519 171 036	100

Nail and screw sealing tape

Self-adhesive tape for sealing nail and screw holes

- Made from closed-cell and medium-hard foam
- Available in two versions

Material	PVC - Polyvinyl chloride
Adhesive base	Acrylic
Colour	Black
Width	70 mm
Total thickness	4.5 mm
Length	15 m



STAMISOL

Art. no. 0875 850 172

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Nail and screw sealing

For increased requirements

Material	PVC - Polyvinyl chloride
Adhesive base	Acrylic



STAMISOL

Colour	Width	Total thickness	Length	Art. no.	P. Qty.
Black	50 mm	4 mm	50 mm	0875 850 170	1
Red	80 mm	6 mm	60 mm	0875 850 171	1

Please consider the legal instruction at the beginning of this chapter.



Adhesive STAMCOLL AS

Adhesive and sealant for bonding Stamisol overlaps and connecting to roofs and façades.

- Very good adhesion without primer on many substrates – even under water load
- Suitable for indoor and outdoor use
- Fast curing even with high layer thicknesses

Contents	310 ml
Chemical basis	MS hybrid polymer
Colour	Black
Min./max. curing time	0-0 s
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-40 to +90 °C
Shelf life from production	9 Month



STAMISOL

Art. no. 0893 700 130

P. Qty.: 1/20

Please consider the legal instruction at the beginning of this chapter.



Before using the adhesive/sealant, the user should ensure that the materials in the contact area (solid, liquid and gaseous) are compatible with the adhesive/sealant and do not damage or change them (for example discolour). For construction materials that are subsequently processed in the area of the adhesive/sealant, the user should check in advance that their ingredients or vapours cannot lead to any impairments or changes (e.g. discolouration) of the adhesive/sealant. Where appropriate, the user should consult the respective manufacturer of the construction materials.

Adhesive STAMCOLL N55

Adhesive for bonding Stamisol overlaps and connecting to roofs and façades.

For use with Stamisol ECO, DW, PACK 500, FI, FA, Effect, Color

Chemical basis	Nitrile natural rubber
Colour	Transparent
Min./max. curing time	3-7 d
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-40 to 80 °C
Shelf life from production	12 Month



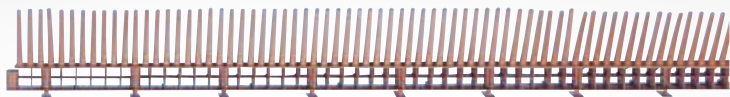
STAMISOL

Contents	Art. no.	P. Qty.
1.9 l	0893 700 131	4
5 l	0893 700 132	1

Please consider the legal instruction at the beginning of this chapter.

Continuation **Adhesive STAMCOLL N55**





Eaves ventilation strip with comb

Fast, secure attachment due to high stability of strip

- Elastic screen teeth
- For proper ventilation of space below roofing on eaves
- Non-rotting
- Prevents ingress of leaves and small animals

Width l	90 mm
Length	1000 mm
Material	PP- Polypropylene

Colour	Art. no.	P. Qty.
Anthracite	0681 011 102	50
Brick red	0681 011 100	50
Brown	0681 011 101	50

Eaves ventilation comb

For proper ventilation of level below roofing on eaves

- Elastic screen teeth
- Non-rotting
- Prevents ingress of leaves and small animals



Continuation **Eaves ventilation comb**

Length	1000 mm
Width	50 mm
Material	PP - Polypropylene

Colour	Design	Art. no.	P. Qty.
Black		0681 010 265	300
Black	With bar	0681 010 266	300
Brick red		0681 010 165	300
Brown		0681 010 65	300

Eaves ventilation strip without comb

Fast, secure attachment due to high stability of strip and locking clips



- Prevents small animals from entering
- Ensures optimum roof ventilation

Length	1000 mm
Material	PP - Polypropylene

Colour	Art. no.	P. Qty.
Anthracite	0681 011 112	100
Brick red	0681 011 110	100
Brown	0681 011 111	100

Joist hanger 2.0 mm

One-piece joist hanger with inner wings for connecting beams to posts in visible areas. Suitable for wood/wood, wood/concrete or wood/steel connections.

- Beams under uniaxial load can be connected to posts of the same width
- Wings angled inwards
- Sheet metal hot-dip galvanised on both sides (S250GD +Z275), approx. 20 µm thickness 2.0 mm in line with EN 10326:2004
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Thickness	2 mm
Depth of underside	80 mm
Material	Steel
Surface	Hot dip galvanized
Width of wing on nut	34 mm

Width x height	Number of D 5 mm holes in sub-carrier nJ + main carrier nH	Number of D 11 mm holes in sub-carrier nJ + main carrier nH	Number of D 13 mm holes in sub-carrier nJ/ main carrier nH	Weight	Art. no.	P. Qty.
70 x 125 mm	10 + 10 PCS	0 + 4 PCS		380 g	0681 078 125	40
80 x 120 mm	10 + 18 PCS		0 + 4 PCS	360 g	0681 089 120	40
100 x 140 mm	12 + 22 PCS		0 + 4 PCS	416 g	0681 109 140	25
120 x 160 mm	16 + 26 PCS		0 + 4 PCS	518 g	0681 110 160	25
140 x 180 mm	18 + 30 PCS		0 + 6 PCS	602 g	0681 110 180	20

Please consider the legal instruction at the beginning of this chapter.

European Technical Approval ETA-09/0021



Nail edge clearances in the post must be observed in line with EC5 when designing connections with biaxial loads!

The diameter of bolts/screws may only be max. 2 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Joist hanger 2.0 mm

Two-piece flexible joist hanger for intermediate size beams and/or for renovation work with varying wood widths. Wood/wood, wood/concrete or wood/steel connection options for special structures and renovation work. Ideal for subsequent reinforcement of existing structures with tapered cross-sections.

- Variable width adjustment for flexibility
- Wings angled outwards
- Sheet metal hot-dip galvanised on both sides (S250GD +Z275), approx. 20 µm thickness 2.0 mm in line with EN 10326:2004
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Thickness	2 mm
Number of D 11 mm holes in subcarrier nJ + main carrier nH	0 + 4 PCS
Depth of underside	80 mm
Material	Steel
Surface	Hot dip galvanized
Width of wing on nut	42 mm

Width x height	Number of D 5 mm holes in subcarrier nJ + main carrier nH	Weight	Art. no.	P. Qty.
30 x 100 mm	8 + 14 PCS	298 g	0681 030 100	25
30 x 150 mm	12 + 24 PCS	421 g	0681 030 150	25

European technical approval ETA-09/0021

Continuation Joist hanger 2.0 mm

The diameter of bolts/screws may only be max. 2 mm smaller than the diameter of the hole. The respective basic conditions of the applicable anchor approval must be observed.



Combination joist hanger 1.5 mm

Economical, lightweight, one-piece joist hanger (angled outwards) for load-bearing connection of timber joists to wood, concrete or steel. Ideal for standard cross-sections.

Reduced weight for easy handling

European Technical Approval ETA-08/0184

Thickness	1.5 mm
Depth of underside	70 mm
Material	Steel
Surface	Hot dip galvanized
Width of wing on nut	39 mm

Width x height	Number of D 5 mm holes in subcarrier nJ + main carrier nH	Number of D 11 mm holes in subcarrier nJ + main carrier nH	Weight	Art. no.	P. Qty.
60 x 100 mm	8 + 14 PCS	0 + 4 PCS	200 g	5390 060 100	50
60 x 120 mm	10 + 18 PCS	0 + 4 PCS	218 g	5390 060 120	40
60 x 130 mm	11 + 20 PCS	0 + 4 PCS	239 g	5390 060 130	40
60 x 160 mm	14 + 26 PCS	0 + 6 PCS	275 g	5390 060 160	25
60 x 190 mm	17 + 32 PCS	0 + 8 PCS	327 g	5390 060 190	25
70 x 125 mm	10 + 18 PCS	0 + 4 PCS	238 g	5390 070 125	25
80 x 120 mm	10 + 18 PCS	0 + 4 PCS	239 g	5390 080 120	40
80 x 140 mm	12 + 22 PCS	0 + 6 PCS	267 g	5390 080 140	25
80 x 150 mm	13 + 24 PCS	0 + 6 PCS	278 g	5390 080 150	25
80 x 180 mm	16 + 30 PCS	0 + 8 PCS	340 g	5390 080 180	25

Continuation **Combination joist hanger 1.5 mm**

Width x height	Number of D 5 mm holes in subcarrier nJ + main carrier nH	Number of D 11 mm holes in subcarrier nJ + main carrier nH	Weight	Art. no.	P. Qty.
80 x 210 mm	19 + 36 PCS	0 + 8 PCS	393 g	5390 080 210	20
100 x 140 mm	12 + 22 PCS	0 + 6 PCS	325 g	5390 100 140	25
100 x 160 mm	14 + 26 PCS	0 + 6 PCS	331 g	5390 100 160	25
100 x 170 mm	15 + 28 PCS	0 + 8 PCS	356 g	5390 100 170	25
100 x 200 mm	18 + 34 PCS	0 + 8 PCS	387 g	5390 100 200	20
120 x 160 mm	14 + 26 PCS	0 + 6 PCS	329 g	5390 120 160	25
120 x 180 mm	16 + 30 PCS	0 + 8 PCS	376 g	5390 120 180	20
120 x 190 mm	17 + 32 PCS	0 + 8 PCS	370 g	5390 120 190	20
140 x 180 mm	16 + 30 PCS	0 + 8 PCS	397 g	5390 140 180	20

Joist hanger Combination 2.5 mm

Heavy-duty version for large joist cross-sections

- Robust one-piece joist hanger (angled outwards) for load-bearing connection of timber joists to wood, concrete or steel.
- High load capacity
- Wings angled outwards
- Sheet metal hot-dip galvanised on both sides (S250GD +Z275) approx. 20 µm in line with EN 10326:2004
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Thickness	2.5 mm
Number of D 13 mm holes in subcarrier nJ/main carrier nH	0 + 6 PCS
Depth of underside	61 mm
Material	Aluzinc structural steel, 1.0242
Surface	Hot dip galvanized
Width of wing on nut	41 mm

Width x height	Number of D 5 mm holes in subcarrier nJ + main carrier nH	Weight	Art. no.	P. Qty.
160 x 200 mm	38 + 22 PCS	961 g	0681 160 200	15
180 x 220 mm	42 + 26 PCS	1064 g	0681 180 220	10
200 x 240 mm	46 + 30 PCS	1167 g	0681 200 240	10
220 x 260 mm	32 + 50 PCS	1202 g	0681 220 260	10

European Technical Approval ETA-08/0264



The diameter of bolts/screws may only be max. 2 mm smaller than the diameter of the hole.
The respective basic conditions of the applicable anchor approval must be observed.

Joist bracket

Joist brackets are ideal for concealed load-bearing wood/wood connections of e.g. secondary beams to main beams or posts. Connections in visible areas can also be sloping.

- Easy on-site installation thanks to mounting slot in joist bracket blade
- Sheet metal hot-dip galvanised on both sides (S250GD +Z275 (approx. 20 µm)), thickness 3.0 mm in line with EN 10327:2004
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Width x height x depth	Min. joist hanger height	Hole diameter in subcarrier nJ/main carrier nH	Number of holes in subcarrier nJ/main carrier nH	Weight	Art. no.	P. Qty.
46 x 90 x 106 mm	100 mm	8.5/5 mm	3/8 PCS	470 g	0681 350 90	25
46 x 120 x 106 mm	160 mm	13/5 mm	3/11 PCS	640 g	0681 350 120	25
46 x 160 x 106 mm	200 mm	13/5 mm	4/15 PCS	866 g	0681 350 160	25
46 x 200 x 106 mm	240 mm	13/5 mm	5/19 PCS	1099 g	0681 350 200	15
46 x 240 x 106 mm	280 mm	13/5 mm	6/22 PCS	1301 g	0681 350 240	15

Please consider the legal instruction at the beginning of this chapter.

ETA-09/0105



The secondary beam can be mounted on the joist bracket attached to the main beam after the first dowel pin has been driven in to the uppermost hole in the secondary beam. To do this, the secondary beam with the uppermost dowel pin mounted in the slot area is hooked into the blade area of the joist bracket from above.

The secondary beam should be approx. 40 mm taller than the joist bracket. If the bracket is 90 mm in height, a secondary beam 100 mm in height can be used.

The diameter of the dowel pin may only be max. 0.5 mm (d = 8 mm) or 1.0 mm (d = 12 mm) smaller than the diameter of the hole.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Flat steel concrete anchor

Flat steel concrete anchors are ideal for simple tensile connections of pillars, posts and thresholds in timber structures. The tension anchor is embedded in concrete in the substrate.

- Versatile applications for simple tensile connections
- Easy height adjustment on uneven substrates
- Sheet metal hot-dip galvanised on both sides (S250GD + Z275 [approx. 20 µm]), thickness 4 mm in line with EN 10346:2009
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Hole diameter in subcarrier nJ/ main carrier nH 2	5/5 + 13 mm
Distance between support and centre of hole	24.5 mm

Width x height x depth	Thickness	Number of D 5 mm holes in subcarrier nJ/ number of D 5 mm + D 13 mm holes in main carrier nH	Weight	Art. no.	P. Qty.
40 x 207 x 42 mm	2 mm	15/4 + 1 PCS	148 g	0681 200 040	25
40 x 207 x 42 mm	4 mm	15/4 + 1 PCS	276 g	0681 200 940	25
40 x 307 x 42 mm	2 mm	23/4 + 1 PCS	207 g	0681 300 040	25
40 x 307 x 42 mm	4 mm	23/4 + 1 PCS	407 g	0681 300 940	25
40 x 407 x 42 mm	2 mm	31/4 + 1 PCS	240 g	0681 400 040	25
40 x 407 x 42 mm	4 mm	31/4 + 1 PCS	527 g	0681 400 940	25

Please consider the legal instruction at the beginning of this chapter.

European Technical Approval ETA 14/0274



Distortion-free load application is expected.

The holes should be nailed starting from the end of the flat steel concrete anchor.

At least 4 should be used based on the structural analysis. The nails used must be of a diameter that fits the bore holes in the flat steel concrete anchor.

Rough edges are not permitted. The entire surface of the flat steel concrete anchor must lie against the wood.

The structural components must be thicker than the penetration depth of the nails.

The respective basic conditions of the applicable anchor approval must be observed

Steel failure under bending stress is decisive for flat steel concrete anchors that are fixed into concrete using 43 mm x 4 mm metal dowel pins and washers in line with EN ISO 7094.

Steel failure under tensile stress is decisive for embedded flat steel concrete anchors.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Concrete angle bracket Type P

Angle connector type P can be used to attach wood components, windows and façade elements to concrete. Installation tolerances can be compensated for using the slot in the base.

- Robust, solid design
- Sheet metal hot-dip galvanised on both sides (S235 + Z275 (approx. 20 µm))
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Diameter of hole (Ø)	14 mm
Distance between wall support and elongated hole (C)	22.5 mm

Width x height x depth	Thickness	Distance between support and centre of hole (A)	Weight	Art. no.	P. Qty.
50 x 75 x 75 mm	6 mm	50 mm	305 g	0681 630 075	25
60 x 100 x 75 mm	6 mm	80 mm	428 g	0681 630 100	25
60 x 150 x 75 mm	8 mm	125 mm	766 g	0681 630 150	25

European Technical Approval ETA-09/217



The diameter of bolts/screws/anchors may only be max. 2 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

EH anchor

Iron-wood anchors are used for attaching/securing against wind suction of wooden beams, battens or purlins on steel T-beams. They must be attached on both sides as position retainers to prevent disengagement and nailed in place beginning from the steel joists.

- Tensile strength $R_m \geq 330 \text{ N/mm}^2$
- Breaking elongation $A_{80} \geq 19\%$
- Sheet metal hot-dip galvanised on both sides (S250GD + Z275 (approx. 20 µm))
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Thickness	4 mm
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Length x width x mounting height x mounting depth	Number of D 5 mm holes	Number of D 13 mm holes	Weight	Art. no.	P. Qty.
135 x 40 x 30 x 15 mm	6 PCS		147 g	0681 135 40	100
175 x 40 x 30 x 15 mm	10 PCS	2 PCS	181 g	0681 175 40	50

CE marking in line with EN 14545:2009-02

Continuation **EH anchor**



The minimum timber width depends on the selected fasteners. Nail, screw and bolt edge clearance must be adhered to in line with EC5 or the corresponding approval. Diameter of bolts/screws may only be max. 2 mm smaller than the diameter of the hole.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Heavy-duty flat connector

Robust flat connector for narrow wood/wood joint connections for transferring high loads (e.g. timber frame or truss connections)

- High load-bearing capacity
- Narrow design
- Tensile strength $R_m \geq 295 \text{ N/mm}^2$
- Breaking elongation $A_{80} \geq 22\%$
- Sheet metal hot-dip galvanised on both sides (DX51D + Z275 [approx. 20 μm]) in line with EN 10346:2009
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Material	Steel
Surface	Hot dip galvanized

Width x length	Thickness	Number of D 5 mm holes	Number of D 11 mm holes	Number of D 13 mm holes	Art. no.	P. Qty.
35 mm x 100 mm	2.5 mm	8 PCS	2 PCS		0681 100 035	100
40 mm x 180 mm	3 mm	16 PCS	4 PCS		0681 180 040	50
55 mm x 140 mm	2.5 mm	20 PCS		2 PCS	0681 140 055	50

CE marking in line with EN 14545:2009-02



Can be used to secure against uplift loads in combination with threaded rods, bolts or ASSY 3.0 Combi screws. 2 perforated plates and identical wood widths must be used for each connection.

Allowance must be made for eccentricity in one-sided connections.

Nail edge clearances and bolt intervals must be observed in line with EC5.

The nails must be arranged symmetrically with the axis of the centrally applied force.

Diameter of bolts, screws and dowel pins may only be max. 2 mm smaller than the diameter of the hole.

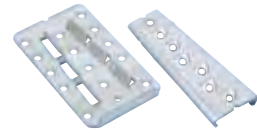
The respective basic conditions of the applicable anchor approval must be observed.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Concealed beam connector

This innovative concealed beam connector with high load-bearing capacity and low installation depth is ideal for concealed wood/wood connections (visible areas) of secondary beams to main beams or posts



- High load-bearing capacity coupled with low installation depth (14 mm)
- Conical, swallow tail-style geometry for self-centring and gap-free contact pressure
- A high level of pre-fabrication can be conducted in the workshop, quick and easy on-site installation

Installation depth	14 mm
Diameter of hole	5.5 mm
Approval	ETA-09/0301
Thickness	3 mm
Material	Steel
Material designation	S250GD
Surface	Hot dip galvanized

Width x height	Min. beam cross-section of subcarrier	Number of holes in subcarrier nJ + main carrier nH	Weight	Art. no.	P. Qty.
70 x 90 mm	95 x 140 mm	5 + 11 PCS	244 g	0681 352 090	10
70 x 125 mm	95 x 180 mm	7 + 14 PCS	350 g	0681 352 125	10
70 x 150 mm	95 x 200 mm	8 + 15 PCS	423 g	0681 352 150	10
70 x 190 mm	95 x 240 mm	10 + 17 PCS	543 g	0681 352 190	10

ETA-09/0301



It is advisable to use the corresponding milling template set for easy and quick pre-assembly.

Screw into grain-cut timber at an angle of 35°. The screw angle is determined by the shape of the tabs.

The main beam's transverse strength must be verified separately. If necessary, the joint should be made using ASSY plus VG full-thread screws. For loads perpendicular to the secondary beam axis, the transverse strength must also be verified for the secondary beam. If the main beam is subject to torsion, it must be secured against twisting.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Comb nail / anchor nail

Galvanised steel, blue coated (A2K)

The tapered section below the nail head ensures that the nail fills the hole in the wood connector ensuring an exact transfer of force.



Diameter	4 mm
Head diameter	8 mm

Continuation **Comb nail / anchor nail**

Material	Steel
Surface	Zinc plated

Length	Thread length	Art. no.	P. Qty.
75 mm	66 mm	0681 940 075	250
100 mm	75 mm	0681 940 100	250

Cleat

For absorbing horizontal loads and preventing tilting of deep purlins and battens on angled ties and joists.

- Can be combined with rafter-to-purlin connectors to deflect wind suction forces
- Cleats are also ideal for preventing tilting at the base of wind brace band attachments
- Sheet metal hot-dip galvanised on both sides (DX 51 D + Z275 [approx. 20 µm]), thickness 2 mm in line with EN 10327:2004
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Thickness	2 mm
Hole diameter in subcarrier nJ/ main carrier nH	5/5 mm

Width x height	Number of holes in subcarrier nJ + main carrier nH	Weight	Art. no.	P. Qty.
63 x 90 mm	8 + 8 PCS	188 g	0681 090 045	40
110 x 130 mm	10 + 10 PCS	394 g	0681 130 075	40
120 x 155 mm	12 + 12 PCS	578 g	0681 170 095	20
135 x 195 mm	16 + 16 PCS	825 g	0681 210 130	20

European technical approval ETA 09/0218



Perforated plate

For wood-wood joint connections subject to tensile and compression loads e.g. timber frame connectors, wind braces, strut connections

- Tensile strength $R_m \geq 295 \text{ N/mm}^2$
- Breaking elongation $A_{80} \geq 22\%$
- Sheet metal hot-dip galvanised on both sides (DX51D + Z275 [approx. 20 µm]) in line with EN 10346:2009, thickness 2 mm
- Application in utilisation classes 1 and 2 in line with EN 1995:2013

Thickness	2 mm
Diameter of hole	5 mm



Length x width	Number of holes	Weight	Art. no.	P. Qty.
120 x 40 mm	9 PCS	73 g	0681 040 120	100
120 x 60 mm	15 PCS	111 g	0681 060 120	50
140 x 60 mm	18 PCS	113 g	0681 060 140	50
140 x 100 mm	32 PCS	240 g	0681 080 140	25
160 x 40 mm	12 PCS	93 g	0681 040 160	100
160 x 60 mm	20 PCS	125 g	0681 060 161	50
200 x 60 mm	25 PCS	177 g	0681 060 200	50
200 x 80 mm	35 PCS	268 g	0681 080 200	25
200 x 100 mm	45 PCS	310 g	0681 100 200	25
200 x 120 mm	55 PCS	354 g	0681 120 200	25
240 x 60 mm	30 PCS	214 g	0681 060 240	50
240 x 80 mm	42 PCS	255 g	0681 080 240	25
240 x 100 mm	54 PCS	298 g	0681 100 240	25
240 x 120 mm	66 PCS	426 g	0681 120 240	25
300 x 80 mm	53 PCS	197 g	0681 080 300	25
300 x 100 mm	68 PCS	444 g	0681 100 300	25
300 x 120 mm	83 PCS	522 g	0681 120 300	25

CE marking in line with EN 14545 2009:02



2 perforated metal plates and identical wood widths must be used for each connection.

Allowance must be made for eccentricity in one-sided connections.

Nail edge clearances must be observed in line with EC5.

The nails must be arranged symmetrically with the axis of the centrally applied force.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Perforated plate strip 2.0 mm

For wood-wood joint connections subject to tensile and compression loads e.g. timber frame connectors, wind braces, strut connections

- Tensile strength $R_m \geq 295 \text{ N/mm}^2$
- Breaking elongation $A_{80} \geq 22\%$
- Sheet metal hot-dip galvanised on both sides (DX51D + Z275 [approx. 20 µm]) in line with EN 10346:2009, thickness 2 mm
- Application in utilisation classes 1 and 2 in line with EN 1995:2013

Thickness	2 mm
Diameter of hole	5 mm



Length x width	Number of holes	Weight	Art. no.	P. Qty.
1200 x 60 mm	150 PCS	1050 g	0681 120 006	10
1200 x 80 mm	210 PCS	1400 g	0681 120 008	10
1200 x 100 mm	270 PCS	1800 g	0681 120 010	5
1200 x 120 mm	330 PCS	2100 g	0681 120 012	5
1200 x 140 mm	390 PCS	2500 g	0681 120 014	5

Continuation **Perforated plate strip 2.0 mm**

Length x width	Number of holes	Weight	Art. no.	P. Qty.
1200 x 160 mm	450 PCS	2800 g	0681 120 016	5
1200 x 180 mm	510 PCS	3200 g	0681 120 018	5
1200 x 200 mm	570 PCS	3600 g	0681 120 020	5

CE marking in line with EN 14545:2009-02



2 perforated metal plates and identical wood widths must be used for each connection.

Allowance must be made for eccentricity in one-sided connections.

Nail edge clearances must be observed in line with EC5.

The nails must be arranged symmetrically with the axis of the centrally applied force.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Perforated angle bracket

Perforated angle brackets are ideal for simple, intersecting wood/wood connections. For load-bearing connections with low load requirements.

- Sheet metal hot-dip galvanised on both sides (DX51D + Z275 [approx. 20 µm]) in line with EN 10327:2004
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Thickness	2.5 mm
Hole diameter in subcarrier nJ/ main carrier nH	5/5 mm

Width x height	Depth	Number of holes in subcarrier nJ + main carrier nH	Art. no.	P. Qty.
40 x 60 mm	60 mm	4 + 5 PCS	0681 664 250	100
50 x 60 mm	60 mm	6 + 6 PCS	0681 665 250	50
60 x 40 mm	40 mm	5 + 5 PCS	0681 446 250	100
60 x 60 mm	60 mm	7 + 8 PCS	0681 666 250	50
60 x 80 mm	80 mm	10 + 10 PCS	0681 886 250	50
80 x 80 mm	80 mm	7 + 7 PCS	0681 888 250	25
100 x 60 mm	60 mm	13 + 14 PCS	0681 661 250	50
100 x 100 mm	100 mm	22 + 23 PCS	0681 111 250	25

Please consider the legal instruction at the beginning of this chapter.

ETA-09/216



Post support bracket BD-U/TZN

One-piece post anchor suitable for concrete with fixed U mount and 250 mm corrugated dowel. For lightweight structures such as carports, screen fencing.

- Suitable for embedding in concrete, adjustable height compensation using 250 mm corrugated dowel
- Easy installation using external fork
- Fork material: steel S 235 JR in line with EN 10025:2004
- Corrugated dowel material: B 550 BR + AC in line with DS 10080:2006; d = 20 mm
- Surface: completely hot-dip galvanised, coat layer approx. 55 µm in line with DIN EN 1461
- Utilisation class: application in utilisation classes 1, 2 and 3



Length	350 mm
Diameter of hole	11 mm
Length of rowlock (concrete)	250 mm
Diameter of rowlock (concrete)	20 mm

Width of bracket (A)	Suitable for min. post cross-section	Art. no.	P. Qty.
81 mm	81 x 120 mm	0681 081 000	5
91 mm	91 x 120 mm	0681 091 000	5
101 mm	101 x 120 mm	0681 101 000	5
121 mm	121 x 120 mm	0681 121 000	5
141 mm	141 x 120 mm	0681 141 000	5

European Technical Approval ETA-13/1063



Diameter of bolts/screws may only be max. 1 mm smaller than the diameter of the hole.

Secure anchorage of the post support bracket in the substrate or ground must be verified separately.

Post support bracket BD-D/TZN

One-piece post anchor suitable for concrete with pin mount and 250 or 400 mm corrugated dowel. Ideal for lightweight structures with higher aesthetic requirements.

- Concealed inner pin mount
- Suitable for concrete, adjustable height compensation using long corrugated dowel
- Improved structural wood preservation
- Pin material: Steel, d = 24 mm
- Corrugated dowel material: reinforcing steel, d = 20 mm
- Surface: completely hot-dip galvanised
- Utilisation class: application in utilisation classes 1, 2 and 3



Holder plate dimensions	100 x 100 x 8 mm
Length of rowlock (wood)	120 mm
Diameter of rowlock (wood)	24 mm
Diameter of hole	11 mm

Continuation **Post support bracket BD-D/TZN**

Required steel dowels	1 piece, diameter 10 mm
Suitable for min. post cross-section	100 x 100 mm
Diameter of rowlock (concrete)	20 mm

Length	Length of rowlock (concrete)	Art. no.	P. Qty.
378 mm	250 mm	0681 491 025	6
528 mm	400 mm	0681 491 040	6

CE marking in line with EN 1090 pending.

Diameter of dowel pin/screws may only be max. 1 mm smaller than the diameter of the hole.

Post support bracket D-S-H/TZN

Robust, height-adjustable post support bracket with anchor bolts and blade mount. Ideal for medium- to heavy-duty structures in outdoor areas and high aesthetic requirements.

- Height-adjustable post support bracket with dowels and concealed blade mount for extremely high aesthetic requirements.
- Height adjustment range 110–160 mm (also in installed state)
- Long service life through additional hot-dip galvanisation
- Bracket material: steel
- Surface: completely hot-dip galvanised
- Utilisation class: application in utilisation classes 1, 2 and 3



Width of bracket (A)	100 mm
Strut dimensions	70 x 110 x 8 mm
Holder plate dimensions	100 x 80 x 8 mm
Unextended height	110 mm
Min./max. height (H)	110-160 mm
Required steel dowels	4 piece, diameter 8 mm
Suitable for min. post cross-section	100 x 80 mm
Baseplate format	70 x 160 x 8 mm

Art. no. 0681 490 160

P. Qty.: 10

CE marking in line with EN 1090 pending

Diameter of dowel pin may only be max. 1 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

Available work documents:

Load tables and detailed processing instructions can be found on the service page [www.wuerth.de/holzverbinder](http://eshop.wuerth.de/holzverbinder).

Post support bracket D-G-H/TZN

Robust, height-adjustable post support bracket with anchor bolts and adjustable fork width. Ideal for structures with high load requirements.

- Adjustable height (135 to 200 mm) and width (80 to 160 mm)
- Robust design for heavy loads
- Bracket material: steel S 235 JR in line with EN 10025:2004
- Surface: completely hot-dip galvanised in line with DIN EN 1461, coat thickness 55 µm
- Utilisation class: application in utilisation classes 1, 2 and 3.



Min./max. width of bracket	80-160 mm
Unextended height	110 mm
Min./max. height (H)	110-155 mm
Suitable for min. post cross-section	80 x 110 mm
Baseplate format	100 x 180 x 6 mm

Art. no. 0681 480 120

P. Qty.: 8

European Technical Approval ETA-13/1063



Diameter of screws and bolts may only be max. 1 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

Post support bracket BD-S/TZN with corrugated dowel

One-piece post anchor suitable for concrete with blade mount (T shape) and 250 mm grooved dowel pin. For lightweight structures such as shelters or carports.

- Suitable for concrete, adjustable height compensation with 250 mm corrugated dowel
- Concealed post connection with inner blade mount
- Long service life through hot-dip galvanisation
- Blade material: S 235 JR in line with EN 10025:2004
- Corrugated dowel material: B 500 SP
- Surface: completely hot-dip galvanised, coat layer approx. 55 µm in line with DIN EN 1461
- Utilisation class: application in utilisation classes 1, 2 and 3



Strut dimensions	70 x 110 x 8 mm
Holder plate dimensions	80 x 100 x 8 mm
Length	368 mm
Height	250 mm
Required steel dowels	4 piece, diameter 10 mm
Suitable for min. post cross-section	100 x 80 mm
Length of rowlock (concrete)	250 mm
Diameter of rowlock (concrete)	20 mm

Continuation **Post support bracket BD-S/TZN with corrugated dowel**

Art. no. 0681 080 110

P. Qty.: 10

European Technical Approval ETA-13/1063



Diameter of bolt/dowel pin may only be max. 1 mm smaller than the diameter of the hole.

Post support bracket BP-S/TZN

One-piece post anchor suitable for concrete with blade mount (T shape) and 300 mm tubular dowel pin with pressure plate for medium-duty structures with higher splash protection requirements such as carports, balcony posts.

- Concealed post connection with inner blade mount
- High load-bearing capacity with large 60 x 60 x 4 mm pressure plate
- Large height compensation adjustment range and long support length with 3.25 mm thick 300 x 42 mm long tubular dowel pin and pressure plate
- Long service life through additional hot-dip galvanisation
- Blade material: steel S 235 JR in line with EN 10025:2004
- Surface: completely hot-dip galvanised, coat layer approx. 55 µm in line with DIN EN 1461
- Utilisation class: application in utilisation classes 1, 2 and 3



Strut dimensions	70 x 110 x 8 mm
Holder plate dimensions	100 x 80 x 8 mm
Length	410 mm
Diameter of hole	9 mm
Required steel dowels	4 piece, diameter 8 mm
Suitable for min. post cross-section	100 x 80 mm
Baseplate format	70 x 70 x 5 mm
Length of rowlock (concrete)	300 mm
Diameter of rowlock (concrete)	42 mm

Art. no. 0681 070 110

P. Qty.: 10

CE marking in line with EN 1090 pending.

Diameter of bolt/dowel pin may only be max. 1 mm smaller than the diameter of the hole.

Post support bracket BP-H/TZN

Extra-robust, one-piece post support bracket with fixed H-shaped mount. For embedding in concrete. Ideal for heavy-duty structures.

- High corrosion protection and steel bonding with circumferential 5 mm welded seam
- Robust design, 6 mm thick
- Material: steel S 235 JR in line with EN 10025:2004
- Surface: completely hot-dip galvanised, coat layer approx. 55 µm in line with DIN EN 1461
- Utilisation class: application in utilisation classes 1, 2 and 3



Height	600 mm
Diameter of hole	11 mm

Width of bracket (A)	Holder plate dimensions	Suitable for min. post cross-section	Baseplate format	Art. no.	P. Qty.
71 mm	71 x 60 x 6 mm	71 x 100 mm	71 x 60 x 6 mm	0681 488 071	1
81 mm	81 x 60 x 6 mm	81 x 100 mm	81 x 60 x 6 mm	0681 488 081	1
91 mm	91 x 60 x 6 mm	91 x 100 mm	91 x 60 x 6 mm	0681 488 091	1
101 mm	101 x 60 x 6 mm	101 x 100 mm	101 x 60 x 6 mm	0681 488 101	1
121 mm	121 x 60 x 6 mm	121 x 100 mm	121 x 60 x 6 mm	0681 488 121	1
141 mm	141 x 60 x 6 mm	141 x 100 mm	141 x 60 x 6 mm	0681 488 141	1

European Technical Approval ETA-13/1063



Diameter of dowel pin/screws may only be max. 1 mm smaller than the diameter of the hole.

Secure anchorage of the post support bracket in the substrate or ground must be verified separately.

Post support bracket D-F/TZN

Robust post support bracket with anchor bolts and flat carrier plate mount. Ideal for heavy-duty structures with high aesthetic requirements and improved wood preservation.

- Concealed post bracket mount with improved wood preservation
- Anchor bolt with a fixed height of 100 mm
- Robust 48 mm thickness pressure pipe and large base plate
- Long service life through additional hot-dip galvanisation
- Material: steel
- Surface: completely hot-dip galvanised
- Utilisation class: application in utilisation classes 1, 2 and 3



Holder plate dimensions	100 x 100 x 6 mm
Height	100 mm
Diameter of hole	13 mm
Suitable for min. post cross-section	100 x 100 mm
Baseplate format	150 x 150 x 5 mm

Continuation **Post support bracket D-F/TZN**

Art. no. 0681 550 150

P. Qty.: 10

CE marking in line with EN 1090 pending.

Diameter of screw dowel pin may only be max. 1 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

Post support bracket BP-D-H/TZN

Extra-robust and height-adjustable post support bracket with blade mount. For embedding in concrete. Pin mount.

- Ideal for heavy-duty structures with high aesthetic requirements and/or high ground clearance for improved wood preservation.
- Height adjustable in installed state
- Extra-long, robust 48 mm tubular dowel pin (base height 400 mm) and large pressure plate
- Concealed post connection with inner dowel mount
- For embedding in concrete
- Long service life through additional hot-dip galvanisation
- Material: steel
- Surface: completely hot-dip galvanised
- Utilisation class: application in utilisation classes 1, 2 and 3



Holder plate dimensions	100 x 100 x 8 mm
Length of rowlock (wood)	120 mm
Diameter of rowlock (wood)	24 mm
Unextended height	400 mm
Diameter of hole	11 mm
Required steel dowels	1 piece, diameter 10 mm
Suitable for min. post cross-section	100 x 100 mm
Baseplate format	70 x 70 x 4 mm
Length of rowlock (concrete)	370 mm
Diameter of rowlock (concrete)	48 mm

Art. no. 0681 491 400

P. Qty.: 6

CE marking in line with EN 1090 pending.

Diameter of dowel pin may only be max. 1 mm smaller than the diameter of the hole.

Secure anchorage of the post support bracket in the substrate or ground must be verified separately.

Post support bracket D-D-H/TZN

Solid, height-adjustable post support bracket with anchor bolts and pin mount. Ideal for medium to heavy structures in outdoor areas with high aesthetic requirements



- Height-adjustable post support bracket with concealed pin mount for high aesthetic requirements
- Height adjustment range 130–200 mm or 180–250 mm (also in installed state)
- Rotating carrier plate and solid construction
- Long service life through additional hot-dip galvanisation
- Bracket material: steel
- Surface: completely hot-dip galvanised
- Utilisation class: application in utilisation classes 1, 2 and 3

Holder plate dimensions	100 x 100 x 8 mm
Length of rowlock (wood)	120 mm
Diameter of rowlock (wood)	24 mm
Required steel dowels	1 piece, diameter 10 mm
Baseplate format	100 x 180 x 5 mm

Unextended height	Min./max. height (H)	Art. no.	P. Qty.
130 mm	130-200 mm	0681 491 130	6
180 mm	180-250 mm	0681 491 180	6

Please consider the legal instruction at the beginning of this chapter.

CE marking in line with EN 1090 pending

Diameter of screws/dowel pins may only be max. 1 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

Post support bracket D-D-H/A2K

Robust, height-adjustable post support bracket with anchor bolts and pin mount. Ideal for medium-duty structures in dry areas and extremely high aesthetic requirements.



- Height-adjustable post support bracket (min. 130 x 130 mm) with concealed pin mount and cover sleeve for base thread for extremely high aesthetic requirements
- Height adjustment range 140 mm to 200 mm (also in installed state)
- Thread with cover sleeve for elegant appearance
- Bracket material: Steel
- Surface: A2K, blue passivated
- Utilisation class: Application in utilisation class 1

Holder plate dimensions	100 x 100 x 8 mm
Length of rowlock (wood)	120 mm
Diameter of rowlock (wood)	24 mm
Unextended height	140 mm

Continuation **Post support bracket D-D-H/A2K**

Min./max. height (H)	140-200 mm
Required steel dowels	1 piece, diameter 10 mm
Baseplate format	100 x 160 x 8 mm

Art. no. 0681 491 140

P. Qty.: 6

Please consider the legal instruction at the beginning of this chapter.

CE marking in line with EN 1090 pending

Diameter of screw may only be max. 1 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

Post support bracket D-F-H/R3R

Robust, height-adjustable post support bracket with anchor bolts and flat carrier plate mount

- Ideal for heavy structures with dark timbers in dry areas with extremely high aesthetic requirements.
- Concealed post support bracket with carrier plate mount and cover sleeve for base thread for extremely high aesthetic requirements
- Height adjustment range 145 mm to 210 mm (also in installed state)
- High-quality, dark zinc-iron coat with high resistance to ageing and weather
- Bracket material: steel S 235 JR in line with EN 10025-2:2005-04
- Base material: steel S195T in line with EN 10255:2007
- Surface: high-quality zinc-iron coat (R3R); coat thickness 8 µm
- Utilisation class: application in utilisation classes 1 and 2



Holder plate dimensions	80 x 80 x 6 mm
Unextended height	135 mm
Min./max. height (H)	135-200 mm
Suitable for min. post cross-section	130 x 130 mm
Baseplate format	160 x 80 x 6 mm

Art. no. 0681 492 001

P. Qty.: 6

European technical approval ETA 13/0026



ETA 13/0029 specifications must be observed.

Diameter of bolt may only be max. 1 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Post support bracket D-U/TZN

Simple post support bracket with anchor bolts and fixed fork width. Ideal for non-load-bearing secondary structures in outdoor areas.

- Anchor bolt
- Bracket material: steel
- Surface: completely hot-dip galvanised
- Application in utilisation classes 1, 2 and 3



Height	200 mm
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Width of bracket (A)	Baseplate format	Art. no.	P. Qty.
71 mm	151 x 60 x 6 mm	0681 482 071	10
81 mm	161 x 60 x 6 mm	0681 482 081	10
91 mm	171 x 60 x 6 mm	0681 482 091	10
101 mm	181 x 60 x 6 mm	0681 482 101	10
121 mm	201 x 60 x 6 mm	0681 482 121	10

Please consider the legal instruction at the beginning of this chapter.

Diameter of screw may only be max. 1 mm smaller than the diameter of the hole.

Post support bracket D-G-H/R3R

Robust, height-adjustable post support bracket with anchor bolts and adjustable fork width. Ideal for medium- to heavy-duty structures with dark timbers in dry areas with extremely high aesthetic requirements.

- Post support bracket with width-adjustable yoke connection and cover sleeve for base thread for extremely high aesthetic requirements
- Height can be adjusted even when in an installed condition
- Thread with cover sleeve for elegant appearance
- High-quality dark zinc-iron coating with high resistance to ageing and weathering
- Carrier material: Steel S 235 JR in line with EN 10025-2:2005-04
- Base material: Steel S195T in line with EN 10255:2007
- Surface: High-quality zinc-iron coat (R3R); coat thickness 8 µm
- Utilisation class: application in utilisation classes 1 and 2



Min./max. width of bracket	70-170 mm
Min./max. height (H)	135-200 mm
Suitable for min. post cross-section	80 x 140 mm, 80 x 160 mm
Baseplate format	160 x 80 x 6 mm

Art. no. 0681 492 002

P. Qty.: 6

European technical approval ETA 13/0026

Continuation **Post support bracket D-G-H/R3R**



ETA 13/0029 specifications must be observed.

Diameter of bolt may only be max. 1 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Post support bracket D-D-H/R3R

Robust, height-adjustable post support bracket with anchor bolts and pin mount. Ideal for medium-duty structures with dark timbers in dry areas with extremely high aesthetic requirements.

- Height-adjustable post support bracket (min. 130 x 130 mm) with concealed pin mount and cover sleeve for base thread for extremely high aesthetic requirements
- Height adjustment range 135 mm to 200 mm (also in installed state)
- Thread with cover sleeve for elegant appearance
- High-quality, dark zinc-iron coat with high resistance to ageing and weather
- Bracket material: steel S 235 JR in line with EN 10025-2:2005-04
- Base material: steel S195T in line with EN 10255:2007
- Surface: high-quality zinc-iron coat (R3R); coat thickness 8 µm
- Utilisation class: application in utilisation classes 1 and 2



Holder plate dimensions	80 x 80 x 6 mm
Length of rowlock (wood)	120 mm
Diameter of rowlock (wood)	24 mm
Unextended height	135 mm
Min./max. height (H)	135-200 mm
Required steel dowels	1 piece, diameter 10 mm
Suitable for min. post cross-section	130 x 130 mm
Baseplate format	160 x 80 x 6 mm

Art. no. 0681 492 003

P. Qty.: 6

European technical approval ETA 13/0026



ETA 13/0029 specifications must be observed.

Diameter of bolt may only be max. 1 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Profile anchor

For attaching/securing against wind suction of wooden beams, battens or purlins to profile rails (e.g. Halfen rails)

- Tensile strength $R_m \geq 330 \text{ N/mm}^2$
- Breaking elongation $A_{80} \geq 19\%$
- Sheet metal hot-dip galvanised on both sides (S250GD + Z275 [approx. 20 μm])
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Height x width (H x B)	Thickness	Rail type	Number of D 5 mm holes	Number of D 13 mm holes	Art. no.	P. Qty.
108 x 35 mm	3 mm	28/15	6 PCS		0681 108 35	100
158 x 35 mm	3 mm	28/15	11 PCS		0681 158 35	100
159 x 35 mm	4 mm	38/17 (40/42)	8 PCS	1 PCS	0681 159 35	50
198 x 35 mm	3 mm	28/15	15 PCS		0681 198 35	50

CE marking in line with EN 14545:2009-02



Attach on both sides. If arranged on one side only, a reduction in permissible load must be expected unless the beam is secured against twisting.

The minimum timber width depends on the selected fasteners. It should be at least 80 mm when using nails with a standard length of 40 mm. Nails should be distributed across the entire surface. Nail and bolt edge clearance must be adhered to in line with EC5 or the corresponding approval. Diameter of bolt/screw may only be max. 2 mm smaller than the diameter of the hole.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Rafter nail

Self-hardening, galvanised, blue coated (A2K)

High transfer of shear force
High extraction values

For all nail lengths with the same insertion depth thanks to uniform 80 mm barbed hook thread

Labelled heads

The lengths are indicated on the heads so that the nail length can be checked after insertion

Shaft diameter (dn)	6 mm
Length of barbed thread (l1)	80 mm



Continuation **Rafter nail**

Diameter (d1)	6.5 mm
Head diameter	13 mm
Material	Steel
Surface	Zinc plated

Length	Art. no.	P. Qty.
110 mm	0681 963 110	250
150 mm	0681 963 150	250
180 mm	0681 963 180	100
210 mm	0681 963 210	100
230 mm	0681 963 230	100
260 mm	0681 963 260	100
280 mm	0681 963 280	100
300 mm	0681 963 300	100
330 mm	0681 963 330	100

Nails in accordance with DIN EN 14592/A1

Rafter-to-purlin connector right/left

Load-bearing tensile anchorage of intersecting timbers in concealed areas (e.g. rafter bracing, collar beam suspension). For absorbing horizontal forces/2 or 4 rafter-to-purlin connectors must be used per joint, depending on the load.

- 2 rafter-to-purlin connectors per joint must be arranged diagonally opposite one another to ensure central application of the load. Either 2 left or 2 right connectors are required.
- Sheet metal hot-dip galvanised on both sides (DX51D + Z275 [approx. 20 µm]), thickness 2.0 mm in line with EN 10327:2004
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Thickness	2 mm
Design	Type - right and left
Hole diameter in subcarrier nJ/ main carrier nH	5/5 mm
Material	Steel
Surface	Hot dip galvanized

Width x height x depth	Number of holes in subcarrier nJ + main carrier nH	Weight	Art. no.	P. Qty.
34 x 170 x 34 mm	10 + 10 PCS	114 g	0681 170 000	100
34 x 210 x 34 mm	14 + 14 PCS	146 g	0681 210 000	50
34 x 250 x 34 mm	18 + 18 PCS	184 g	0681 250 000	50
34 x 290 x 34 mm	22 + 22 PCS	222 g	0681 290 000	20
34 x 330 x 34 mm	26 + 26 PCS	265 g	0681 330 000	20
34 x 370 x 34 mm	30 + 30 PCS	292 g	0681 370 000	20

ETA 09/0219



The transverse load of the connected timbers must be observed and verified where necessary. Transverse reinforcement can be added using ASSY plus FT full-thread screws.

Rafter-to-purlin connector Universal

Tensile anchorage of intersecting timbers in concealed areas (e.g. rafter bracing, collar beam suspension)

- Horizontal forces can be absorbed
- 2 or 4 rafter-to-purlin connectors must be used per joint, depending on the load
- 2 rafter-to-purlin connectors per joint must be arranged diagonally opposite one another to ensure central load application
- Universal, i.e. right or left application
- Sheet metal hot-dip galvanized on both sides (S250GD + Z275 [approx. 20 µm]), thickness 2.0 mm in line with EN 10346:2009
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Thickness	2 mm
Design	Type - universal
Hole diameter in subcarrier nJ/ main carrier nH	5/5 mm
Material	Steel
Surface	Hot dip galvanized

Width x height x depth	Number of holes in subcarrier nJ + main carrier nH	Weight	Art. no.	P. Qty.
35 x 170 x 35 mm	4 + 5 PCS	82 g	0681 170 010	100
35 x 210 x 35 mm	6 + 7 PCS	104 g	0681 210 010	50
35 x 250 x 35 mm	8 + 9 PCS	122 g	0681 250 010	50

European Technical Approval ETA-14/0105



The transverse load of the connected timbers must be observed and verified where necessary. Transverse reinforcement can be added using ASSY plus FT full-thread screws.

Dowel pins

Fastener between steel parts, such as post support brackets with strut and wood ties

- Chamfered for easier driving-in
- Material: steel S235
- Surface: blue passivated (A2K); $\geq 7 \mu\text{m}$
- Application in utilisation classes 1 and 2



Material	Steel
Material designation	S235
Surface	Zinc plated

Continuation **Dowel pins**

Diameter (Ø)	Length (L)	Yield moment	Art. no.	P. Qty.
8 mm	65 mm	31.4 Nm	0681 008 065	100
8 mm	90 mm	31.4 Nm	0681 008 090	100
8 mm	115 mm	31.4 Nm	0681 008 115	100
10 mm	100 mm	56.1 Nm	0681 010 100	100
10 mm	120 mm	56.1 Nm	0681 010 120	100
10 mm	140 mm	56.1 Nm	0681 010 140	100
12 mm	65 mm	80.6 Nm	0681 012 065	100
12 mm	80 mm	80.6 Nm	0681 012 080	100
12 mm	90 mm	80.6 Nm	0681 012 090	100
12 mm	100 mm	80.6 Nm	0681 012 100	100
12 mm	115 mm	80.6 Nm	0681 012 115	100
12 mm	120 mm	80.6 Nm	0681 012 120	100
12 mm	140 mm	80.6 Nm	0681 012 140	100
12 mm	160 mm	80.6 Nm	0681 012 160	50
12 mm	180 mm	80.6 Nm	0681 012 180	50
12 mm	200 mm	80.6 Nm	0681 012 200	50

CE marking in line with EN 14592



Install dowel pin flush with the timber surface. The hole in the wood must be no larger than the bar dowel diameter.

The inner sheet steel element in sheet steel to wood connections should be at least 3 mm thick as the minimum edge distances are determined exclusively from the edge distances in the wooden component from this thickness upwards.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Chair and box angle bracket

Ideal for non-structural wood to wood connections.

Countersunk bores on either side for neat head connections.



- Holes countersunk and offset on either side for optimised mounting
- For arm lengths up to 75 mm: 2 bore holes
- For arm lengths from 90 mm: 3 bore holes
- Sheet steel galvanised on both sides (St37 + A2K)
- Application in utilisation classes 1 and 2 in line with EN 1995:2013

Limb length x limb length 2	Width of side	Thickness	Number of holes in sub-carrier nJ + main carrier nH	Diameter of hole	Art. no.	P. Qty.
25 x 25 mm	14 mm	2 mm	2 + 2 PCS	4.2 mm	0451 325	50
30 x 30 mm	14 mm	2 mm	2 + 2 PCS	4.1 mm	0451 330	50
40 x 40 mm	15 mm	2 mm	2 + 2 PCS	4.1 mm	0451 340	50

Limb length x limb length 2	Width of side	Thickness	Number of holes in sub- carrier nJ + main carrier nH	Diameter of hole	Art. no.	P. Qty.
50 x 50 mm	15 mm	2 mm	2 + 2 PCS	4.4 mm	0451 350	50
60 x 60 mm	16 mm	2 mm	2 + 2 PCS	4.4 mm	0451 360	50
75 x 75 mm	17.5 mm	2 mm	2 + 2 PCS	4.7 mm	0451 375	25
90 x 90 mm	20 mm	2 mm	3 + 3 PCS	4.9 mm	0451 390	25
100 x 100 mm	20 mm	2.25 mm	3 + 3 PCS	5 mm	0451 310 0	25
125 x 125 mm	23 mm	2.5 mm	3 + 3 PCS	5.2 mm	0451 312 5	25
150 x 150 mm	25 mm	3 mm	3 + 3 PCS	6.3 mm	0451 315 0	25



Wind brace band WZ

Fir diagonal bracing of roof and wall structures (as tie bar for wood to wood connections)

- Deeper embedding of fastener in wooden substrate for higher bearing loads
- 25% lower weight for easier installation
- Patented edge shaping and high-quality steel for higher tensile strength
- Sheet metal hot-dip galvanised on both sides (S350DG + Z275MAC (approx. 275 g both sides)) in line with EN 10346:2009-07, thickness 1.5 mm
- Application in utilisation classes 1 and 2 in line with EN 1995:2013

CE marking in line with EN 14545:2009-02

Diameter of hole	5 mm
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Width x thickness	Length of roll	Min. tensile strength Rm	Min. yield strength (ReH)	Min. breaking elongation A80	Art. no.	P. Qty.
40 x 1.5 mm	50 m	420 N/mm ²	350 N/mm ²	16 %	0681 040 251	1
60 x 1.5 mm	50 m	420 N/mm ²	350 N/mm ²	16 %	0681 060 251	1
80 x 1.5 mm	25 m	441 N/mm ²	388 N/mm ²	24.5 %	0681 080 251	1

Please consider the legal instruction at the beginning of this chapter.

Angle connector Type B1

Solid 3 mm angle connector for timber structures. For high-quality connections in load-bearing wood/wood or wood/concrete structures.

- Minimal misalignment between wooden structure and concrete anchor
- Low bulk, slim design
- Sheet metal hot-dip galvanised on both sides (DX51D + Z275 [approx. 20 µm]), thickness 3.0 mm in line with EN 10327:2004
- Application in utilisation classes 1 and 2 in line with EN 1995:2013
- It is advisable to use reinforced angle connectors or tension anchors for more demanding requirements



Width x height x depth	40 x 160 x 40 mm
Thickness	3 mm
Design	Without bar
Number of D 5 mm holes in sub-carrier nJ + main carrier nH	12 + 4 PCS
Number of D 13 mm holes in subcarrier nJ/main carrier nH	2 + 1 PCS
Material	Steel
Surface	Hot dip galvanized

Art. no. 0681 050 160

P. Qty.: 50

European technical approval ETA-09/216



The diameter of bolts/screws/anchors may only be max. 2 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

Angle connector type B2

Short, solid 3 mm angle connector for timber structures. For high-quality connections in load-bearing wood/wood or wood/concrete structures. It is advisable to use rib-reinforced angle connectors for more demanding requirements.

- Minimal misalignment between wooden structure and concrete anchor
- Low bulk, slim design
- Sheet metal hot-dip galvanised on both sides (DX51D + Z275 [approx. 20 µm]) in line with EN 10327:2004
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Width x height x depth	40 x 90 x 42 mm
Thickness	3 mm
Design	Without bar

Continuation **Angle connector type B2**

Number of D 5 mm holes in sub-carrier nJ + main carrier nH	8 + 4 PCS
Number of D 13 mm holes in subcarrier nJ/main carrier nH	2 + 1 PCS
Material	Steel
Surface	Hot dip galvanized

Art. no. 0681 035 90

P. Qty.: 50

Please consider the legal instruction at the beginning of this chapter.

ETA-09/216



The diameter of bolts/screws/anchors may only be max. 2 mm smaller than the diameter of the hole. The respective basic conditions of the applicable anchor approval must be observed.

Angle connector type HS

For high-quality load-bearing wood/wood or wood/concrete connections (it is advisable to use a beaded type for higher load transfers). Solid 3 mm type for universal use in timber construction.

- Robust design, versatile applications
- Sheet metal hot-dip galvanised on both sides (DX51D + Z275 [approx. 20 µm]), 3 mm thick in line with EN 10327:2004
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Thickness	3 mm
Material	Steel
Surface	Hot dip galvanized

Width x height x depth	Design	Number of D 5 mm holes in subcarrier nJ + main carrier nH	Number of D 13 mm holes in subcarrier nJ/main carrier nH	Art. no.	P. Qty.
48 x 90 x 48 mm		7 + 4 PCS	2 + 1 PCS	0681 048 48	50
76 x 90 x 48 mm	With pleat	12 + 4 PCS	3 + 2 PCS	0681 048 76	50
116 x 90 x 48 mm	With pleat	18 + 7 PCS	3 + 3 PCS	0681 048 116	25

Please consider the legal instruction at the beginning of this chapter.

European Technical Approval ETA 09/0133



The comb/ribbed nails should be driven in as close to the deflection curve in the load-bearing joist as possible. This also applies to the bolts used if angle connectors are used to attach wood to e.g. concrete.

The diameter of bolts/screws/anchors may only be max. 2 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

Available work documents:
 Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Angle connector Type A

The angle connector A without reinforcement rib is ideal for high-quality load-bearing wood/wood connections in timber construction. Universally suitable for standard connections such as intersecting timbers.

- Sheet metal hot-dip galvanised on both sides (DX51D + Z275 [approx. 20 µm]) in line with EN 10327:2004
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Design	Without bar
Material	Steel
Surface	Hot dip galvanized

Width x height x depth	Thickness	Number of D 5 mm holes in sub-carrier nJ + main carrier nH	Number of D 11 mm holes in sub-carrier nJ + main carrier nH	Number of D 13 mm holes in sub-carrier nJ/ main carrier nH	Art. no.	P. Qty.
35 x 50 x 50 mm	2.5 mm	4 + 4 PCS	1 + 1 PCS		0681 050 040	150
40 x 90 x 90 mm	3 mm	8 + 8 PCS	2 + 2 PCS		0681 090 040	50
55 x 70 x 70 mm	2.5 mm	9 + 9 PCS		1 + 1 PCS	0681 070 055	50
65 x 90 x 90 mm	2.5 mm	9 + 6 PCS		2 + 3 PCS	0681 090 065	50
90 x 105 x 105 mm	3 mm	18 + 14 PCS		1 + 3 PCS	0681 100 090	25

European technical approval ETA-09/216



The transverse load of the connected timbers must be observed and verified where necessary. Transverse reinforcement can be added using ASSY plus FT full-thread screws.

Diameter of bolt/screw/metal anchor may only be max. 2 mm smaller than the diameter of the hole.

Available work documents:
 Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Angle connector Type A

Type A angle connector without reinforcement rib is ideal for high-quality load-bearing connections of wood to wood, concrete or steel. Universally suitable for standard connections such as intersecting timbers.

- Sheet metal hot-dip galvanised on both sides (S250GD + Z275 [approx. 20 µm]) in line with EN 10346:2009
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Design	Without bar
Material	Aluzinc structural steel, 1.0242
Surface	Hot dip galvanized

Width x height x depth	Thickness	Number of D 5 mm holes in sub-carrier nJ + main carrier nH	Number of D 11 mm holes in sub-carrier nJ + main carrier nH	Number of D 13 mm holes in sub-carrier nJ/ main carrier nH	Art. no.	P. Qty.
55 x 70 x 70 mm	2.5 mm	10 + 10 PCS	1 + 1 PCS		5390 200 070	50
65 x 90 x 90 mm	2.5 mm	9 + 6 PCS		2 + 3 PCS	5390 200 090	50
90 x 105 x 105 mm	3 mm	15 + 14 PCS		2 + 3 PCS	5390 200 105	25

European technical approval ETA 08/0183, with the exception of art. no. 5390200050



The transverse load of the connected timbers must be observed and verified where necessary. Transverse reinforcement can be added using ASSY plus VG full-thread screws. ETA 08/0183 specifications must be observed.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Angle connector Type A

Angle connector A with reinforcement rib is ideal for high-quality load-bearing connections of wood to wood, concrete or steel. Universally suitable for standard connections such as intersecting timbers.

- Sheet metal hot-dip galvanised on both sides (S250GD + Z275 [approx. 20 µm]) in line with EN 10346:2009.
- Application in utilisation class 1 and 2 in line with EN 1995:2013



Design	With bar
Material	Aluzinc structural steel, 1.0242
Surface	Hot dip galvanized

Width x height x depth	Thickness	Number of D 5 mm holes in sub-carrier nJ + main carrier nH	Number of D 11 mm holes in sub-carrier nJ + main carrier nH	Number of D 13 mm holes in sub-carrier nJ/main carrier nH	Art. no.	P. Qty.
55 x 70 x 70 mm	2.5 mm	6 + 6 PCS	1 + 1 PCS		5390 201 070	50
65 x 90 x 90 mm	2.5 mm	10 + 10 PCS		1 + 1 PCS	5390 201 090	50
90 x 105 x 105 mm	3 mm	14 + 10 PCS		1 + 3 PCS	5390 201 105	25

European Technical Approval ETA-08/0183



The transverse load of the connected timbers must be observed and verified where necessary. Transverse reinforcement can be added using ASSY plus VG full-thread screws. The respective basic conditions of ETA08/0183 must be observed

Angle connector Type V slot

Special reinforced angle connector for load-bearing wood/wood and wood/concrete joints for base anchorage in timber structures. The slot in the base plate enables optimum adjustment during construction.

- Very high load-bearing capacities
- Versatile applications
- Sheet metal hot-dip galvanised on both sides (D11 + Z275) in line with EN 10111:1998, thickness 4 mm with subsequent thermal hot-dip galvanisation (55µm)
- Application in utilisation classes 1, 2 and 3 in line with EN 1995:2013



Thickness	4 mm
Design	Without bar
Number of D 11 mm holes in subcarrier nJ + main carrier nH	0 + 1 PCS
Elongated hole length/elongated hole width	24.5 x 13.5 mm
Material	Unalloyed quality steel, 1.0332
Surface	Hot dip galvanized

Width x height x depth	Number of D 5 mm holes in subcarrier nJ + main carrier nH	Number of D 13 mm holes in subcarrier nJ/main carrier nH	Art. no.	P. Qty.
65 x 95 x 90 mm	11 + 2 PCS	0 + 0 PCS	5390 210 095	25
65 x 135 x 90 mm	17 + 2 PCS	1 + 1 PCS	5390 210 135	25
65 x 285 x 90 mm	28 + 2 PCS	3 + 0 PCS	5390 210 285	25

European Technical Approval ETA 14/0274



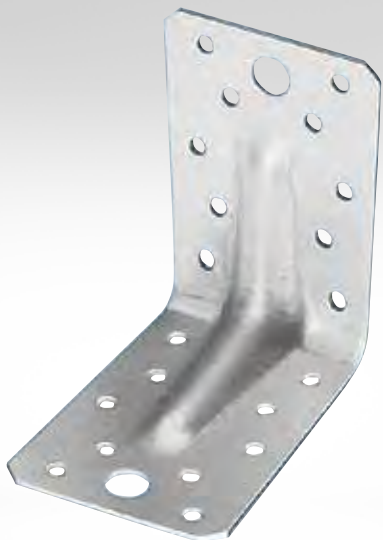
Partial nailing is permitted (see additional document: „Nailing patterns“).

The general requirements of ETA 08/0214 must be observed.

Continuation **Angle connector Type V slot**

The basic conditions of the applicable anchor approval must be observed.

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.



Angle connector Type A

Angle connector A with reinforcement rib is ideal for high-quality load-bearing wood/wood and wood/concrete connections in timber construction. Universally suitable for standard connections such as intersecting timbers.

- Sheet metal hot-dip galvanised on both sides (DX51D + Z275 [approx. 20 µm]) in line with EN 10327:2004
- Application in utilisation classes 1 and 2 in line with EN 1995:2013

European Technical Approval ETA-09/214

Design	With bar
Material	Steel
Surface	Hot dip galvanized

Width x height x depth	Thickness	Number of D 5 mm holes in subcarrier nJ + main carrier nH	Number of D 13 mm holes in subcarrier nJ/ main carrier nH	Art. no.	P. Qty.
65 x 90 x 90 mm	2.5 mm	10 + 10 PCS	1 + 1 PCS	0681 090 965	50
90 x 105 x 105 mm	3 mm	14 + 10 PCS	1 + 3 PCS	0681 100 990	25

Angle connector Type A, 1.5 mm

With reinforcement rib, ideal for high-quality load-bearing wood/wood, wood/steel and wood/concrete connections in timber construction. Universally used for standard connections such as intersecting timbers.

- Higher load-bearing capacities in comparison to standard angle with greater sheet thickness through reinforcing edge embossing
- Environmentally friendly and resource conserving thanks to high material savings



Thickness	1.5 mm
Design	With bar
Material	Aluzinc structural steel, 1.0242
Surface	Hot dip galvanized

Width x height x depth	Number of D 5 mm holes in subcarrier nJ + main carrier nH	Number of D 11 mm holes in subcarrier nJ + main carrier nH	Number of D 13 mm holes in subcarrier nJ/ main carrier nH	Art. no.	P. Qty.
55 x 70 x 70 mm	6 + 6 PCS	1 + 1 PCS		5390 202 070	50
65 x 90 x 90 mm	10 + 10 PCS		1 + 1 PCS	5390 202 090	50
90 x 105 x 105 mm	16 + 10 PCS		1 + 3 PCS	5390 202 105	25

European Technical Approval ETA-08/0183



Angle connector type A 1.5 mm can be fully nailed or attached with partial nailing. The nail or screw pattern for partial or full nailing must correspond to the specifications of ETA-08/0183

Suitable fasteners:

- Comb/ribbed nail in line with EN 14592: 4.0 x 40 mm or 4.0 x 60 mm
- ASSY 3.0 combination screw in line with ETA 11/0190: d = 10 or 12 mm
- Bolts and metal anchors according to manufacturer specification: d = 10 or 12 mm
- Recommended dowels for anchoring in concrete: W-BS; W-FAZ; W-VIZ; WIT-VM 250; WIT-UH 300

For edge spacings of fasteners parallel and vertical to the fibres, the regulations according to EN1995-1-1, Section 8.3.1.2, Table 8.2 must be applied unless specified otherwise

The transverse load of the connected timbers must be observed and verified if applicable. Transverse reinforcement can be added using ASSY plus VG full-thread screws.

Diameter of bolt/screw/metal anchor may only be max. 2 mm smaller than the diameter of the hole.

The respective basic conditions of the applicable anchor approval must be observed.

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Tension anchor HTA

Single-piece or two-piece, high-load-bearing tension anchor system for anchoring the base of wood elements in wood, steel or concrete substructures.

- Extremely high load-bearing capacities
- Compact design with small base plate for confined spaces
- Indirect mounting (max. 26 mm) via an intermediate layer (e.g. OSB)
- Extra-long back panel for optimum placement of the required number of screws/nails whilst complying with the requisite edge clearance on the wooden frame
- Sheet metal 12-µm hot-dip galvanised on both sides (S355 MC + Fe Zn 12c) in line with EN 10025-2:2004 3.0 mm in thickness
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Thickness	3 mm
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Width x height x depth	Hole diameter in subcarrier nJ/main carrier nH	Number of holes in subcarrier nJ + main carrier nH	Weight	Art. no.	P. Qty.
60 x 340 x 60 mm	5.1/17 mm	20 + 1 PCS	850 g	5392 000 134	10
60 x 440 x 60 mm	5.1/17 mm	30 + 1 PCS	990 g	5392 000 144	10
60 x 540 x 60 mm	5.1/17 mm	42 + 1 PCS	1130 g	5392 000 154	10
80 x 620 x 80 mm	5.1/21 mm	52 + 1 PCS	1800 g	5392 000 162	10

CE labelling as per European Technical Approval ETA-14/0274



Dowel mounting: The respective basic conditions of the applicable anchor approval must be observed.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Tension anchor V plus

Single-piece, high-load carrying tension anchor system for anchoring bases in wood, steel or concrete substructures.

- Extremely high load-carrying capacities
- Large base plate for optimised force initiation into the floor
- Indirect mounting (max. 26 mm) via an intermediate layer (e.g. OSB)
- Extra-long back panel for optimum placing of the number of screws/nails required, while complying with the requisite edging on the wooden stand
- Sheet metal hot-dip galvanised on both sides (DD11+ Z 275) in line with EN 10025-2:2004 3.0 or 4.0 mm in thickness
- Application in utilisation classes 1 and 2 in line with EN 1995:2013



Hole diameter in subcarrier nJ/main carrier nH	5.1/18 mm
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Continuation **Tension anchor V plus**

Width x height x depth	Thickness	Number of holes in subcar- rier nJ + main carrier nH	Weight	Art. no.	P. Qty.
65 x 460 x 90 mm	3 mm	45 + 1 PCS	1020 g	5392 000 246	10
65 x 460 x 90 mm	4 mm	45 + 1 PCS	1360 g	5392 000 247	10
65 x 560 x 90 mm	3 mm	57 + 1 PCS	1155 g	5392 000 256	10
65 x 560 x 90 mm	4 mm	57 + 1 PCS	1540 g	5392 000 257	10

CE labelling as per European Technical Approval ETA-14/0274



Dowel mounting: The respective basic conditions of the applicable anchor approval must be observed.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Double-sided tooth plate connector Type C1

Double-sided tooth plate connectors (type C1) are used for wood-wood connections (softwood) in combination with bolts or wood screws to absorb shear forces. The bolts or screws subject to load absorb the clamping and tensile forces in the bolt axis.



- In line with DIN EN 912:2011-09
- 2 nail holes, d = 3.5 mm
- Material: St 1203 or DC 01 + C390 steel in line with DIN EN 10139
- Surface: Sendzimir galvanised
- Application in utilisation classes 1 and 2

Type	C1
Material	Sheet steel
Surface	Hot dip galvanized

Nominal diameter	Diameter of hole	Art. no.	P. Qty.
50 mm	17 mm	0451 021 50	200
62 mm	21 mm	0451 021 62	200
75 mm	26 mm	0451 021 75	100

CE marking in line with EN 912



Transverse load in the compressed surfaces should not be higher than 2.5 N/mm² for solid wood or 3 N/mm² for laminated wood. Alternatively, double-shear connections can also be made using ASSY plus full-thread screws in combination with wheel head screws.

Single-sided tooth plate connector Type C2

Single-sided tooth plate connectors (type C2) are used for metal-wood or wood-wood connections (softwood) in combination with bolts or wood screws to absorb shear forces. The bolts or screws subject to load absorb the clamping and tensile forces in the bolt axis.



- In line with DIN EN 912:2011-09
- 2 nail holes, d = 3.5 mm
- Material: St 1203 or DC 01 + C390 steel in line with DIN EN 10139
- Surface: Sendzimir galvanised
- Application in utilisation classes 1 and 2

Type	C2
Material	Sheet steel
Surface	Hot dip galvanized

Nominal diameter	Diameter of hole	Art. no.	P. Qty.
50 mm	12.4 mm	0451 011 50	300
62 mm	12.4 mm	0451 011 62	100
75 mm	16.4 mm	0451 011 75	100

CE marking in line with EN 912 pending.

Transverse load in the compressed surfaces should not be higher than 2.5 N/mm² for solid wood or 3 N/mm² for laminated wood.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Single-sided tooth plate connector Type C11

Single-sided tooth plate connectors (type C11) are used for metal-wood or wood-wood connections (softwood) in combination with bolts or wood screws to absorb shear forces. The bolts or screws subject to load absorb the clamping and tensile forces in the bolt axis.



- In line with DIN EN 912:2011-09
- Material: Malleable iron EN-GJMB-350-10 in line with DIN EN 1562
- Surface: Galvanised, A4K
- Application in utilisation classes 1 and 2

Type	C11
Material	Malleable cast iron
Surface	Zinc plated

Continuation **Single-sided tooth plate connector Type C11**

Nominal diameter	Diameter of hole	Art. no.	P. Qty.
50 mm	12.5 mm	0451 031 50	50
65 mm	16.5 mm	0451 031 65	50
80 mm	20.5 mm	0451 031 80	25
95 mm	24.5 mm	0451 031 95	25

CE marking in line with EN 14545:2008



Transverse load in the compressed surfaces should not be higher than 2.5 N/mm² for solid wood or 3 N/mm² for laminated wood.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Double-sided tooth plate connector Type C10

Double-sided tooth plate connectors (type C10) are used for wood-wood connections (softwood) in combination with bolts or wood screws to absorb shear forces. The bolts or screws subject to load absorb the clamping and tensile forces in the bolt axis.

- In line with DIN EN 912:2011-09
- Material: Malleable iron EN-GJMB-350-10 in line with DIN EN 1562
- Surface: Galvanised, A4K
- Application in utilisation classes 1 and 2



Type	C10
Material	Malleable cast iron
Surface	Zinc plated

Nominal diameter	Diameter of hole	Art. no.	P. Qty.
50 mm	30.4 mm	0451 041 50	50
65 mm	35 mm	0451 041 65	50
80 mm	50 mm	0451 041 80	25
95 mm	66 mm	0451 041 95	25

CE marking in line with EN 14545:2008



Transverse load in the compressed surfaces should not be higher than 2.5 N/mm² for solid wood or 3 N/mm² for laminated wood. Alternatively, double-shear connections can also be made using ASSY plus full-thread screws in combination with washer head screws.

Available work documents:

Load tables and detailed processing instructions can be found on the service page www.wuerth.de/holzverbinder.

Plug-in connector, wood/wood

Ideal for concealed or visible connections, the plug-in connectors enable a high degree of pre-fabrication and hence a considerable reduction in assembly times



- Rapid assembly of load-bearing wood/wood connections
- Significant reduction in assembly time due to high degree of pre-fabrication
- Multiple dimensions for tailor-made and reliable solutions

Material	Aluminium
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Type description	Length x width x height	Beam cross-section of main carrier min. (B/H)	Min. beam cross-section of subcarrier (B/H)	Diameter of hole	Art. no.	P. Qty.
XS 5	50 x 30 x 12 mm	50 x 80 mm	50 x 80 mm	5 mm	0681 352 240	10
XS 10	70 x 30 x 12 mm	50 x 100 mm	50 x 100 mm	5 mm	0681 352 241	10
XS 15	90 x 30 x 12 mm	50 x 120 mm	50 x 120 mm	5 mm	0681 352 242	10
XS 20	110 x 30 x 12 mm	50 x 140 mm	50 x 140 mm	5 mm	0681 352 243	10
S 5	50 x 40 x 12 mm	60 x 80 mm	60 x 80 mm	5 mm	0681 352 244	10
S 10	70 x 40 x 12 mm	60 x 100 mm	60 x 100 mm	5 mm	0681 352 245	10
S 15	90 x 40 x 12 mm	60 x 120 mm	60 x 120 mm	5 mm	0681 352 246	10
S 20	110 x 40 x 12 mm	60 x 140 mm	60 x 140 mm	5 mm	0681 352 247	10
M 15	90 x 60 x 14 mm	65 x 120 mm	80 x 120 mm	7 mm	0681 352 248	10
M 20	110 x 60 x 14 mm	65 x 140 mm	80 x 140 mm	7 mm	0681 352 249	10
M 25	130 x 60 x 14 mm	65 x 160 mm	80 x 160 mm	7 mm	0681 352 250	10
M 30	150 x 60 x 14 mm	65 x 180 mm	80 x 180 mm	7 mm	0681 352 251	10
M 40	170 x 60 x 14 mm	65 x 200 mm	80 x 200 mm	7 mm	0681 352 252	10
L 30	150 x 80 x 18 mm	100 x 180 mm	100 x 180 mm	8.5 mm	0681 352 253	4
L 40	170 x 80 x 18 mm	100 x 200 mm	100 x 200 mm	8.5 mm	0681 352 254	4
L 50	210 x 80 x 18 mm	100 x 240 mm	100 x 240 mm	8.5 mm	0681 352 255	4
L 60	250 x 80 x 18 mm	100 x 280 mm	100 x 280 mm	8.5 mm	0681 352 256	4
L 80	290 x 80 x 18 mm	100 x 320 mm	100 x 320 mm	8.5 mm	0681 352 257	4
L 100	330 x 80 x 18 mm	100 x 360 mm	100 x 360 mm	8.5 mm	0681 352 501	4
L 120	370 x 80 x 18 mm	400 x 100 mm	100 x 400 mm	8.5 mm	0681 352 502	4
XL 55	250 x 120 x 20 mm	160 x 280 mm	140 x 280 mm	9 mm	0681 352 258	1
XL 70	290 x 120 x 20 mm	160 x 320 mm	140 x 320 mm	9 mm	0681 352 259	1
XL 80	330 x 120 x 20 mm	160 x 360 mm	140 x 360 mm	9 mm	0681 352 260	1
XL 100	370 x 120 x 20 mm	160 x 400 mm	140 x 400 mm	9 mm	0681 352 261	1
XL 120	410 x 120 x 20 mm	160 x 440 mm	140 x 440 mm	9 mm	0681 352 262	1
XL 140	450 x 120 x 20 mm	160 x 480 mm	140 x 480 mm	9 mm	0681 352 263	1
XL 170	490 x 120 x 20 mm	160 x 520 mm	140 x 520 mm	9 mm	0681 352 264	1
XL 190	530 x 120 x 20 mm	160 x 560 mm	140 x 560 mm	9 mm	0681 352 265	1
XL 250	610 x 120 x 20 mm	160 x 640 mm	140 x 640 mm	9 mm	0681 352 266	1
XXL 170	410 x 140 x 20 mm	160 x 440 mm	160 x 440 mm	9 mm	0681 352 267	1
XXL 190	450 x 140 x 20 mm	160 x 480 mm	160 x 480 mm	9 mm	0681 352 268	1
XXL 220	490 x 140 x 20 mm	160 x 520 mm	160 x 520 mm	9 mm	0681 352 269	1
XXL 250	530 x 140 x 20 mm	160 x 560 mm	160 x 560 mm	9 mm	0681 352 270	1
XXL 280	570 x 140 x 20 mm	160 x 600 mm	160 x 600 mm	9 mm	0681 352 271	1
XXL 300	610 x 140 x 20 mm	160 x 640 mm	160 x 640 mm	9 mm	0681 352 272	1



The required wood dimensions can be found in the table below. The recommended cutting depth for the XS-M series should be at least 1 mm less deep than the total thickness of both plates together, and at least 3 mm less deep for the L-XXL series. Please note that longer bolts should be screwed into the end grain.

Depending on the connector type, the appropriate type of special system screws should be used as per ETA-12/0067 approval in order to guarantee the specified characteristic load-bearing values.

Two connector plates can be secured against lifting (if required) through the use of self-tapping, locking system screws.

Base element for tension anchors, two pieces

Ideal for connecting wooden structures to concrete, steel and wood substructures

- Ideal for a range of installation situations due to a variety of combination possibilities with the respective backplate
- Covers various requirements for load removal or bolt hole spacing due to different geometries
- Pre-production in factory possible, such as assembly of the backplate or complete panelling and completion of internal walls



Approval	ETA-14/0274
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Type description	Width x height x depth	Width	Height	Thickness	Art. no.	P. Qty.
HTA-2PV	60 x 155 x 63 mm	60 mm	155 mm	3 mm	5392 000 300	10
HTA-2PH	60 x 95 x 155 mm	60 mm	95 mm	3 mm	5392 000 301	10
HTA-2PIL	60 x 95 x 195 mm	60 mm	95 mm	3 mm	5392 000 302	10
Vplus-2P	65 x 95 x 90 mm	65 mm	95 mm	4 mm	5392 000 303	10
HTA-2PIL-L	60 x 95 x 255 mm	60 mm	95 mm	3 mm	5392 000 311	10

CE labelling as per European Technical Assessment ETA-14/0274



No damage to wall elements during transport and reduced risk of injury from non-protruding parts

Backplate for tension anchors, two pieces

Ideal for connecting wooden structures to concrete, steel and wood substructures

- Ideal for a range of installation situations due to a variety of combination possibilities with the respective base element
- Pre-production in factory possible, such as assembly of the backplate or complete panelling and completion of internal walls
- High tensile capacities



Thickness	3 mm
Diameter of hole	5.1 mm
Approval	ETA-14/0274

Type description	Width	Height	Number of holes	Art. no.	P. Qty.
BP 40-540	40 mm	540 mm	33 PCS	5392 000 306	10
BP 40-440	40 mm	440 mm	25 PCS	5392 000 305	10
BP 40-340	40 mm	340 mm	18 PCS	5392 000 304	10
BP 60-540	60 mm	540 mm	42 PCS	5392 000 309	10
BP 60-440	60 mm	440 mm	30 PCS	5392 000 308	10
BP 60-340	60 mm	340 mm	20 PCS	5392 000 307	10

CE labelling as per European Technical Assessment ETA-14/0274



No damage to wall elements during transport and reduced risk of injury from non-protruding parts

Floor connector for tension anchors, two pieces

Specially developed for tension anchoring at ground level with timber frame construction or timber panel construction



- Optimum absorption of tensile forces at ground level in connection with 2 backplates
- Pre-production in factory possible, such as assembly of the backplate or complete panelling and completion of internal walls
- High tensile capacities

Width	40 mm
Height	353 mm
Thickness	3 mm
Number of holes	8 PCS
Diameter of hole	6.5 mm
Approval	ETA-14/0274

Art. no. 5392 000 310

P. Qty.: 10

CE labelling as per European Technical Assessment ETA-14/0274



Transportation anchor

With chain link and stop on the cross bar. An expert opinion is available for the transport anchor system with the ASSY 4 Combi T transport anchor bolt or ASSY 3.0 combination screw.

The ASSY transport anchor enables all types of wooden components to be lifted safely and easily

Max. load capacity	1.3 t
Surface	Zinc plated
Length of stirrup piece (c)	165 mm
Internal width (f)	40 mm



Art. no. 0184 000 13

P. Qty.: 2

Please consider the legal instruction at the beginning of this chapter.

Please consider the legal instruction at the beginning of this chapter.

Complies with the machinery directive (89/392/EEC) in version 93/44/EEC.

Maintenance:

- The transportation anchor must be inspected by an expert/safety representative of the company using the product at least once a year. In addition to damage of any kind, the degree of wear must also be determined in particular.
- Modifications and repairs, in particular those involving welding elements to the transportation anchor, are not permitted!
- For safety reasons, the screws must only be used once.

Sling swivel with joint

Attachment point for lifting loads

- Safety factor 4 in all load directions, 180°
- Crack tested to 100%
- Quality class 10

Material	Steel
Surface	Plain
Internal drive (is)	HS17



Thread type x nominal diameter (d1)	Thread length (l1)	Internal diameter (d2)	Bracket width (d3)	Body height (h3)	Art. no.	P. Qty.
M33	50 mm	85 mm	150 mm	80 mm	5162 144 33	1
M36	54 mm	85 mm	150 mm	80 mm	5162 144 36	1
M39	58 mm	85 mm	150 mm	80 mm	5162 144 39	1
M42	63 mm	85 mm	150 mm	80 mm	5162 144 42	1
M45	63 mm	100 mm	176 mm	90 mm	5162 144 45	1

- Suitable for secure raising of loads according to Machinery Directive 2006/42/EC
- Constructed, tested and certified according to GS-OA 15-04 - EN 1677
- Designed for a load of 20,000 load changes

The sling swivel must always be fully screwed into the component. With axial tension, a deviation of +/-5° with a reduction in load-bearing capacity by 10% is permitted.

Weld-on sling swivel

Attachment point for lifting loads

- Safety factor 4 in all load directions, 180°
- Crack tested to 100%
- Quality class 10

Thread type x nominal diameter (d1)	M0
Thread length (l1)	0 mm
Material	Steel
Surface	Plain



Internal diameter (d2)	Bracket width (d3)	Body height (h3)	Interior height (h2)	Height (h1)	Art. no.	P. Qty.
34 mm	66 mm	61 mm	58 mm	131 mm	5162 225 25	1
40 mm	76 mm	158 mm	65 mm	158 mm	5162 225 4	1
45 mm	89 mm	73 mm	65 mm	158 mm	5162 225 67	1
50 mm	96 mm	86 mm	92 mm	201 mm	5162 225 10	1
70 mm	134 mm	255 mm	120 mm	255 mm	5162 225 17	1

- Suitable for secure raising of loads according to Machinery Directive 2006/42/EC
- Constructed, tested and certified according to GS-OA 15-04 - EN 1677
- Designed for a load of 20,000 load changes

The sling swivel must always be fully screwed into the component. With axial tension, a deviation of $\pm 5^\circ$ with a reduction in load-bearing capacity by 10% is permitted.

1-strand chain-lift QC 8

Lifting chain with fork head loading hooks and shortening

- Chain-lift in accordance with EN 818-4
- Chain painted black and chain attachments in red
- Chain components have prescribed H-stamps; each chain-lift receives a traceable chain number with a corresponding chain index card and a UVV label so that recurring inspections can be tracked.



Usable length	2 m
Material	Steel
Quality class	8
Shape of the hook	Fork head hook

Nominal diameter	Load capacity	Product weight (per item)	Gimbal height	Gimbal width	Art. no.	P. Qty.
6 mm	1120 kg	2805 g	110 mm	60 mm	5162 608 612	1
8 mm	2000 kg	3500 g	110 mm	60 mm	5162 608 812	1
10 mm	3150 kg	5200 g	135 mm	75 mm	5162 608 112	1

Further chain configurations can be performed at the customer's request.

1-strand chain-lift QC 10

Lifting chain with fork head loading hooks and shortening

- Chain-lift in accordance with EN 818-4
- Chain painted brown and chain attachments in red
- Chain components have prescribed H-stamps; each chain-lift receives a traceable chain number with a corresponding chain index card and a UVV label so that recurring inspections can be tracked.



Usable length	2 m
Material	Steel
Quality class	10
Shape of the hook	Fork head hook

Nominal diameter	Load capacity	Product weight (per item)	Gimbal height	Gimbal width	Art. no.	P. Qty.
6 mm	1400 kg	1900 g	110 mm	60 mm	5162 610 612	1
8 mm	2500 kg	3000 g	110 mm	60 mm	5162 610 812	1
10 mm	4000 kg	4850 g	135 mm	75 mm	5162 610 112	1

Further chain configurations can be performed at the customer's request.

2-strand chain-lift QC 8

Lifting chain with fork head loading hooks and shortening

- Chain-lift in accordance with EN 818-4
- Chain painted black and chain attachments in red
- Chain components have prescribed H-stamps; each chain-lift receives a traceable chain number with a corresponding chain index card and a UVV label so that recurring inspections can be tracked.

Usable length	2 m
Material	Steel
Quality class	8
Shape of the hook	Fork head hook



Nominal diameter	Load at 45 degrees	Load at 60 degrees	Product weight (per item)	Gimbal height	Art. no.	P. Qty.
6 mm	1600 kg	1120 kg	2700 g	110 mm	5162 608 622	1
8 mm	2800 kg	2000 kg	6500 g	135 mm	5162 608 822	1
10 mm	4250 kg	3150 kg	8500 g	160 mm	5162 608 122	1

Further chain configurations can be performed at the customer's request.

2-strand chain-lift QC 10

Lifting chain with fork head loading hooks and shortening

- Chain-lift in accordance with EN 818-4
- Chain painted black and chain attachments in red
- Chain components have prescribed H-stamps; each chain-lift receives a traceable chain number with a corresponding chain index card and a UVV label so that recurring inspections can be tracked.

Usable length	2 m
Material	Steel
Quality class	10
Shape of the hook	Fork head hook



Nominal diameter	Load at 45 degrees	Load at 60 degrees	Product weight (per item)	Gimbal height	Art. no.	P. Qty.
6 mm	2000 kg	1400 kg	3400 g	110 mm	5162 610 622	1
8 mm	3550 kg	2500 kg	7200 g	135 mm	5162 610 822	1
10 mm	5600 kg	4000 kg	11500 g	160 mm	5162 610 122	1

Further chain configurations can be performed at the customer's request.

3-strand chain-lift QC 8

Lifting chain with fork head loading hooks and shortening

- Chain-lift in accordance with EN 818-4
- Chain painted black and chain attachments in red
- Chain components have prescribed H-stamps; each chain-lift receives a traceable chain number with a corresponding chain index card and a UVV label so that recurring inspections can be tracked.



Usable length	2 m
Material	Steel
Quality class	8
Shape of the hook	Fork head hook

Nominal diameter	Load at 45 degrees	Load at 60 degrees	Product weight (per item)	Gimbal height	Art. no.	P. Qty.
6 mm	2360 kg	1700 kg	7400 g	135 mm	5162 608 632	1
8 mm	4250 kg	3000 kg	11600 g	160 mm	5162 608 832	1
10 mm	6750 kg	4750 kg	17500 g	180 mm	5162 608 132	1

Further chain configurations can be performed at the customer's request.

3-strand chain-lift QC 10

Lifting chain with fork head loading hooks and shortening

- Chain-lift in accordance with EN 818-4
- Chain painted black and chain attachments in red
- Chain components have prescribed H-stamps; each chain-lift receives a traceable chain number with a corresponding chain index card and a UVV label so that recurring inspections can be tracked.



Usable length	2 m
Material	Steel
Quality class	10
Shape of the hook	Fork head hook

Nominal diameter	Load at 45 degrees	Load at 60 degrees	Product weight (per item)	Gimbal height	Art. no.	P. Qty.
6 mm	3000 kg	2120 kg	5400 g	135 mm	5162 610 632	1
8 mm	5300 kg	3750 kg	9700 g	160 mm	5162 610 832	1
10 mm	8000 kg	6000 kg	15400 g	180 mm	5162 610 132	1

Further chain configurations can be performed at the customer's request.

4-strand chain-lift QC 8

Lifting chain with fork head loading hooks and shortening

- Chain-lift in accordance with EN 818-4
- Chain painted black and chain attachments in red
- Chain components have prescribed H-stamps; each chain-lift receives a traceable chain number with a corresponding chain index card and a UVV label so that recurring inspections can be tracked.



Usable length	2 m
Material	Steel
Quality class	8
Shape of the hook	Fork head hook

Nominal diameter	Load at 45 degrees	Load at 60 degrees	Product weight (per item)	Gimbal height	Art. no.	P. Qty.
6 mm	2360 kg	1700 kg	5800 g	135 mm	5162 608 642	1
8 mm	4250 kg	3000 kg	11000 g	160 mm	5162 608 842	1
10 mm	6700 kg	4750 kg	17500 g	180 mm	5162 608 142	1

Further chain configurations can be performed at the customer’s request.

4-strand chain-lift QC 10

Lifting chain with fork head loading hooks and shortening

- Chain-lift in accordance with EN 818-4
- Chain painted black and chain attachments in red
- Chain components have prescribed H-stamps; each chain-lift receives a traceable chain number with a corresponding chain index card and a UVV label so that recurring inspections can be tracked.



Usable length	2 m
Material	Steel
Quality class	10
Shape of the hook	Fork head hook

Nominal diameter	Load at 45 degrees	Load at 60 degrees	Product weight (per item)	Gimbal height	Art. no.	P. Qty.
6 mm	3000 kg	2120 kg	6800 g	135 mm	5162 610 642	1
8 mm	5300 kg	3750 kg	12000 g	160 mm	5162 610 842	1
10 mm	8000 kg	6000 kg	19500 g	180 mm	5162 610 142	1

Further chain configurations can be performed at the customer’s request.



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ELECTRICAL INSTALLATION

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VDE cable junction box W12

Includes hole tool and plugs for closing off previously opened entry points

With external fastening tabs (crosswise and lengthwise hole for later corrections)

According to DIN EN 60670 (VDE 0606)

Length x width x height	85 x 85 x 37 mm
Number of cable entries	12 PCS
IP protection class	IP 54
Nominal voltage	400 V/AC
Min./max. temperature conditions	-25 to 40 °C
Material of the bottom section	Polyethylene
Material of the top section	PP - Polypropylene
Halogen-free	Yes
Silicone-free	Yes

Colour	Art. no.	P. Qty.
Light grey, similar to RAL 7035	0975 050 4	10
Light grey, similar to RAL 7035	0975 050 401	10
Red	0975 050 41	10

VDE cable junction box W16

Includes hole tool and plugs for closing off previously opened entry points

With external fastening tabs (crosswise and lengthwise hole for later corrections)



Length x width x height	130 x 85 x 37 mm
Number of cable entries	16 PCS
Number of cable entries floor	3 PCS
IP protection class	IP 54
Nominal voltage	400 V/AC
Min./max. temperature conditions	-25 to 40 °C
Colour	Light grey, similar to RAL 7035
Material of the bottom section	Polyethylene
Material of the top section	PP - Polypropylene
Halogen-free	Yes
Silicone-free	Yes

Art. no. 0975 050 44

P. Qty.: 5

According to DIN EN 60670 (VDE 0606)



VDE cable junction box WMini

Includes hole tool and plugs for closing off previously opened entry points

With external fastening tabs (crosswise and lengthwise hole for later corrections)



Length x width x height	89 x 43 x 37 mm
Number of cable entries	10 PCS
IP protection class	IP 54
Nominal voltage	400 V/AC
Min./max. temperature conditions	-25 to 40 °C
Colour	Light grey, similar to RAL 7035
Material of the bottom section	Polyethylene
Material of the top section	PP - Polypropylene
Halogen-free	Yes
Silicone-free	Yes

Art. no. 0975 050 43

P. Qty.: 10

According to DIN EN 60670 (VDE 0606)



VDE cable junction box W7

Includes hole tool and plugs for closing off previously opened entry points

With external fastening tabs (crosswise and lengthwise hole for later corrections)



Length x width x height	75 x 75 x 37 mm
Number of cable entries	7 PCS
IP protection class	IP 54
Nominal voltage	400 V/AC
Min./max. temperature conditions	-25 to 40 °C
Colour	Light grey, similar to RAL 7035
Material of the bottom section	Polyethylene
Material of the top section	PP - Polypropylene
Halogen-free	Yes
Silicone-free	Yes

Art. no. 0975 050 42

P. Qty.: 10

According to DIN EN 60670 (VDE 0606)



VDE cable junction box WFK 1

With self-sealing, soft membrane entry points

- Large connection area
- Very robust (impact resistant and unbreakable)
- Plastofast stainless steel screws for a secure cover fit



Max. cable cross section	2.5 mm ²
Length x width x height	80 x 80 x 51 mm
Number of cable entries	7 PCS
Number of cable entries floor	1 PCS
IP protection class	IP 65
Impact resistance	IK07
Nominal voltage	690 V/AC
Min./max. temperature conditions	-25 to 40 °C
Material	PS - Polystyrene
Halogen-free	Yes
Silicone-free	Yes

Design	Colour	Art. no.	P. Qty.
Empty	Light grey, similar to RAL 7035	0975 050 110	3
Empty, with external connection tabs	Light grey, similar to RAL 7035	0975 050 112	3
Empty, with red cover	Light grey, similar to RAL 7035, Red	0975 050 113	3

According to DIN EN 60670 (VDE 0606)



VDE cable junction box WFK 2

With self-sealing, soft membrane entry points

- Large connection area
- Very robust (impact resistant and unbreakable)
- Plastofast stainless steel screws for a secure cover fit



Max. cable cross section	4 mm ²
Length x width x height	93 x 93 x 54 mm
Number of cable entries	7 PCS
Number of cable entries floor	1 PCS
IP protection class	IP 65
Impact resistance	IK07
Nominal voltage	690 V/AC
Min./max. temperature conditions	-25 to 40 °C
Material	PS - Polystyrene
Halogen-free	Yes
Silicone-free	Yes

Design	Colour	Art. no.	P. Qty.
Empty	Light grey, similar to RAL 7035	0975 050 120	3
Empty, with external connection tabs	Light grey, similar to RAL 7035	0975 050 122	3
Empty, with red cover	Light grey, similar to RAL 7035, Red	0975 050 123	3

According to DIN EN 60670 (VDE 0606)



VDE cable junction box WFK 3

Metric knockouts

- Large connection area
- Very robust (impact-resistant and unbreakable)
- Plastofast stainless steel screws for a secure cover fit



Max. cable cross section	6 mm ²
Length x width x height	110 x 110 x 64 mm
Number of cable entries	7 PCS
Number of cable entries floor	2 PCS
IP protection class	IP 65/IP 54
Impact resistance	IK07
Nominal voltage	690 V/AC
Min./max. temperature conditions	-25 to 40 °C
Colour	Light grey, similar to RAL 7035
Material	PS - Polystyrene
Halogen-free	Yes
Silicone-free	Yes

Design	Art. no.	P. Qty.
Empty	0975 050 130	2
With raised screw terminal, 5-pins	0975 050 131	2

According to DIN EN 60670 (VDE 0606)



VDE cable junction box WFK 4

Metric knockouts

- Large connection area
- Very robust (impact-resistant and unbreakable)
- Plastofast stainless steel screws for a secure cover fit



Max. cable cross section	10 mm ²
Length x width x height	140 x 140 x 75 mm
Number of cable entries	10 PCS
Number of cable entries floor	2 PCS
IP protection class	IP 65/IP 54
Impact resistance	IK07
Nominal voltage	690 V/AC
Min./max. temperature conditions	-25 to 40 °C
Colour	Light grey, similar to RAL 7035
Material	PS - Polystyrene
Halogen-free	Yes
Silicone-free	Yes

Design	Art. no.	P. Qty.
Empty	0975 050 140	2
With raised screw terminal, 5-pins	0975 050 141	2

According to DIN EN 60670 (VDE 0606)



VDE cable junction box 2K-W12

Quick assembly thanks to soft membranes — no tools required to open the cable entries

- With external fastening tabs (cross hole and slotted hole for later corrections)
- Assembly possible by means of cable ties (e.g. on cable channels)
- For cables up to 5x 2.5 mm²
- Made in Germany



Length x width x height	80 x 80 x 37 mm
Number of cable entries	12 PCS
Number of cable entries floor	2 PCS
IP protection class	IP 55
Nominal voltage	400 V/AC
Min./max. temperature conditions	-25 to 35 °C
Colour	Light grey
Material of the bottom section	PP - Polypropylene
Material of the top section	Polyethylene
Halogen-free	Yes
Silicone-free	Yes

Art. no. 0975 050 410

P. Qty.: 10



ELMO® AP damp-room universal switch

Off/toggle

- Including lighting
- Including labelling field
- Inlet openings on all four sides of the housing
- Screwless terminals for line cross-sections up to 2.5 mm²
- Large, installation-friendly wiring area

Nominal voltage	250 V/AC
Nominal current	10 A



Continuation **ELMO® AP damp-room universal switch**

IP protection class	IP 44
Width	78 mm
Height	78 mm
Depth	61 mm
Min./max. temperature conditions	-20 to 110 °C
Material	Polycarbonate - PC
Halogen-free	Yes
PVC-free	Yes

Colour	Art. no.	P. Qty.
Anthracite	0978 802 001	6
Arctic white	0978 801 001	6
Grey	0978 800 001	6



Elmo® AP damp-room button

Changeover

Including lighting

No expensive retrofitting necessary

Including labelling field

Inlet openings on all four sides of the housing

Through-wiring possible in all directions (vertical and horizontal)

Screwless terminals for line cross-sections up to 2.5 mm²

Large, installation-friendly wiring area

Saves time during installation



Nominal voltage	250 V/AC
Nominal current	10 A
IP protection class	IP 44
Width	78 mm
Height	78 mm
Depth	61 mm
Min./max. temperature conditions	-20 to 110 °C
Material	Polycarbonate - PC
Halogen-free	Yes
PVC-free	Yes

Colour	Art. no.	P. Qty.
Anthracite	0978 802 003	2
Arctic white	0978 801 003	2
Grey	0978 800 003	2



AP damp-room intermediate switch

Screwless terminals for conductor cross-sections up to 2.5 mm²

Installation friendly wiring space saves time during installation

Colour	Grey
Nominal voltage	250 V/AC
Nominal current	10 A
IP protection class	IP 44
Material	Thermoplast
Halogen-free	Yes



Art. no. 0978 804 002

P. Qty.: 6



ELMO® AP damp-room universal switch/socket, vertical

Screwless terminals for conductor cross-sections up to 2.5 mm²

- Includes lighting: cost-saving as expensive retrofitting is unnecessary
- With labelling field
- Entry openings on all four sides of the housing make wiring in all directions possible (vertical and horizontal)
- Large, installation-friendly wiring space saves time during installation

Nominal voltage	250 V/AC
Nominal current of switch	10 A
Nominal current of socket	16 A
IP protection class	IP 44
Height	158.5 mm
Width	78 mm
Depth	61 mm
Min./max. temperature conditions	-20 to 110 °C
Material	Polycarbonate - PC
Halogen-free	Yes
PVC-free	Yes



Continuation **ELMO® AP damp-room universal switch/socket, vertical**

Colour	Art. no.	P. Qty.
Anthracite	0978 802 009	1
Arctic white	0978 801 009	1
Grey	0978 800 009	1



ELMO® AP damp-room earthing contact plug socket

Without lock

- Inlet openings on all four sides of the housing
- Screwless terminals for line cross-sections up to 2.5 mm²
- Large, installation-friendly wiring area

Nominal voltage	250 V/AC
Nominal current	16 A
IP protection class	IP 44
Width	78 mm
Height	78 mm
Depth	60 mm
Min./max. temperature conditions	-20 to 110 °C
Material	Polycarbonate - PC
Halogen-free	Yes
PVC-free	Yes



Colour	Art. no.	P. Qty.
Anthracite	0978 802 007	6
Arctic white	0978 801 007	6
Grey	0978 800 007	6



ELMO® AP damp room earthing contact plug socket

With lock

- Including labelling field
- Inlet openings on all four sides of the housing
- Screwless terminals for line cross-sections up to 2.5 mm²

Nominal voltage	250 V/AC
Nominal current	16 A
IP protection class	IP 44
Width	78 mm



Height	78 mm
Depth	60 mm
Min./max. temperature conditions	-20 to 110 °C
Material	Polycarbonate - PC
Halogen-free	Yes
PVC-free	Yes

Colour	Closure	Art. no.	P. Qty.
Anthracite	0	0978 802 008	2
Anthracite	1	0978 802 018	2
Anthracite	2	0978 802 028	2
Anthracite	3	0978 802 038	2
Anthracite	4	0978 802 048	2
Anthracite	5	0978 802 058	2
Anthracite	6	0978 802 068	2
Anthracite	7	0978 802 078	2
Anthracite	8	0978 802 088	2
Anthracite	9	0978 802 098	2
Anthracite	10	0978 802 108	2
Arctic white	0	0978 801 008	2
Arctic white	1	0978 801 018	2
Arctic white	2	0978 801 028	2
Arctic white	3	0978 801 038	2
Arctic white	4	0978 801 048	2
Arctic white	5	0978 801 058	2
Arctic white	6	0978 801 068	2
Arctic white	7	0978 801 078	2
Arctic white	8	0978 801 088	2
Arctic white	9	0978 801 098	2
Arctic white	10	0978 801 108	2
Grey	0	0978 800 008	2
Grey	1	0978 800 018	2
Grey	2	0978 800 028	2
Grey	3	0978 800 038	2
Grey	4	0978 800 048	2
Grey	5	0978 800 058	2
Grey	6	0978 800 068	2
Grey	7	0978 800 078	2
Grey	8	0978 800 088	2
Grey	9	0978 800 098	2
Grey	10	0978 800 108	2



ELMO® AP damp room earthing contact plug socket

Twin horizontal

Including labelling field

Inlet openings on all four sides of the housing

Through-wiring possible in all directions (vertical and horizontal)

Screwless terminals for line cross-sections up to 2.5 mm²

Large, installation-friendly wiring area

Saves time during installation



Nominal voltage	250 V/AC
Nominal current	16 A
IP protection class	IP 44
Width	158.5 mm
Height	78 mm
Depth	60 mm
Min./max. temperature conditions	-20 to 110 °C
Material	Polycarbonate - PC
Halogen-free	Yes
PVC-free	Yes

Colour	Art. no.	P. Qty.
Anthracite	0978 802 010	1
Arctic white	0978 801 010	1
Grey	0978 800 010	1



ELMO® AP damp room earthing contact plug socket

Twin vertical

Including labelling field

Inlet openings on all four sides of the housing

Through-wiring possible in all directions (vertical and horizontal)

Screwless terminals for line cross-sections up to 2.5 mm²

Large, installation-friendly wiring area

Saves time during installation



Nominal voltage	250 V/AC
Nominal current	16 A
IP protection class	IP 44
Width	78 mm
Height	158.5 mm
Depth	60 mm
Min./max. temperature conditions	-20 to 110 °C
Material	Polycarbonate - PC

Halogen-free	Yes
PVC-free	Yes

Colour	Art. no.	P. Qty.
Anthracite	0978 802 011	1
Arctic white	0978 801 011	1
Grey	0978 800 011	1



ELMO® AP damp room earthing contact plug socket

With combination lock

- Inlet openings on all four sides of the housing
- Screwless terminals for line cross-sections up to 2.5 mm²
- Large, installation-friendly wiring area



Nominal voltage	250 V/AC
Nominal current	16 A
IP protection class	IP 44
Width	78 mm
Height	78 mm
Depth	71 mm
Min./max. temperature conditions	-20 to 110 °C
Material	Polycarbonate - PC
Halogen-free	Yes
PVC-free	Yes

Colour	Art. no.	P. Qty.
Anthracite	0978 802 158	1
Arctic white	0978 801 158	1
Grey	0978 800 158	1

Oven connection cable

VDE plastic cable H05VV-F

- With 8 mm long wire end ferrules
- One side 80 mm stripped, the other side 100 mm stripped

Cable type	H05VV-F5G2.5 mm²
Connection type	Both ends with wire end ferrules
Colour	White



Length	Art. no.	P. Qty.
1.5 m	0975 050 6	10
2 m	0975 050 61	5

Cavity wall device box

Integrated cable retainer for NYM conductors to DIN 60670/DIN 49073

- Self-locking of the pipes
- Break-out openings for corrugated pipes, NYM conductors and low-voltage conductors



Depth	47 mm
Milled-hole diameter	68 mm
Suitable for plate thickness	7 - 40 mm
Connection variants	NYM and extra-low voltage lines, 2 pipes EN 20
Number of line entries	6 PCS
Number of connection pieces	7 PCS
Halogen-free	No
Air-tight in accordance with German Energy Saving Ordinance (EnEV)/Building Energy Act (GEG)	No
Flame-retardant	850 °C
IP protection class	IP 30
Material	PP - Polypropylene

		Art. no.	P. Qty.
		0975 030 70	20
		0975 030 700	250



Fire protection cavity wall appliance socket with sound protection function

Milling hole-Ø 68 mm for quick and easy installation without additional rework

- Fire resistance class to EI120 and EI30 to EI60 without insulation wool
- Tool-free pipe and cable routing (with cable retainer in accordance with DIN EN 60670)
- Meets sound protection requirements in accordance with DIN EN ISO 10 140 (maintains sound protection function of the wall)



Depth	50 mm
Milled-hole diameter	68 mm
Suitable for plate thickness	5 - 40 mm
Connection variants	NYM and extra-low voltage lines, 2 pipes EN 25
Number of line entries	4 PCS
Number of connection pieces	5 PCS
Halogen-free	Yes

Air-tight in accordance with German Energy Saving Ordinance (EnEV)/Building Energy Act (GEG)	Yes
Flame-retardant	850°C
IP protection class	IP 30
Material	PP - Polypropylene

Art. no. 0975 033 70

P. Qty.: 10



Cavity wall appliance socket LAN

Air-tight design

- For professional installation (maintenance of bending radii) of network cables in accordance with DIN EN 50173

Depth	60 mm
Milled-hole diameter	68 mm
Suitable for plate thickness	5 - 25 mm
Connection variants	3 cable entries
Number of line entries	3 PCS
Halogen-free	No
Air-tight in accordance with German Energy Saving Ordinance (EnEV)/Building Energy Act (GEG)	Yes
Flame-retardant	850°C
IP protection class	IP 30
Material	PP - Polypropylene



Art. no. 0975 032 70

P. Qty.: 10





Cavity wall device connection box

Integrated cable retainer for NYM conductors to DIN 60670/DIN 49073

- Self-locking of the pipes
- Break-out openings for corrugated pipes, NYM conductors and low-voltage conductors

Depth	61 mm
Milled-hole diameter	68 mm
Suitable for plate thickness	7 - 40 mm
Connection variants	NYM and extra-low voltage lines, 4 pipes EN 20
Number of line entries	8 PCS
Number of connection pieces	7 PCS
Halogen-free	No
Air-tight in accordance with German Energy Saving Ordinance (EnEV)/Building Energy Act (GEG)	No
Flame-retardant	850°C
IP protection class	IP 30
Material	PP - Polypropylene

		Art. no.	P. Qty.
		0975 030 80	20
		0975 030 800	250

Fire protection cavity wall appliance connection box with sound protection function

Milling hole-Ø 68 mm for quick and easy installation without additional rework

- Fire resistance class to EI120 and EI30 to EI60 without insulation wool
- Tool-free pipe and cable routing (with cable retainer in accordance with DIN EN 60670)
- Meets sound protection requirements in accordance with DIN EN ISO 10 140 (maintains sound protection function of the wall)



Depth	62 mm
Milled-hole diameter	68 mm
Suitable for plate thickness	5 - 40 mm
Connection variants	NYM and extra-low voltage lines, 2 pipes EN 25
Number of line entries	4 PCS
Number of connection pieces	5 PCS
Halogen-free	Yes
Air-tight in accordance with German Energy Saving Ordinance (EnEV)/Building Energy Act (GEG)	Yes
Flame-retardant	850°C
IP protection class	IP 30
Material	PP - Polypropylene

Art. no. 0975 033 80

P. Qty.: 10



ELMO® flush-mounted device box

Non-interchangeable attachment bushes

- Four screw bosses
- EN 20 and EN 25 entries

Height	42 mm
Installation diameter (Ø)	60 mm
Number/type of cables/pipe entries	6 + 1 EN 20, 2 EN 25
Flame-retardant	650°C
IP protection class	IP 20
Material	PS - Polystyrene



Art. no. 0975 010 421

P. Qty.: 20/200

Continuation **ELMO® flush-mounted device box**



FM device box, standard

Compatible with Kaiser appliance sockets with snap-lock coupling

Four screw bosses

Height	42 mm
Installation diameter (Ø)	60 mm
Number/type of cables/pipe entries	2 EN 16, 5 + 1 EN 20
Flame-retardant	650°C
IP protection class	IP 20
Material	PS - Polystyrene



Design	Art. no.	P. Qty.
Without nail straps	0975 010 401	20/200
With nail straps	0975 010 402	20



Flush-mounted electronics box Kaiser

Provides space for additional electronic components (EIB actuators, radio-controlled elements etc.)

- Four screw bosses incl. two device screws
- EN 20 and EN 25 entries
- Including divider for installing different voltage types

Height	67 mm
Length x width	149 x 78 mm
Installation diameter (Ø)	60 mm
Number/type of cables/pipe entries	14 + 1 EN 20, 6 EN 25
Flame-retardant	650°C
IP protection class	IP 20
Material	PS - Polystyrene



Art. no. 0975 010 400

P. Qty.: 10



ELMO® flush-mounted device connection box

Non-interchangeable attachment bushes

- Four screw bosses
- EN 20 and EN 25 entries



Height	63 mm
Installation diameter (Ø)	60 mm
Number/type of cables/pipe entries	10 + 1 EN 20, 2 EN 25
Flame-retardant	650°C
IP protection class	IP 20
Material	PS - Polystyrene

Art. no. 0975 010 423

P. Qty.: 20/130



Flush-mounted device connection box, standard

Compatible with Kaiser appliance sockets with snap-lock coupling

Four screw bosses



Height	63 mm
Installation diameter (Ø)	60 mm
Number/type of cables/pipe entries	2 EN 16, 9 + 1 EN 20
Flame-retardant	650°C
IP protection class	IP 20
Material	PS - Polystyrene

Design	Art. no.	P. Qty.
Without nail straps	0975 010 403	20/140
With nail straps	0975 010 404	20



Flush-mounted device connection box, airtight Kaiser

Prevents leaks in external walls made of hollow block bricks

- Four screw bosses
- EN 20 and EN 25 entries
- Airtight design with sealing membranes



Height	66 mm
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Continuation **Flush-mounted device connection box, airtight Kaiser**

Installation diameter (Ø)	60 mm
Number/type of cables/pipe entries	6 EN 20, 6 EN 25
Flame-retardant	650°C
IP protection class	IP 20
Material	PS - Polystyrene

Art. no. 0975 010 433

P. Qty.: 25



Moveable flange

For compensating for flush-mounted device boxes that are set too deep

- With 2 mounted device screws
- For compliance with IP degree of protection

Flame-retardant	650°C
Halogen-free	Yes
Material	PS - Polystyrene



Diameter (Ø)	Height	Art. no.	P. Qty.
60 mm	12 mm	0975 010 60	50
60 mm	24 mm	0975 010 600	25
70 mm	12 mm	0975 010 70	50

Plaster cover

Reusable

- Signal cover for easy location of boxes after plastering
- Protects the inside of the box and the screw domes

Flame-retardant	650°C
Halogen-free	Yes
Material	PE - Polyethylene



Diameter (Ø)	Art. no.	P. Qty.
60 mm	0975 010 601	50
70 mm	0975 010 701	50

Spring cover

With break-proof springs

Halogen- and silicone-free

Flame-retardant	650°C
Halogen-free	Yes
Material	PS - Polystyrene



Diameter (Ø)	Art. no.	P. Qty.
72 mm	0975 020 60	100
82 mm	0975 020 70	100

ELMO® device screw

Drive: Combi PZ with slot

Excellent corrosion protection

Diameter (Ø)	3.2 mm
Internal drive	Z1+slot
Material	Steel
Surface	Zinc nickel



Length	Art. no.	P. Qty.
15 mm	0975 010 315	100/500
25 mm	0975 010 325	100/500
40 mm	0975 010 340	100/500

Device screw

Diameter (Ø)	3.2 mm
Internal drive	Slot
Material	Steel
Surface	Zinc plated



Length	Art. no.	P. Qty.
15 mm	0975 032 15	100/500
25 mm	0975 032 25	100/500
40 mm	0975 032 40	100/500

Universal 10 in 1 wrench

With innovative rotation mechanism

- Eight different lock heads
- 2-way rotation mechanism
- Can be used in pistol grip version or connected together



Profiles

- Square drive: 5 / 6-7 / 8-9 mm / 2 x 1/4 inch
- Triangular drive: 5-6 / 6-7 / 8-9 mm
- Hexagon socket: 1/4 inch
- Two-wing: 3-5 mm

Width	38 mm
Length	130 mm
Height	38 mm

Art. no. 0715 16 30

P. Qty.: 1



Standard cable connector with plastic latch

For quick, problem-free and reliable bundling of cables, cable harnesses, hoses etc.

- Good recycling properties
- No additional assembly tools required
- Resistant to bases, oils, greases and motor vehicle fuels

Material	PA - Polyamide
Min./max. temperature resistance	-40 to 85 °C
Min./max. processing temperature	-10 to 85 °C
Silicone-free	Yes
Halogen-free	Yes

Colour	Width	Length	Min./max. bundle diameter (Bündel-Ø min./max.)	Art. no.	P. Qty.
Black	2.5 mm	100 mm	1.6-20 mm	0502 111	100/300/1000
Black	3.6 mm	140 mm	1.6-30 mm	0502 121	100/300/1000
Black	3.6 mm	200 mm	1.6-40 mm	0502 131	100/1000
Black	3.6 mm	280 mm	1.6-75 mm	0502 135 1	100/500
Black	4.8 mm	178 mm	1.6-40 mm	0502 141	100/300/1000
Black	4.8 mm	250 mm	4-68 mm	0502 141 4	100

Continuation **Standard cable connector with plastic latch**

Colour	Width	Length	Min./max. bundle diameter (Bündel-Ø min./max.)	Art. no.	P. Qty.
Black	4.8 mm	280 mm	1.6-75 mm	0502 151	100/300
Black	4.8 mm	360 mm	1.6-100 mm	0502 161	100/300
Black	7.8 mm	180 mm	1.6-40 mm	0502 171	100
Black	7.8 mm	300 mm	5-76 mm	0502 171 3	100
Black	7.8 mm	360 mm	1.6-100 mm	0502 181	100
Black	7.8 mm	540 mm	25-150 mm	0502 190 1	100
Black	7.8 mm	750 mm	40-220 mm	0502 181 3	100
Black	12.5 mm	720 mm	48-220 mm	0502 201 1	50
Black	12.5 mm	1000 mm	48-300 mm	0502 202 2	50
Natural	2.5 mm	100 mm	1.6-20 mm	0502 11	100/1000
Natural	2.5 mm	200 mm	1-52 mm	0502 115	1000
Natural	3.6 mm	140 mm	1.6-30 mm	0502 12	100/1000
Natural	3.6 mm	200 mm	1.6-40 mm	0502 13	100/1000
Natural	3.6 mm	280 mm	1.6-75 mm	0502 135	100/500
Natural	4.8 mm	178 mm	1.6-40 mm	0502 14	100/1000
Natural	4.8 mm	250 mm	4-68 mm	0502 14 4	100
Natural	4.8 mm	280 mm	1.6-75 mm	0502 15	100
Natural	4.8 mm	360 mm	1.6-100 mm	0502 16	100
Natural	7.8 mm	180 mm	1.6-40 mm	0502 17	100
Natural	7.8 mm	360 mm	1.6-100 mm	0502 18	100
Natural	7.8 mm	540 mm	25-150 mm	0502 19	100
Natural	7.8 mm	750 mm	40-220 mm	0502 181 31	100
Natural	12.5 mm	720 mm	48-220 mm	0502 201	50
Natural	12.5 mm	1000 mm	48-300 mm	0502 202	50

Coloured cable tie with plastic tongue closure

For quick, problem-free and reliable bundling of cables, cable harnesses, hoses etc. with colour coding

Safely bundled cables

Tie with inner teeth

No additional assembly tool required

Can be fixed by hand

Material	PA - Polyamide
Width	3.5 mm
Length	200 mm
Min./max. bundle diameter (Bündel-Ø min./max.)	3-55 mm
Min./max. temperature resistance	-15 to 85 °C
Silicone-free	Yes
Halogen-free	Yes

Colour	Art. no.	P. Qty.
Red	0502 410	100
Orange	0502 420	100
Yellow	0502 430	100

Colour	Art. no.	P. Qty.
Green	0502 440	100
Blue	0502 450	100
Violet	0502 460	100

Cable ties KBL 2 black with plastic latch

For quick organisation and bundling of industrial-quality cables, wires etc. for indoor and outdoor use

- Quick installation and easy processing thanks to the slightly uncoiled, pointed tie end and one-piece wedge closure
- No damage to the insulation of e.g. cables caused by sharp edges due to the rounded and smooth exterior
- High degree of resistance to UV and weathering



Material	PA - Polyamide
Colour	Black
Min./max. temperature resistance	-40 to +85 °C
Min./max. processing temperature	-20 to +85 °C
Ultraviolet resistance	Yes
Silicone-free	Yes
Halogen-free	Yes
RoHS-compliant	Yes
Flammability	Self-extinguishing in accordance with UL94 V2

Width	Length	Min./max. bundle diameter (Bündel-Ø min./max.)	Min. tensile force	Art. no.	P. Qty.
2.5 mm	100 mm	1.5-22 mm	80 N	0502 000 111	100
3.6 mm	140 mm	2-33 mm	178 N	0502 000 121	100
3.6 mm	200 mm	2-53 mm	178 N	0502 000 131	100
3.6 mm	300 mm	2-76 mm	178 N	0502 000 101	100
4.8 mm	188 mm	3-24 mm	222 N	0502 000 141	100
4.8 mm	300 mm	3-76 mm	222 N	0502 000 151	100
4.8 mm	370 mm	3-102 mm	222 N	0502 000 161	100
7.6 mm	368 mm	7-102 mm	534 N	0502 000 181	50
7.6 mm	533 mm	7-140 mm	534 N	0502 000 191	100
7.6 mm	750 mm	7-218 mm	534 N	0502 000 195	50

Please consider the legal instruction at the beginning of this chapter.

Tested in line with EN 62275, IEC 62275, UL 62275 type 2.21 (CSA)



Cable ties KBL 2 natural with plastic latch

For quick organisation and bundling of industrial-quality cables, wires, etc. for indoor applications

- Quick installation and easy processing thanks to the slightly uncoiled, pointed tie end and one-piece wedge closure
- No damage to the insulation of e.g. cables caused by sharp edges due to the rounded and smooth exterior
- Suitable for processing by hand or with tools



Material	PA - Polyamide
Colour	Natural
Min./max. temperature resistance	-40 to +85 °C
Min./max. processing temperature	-20 to +85 °C
Ultraviolet resistance	No
Silicone-free	Yes
Halogen-free	Yes
RoHS-compliant	Yes
Flammability	Self-extinguishing in accordance with UL94 V2

Width	Length	Min./max. bundle diameter (Bündel-Ø min./max.)	Min. tensile force	Art. no.	P. Qty.
2.5 mm	100 mm	1.5-22 mm	80 N	0502 000 011	100
3.6 mm	140 mm	2-33 mm	178 N	0502 000 012	100
3.6 mm	200 mm	2-53 mm	178 N	0502 000 013	100
3.6 mm	300 mm	2-76 mm	178 N	0502 000 010	100
4.8 mm	188 mm	3-24 mm	222 N	0502 000 014	100
4.8 mm	300 mm	3-76 mm	222 N	0502 000 015	100
4.8 mm	370 mm	3-102 mm	222 N	0502 000 016	100
7.6 mm	368 mm	7-102 mm	534 N	0502 000 018	50
7.6 mm	533 mm	7-218 mm	534 N	0502 000 019	100
7.6 mm	750 mm	7-140 mm	534 N	0502 000 196	50

Tested in line with EN 62275, IEC 62275, UL 62275 type 2.21 (CSA)



Cable tie, black assortment

250-piece in system case

Scope of delivery:

- 50 x cable ties 2.5 x 100
- 50 x cable ties 3.6 x 140
- 100 x cable ties 4.8 x 178
- 25 x cable ties 4.8 x 280
- 25 x cable ties 4.8 x 360



Number of pieces in assortment/set	250 PCS
Material	PA - Polyamide
Silicone-free	Yes
Min./max. temperature resistance	-40 to 85 °C



Art. no. 5964 050 200

P. Qty.: 1



Standard cable connector with metal latch

For quick, problem-free and reliable bundling of cables, cable harnesses and hoses etc., with elevated requirements around minimum tensile strength.

- Corrosion-resistant, anti-magnetic metal closure
- Hand operable
- Increased safety for the user

Min./max. temperature resistance	-40 to 85 °C
Material	PA - Polyamide
Silicone-free	Yes
Halogen-free	Yes

Width	Length	Min./max. bundle diameter (Bündel-Ø min./max.)	Max. tensile force	Colour	Art. no.	P. Qty.
2.5 mm	100 mm	1.6-24 mm	180 N	Black	0502 211	100/1000
2.5 mm	100 mm	1.6-24 mm	180 N	Natural	0502 21	100/1000
3.5 mm	140 mm	1.6-36 mm	280 N	Black	0502 221	100
3.5 mm	140 mm	1.6-36 mm	280 N	Natural	0502 22	100/1000
4.5 mm	186 mm	1.6-46 mm	400 N	Black	0502 231	100/1000
4.5 mm	186 mm	1.6-46 mm	400 N	Natural	0502 23	100/1000
4.5 mm	290 mm	1.6-76 mm	400 N	Black	0502 241	100/1000
4.5 mm	290 mm	1.6-76 mm	400 N	Natural	0502 25	100/1000
4.5 mm	360 mm	1.6-101 mm	400 N	Black	0502 241 0	100/1000

Width	Length	Min./max. bundle diameter (Bündel-Ø min./max.)	Max. tensile force	Colour	Art. no.	P. Qty.
4.5 mm	360 mm	1.6-101 mm	400 N	Natural	0502 24	100/1000
7.6 mm	360 mm	4.8-101 mm	800 N	Black	0502 251 0	50/500
7.6 mm	360 mm	4.8-101 mm	800 N	Natural	0502 26	50/500

UV-resistant cable ties with metal latch fastening

For quick, problem-free and reliable bundling of cables, cable harnesses and hoses etc., at elevated requirements of minimum tensile strength.

- Corrosion-resistant, anti-magnetic metal latch fastening
- Can be fixed by hand
- Convenient looping
- Increased user safety

Min./max. temperature resistance	-40 to 105 °C
Material	PA - Polyamide
Silicone-free	Yes
Halogen-free	Yes
Colour	Black

Width	Length	Min./max. bundle diameter (Bündel-Ø min./max.)	Max. tensile force	Art. no.	P. Qty.
2.4 mm	92 mm	2-16 mm	80 N	0502 271 92	100
3.6 mm	140 mm	2-29 mm	180 N	0502 271 140	100
4.8 mm	186 mm	3.5-45 mm	220 N	0502 271 186	100
4.8 mm	360 mm	3.5-102 mm	220 N	0502 271 360	100
6.9 mm	340 mm	6-90 mm	540 N	0502 271 338	50

Please consider the legal instruction at the beginning of this chapter.

UL authorisation E49405

Cable tie for single-hole mounting

With moulded, moveable locking head for 90° insertion of the tie

Special cable tie with 90° tie insertion

- Single-hole mounting possible without screws or adhesive
- No costs for additional mounting parts

Safely bundled cables

Tie with inner teeth

Quick and simple threading

Bent-up cable tie ends

No additional assembly tool required

Can be fixed by hand

Continuation **Cable tie for single-hole mounting**

Material	PA - Polyamide
Min./max. temperature resistance	-40 to 85 °C
Ultraviolet resistance	Yes
Halogen-free	Yes
Silicone-free	Yes
Colour	Black

Length (L)	Min./max. bundle diameter (Ø)	Min./max. drill hole diameter	Locking-head height	Corresponds to original spare part number	Art. no.	P. Qty.
140 mm	1.6-32 mm	2.5-3.8 mm	3.2 mm		0502 311 0	100
172 mm	1.6-45 mm	5.1-6.4 mm	4.2 mm		0502 331 0	100
206 mm	1.6-50 mm	3.8-5.3 mm	3.7 mm		0502 321 0	100
279 mm	1.6-76 mm	5.1-6.4 mm	4.2 mm	001 997 8390	0502 341 0	100
376 mm	1.6-102 mm	8.0-10.2 mm	6.4 mm	001 997 8490	0502 351 0	100

Reusable cable tie with plastic latch

- No sharp edges

Width	7.5 mm
Min./max. temperature resistance	-10 to 80 °C

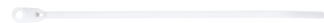


Length (L)	Min./max. bundle diameter (Ø)	Colour	Art. no.	P. Qty.
200 mm	6-50 mm	Black	0502 300 431	100
200 mm	6-50 mm	Natural	0502 300 430	100
280 mm	6-76 mm	Black	0502 300 433	100
280 mm	6-76 mm	Natural	0502 300 432	100
360 mm	6-100 mm	Black	0502 300 435	100
360 mm	6-100 mm	Natural	0502 300 434	100

Special cable tie with metal closure and fastening eyelet

For fastening to running gear or bodywork after tying

Length (L)	198 mm
Min./max. bundle diameter (Ø)	3.5-45 mm
Drill hole diameter	4.8 mm
Material	PA - Polyamide
Min./max. temperature resistance	-40 to 85 °C
Halogen-free	Yes
Silicone-free	Yes
Colour	Natural



Art. no. 0502 261 1

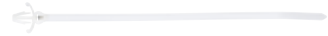
P. Qty.: 100

With UL approval

Special cable tie with metal closure and snap-in knob

Flat closure

Material	PA - Polyamide
Min./max. temperature resistance	-40 to 85 °C
Halogen-free	Yes
Silicone-free	Yes
Colour	Natural



Length (L)	Min./max. bundle diameter (Ø)	Min./max. drill hole diameter	Suitable for min./max. sheet metal thickness	Art. no.	P. Qty.
150 mm	2.0-32 mm	4.5-5.2 mm	0-2.5 mm	0502 281 2	100
201 mm	3.5-45 mm	5.8-7.5 mm	2.2-3.7 mm	0502 291 2	100/500

With UL approval

Write-on cable tie with plastic latch

Quick marking and bundling of cable bundles

Material	PA - Polyamide
Min./max. temperature resistance	-40 to 85 °C
Halogen-free	Yes
Silicone-free	Yes
Colour	Natural



Length (L)	Length of labelling area (A)	Width of the labelling area (C)	Bundle diameter (Bündel-Ø)	Art. no.	P. Qty.
100 mm	8 mm	25 mm	25 mm	0502 401	100
110 mm	8 mm	25 mm	25 mm	0502 400	100
200 mm	15 mm	30 mm	50 mm	0502 402	100
200 mm	28 mm	13 mm	50 mm	0502 403	100
270 mm	28 mm	13 mm	75 mm	0502 404	100

Detectable cable connector with metal latch

Retrievable using detection devices such as metal detectors, x-ray devices or visual detection systems

- Strong colouring
- Helps when implementing the HACCP EC Directive
- Dimpling on the inside of the tie for a firm fit
- Tie end curved upwards for easy threading into cable tie head
- Halogen-free
- Operating temperature: -40°C to +85°C



Design	Metal latch
Material	PA - Polyamide
Min./max. temperature resistance	-40 to 85 °C
Halogen-free	Yes

Continuation **Detectable cable connector with metal latch**

Silicone-free	Yes
Colour	Blue

Width	Length (L)	Min./max. bundle diameter (Ø)	Max. tensile force	Art. no.	P. Qty.
2.4 mm	92 mm	2-16 mm	80 N	0502 520 092	100
4.8 mm	186 mm	3.5-45 mm	220 N	0502 520 186	100
4.8 mm	360 mm	3.5-102 mm	220 N	0502 520 360	100
7 mm	340 mm	6-90 mm	540 N	0502 520 340	50

Cable Tie Fix

Complete with 15-m cable tie and 200 locks

- Cable bundle load: approx. 25 kg
- Material: PA 6.6
- Cable tie width: 4.5 mm
- UV-resistant
- Halogen- and silicone-free



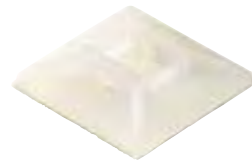
Material	PA - Polyamide
Silicone-free	Yes
Halogen-free	Yes
Ultraviolet resistance	Yes
Min./max. temperature conditions	-40 to 85 °C
Included in delivery (Lieferumfang)	15 m cable tie and 200 locks

Art. no. 0502 100

P. Qty.: 1

Base Self-adhesive

For securing cable ties to any dust- and grease-free surfaces, for example metal, paint, plastic, wood, plaster, paper etc.



Material	PA - Polyamide
Colour	Natural
Min./max. temperature conditions	5 to 50 °C

Suitable for cable ties	Length x width	Art. no.	P. Qty.
2.5 mm	25 x 25 mm	0502 625	50
3.6 mm	19 x 19 mm	0502 636	50
4.8 mm	28 x 28 mm	0502 648	50
6.5 mm	25 x 25 mm	0502 665	50

Cable tie roll for cable tie fix

Plastic roller with 15 m cable tie

- Cable bundle load: approx. 25 kg
- Material: PA 6.6
- Operating range: -40°C to +85°C
- Cable tie width: 4.5 mm
- UV-resistant
- Halogen- and silicone-free



Material	PA - Polyamide
Halogen-free	Yes
Silicone-free	Yes
Length	15 m

Colour	Ultraviolet resistance	Art. no.	P. Qty.
Black	Yes	0502 102	2
Natural		0502 102 1	2

Lock for cable tie fix

- 10 cassettes of 20 locks = 200 locks

Material	PA - Polyamide
Number of locks	200 PCS
Included in delivery (Lieferumfang)	10 cassettes of 20 locks = 200 locks
Halogen-free	Yes
Silicone-free	Yes



Colour	Ultraviolet resistance	Art. no.	P. Qty.
Black	Yes	0502 103	1
Natural		0502 103 1	1

Hole Mounting for Cable Tie Fix

For the mounting of cable tie bundles in:

- Wood
- Stone
- Metal
- Chipboard
- Concrete



Colour	Black
Ultraviolet resistance	Yes

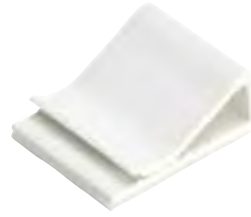
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P. Qty.: 200

Ribbon cable holder, self-adhesive

Adheres to all dust-free and grease-free surfaces, e.g. metal, paintwork, plastic, wood, plaster, paper etc.

- Material: PVC
- Does not damage insulation



Material	PVC - Polyvinyl chloride
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Length x width x height	Art. no.	P. Qty.
20 x 26 x 6.5 mm	0502 70 1	100
30 x 26 x 6.5 mm	0502 70 2	50

Self-adhesive cable fastener Cord Clips

Well-suited for use even in restricted spaces

- Polyamide 6.6.
- Adheres to all dust-free and grease-free surfaces, e.g. metal, paintwork, plastic, wood, plaster, paper etc.
- Great time-saving solution as eliminates the need for drilling, screwing, riveting etc.
- No damage to paintwork
- Variable base areas



Material	PA - Polyamide
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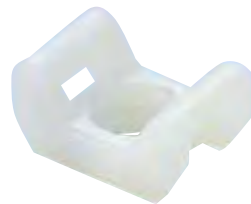
Suitable for cable diameter	Length x width x height	Colour	Art. no.	P. Qty.
2 x 6 mm	25 x 12.7 x 16 mm	White	0502 761	25
5 mm	18.8 x 18.8 x 8 mm	Black	0502 71 1	25
5 mm	18.8 x 18.8 x 8 mm	White	0502 71	25
6.5 mm	18 x 9 x 10.8 mm	White	0502 760	25
8 mm	26.7 x 26.7 x 11.9 mm	Black	0502 72 1	25
8 mm	26.7 x 26.7 x 11.9 mm	White	0502 72	25
16 mm	29.7 x 25.6 x 17.1 mm	Black	0502 73 1	10
16 mm	29.7 x 25.6 x 17.1 mm	White	0502 73	10

Holder

For bundling cables, hoses etc.

- Non-twist attachment or bundling with prism-shaped pad

Material	PA - Polyamide
Halogen-free	Yes
Silicone-free	Yes
Colour	Natural



Suitable for cable ties	Width (a)	Diameter of hole (c)	Length (d)	Height (h)	Art. no.	P. Qty.
2.5 mm, 3.6 mm, 4.8 mm	9.5 mm	3.5 mm	15 mm	7 mm	0502 810	100
2.5 mm, 3.6 mm, 4.8 mm, 7.8 mm	15 mm	5 mm	22.5 mm	11 mm	0502 811	100

Cable ties KBLU

For quick mounting of e.g. nets, tarpaulins, suspensions, information signs and for organising and bundling pipes and rods indoors and outdoors

- For temporary fixings
- Quick and easy handling when closing
- Quick removal with knife, scissors, pliers, etc.

Material	PA - Polyamide
Colour	Black
Min./max. temperature resistance	-40 to 85 °C
RoHS-compliant	Yes

Width	Length	Min./max. bundle diameter (Bündel-Ø min./max.)	Min. tensile force	Art. no.	P. Qty.
4.8 mm	280 mm	5-70 mm	220 N	0502 980 151	11000
7.6 mm	370 mm	10-102 mm	540 N	0502 980 181	4000

Cable grommet, one-sided

- Resistant to corrosion, weathering (UV radiation, ozone) acids and weak caustic solutions, brief wetting with oil and solvents (e.g. fuel)
- Temperature range: -40°C to +120°C
- Tolerances according to ISO 3302-1 M2
- Material: EPDM rubber
- Colour: black

Material	EPDM (ethylene propylene diene monomer rubber)
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Internal diameter (d)	Drill hole (D1)	Installation thickness (h1)	Height (H)	Art. no.	P. Qty.
6 mm	10 mm	8 mm	12 mm	0561 663 6	25/100
8 mm	11 mm	9 mm	13 mm	0561 663 8	25/100
10 mm	14 mm	10 mm	15 mm	0561 664 0	25/100
12 mm	17 mm	11 mm	17 mm	0561 664 2	25/100

ROHS-compliant

Cable grommet, double-sided

- Resistant to corrosion, weathering (UV radiation, ozone) acids and weak caustic solutions, brief wetting with oil and solvents (e.g. fuel)
- Temperature range: -40°C to +120°C
- Tolerances according to ISO 3302-1 M2
- Material: EPDM rubber
- Colour: black



Material	EPDM (ethylene propylene diene monomer rubber)
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Internal diameter (d)	Drill hole (D1)	Installation thickness (h1)	Height (H)	Art. no.	P. Qty.
4.5 mm	6.5 mm	1.2 mm	6 mm	0561 663 4	25/100
6 mm	9 mm	1 mm	6 mm	0561 663 2	25/100
6 mm	9.8 mm	2 mm	8 mm	0561 664 6	25/100
9 mm	11 mm	1 mm	6.5 mm	0561 664 8	25/100
10 mm	12 mm	1 mm	8 mm	0561 665 0	25/100
12 mm	20 mm	4 mm	10 mm	0561 665 2	25/100
13 mm	21 mm	2 mm	9 mm	0561 666 2	25/100
16 mm	24 mm	3 mm	11 mm	0561 666 3	25/100
21 mm	31 mm	1.5 mm	11 mm	0561 666 5	25/100
25 mm	30 mm	3.5 mm	11 mm	0561 666 6	25/100

ROHS-compliant

Counter nut, polyamide

Metric in accordance with EN 60423

- For secure fastening of cable glands and accessories
- Made in Germany



Min./max. temperature conditions	-20 to 100 °C
Material	PA 6 GF30 - Polyamide
Halogen-free	Yes
Silicone-free	Yes

Colour	Connection thread	Thread length (metric thread)	Width across flats	Art. no.	P. Qty.
Light grey RAL 7035	M12 x 1.5	5 mm	17 mm	0967 710 12	100
Light grey RAL 7035	M16 x 1.5	5 mm	22 mm	0967 710 16	100
Light grey RAL 7035	M20 x 1.5	6 mm	27 mm	0967 710 20	100
Light grey RAL 7035	M25 x 1.5	6 mm	32 mm	0967 710 25	100
Light grey RAL 7035	M32 x 1.5	7 mm	41 mm	0967 710 32	100
Light grey RAL 7035	M40 x 1.5	7 mm	50 mm	0967 710 40	50
Light grey RAL 7035	M50 x 1.5	8 mm	60 mm	0967 710 50	50
Light grey RAL 7035	M63 x 1.5	8 mm	75 mm	0967 710 63	50
Jet black RAL 9005	M12 x 1.5	5 mm	17 mm	0967 712 12	100
Jet black RAL 9005	M16 x 1.5	5 mm	22 mm	0967 712 16	100

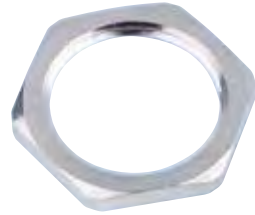
Colour	Connection thread	Thread length (metric thread)	Width across flats	Art. no.	P. Qty.
Jet black RAL 9005	M20 x 1.5	6 mm	27 mm	0967 712 20	100
Jet black RAL 9005	M25 x 1.5	6 mm	32 mm	0967 712 25	100
Jet black RAL 9005	M32 x 1.5	7 mm	41 mm	0967 712 32	100
Jet black RAL 9005	M40 x 1.5	7 mm	50 mm	0967 712 40	50
Jet black RAL 9005	M50 x 1.5	8 mm	60 mm	0967 712 50	50
Jet black RAL 9005	M63 x 1.5	8 mm	75 mm	0967 712 63	50

Counter nut, brass

Metric in accordance with EN 60423

- For secure fastening of cable glands and accessories
- Made in Germany

Min./max. temperature conditions	-20 to 200 °C
Material	Brass
Surface	Nickel plated



Connection thread	Thread length (metric thread)	Width across flats	Art. no.	P. Qty.
M12 x 1.5	2.8 mm	15 mm	0967 770 12	100
M16 x 1.5	2.8 mm	19 mm	0967 770 16	100
M20 x 1.5	3 mm	24 mm	0967 770 20	100
M25 x 1.5	3.5 mm	30 mm	0967 770 25	100
M32 x 1.5	4 mm	36 mm	0967 770 32	100
M40 x 1.5	5 mm	46 mm	0967 770 40	50
M50 x 1.5	5 mm	60 mm	0967 770 50	50
M63 x 1.5	6 mm	70 mm	0967 770 63	50



Cable gland, polyamide

Metric in line with EN 60423/EN 62444

- Integrated strain relief
- Large sealing and clamping range
- Easy to install
- Made in Germany

Min./max. temperature conditions	-20 to 100 °C
IP protection class	IP 68
Max. pressure	5 bar
Material	PA 6 V-2 - Polyamide
Halogen-free	Yes
Silicone-free	Yes
Material of the sealing ring	Polychloroprene nitrile rubber CR/NBR, halogenic

Colour	Connection thread	Min./max. cable diameter	Thread length (metric thread)	Width across flats (SW)	Art. no.	P. Qty.
Light grey RAL 7035	M12 x 1.5	3-6 mm	8 mm	15 mm	0967 705 012	100
Light grey RAL 7035	M16 x 1.5	5-10 mm	8 mm	20 mm	0967 705 016	100
Light grey RAL 7035	M20 x 1.5	8-13 mm	8 mm	24 mm	0967 705 020	100

Colour	Connection thread	Min./max. cable diameter	Thread length (metric thread)	Width across flats (SW)	Art. no.	P. Qty.
Light grey RAL 7035	M25 x 1.5	11-17 mm	8 mm	29 mm	0967 705 025	50
Light grey RAL 7035	M32 x 1.5	15-21 mm	10 mm	36 mm	0967 705 032	25
Light grey RAL 7035	M40 x 1.5	19-28 mm	10 mm	46 mm	0967 705 040	10
Light grey RAL 7035	M50 x 1.5	27-35 mm	12 mm	55 mm	0967 705 050	5
Light grey RAL 7035	M63 x 1.5	32-42 mm	12 mm	68 mm	0967 705 063	5
Jet black RAL 9005	M12 x 1.5	3-6 mm	8 mm	15 mm	0967 706 012	100
Jet black RAL 9005	M16 x 1.5	5-10 mm	8 mm	20 mm	0967 706 016	100
Jet black RAL 9005	M20 x 1.5	8-13 mm	8 mm	24 mm	0967 706 020	100
Jet black RAL 9005	M25 x 1.5	11-17 mm	8 mm	29 mm	0967 706 025	50
Jet black RAL 9005	M32 x 1.5	15-21 mm	10 mm	36 mm	0967 706 032	25
Jet black RAL 9005	M40 x 1.5	19-28 mm	10 mm	46 mm	0967 706 040	10
Jet black RAL 9005	M50 x 1.5	27-35 mm	12 mm	55 mm	0967 706 050	5
Jet black RAL 9005	M63 x 1.5	32-42 mm	12 mm	68 mm	0967 706 063	5

Fix cable gland, polyamide

Problem-free fitting and removal from one side

Problem-free fitting and removal from one side

Lock nut no longer required

Saves time and money

No special tool required

Optimally suited for hard-to-reach places



Colour	Light grey RAL 7035
Min./max. wall thickness	1-4 mm
Min./max. temperature conditions	-20 to 100 °C
IP protection class	IP 68
Max. pressure	5 bar
Material	PA - Polyamide
Halogen-free	Yes
Silicone-free	Yes
Material of the sealing ring	Polychloroprene nitrile rubber CR/NBR, halogenic
Material of the profile sealing ring	Nitrile rubber polytetrafluoroethylene NBR/PTFE, halogenated

Connection thread	Min./max. cable diameter	Min./max. hole diameter	Width across flats (SW)	Art. no.	P. Qty.
M16 x 1.5	5-10 mm	16.1-16.3 mm	20 x 24 mm	0967 704 016	100
M20 x 1.5	8-13 mm	20.1-20.3 mm	24 x 26 mm	0967 704 020	100
M25 x 1.5	11-17 mm	25.1-25.3 mm	29 x 32 mm	0967 704 025	50
M32 x 1.5	15-21 mm	32.1-32.3 mm	36 x 42 mm	0967 704 032	25

Cable gland, brass

Metric in line with EN 60423/EN 62444

- Integrated strain relief
- Anti-twist protection
- Large sealing and clamping range
- Easy to install
- Made in Germany



Min./max. temperature conditions	-20 to 100 °C
IP protection class	IP 68
Max. pressure	5 bar
Material	Brass
Surface	Nickel plated
Material of the sealing ring	Polychloroprene nitrile rubber CR/NBR, halogenic
Material of the sealing ring for the connection thread	Nitrile natural rubber NBR

Connection thread	Min./max. cable diameter	Thread length (metric thread)	Width across flats (SW)	Art. no.	P. Qty.
M12 x 1.5	3-6 mm	5 mm	14 mm	0967 760 12	100
M16 x 1.5	5-9 mm	5 mm	17 mm	0967 760 16	100
M20 x 1.5	9-13 mm	6 mm	22 mm	0967 760 20	100
M25 x 1.5	11-16 mm	7 mm	27 mm	0967 760 25	50
M32 x 1.5	14-21 mm	8 mm	34 mm	0967 760 32	25
M40 x 1.5	19-27 mm	8 mm	43 mm	0967 760 40	10
M50 x 1.5	24-35 mm	9 mm	55 mm	0967 760 50	5
M63 x 1.5	32-42 mm	10 mm	65 mm	0967 760 63	5
M63 x 1.5	38-48 mm	10 mm	65 mm	0967 760 631	5



Cable gland

Skintop standard

Min./max. temperature conditions	-20 to 100 °C
IP protection class	IP 68
Max. pressure	5 bar
Material	PA - Polyamide



Colour	Connection thread	Min./max. cable diameter	Thread length (metric thread)	Width across flats (SW)	Art. no.	P. Qty.
Light grey RAL 7035	M16 x 1.5	4-10 mm	8 mm	19 mm	0967 900 216	100
Light grey RAL 7035	M20 x 1.5	4-10 mm	9 mm	25 mm	0967 901 220	100
Light grey RAL 7035	M20 x 1.5	6-13 mm	9 mm	25 mm	0967 900 220	100
Light grey RAL 7035	M25 x 1.5	5-13 mm	10 mm	30 mm	0967 901 225	50
Light grey RAL 7035	M25 x 1.5	8-17 mm	10 mm	30 mm	0967 900 225	50
Light grey RAL 7035	M40 x 1.5	9-23 mm	10 mm	46 mm	0967 901 240	10
Light grey RAL 7035	M40 x 1.5	16-28 mm	10 mm	46 mm	0967 900 240	10
Silver grey RAL 7001	M16 x 1.5	4-10 mm	8 mm	19 mm	0985 500 016	100
Silver grey RAL 7001	M20 x 1.5	6-13 mm	9 mm	25 mm	0985 500 020	100
Silver grey RAL 7001	M32 x 1.5	9-21 mm	10 mm	36 mm	0967 900 032	25
Silver grey RAL 7001	M40 x 1.5	16-28 mm	10 mm	46 mm	0967 900 040	10

Reducer, brass

Metric in accordance with EN 60423

- To reduce a threaded or through hole to a smaller thread size
- Made in Germany

Min./max. temperature conditions	-20 to 200 °C
Material	Brass
Surface	Nickel plated



Connection thread	Connection thread (after reduction)	Outer diameter	Thread length (metric thread)	Height	Art. no.	P. Qty.
M16 x 1.5	M12 x 1.5 mm	20 mm	6 mm	8.5 mm	0967 781 612	100
M20 x 1.5	M12 x 1.5 mm	24 mm	6.5 mm	9 mm	0967 782 012	100
M20 x 1.5	M16 x 1.5 mm	24 mm	6.5 mm	9 mm	0967 782 016	100
M25 x 1.5	M16 x 1.5 mm	30 mm	7 mm	10 mm	0967 782 516	100
M25 x 1.5	M20 x 1.5 mm	30 mm	7 mm	10 mm	0967 782 520	100
M32 x 1.5	M20 x 1.5 mm	39 mm	8 mm	11.5 mm	0967 783 220	50
M32 x 1.5	M25 x 1.5 mm	39 mm	8 mm	11.5 mm	0967 783 225	25
M40 x 1.5	M25 x 1.5 mm	50 mm	9 mm	12.5 mm	0967 784 025	25
M40 x 1.5	M32 x 1.5 mm	50 mm	9 mm	12.5 mm	0967 784 032	25
M50 x 1.5	M32 x 1.5 mm	57 mm	10 mm	14 mm	0967 785 032	10
M50 x 1.5	M40 x 1.5 mm	57 mm	10 mm	14 mm	0967 785 040	10
M63 x 1.5	M40 x 1.5 mm	70 mm	10 mm	14 mm	0967 786 340	5
M63 x 1.5	M50 x 1.5 mm	70 mm	10 mm	14 mm	0967 786 350	5

Reducer, polyamide

Metric in accordance with EN 60423

- To reduce a threaded or through hole to a smaller thread size
- Made in Germany



Colour	Light grey RAL 7035
Min./max. temperature conditions	-30 to 100 °C
Material	PA 6 GF30 - Polyamide
Halogen-free	Yes
Silicone-free	Yes

Connection thread	Connection thread (after reduction)	Thread length (metric thread)	Width across flats	Art. no.	P. Qty.
M16 x 1.5	M12 x 1.5 mm	8 mm	24 mm	0967 721 612	100
M20 x 1.5	M12 x 1.5 mm	8 mm	24 mm	0967 722 012	100
M20 x 1.5	M16 x 1.5 mm	8 mm	24 mm	0967 722 016	100
M25 x 1.5	M12 x 1.5 mm	8 mm	29 mm	0967 722 512	100
M25 x 1.5	M16 x 1.5 mm	8 mm	29 mm	0967 722 516	100
M25 x 1.5	M20 x 1.5 mm	8 mm	29 mm	0967 722 520	100
M32 x 1.5	M16 x 1.5 mm	10 mm	36 mm	0967 723 216	50
M32 x 1.5	M20 x 1.5 mm	10 mm	36 mm	0967 723 220	50
M32 x 1.5	M25 x 1.5 mm	10 mm	36 mm	0967 723 225	50
M40 x 1.5	M25 x 1.5 mm	10 mm	46 mm	0967 724 025	25
M40 x 1.5	M32 x 1.5 mm	10 mm	55 mm	0967 724 032	25
M50 x 1.5	M32 x 1.5 mm	12 mm	55 mm	0967 725 032	10
M50 x 1.5	M40 x 1.5 mm	12 mm	55 mm	0967 725 040	10
M63 x 1.5	M40 x 1.5 mm	12 mm	68 mm	0967 726 340	5
M63 x 1.5	M50 x 1.5 mm	12 mm	68 mm	0967 726 350	5

Locking screw, brass

Metric in accordance with EN 60423

- To securely seal an unused threaded or through hole
- Made in Germany



Min./max. temperature conditions	-20 to 200 °C
Material	Brass
Surface	Nickel plated
IP protection class	IP 54

Connection thread	Head diameter	Thread length (metric thread)	Art. no.	P. Qty.
M12 x 1.5	16 mm	5 mm	0967 775 12	100
M16 x 1.5	20 mm	6 mm	0967 775 16	100
M20 x 1.5	24 mm	6.5 mm	0967 775 20	100
M25 x 1.5	28 mm	7 mm	0967 775 25	50
M32 x 1.5	35 mm	8 mm	0967 775 32	50
M40 x 1.5	45 mm	8 mm	0967 775 40	50
M50 x 1.5	55 mm	9 mm	0967 775 50	50
M63 x 1.5	68 mm	10 mm	0967 775 63	10

Locking screw, polyamide

Metric in accordance with EN 60423

- For the secure sealing of an unused threaded or through hole
- Made in Germany



Colour	Light grey RAL 7035
Min./max. temperature conditions	-30 to 100 °C
Material	PA 6 GF30 - Polyamide
Halogen-free	Yes
Silicone-free	Yes
IP protection class	IP 54

Connection thread	Head diameter	Thread length (metric thread)	Art. no.	P. Qty.
M12 x 1.5	15 mm	6 mm	0967 730 12	100
M16 x 1.5	20 mm	6 mm	0967 730 16	100
M20 x 1.5	24 mm	6 mm	0967 730 20	100
M25 x 1.5	30 mm	8 mm	0967 730 25	100
M32 x 1.5	37 mm	8 mm	0967 730 32	100
M40 x 1.5	46 mm	8 mm	0967 730 40	50
M50 x 1.5	56 mm	10 mm	0967 730 50	50
M63 x 1.5	70 mm	12 mm	0967 730 63	30

Cable gland, polyamide

PG

- Integrated strain relief
- Large sealing and clamping range
- Easy to install
- Made in Germany



Colour	Light grey RAL 7035
Min./max. temperature conditions	-20 to 100 °C
IP protection class	IP 68
Max. pressure	5 bar
Material	PA 6 V-2 - Polyamide
Halogen-free	Yes
Silicone-free	Yes
Material of the sealing ring	Polychloroprene nitrile rubber CR/NBR, halogenic

Connection thread (conduit thread)	Min./max. cable diameter	Width across flats	Art. no.	P. Qty.
PG 7	3-6.5 mm	15 mm	0967 81 007	100
PG 9	4-8 mm	19 mm	0967 81 009	100
PG 11	5-10 mm	22 mm	0967 81 011	100
PG 13,5	6-12 mm	24 mm	0967 81 013	100
PG 16	10-14 mm	27 mm	0967 81 016	50
PG 21	13-18 mm	33 mm	0967 81 021	50
PG 29	18-25 mm	42 mm	0967 81 029	25

Continuation **Cable gland, polyamide**

Connection thread (conduit thread)	Min./max. cable diameter	Width across flats	Art. no.	P. Qty.
PG 36	22-32 mm	53 mm	0967 81 036	10
PG 42	30-38 mm	60 mm	0967 81 042	5
PG 48	34-44 mm	65 mm	0967 81 048	5



Cable gland, brass

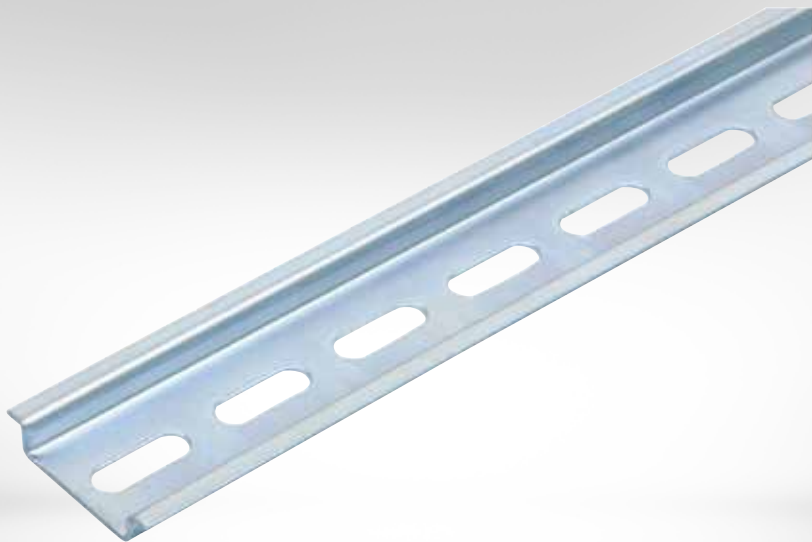
PG

- Integrated strain relief
- Anti-twist protection
- Large sealing and clamping range
- Easy to install
- Made in Germany



Min./max. temperature conditions	-20 to 100 °C
IP protection class	IP 68
Max. pressure	5 bar
Material	Brass
Surface	Nickel plated
Material of the lamellar insert	PA 6 V-2 - Polyamide 6 V-2
Material of the sealing ring	Nitrile rubber

Connection thread (conduit thread)	Min./max. cable diameter	Width across flats	Art. no.	P. Qty.
PG 7	3-6,5 mm	14 mm	0967 82 007	100
PG 9	4-8 mm	17 mm	0967 82 009	100
PG 11	5-10 mm	20 mm	0967 82 011	50
PG 13,5	6-12 mm	22 mm	0967 82 013	50
PG 16	10-14 mm	24 mm	0967 82 016	50
PG 21	13-18 mm	30 mm	0967 82 021	50
PG 29	18-25 mm	40 mm	0967 82 029	25
PG 36	24-32 mm	50 mm	0967 82 036	10
PG 42	30-38 mm	57 mm	0967 82 042	5
PG 48	34-44 mm	64 mm	0967 82 048	5



Top-hat/support rail

For quick mounting of installation devices

In accordance with EN 60715

Rail length	2 m
EN standard	60715

Rail type	Surface	Punched-hole	Art. no.	P. Qty.
35 x 7.5 mm	Hot dip galvanized steel strip	18 x 6.2 mm	0975 490 101	40
35 x 7.5 mm	Zinc plated	18 x 6.2 mm	0975 491 101	40
35 x 7.5 mm	Zinc plated	Nonperforated	0975 490 102	100
35 x 7.5 mm	Zinc plated	Nonperforated	0975 491 102	40
35 x 7.5 mm	Zinc plated thick-layer passivation	18 x 6.2 mm	0975 492 101	40
35 x 15 mm	Hot dip galvanized steel strip	18 x 6.2 mm	0975 490 103	20
35 x 15 mm	Zinc plated	18 x 6.2 mm	0975 491 103	20
35 x 15 mm	Zinc plated	Nonperforated	0975 491 104	20
35 x 15 mm	Zinc plated thick-layer passivation	18 x 6.2 mm	0975 492 103	20

Profile rail

Rail type	35 x 18 mm
Slot width	16 mm
Surface	Hot dip galvanized steel strip
Rail length	2 m



Punched-hole	Art. no.	P. Qty.
11 x 7.2 mm	0975 490 201	20
Nonperforated	0975 490 200	20

Impact clip For gypsum plasterboard

No drilling required - ready to drive in

- Quick mounting
- Efficient working (simply drive in with a hammer)
- Clean solution

Material	Steel
Surface	Zinc plated yellow



Nominal size	Art. no.	P. Qty.
20 mm	0971 560 20	100
25 mm	0971 560 25	100

Wiring duct, VKW DIN

Base holes

Single row up to width of 50 mm, triple row from width of 75 mm

Double-sided adhesive tape on base

Wire hold-back lugs from height of 75 mm

Predetermined breaking points on webs

Bar width	7.5 mm
Slot width	5 mm
Length of duct	2 m
Max. temperature resistance	60 °C
Colour	Stone grey, similar to RAL 7030
Material	PVC - Polyvinyl chloride
Flammability	Self-extinguishing in accordance with UL94 V0

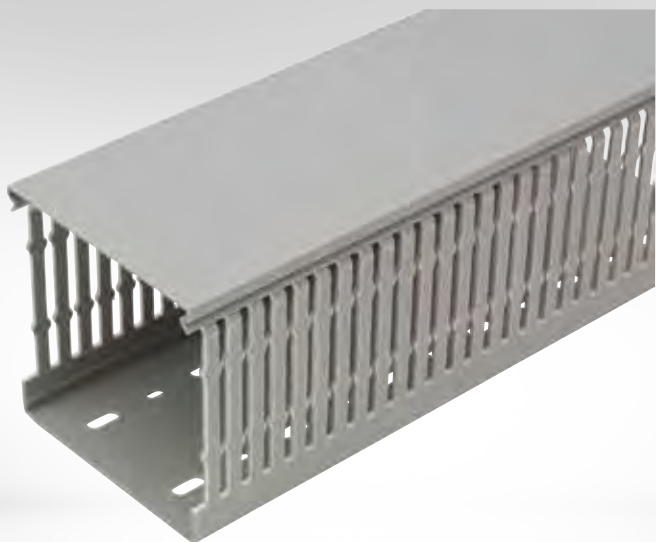


Type description	Height	Width	Art. no.	P. Qty.
25 x 25	23 mm	23 mm	0973 825 25	48
37.5 x 25	35.5 mm	23 mm	0973 837 25	54
37.5 x 37.5	35.5 mm	35.5 mm	0973 837 37	40
37.5 x 50	35.5 mm	47.5 mm	0973 837 50	32
50 x 25	48 mm	23 mm	0973 850 25	44
50 x 37.5	48 mm	35.5 mm	0973 850 37	32
50 x 50	48 mm	47.5 mm	0973 850 50	42
50 x 75	48 mm	73 mm	0973 850 75	28

Type description	Height	Width	Art. no.	P. Qty.
50 x 100	48 mm	100 mm	0973 850 100	20
75 x 25	73 mm	23 mm	0973 875 25	36
75 x 37.5	73 mm	35.5 mm	0973 875 37	24
75 x 50	73 mm	47.5 mm	0973 875 50	28
75 x 75	73 mm	73 mm	0973 875 75	24
75 x 100	73 mm	100 mm	0973 875 100	16
75 x 125	73 mm	123 mm	0973 875 125	16

EN 50085





Wiring duct, VKW, standard

With predetermined breaking points on webs

Base holes

Single row up to width of 60 mm, double row from 80 mm

Wire hold-back lugs from height of 60 mm

Bar width	5.5 mm
Slot width	4.5 mm
Length of duct	2 m
Max. temperature resistance	60 °C
Colour	Stone grey, similar to RAL 7030
Material	PVC - Polyvinyl chloride
Flammability	Self-extinguishing in accordance with UL94 V0

Type description	Height	Width	Art. no.	P. Qty.
30 x 30	30 mm	30 mm	0973 730 30	64
40 x 30	40 mm	30 mm	0973 740 30	60
40 x 40	40 mm	40 mm	0973 740 40	32
40 x 60	40 mm	60 mm	0973 740 60	48
60 x 30	60 mm	30 mm	0973 760 30	52
60 x 40	60 mm	40 mm	0973 760 40	48
60 x 60	60 mm	60 mm	0973 760 60	36
60 x 80	60 mm	80 mm	0973 760 80	32
80 x 30	80 mm	30 mm	0973 780 30	48

Type description	Height	Width	Art. no.	P. Qty.
80 x 40	80 mm	40 mm	0973 780 40	40
80 x 60	80 mm	60 mm	0973 780 60	36
80 x 80	80 mm	80 mm	0973 780 80	24
80 x 100	80 mm	100 mm	0973 780 100	24
80 x 120	80 mm	120 mm	0973 780 120	16
100 x 60	100 mm	60 mm	0973 710 60	24
100 x 100	100 mm	100 mm	0973 710 100	16

Expanding rivet

Re-usable after removal

- Corrosion-resistant
- High insulating effect
- Quick and uncomplicated mounting method
- Easy to remove



Min./max. grip range	Drill hole diameter	Head diameter	Art. no.	P. Qty.
2-5 mm	4 mm	7.8 mm	0973 994 25	100
3-7 mm	6 mm	10 mm	0973 996 37	100
4-7 mm	4 mm	8 mm	0973 994 47	100

Wire holder

For wiring duct, VKW, standard

Art. no. 0973 499 1

P. Qty.: 100

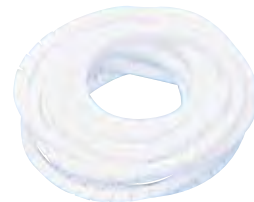


Wrapping hose, standard

Branches possible at any point.

- Spiral structure permits branches at any point
- Reusable

Min./max. temperature resistance	-30 to 80 °C
Flammability conditions	tested in accordance with UL94
Flammability	HB
Material	PE - Polyethylene
Halogen-free	Yes



Continuation **Wrapping hose, standard**

Colour	Internal diameter	Min./max. bundle diameter (Bündel-Ø min./max.)	Wall thickness	Coil width	Art. no.	P. Qty.
Black	3.7 mm	4-20 mm	0.65 mm	7 mm	0771 00 40	25
Black	8.2 mm	12-50 mm	0.9 mm	12 mm	0771 00 80	25
Black	17.6 mm	20-120 mm	1.2 mm	22 mm	0771 00 90	25
Transparent	2.3 mm	2-15 mm	0.6 mm	5 mm	0771 00 16	50
Transparent	3.7 mm	4-20 mm	0.65 mm	7 mm	0771 00 42	25
Transparent	8.2 mm	12-50 mm	0.9 mm	12 mm	0771 00 82	25
Transparent	17.6 mm	20-120 mm	1.2 mm	22 mm	0771 00 92	25

ELMO® wrapping hose

Faster installation than with conventional wrapping hoses

- Pull-in tool included
- Spiral structure permits branches at any point
- Reusable



Min./max. temperature resistance	-30 to 90 °C
Flammability conditions	tested in accordance with UL94
Flammability	HB
Material	PP - Polypropylene
Halogen-free	Yes

Colour	Nominal diameter	Max. bundle diameter (Bündel-Ø max.)	Wall thickness	Coil width	Art. no.	P. Qty.
Black	8 mm	10 mm	0.8 mm	10 mm	0771 000 901	100
Black	15 mm	16 mm	0.8 mm	14 mm	0771 000 902	50
Black	20 mm	23 mm	0.9 mm	17 mm	0771 000 903	30
Black	25 mm	25 mm	1 mm	20 mm	0771 000 904	20
White	8 mm	10 mm	0.8 mm	10 mm	0771 000 941	100
White	15 mm	16 mm	0.8 mm	14 mm	0771 000 942	50
White	20 mm	23 mm	0.9 mm	17 mm	0771 000 943	30
White	25 mm	25 mm	1 mm	20 mm	0771 000 944	20

Wire end ferrule with plastic sleeve

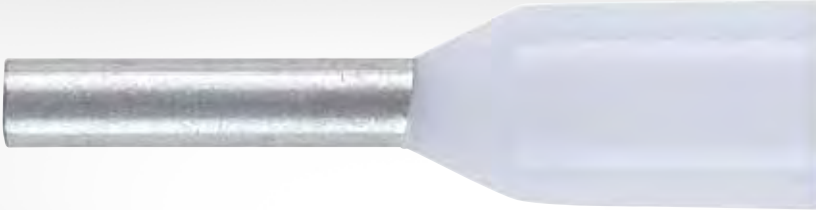
For short-circuit and earth fault-proof cables

- Polypropylene entry funnel
- Made in Germany



Max. temperature resistance	105 °C
Material	Copper
Surface	Tin plated
Halogen-free	Yes

Wire cross section	Colour	Length (l1)	Sleeve length (l2)	Sleeve inside diameter (d1)	Art. no.	P. Qty.
1.5 mm ²	Black	17.5 mm	8 mm	1.7 mm	0557 350 151	100
1.5 mm ²	Black	19.5 mm	10 mm	1.7 mm	0557 350 152	100
2.5 mm ²	Blue	17.5 mm	8 mm	2.2 mm	0557 350 251	100
2.5 mm ²	Blue	21.5 mm	12 mm	2.2 mm	0557 350 252	100
4 mm ²	Grey	19.5 mm	10 mm	2.8 mm	0557 350 401	100
6 mm ²	Yellow	23 mm	12 mm	3.5 mm	0557 350 601	100
10 mm ²	Red	24 mm	12 mm	4.5 mm	0557 350 101	100
16 mm ²	Blue	25.5 mm	12 mm	5.8 mm	0557 350 161	100



Wire end ferrule with plastic sleeve

According to DIN 46228 Part 4

- Polypropylene insertion funnel
- Made in Germany

Max. temperature resistance	105 °C
Material	Electrolytic copper
Surface	Tin plated
Halogen-free	Yes

Wire cross section	Colour	Length (l1)	Sleeve length (l2)	Sleeve inside diameter (d1)	Art. no.	P. Qty.
0.5 mm ²	White	12 mm	6 mm	1 mm	0557 300 051	500/1000
0.5 mm ²	White	14 mm	8 mm	1 mm	0557 300 052	100/500/1000
0.5 mm ²	White	16 mm	10 mm	1 mm	0557 300 053	500
0.75 mm ²	Grey	14 mm	8 mm	1.2 mm	0557 300 752	100/500/1000
0.75 mm ²	Grey	12 mm	6 mm	1.2 mm	0557 300 751	500/1000
0.75 mm ²	Grey	16 mm	10 mm	1.2 mm	0557 300 753	500/1000
0.75 mm ²	Grey	18 mm	12 mm	1.2 mm	0557 300 754	100
6 mm ²	Yellow	20 mm	12 mm	3.5 mm	0557 300 601	100/500
1 mm ²	Red	18 mm	12 mm	1.4 mm	0557 300 104	500
1 mm ²	Red	16 mm	10 mm	1.4 mm	0557 300 103	500/1000
1 mm ²	Red	14 mm	8 mm	1.4 mm	0557 300 102	100/500/1000

Wire cross section	Colour	Length (l1)	Sleeve length (l2)	Sleeve inside diameter (d1)	Art. no.	P. Qty.
1 mm ²	Red	12 mm	6 mm	1.4 mm	0557 300 101	500/1000
1.5 mm ²	Black	14 mm	8 mm	1.7 mm	0557 300 151	100/500/1000
1.5 mm ²	Black	16 mm	10 mm	1.7 mm	0557 300 152	500/1000
1.5 mm ²	Black	24 mm	18 mm	1.7 mm	0557 300 153	500
2.5 mm ²	Blue	14 mm	8 mm	2.2 mm	0557 300 251	100/500/1000
2.5 mm ²	Blue	18 mm	12 mm	2.2 mm	0557 300 252	500/1000
2.5 mm ²	Blue	24 mm	18 mm	2.2 mm	0557 300 253	500
4 mm ²	Grey	26 mm	18 mm	2.8 mm	0557 300 403	100
4 mm ²	Grey	20 mm	12 mm	2.8 mm	0557 300 402	100/1000
4 mm ²	Grey	17 mm	10 mm	2.8 mm	0557 300 401	100/1000
6 mm ²	Yellow	26 mm	18 mm	3.5 mm	0557 300 602	100/500
10 mm ²	Red	22 mm	12 mm	4.5 mm	0557 300 105	100/500
10 mm ²	Red	28 mm	18 mm	4.5 mm	0557 300 106	100/500
16 mm ²	Blue	24 mm	12 mm	5.8 mm	0557 300 161	100/500
16 mm ²	Blue	28 mm	18 mm	5.8 mm	0557 300 162	100/500
25 mm ²	Yellow	36 mm	22 mm	7.3 mm	0557 300 255	50
25 mm ²	Yellow	30 mm	16 mm	7.3 mm	0557 300 254	50/200
35 mm ²	Red	30 mm	16 mm	8.3 mm	0557 300 351	50/200
35 mm ²	Red	39 mm	25 mm	8.3 mm	0557 300 352	50
50 mm ²	Blue	40 mm	25 mm	10.3 mm	0557 300 502	50
50 mm ²	Blue	36 mm	20 mm	10.3 mm	0557 300 501	50

Wire end ferrule with plastic sleeve

According to DIN 46228 Part 4

- Polypropylene insertion funnel
- Made in Germany



Max. temperature resistance	105 °C
Material	Copper
Surface	Tin plated
Halogen-free	Yes

Wire cross section	Colour	Length (l1)	Sleeve length (l2)	Sleeve inside diameter (d1)	Art. no.	P. Qty.
0.14 mm ²	Brown	10 mm	6 mm	0.7 mm	0557 100 14	1000
0.14 mm ²	Brown	12 mm	8 mm	0.7 mm	0557 100 141	1000
0.25 mm ²	Violet	10 mm	6 mm	0.75 mm	0557 100 252	1000
0.25 mm ²	Violet	12 mm	8 mm	0.75 mm	0557 100 253	1000
0.34 mm ²	Yellow	10 mm	6 mm	0.8 mm	0557 100 34	1000
0.34 mm ²	Yellow	12 mm	8 mm	0.8 mm	0557 100 341	1000
0.5 mm ²	Orange	12 mm	6 mm	1 mm	0557 000 501	1000
0.5 mm ²	Orange	14 mm	8 mm	1 mm	0557 000 50	1000
0.5 mm ²	Orange	16 mm	10 mm	1 mm	0557 000 503	500
0.75 mm ²	Blue	12 mm	6 mm	1.2 mm	0557 100 75	1000
0.75 mm ²	Blue	14 mm	8 mm	1.2 mm	0557 100 751	1000
0.75 mm ²	White	12 mm	6 mm	1.2 mm	0557 000 751	1000
0.75 mm ²	White	14 mm	8 mm	1.2 mm	0557 000 75	1000
0.75 mm ²	White	16 mm	10 mm	1.2 mm	0557 000 753	1000
0.75 mm ²	White	18 mm	12 mm	1.2 mm	0557 000 754	500

Continuation **Wire end ferrule with plastic sleeve**

Wire cross section	Colour	Length (l1)	Sleeve length (l2)	Sleeve inside diameter (d1)	Art. no.	P. Qty.
1 mm ²	Yellow	12 mm	6 mm	1.4 mm	0557 001 001	1000
1 mm ²	Yellow	14 mm	8 mm	1.4 mm	0557 001 00	1000
1 mm ²	Yellow	16 mm	10 mm	1.4 mm	0557 001 003	1000
1 mm ²	Yellow	18 mm	12 mm	1.4 mm	0557 001 004	500
1.5 mm ²	Red	14 mm	8 mm	1.7 mm	0557 001 50	1000
1.5 mm ²	Red	16 mm	10 mm	1.7 mm	0557 001 503	1000
1.5 mm ²	Red	24 mm	18 mm	1.7 mm	0557 001 504	500
2.5 mm ²	Grey	14 mm	8 mm	2.2 mm	0557 100 25	1000
2.5 mm ²	Grey	24 mm	18 mm	2.2 mm	0557 100 251	500
4 mm ²	Orange	20 mm	12 mm	2.8 mm	0557 100 40	1000
4 mm ²	Orange	26 mm	18 mm	2.8 mm	0557 100 401	100
6 mm ²	Black	20 mm	12 mm	3.5 mm	0557 006 00	500
6 mm ²	Black	26 mm	18 mm	3.5 mm	0557 006 004	100
6 mm ²	Green	20 mm	12 mm	3.5 mm	0557 100 60	500
6 mm ²	Green	26 mm	18 mm	3.5 mm	0557 100 61	100
10 mm ²	Brown	22 mm	12 mm	4.5 mm	0557 100 100	500
10 mm ²	Brown	28 mm	18 mm	4.5 mm	0557 100 110	500
10 mm ²	Ivory	22 mm	12 mm	4.5 mm	0557 010 00	500
10 mm ²	Ivory	28 mm	18 mm	4.5 mm	0557 010 004	500
16 mm ²	Green	24 mm	12 mm	5.8 mm	0557 016 00	100
16 mm ²	Green	28 mm	18 mm	5.8 mm	0557 016 004	500
16 mm ²	Ivory	24 mm	12 mm	5.8 mm	0557 100 16	500
16 mm ²	Ivory	28 mm	18 mm	5.8 mm	0557 100 161	500
25 mm ²	Black	30 mm	16 mm	7.3 mm	0557 100 250	50
25 mm ²	Brown	30 mm	16 mm	7.3 mm	0557 025 00	200
25 mm ²	Brown	36 mm	22 mm	7.3 mm	0557 025 004	50
35 mm ²	Beige	30 mm	16 mm	8.3 mm	0557 035 00	200
35 mm ²	Beige	39 mm	25 mm	8.3 mm	0557 035 004	50
50 mm ²	Olive green	36 mm	20 mm	10.3 mm	0557 050 00	50
50 mm ²	Olive green	40 mm	25 mm	10.3 mm	0557 050 004	50
70 mm ²	Yellow	37 mm	21 mm	13.5 mm	0557 100 70	50
95 mm ²	Red	44 mm	25 mm	14.5 mm	0557 100 95	50

DUO wire end ferrule with plastic sleeve

- Polypropylene entry funnel
- For looping through clamps
- Made in Germany



Number of wires	2 PCS
Max. temperature resistance	105 °C
Material	Copper
Surface	Tin plated
Halogen-free	Yes

Wire cross section	Colour	Length (l1)	Sleeve length (l2)	Sleeve inside diameter (d1)	Art. no.	P. Qty.
0.5 mm ²	White	15 mm	8 mm	1.4 mm	0557 402	500
0.75 mm ²	Grey	15 mm	8 mm	1.7 mm	0557 403	500
0.75 mm ²	Grey	17 mm	10 mm	1.7 mm	0557 403 10	500

Wire cross section	Colour	Length (l1)	Sleeve length (l2)	Sleeve inside diameter (d1)	Art. no.	P. Qty.
1 mm ²	Red	15 mm	8 mm	1.95 mm	0557 400	500
1 mm ²	Red	17 mm	10 mm	1.95 mm	0557 400 10	500
1 mm ²	Yellow	15 mm	8 mm	1.95 mm	0557 401	500
1.5 mm ²	Black	16 mm	8 mm	2.2 mm	0557 404	500
1.5 mm ²	Black	20 mm	12 mm	2.2 mm	0557 404 12	500
2.5 mm ²	Blue	18.5 mm	10 mm	2.8 mm	0557 405	500
2.5 mm ²	Blue	21.5 mm	13 mm	2.8 mm	0557 405 13	500
4 mm ²	Grey	23 mm	12 mm	3.7 mm	0557 406	100
6 mm ²	Yellow	26 mm	14 mm	6 mm	0557 407	100
10 mm ²	Red	26 mm	14 mm	10 mm	0557 408	100
16 mm ²	Blue	30 mm	14 mm	16 mm	0557 409	50

Wire end ferrule with plastic sleeve box type 1

According to DIN 46228 Part 4

- Cross-section: 0.5–2.5 mm²
- Contents: 400 pieces
- Made in Germany

Art. no. 0557 300

P. Qty.: 1



Wire end ferrule with plastic sleeve box type 2

According to DIN 46228 Part 4

- Cross-section: 4.0–16.0 mm²
- Contents: 100 pieces
- Made in Germany

Art. no. 0557 301

P. Qty.: 1



Wire end ferrule with plastic sleeve box type 1

According to DIN 46228 Part 4

- Cross-section: 0.5–2.5 mm²
- Contents: 400 pieces
- Made in Germany

Art. no. 0557 100

P. Qty.: 1



Wire end ferrules, insulated, assortment

525 pieces in system case 4.4.1

Dimensional tolerances to DIN 46228 Part 4

System dimensions	4.4.1
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Art. no. 5964 055 701

P. Qty.: 1



ORSY

Wire end ferrule without plastic sleeve

DIN 46228 Part 1

Material	Copper
Surface	Tin plated



Wire cross section	Length (L)	Sleeve inside diameter	Sleeve-wall thickness	Art. no.	P. Qty.
0.5 mm ²	8 mm	1 mm	0.15 mm	0557 184 314	1000
0.5 mm ²	10 mm	1 mm	0.15 mm	0557 184 316	1000
1.5 mm ²	15 mm	1.7 mm	0.15 mm	0557 184 356	1000
2.5 mm ²	15 mm	2.2 mm	0.15 mm	0557 184 370	1000
35 mm ²	18 mm	8.3 mm	0.22 mm	0557 184 446	100
35 mm ²	20 mm	8.3 mm	0.22 mm	0557 184 448	100
35 mm ²	25 mm	8.3 mm	0.22 mm	0557 184 450	100
35 mm ²	30 mm	8.3 mm	0.22 mm	0557 184 452	100
50 mm ²	18 mm	10.3 mm	0.3 mm	0557 184 456	100
50 mm ²	22 mm	10.3 mm	0.3 mm	0557 184 458	100
50 mm ²	25 mm	10.3 mm	0.3 mm	0557 184 460	100
70 mm ²	25 mm	12.5 mm	0.4 mm	0557 184 468	100
95 mm ²	32 mm	14.5 mm	0.4 mm	0557 184 478	50

Crimp cable lug, ring shape

Polyamide insulated

Expanded insulating sleeve

Harmonised conductors with stronger cable core insulation can be processed without a problem.

„Easy Entry“ insertion

Easy, fast and safe insertion of the conductor

High-quality polyamide

Suitable for use in situations involving changing loads and temperature fluctuations



Max. nominal voltage	600 V
Max. temperature conditions	105 °C
Material	Copper

Insulating material	Nylon
Halogen-free	Yes
Silicone-free	Yes

Min./max. wire cross section	Colour	Flange hole	Length	Surface	Art. no.	P. Qty.
0.5-1 mm ²	Red	M3	20 mm	Tin plated	0967 400 053	100
0.5-1 mm ²	Red	M3.5	20 mm	Tin plated	0967 400 051	100
0.5-1 mm ²	Red	M4	22 mm	Tin plated	0967 400 054	100
0.5-1 mm ²	Red	M5	24 mm	Tin plated	0967 400 055	100
0.5-1 mm ²	Red	M6	26.5 mm	Tin plated	0967 400 056	100
0.5-1 mm ²	Red	M8	20.6 mm	Tin plated	0967 400 058	100
0.5-1 mm ²	Red	M10	33 mm	Tin plated	0967 400 050	100
1.5-2.5 mm ²	Blue	M3	20 mm	Tin plated	0967 400 153	100
1.5-2.5 mm ²	Blue	M4	22 mm	Tin plated	0967 400 154	100
1.5-2.5 mm ²	Blue	M5	25 mm	Tin plated	0967 400 155	100
1.5-2.5 mm ²	Blue	M6	27.5 mm	Tin plated	0967 400 156	100
1.5-2.5 mm ²	Blue	M8	30 mm	Tin plated	0967 400 158	100
1.5-2.5 mm ²	Blue	M10	33 mm	Tin plated	0967 400 150	100
4-6 mm ²	Yellow	M4	25 mm	Tin plated	0967 400 404	50
4-6 mm ²	Yellow	M5	27 mm	Tin plated	0967 400 405	50
4-6 mm ²	Yellow	M6	28.5 mm	Tin plated	0967 400 406	50
4-6 mm ²	Yellow	M8	33 mm	Tin plated	0967 400 408	50
4-6 mm ²	Yellow	M10	28 mm	Tin plated	0967 400 410	500
4-6 mm ²	Yellow	M10	37 mm	Tin plated	0967 400 400	50
10-10 mm ²	Red	M4	29 mm	Tin plated	0967 410 004	50
10-10 mm ²	Red	M5	29 mm	Tin plated	0967 410 005	50
10-10 mm ²	Red	M6	30.5 mm	Tin plated	0967 410 006	50
10-10 mm ²	Red	M8	35.5 mm	Tin plated	0967 410 008	50
10-10 mm ²	Red	M10	38 mm	Tin plated	0967 410 010	50
10-10 mm ²	Red	M12	42 mm	Tin plated	0967 410 012	50
16-16 mm ²	Blue	M5	37 mm	Tin plated	0967 416 005	50
16-16 mm ²	Blue	M6	37 mm	Tin plated	0967 416 006	50
16-16 mm ²	Blue	M8	40.5 mm	Tin plated	0967 416 008	50
16-16 mm ²	Blue	M10	44.5 mm	Tin plated	0967 416 010	50
16-16 mm ²	Blue	M12	48.5 mm	Tin plated	0967 416 012	50

- UL (0.5 – 6.0 mm²)
- Ring shape according to DIN 46237



Crimp cable lug, pin shape

Polyamide insulated

Expanded insulating sleeve

Harmonised conductors with stronger cable core insulation can be processed without a problem.

„Easy Entry“ insertion

Easy, fast and safe insertion of the conductor

High-quality polyamide

Suitable for use in situations involving changing loads and temperature fluctuations



Max. nominal voltage	600 V/AC
Max. temperature conditions	105 °C
Material	Copper
Surface	Tin plated
Insulating material	Nylon
Halogen-free	Yes
Silicone-free	Yes

Min./max. wire cross section	Colour	Length of pin	Length	Art. no.	P. Qty.
0.5-1 mm ²	Red	10.5 mm	23.5 mm	0967 402 05	100
1.5-2.5 mm ²	Blue	11 mm	24 mm	0967 402 15	100
4-6 mm ²	Yellow	13 mm	25.5 mm	0967 402 40	50

- UL
- Pin shape in accordance with DIN 46231



Crimp cable lug, fork shape

Polyamide insulated

Expanded insulating sleeve

Harmonised conductors with stronger cable core insulation can be processed without a problem.

„Easy Entry“ insertion

Easy, fast and safe insertion of the conductor.

High-quality polyamide

Suitable for use in situations involving changing loads and temperature fluctuations.



Max. nominal voltage	600 V/AC
Max. temperature conditions	105 °C
Material	Copper
Surface	Tin plated
Insulating material	Nylon
Halogen-free	Yes
Silicone-free	Yes

Min./max. wire cross section	Colour	Flange hole	Length	Art. no.	P. Qty.
0.5-1 mm ²	Red	M3	17 mm	0967 401 053	100
0.5-1 mm ²	Red	M3.5	17 mm	0967 401 051	100
0.5-1 mm ²	Red	M4	18 mm	0967 401 054	100
0.5-1 mm ²	Red	M5	19 mm	0967 401 055	100
0.5-1 mm ²	Red	M6	21 mm	0967 401 056	100
1.5-2.5 mm ²	Blue	M3	17 mm	0967 401 153	100
1.5-2.5 mm ²	Blue	M4	18 mm	0967 401 154	100
1.5-2.5 mm ²	Blue	M5	20 mm	0967 401 155	100
1.5-2.5 mm ²	Blue	M6	22 mm	0967 401 156	100
1.5-2.5 mm ²	Blue	M8	23 mm	0967 401 158	100
4-6 mm ²	Yellow	M4	21 mm	0967 401 404	50
4-6 mm ²	Yellow	M5	22 mm	0967 401 405	50
4-6 mm ²	Yellow	M6	23 mm	0967 401 406	50
4-6 mm ²	Yellow	M8	26 mm	0967 401 408	50

- UL
- Fork shape in accordance with DIN 46237/C



Crimp cable lug, butt connector

Polyamide insulated

Expanded insulating sleeve

Harmonised conductors with stronger cable core insulation can be processed without a problem.



„Easy Entry“ insertion

Easy, fast and safe insertion of the conductor

High-quality polyamide

Suitable for use in situations involving changing loads and temperature fluctuations

Max. nominal voltage	600 V/AC
Max. temperature conditions	105 °C
Material	Copper
Surface	Tin plated
Insulating material	Nylon
Halogen-free	Yes
Silicone-free	Yes

Min./max. wire cross section	Colour	Length	Art. no.	P. Qty.
0.1-0.5 mm ²	Yellow	20 mm	0967 411 005	100
0.5-1.5 mm ²	Red	26 mm	0967 411 015	100
1.5-2.5 mm ²	Blue	26 mm	0967 411 025	100
4-6 mm ²	Yellow	28 mm	0967 411 060	50



Crimp cable lug, blade connector

Polyamide insulated

Expanded insulating sleeve

Harmonised conductors with stronger cable core insulation can be processed without a problem.

„Easy Entry“ insertion

Easy, fast and safe insertion of the conductor

High-quality polyamide

Suitable for use in situations involving changing loads and temperature fluctuations



Max. nominal voltage	300 V/AC
Max. temperature conditions	105 °C
Material	Copper
Surface	Tin plated
Insulating material	Nylon
Halogen-free	Yes
Silicone-free	Yes

Min./max. wire cross section	Colour	Nominal size of flat plug/push connector/blade connector	Length	Art. no.	P. Qty.
0.5-1.5 mm ²	Red	2.8 x 0.5 mm	19.2 mm	0967 408 151	100
0.5-1.5 mm ²	Red	2.8 x 0.8 mm	20.5 mm	0967 408 152	100
0.5-1.5 mm ²	Red	4.8 x 0.5 mm	19.2 mm	0967 408 153	100
0.5-1.5 mm ²	Red	4.8 x 0.8 mm	20.5 mm	0967 408 154	100
0.5-1.5 mm ²	Red	6.3 x 0.8 mm	21.2 mm	0967 408 155	100
1.5-2.5 mm ²	Blue	2.8 x 0.5 mm	20.2 mm	0967 408 251	100
1.5-2.5 mm ²	Blue	2.8 x 0.8 mm	21.5 mm	0967 408 252	100
1.5-2.5 mm ²	Blue	4.8 x 0.5 mm	19.2 mm	0967 408 253	100
1.5-2.5 mm ²	Blue	4.8 x 0.8 mm	20.5 mm	0967 408 254	100
1.5-2.5 mm ²	Blue	6.3 x 0.8 mm	21.2 mm	0967 408 255	100
4-6 mm ²	Yellow	6.3 x 0.8 mm	23.7 mm	0967 408 605	50

UL



Crimp cable lug, push connector

Polyamide insulated

Expanded insulating sleeve

Harmonised conductors with stronger cable core insulation can be processed without a problem.

„Easy Entry“ insertion

Easy, fast and safe insertion of the conductor

High-quality polyamide

Suitable for use in situations involving changing loads and temperature fluctuations



Max. nominal voltage	300 V/AC
Max. temperature conditions	105 °C
Material	Copper
Surface	Tin plated
Insulating material	Nylon
Halogen-free	Yes
Silicone-free	Yes

Min./max. wire cross section	Colour	Nominal size of flat plug/push connector/ blade connector	Length	Art. no.	P. Qty.
0.5-1.5 mm ²	Red	2.8 x 0.5 mm	19 mm	0967 406 151	100
0.5-1.5 mm ²	Red	2.8 x 0.8 mm	19 mm	0967 406 152	100
0.5-1.5 mm ²	Red	4.8 x 0.5 mm	19.5 mm	0967 406 153	100
0.5-1.5 mm ²	Red	4.8 x 0.8 mm	19.5 mm	0967 406 154	100
0.5-1.5 mm ²	Red	6.3 x 0.8 mm	21 mm	0967 406 155	100
1.5-2.5 mm ²	Blue	2.8 x 0.5 mm	19.5 mm	0967 406 251	100
1.5-2.5 mm ²	Blue	2.8 x 0.8 mm	19.5 mm	0967 406 252	100
1.5-2.5 mm ²	Blue	4.8 x 0.5 mm	20 mm	0967 406 253	100
1.5-2.5 mm ²	Blue	4.8 x 0.8 mm	20 mm	0967 406 254	100
1.5-2.5 mm ²	Blue	6.3 x 0.8 mm	21.5 mm	0967 406 255	100
4-6 mm ²	Yellow	6.3 x 0.8 mm	23.5 mm	0967 406 605	50

- UL
- Compliant with DIN 46245 Part 1-3



Crimp cable lug, push connector

Fully insulated polyamide

Expanded insulating sleeve

Harmonised conductors with stronger cable core insulation can be processed without a problem.



„Easy Entry“ insertion

Easy, fast and safe insertion of the conductor

High-quality polyamide

Suitable for use in situations involving changing loads and temperature fluctuations

Max. nominal voltage	300 V/AC
Max. temperature conditions	105 °C
Material	Copper
Surface	Tin plated
Insulating material	Nylon
Halogen-free	Yes
Silicone-free	Yes

Continuation **Crimp cable lug, push connector**

Min./max. wire cross section	Colour	Nominal size of flat plug/push connector/ blade connector	Length	Art. no.	P. Qty.
0.5-1.5 mm ²	Red	2.8 x 0.5 mm	19 mm	0967 416 151	100
0.5-1.5 mm ²	Red	2.8 x 0.8 mm	19 mm	0967 416 152	100
0.5-1.5 mm ²	Red	4.8 x 0.5 mm	20 mm	0967 416 153	100
0.5-1.5 mm ²	Red	4.8 x 0.8 mm	20 mm	0967 416 154	100
0.5-1.5 mm ²	Red	6.3 x 0.8 mm	22 mm	0967 416 155	100
1.5-2.5 mm ²	Blue	2.8 x 0.5 mm	19 mm	0967 416 251	100
1.5-2.5 mm ²	Blue	2.8 x 0.8 mm	19 mm	0967 416 252	100
1.5-2.5 mm ²	Blue	4.8 x 0.5 mm	20 mm	0967 416 253	100
1.5-2.5 mm ²	Blue	4.8 x 0.8 mm	20 mm	0967 416 254	100
1.5-2.5 mm ²	Blue	6.3 x 0.8 mm	22 mm	0967 416 255	100
4-6 mm ²	Yellow	6.3 x 0.8 mm	24.5 mm	0967 416 605	50



Ring-shaped crimp cable lug

DIN 46234 and similar

Max. temperature resistance	125 °C
Material	Electrolytic copper
Surface	Tin plated



Min./max. wire cross section	Wire cross section	Flange hole	Nominal size	Wire diameter (d1)	Art. no.	P. Qty.
0.5-1 mm ²		M3	3 - 1	1.6 mm	0967 601 3	100
0.5-1 mm ²		M3.5	3,5 - 1	1.6 mm	0967 601 35	100
0.5-1 mm ²		M4	4 - 1	1.6 mm	0967 601 4	100
0.5-1 mm ²		M5	5 - 1	1.6 mm	0967 601 5	100
0.5-1 mm ²		M6	6 - 1	1.6 mm	0967 601 6	100
1.5-2.5 mm ²		M3	3 - 2,5	2.3 mm	0967 602 3	100
1.5-2.5 mm ²		M3.5	3,5 - 2,5	2.3 mm	0967 602 35	100
1.5-2.5 mm ²		M4	4 - 2.5	2.3 mm	0967 602 4	100
1.5-2.5 mm ²		M5	5 - 2.5	2.3 mm	0967 602 5	100
1.5-2.5 mm ²		M6	6 - 2.5	2.3 mm	0967 602 6	100
1.5-2.5 mm ²		M8	8 - 2.5	2.3 mm	0967 602 8	100
1.5-2.5 mm ²		M10	10 - 2,5	2.3 mm	0967 602 10	100
4-6 mm ²		M4	4 - 6	3.6 mm	0967 606 4	50
4-6 mm ²		M5	5 - 6	3.6 mm	0967 606 5	50
4-6 mm ²		M6	6 - 6	3.6 mm	0967 606 6	50
4-6 mm ²		M8	8 - 6	3.6 mm	0967 606 8	50
4-6 mm ²		M10	10 - 6	3.6 mm	0967 606 10	50
4-6 mm ²		M12	12 - 6	3.6 mm	0967 606 12	50
	10 mm ²	M4	4 - 10	4.5 mm	0967 610 4	50
	10 mm ²	M5	5 - 10	4.5 mm	0967 610 5	50
	10 mm ²	M6	6 - 10	4.5 mm	0967 610 6	50
	10 mm ²	M8	8 - 10	4.5 mm	0967 610 8	50
	10 mm ²	M10	10 - 10	4.5 mm	0967 610 10	50
	10 mm ²	M12	12 - 10	4.5 mm	0967 610 12	50
	16 mm ²	M5	5 - 16	5.8 mm	0967 616 5	50

Min./max. wire cross section	Wire cross section	Flange hole	Nominal size	Wire diameter (d1)	Art. no.	P. Qty.
	16 mm ²	M6	6 - 16	5.8 mm	0967 616 6	50
	16 mm ²	M8	8 - 16	5.8 mm	0967 616 8	50
	16 mm ²	M10	10 - 16	5.8 mm	0967 616 10	50
	16 mm ²	M12	12 - 16	5.8 mm	0967 616 12	50
	25 mm ²	M5	5 - 25	7.5 mm	0967 625 5	50
	25 mm ²	M6	6 - 25	7.5 mm	0967 625 6	50
	25 mm ²	M8	8 - 25	7.5 mm	0967 625 8	50
	25 mm ²	M10	10 - 25	7.5 mm	0967 625 10	50
	25 mm ²	M12	12 - 25	7.5 mm	0967 625 12	50
	35 mm ²	M6	6 - 35	9 mm	0967 635 6	50
	35 mm ²	M8	8 - 35	9 mm	0967 635 8	50
	35 mm ²	M10	10 - 35	9 mm	0967 635 10	50
	35 mm ²	M12	12 - 35	9 mm	0967 635 12	50
	50 mm ²	M6	6 - 50	11 mm	0967 650 6	50
	50 mm ²	M8	8 - 50	11 mm	0967 650 8	50
	50 mm ²	M10	10 - 50	11 mm	0967 650 10	50
	50 mm ²	M12	12 - 50	11 mm	0967 650 12	50
	50 mm ²	M16	16 - 50	11 mm	0967 650 16	50
	70 mm ²	M6	6 - 70	13 mm	0967 670 6	25
	70 mm ²	M8	8 - 70	13 mm	0967 670 8	25
	70 mm ²	M10	10 - 70	13 mm	0967 670 10	25
	70 mm ²	M12	12 - 70	13 mm	0967 670 12	25
	70 mm ²	M16	16 - 70	13 mm	0967 670 16	25
	95 mm ²	M8	8 - 95	15 mm	0967 695 8	25
	95 mm ²	M10	10 - 95	15 mm	0967 695 10	25
	95 mm ²	M12	12 - 95	15 mm	0967 695 12	25
	95 mm ²	M16	16 - 95	15 mm	0967 695 16	25
	120 mm ²	M8	8 - 120	16.5 mm	0967 612 08	25
	120 mm ²	M10	10 - 120	16.5 mm	0967 612 010	25
	120 mm ²	M12	12 - 120	16.5 mm	0967 612 012	25
	120 mm ²	M16	16 - 120	16.5 mm	0967 612 016	25
	150 mm ²	M10	10 - 150	19 mm	0967 615 010	10
	150 mm ²	M12	12 - 150	19 mm	0967 615 012	10
	150 mm ²	M16	16 - 150	19 mm	0967 615 016	10
	185 mm ²	M10	10 - 185	21 mm	0967 618 510	10
	185 mm ²	M12	12 - 185	21 mm	0967 618 512	10
	185 mm ²	M16	16 - 185	21 mm	0967 618 516	10
	240 mm ²	M12	12 - 240	23.5 mm	0967 624 012	10
	240 mm ²	M16	16 - 240	23.5 mm	0967 624 016	10

Crimp cable lug, pin shape

DIN 46230 and similar

For multi, fine, and very fine-wired copper conductors, e.g. according to DIN EN 60228 Class 2, 5, and 6



Max. temperature resistance	125 °C
Material	Electrolytic copper
Surface	Tin plated

Continuation **Crimp cable lug, pin shape**

Min./max. wire cross section	Wire cross section	Wire diameter (d1)	Sleeve length	Width of pin	Art. no.	P. Qty.
	10 mm ²	4.5 mm	8 mm	4.3 mm	0967 600 103	100
	16 mm ²	5.8 mm	10 mm	5.5 mm	0967 600 104	100
	25 mm ²	7 mm	14 mm	7 mm	0967 600 105	100
	95 mm ²	13.5 mm	24 mm	12.5 mm	0967 600 109	50
0.5-1 mm ²		1.6 mm	5 mm	1.9 mm	0967 600 100	1000
0.5-1 mm ²		1.6 mm	5 mm	1.9 mm	5633 601 0	100
1.5-2.5 mm ²		2.3 mm	5 mm	1.9 mm	5633 602 5	100
4-6 mm ²		3.6 mm	6 mm	2.7 mm	5633 606 0	100
	10 mm ²	4.5 mm	8 mm	4.3 mm	5633 610 0	100
	16 mm ²	6 mm	10 mm	5.5 mm	5633 616 0	100
	25 mm ²	7 mm	14 mm	7 mm	5633 625 0	100
	35 mm ²	8.4 mm	16 mm	8 mm	5633 635 0	50
	50 mm ²	9.6 mm	19 mm	9.5 mm	5633 650 0	50
	70 mm ²	11.5 mm	23.5 mm	11 mm	5633 670 0	50
	95 mm ²	13.5 mm	24 mm	12.5 mm	5633 695 0	25

Telecommunications connectors

For single-wire copper conductors

- Cut-and-clamp technology
- Contact paste (sealing gel)



Number of ladders	Min./max. strand diameter	Max. diameter of insulation	Art. no.	P. Qty.
2 PCS	0.4-0.7 mm	1.27 mm	0556 011	100
2 PCS	0.4-0.7 mm	1.52 mm	0556 010	100
3 PCS	0.4-0.9 mm	1.67 mm	0556 012	100



Pipe cable lug with inspection hole

Common (similar to DIN)

Max. temperature resistance	125 °C
Material	Electrolytic copper
Surface	Tin plated

Wire cross section	Flange hole	Wire diameter (d1)	Diameter of hole (d2)	Distance between sleeve end and centre of hole (e)	Art. no.	P. Qty.
1.2 mm²	M4	1.4 mm	4.3 mm	15.5 mm	0967 600 351	100
2.5 mm²	M4	2.4 mm	4.3 mm	17.9 mm	0967 600 360	100
2.5 mm²	M5	2.3 mm	5.8 mm	16.3 mm	0967 600 361	100
4 mm²	M4	2.7 mm	4.3 mm	19.8 mm	0967 600 370	100
6 mm²	M4	3.5 mm	4.3 mm	19 mm	0967 206 4	100
6 mm²	M5	3.5 mm	5.3 mm	20.5 mm	0967 206 5	100
6 mm²	M6	3.5 mm	6.4 mm	20.5 mm	0967 206 6	100
6 mm²	M8	3.5 mm	8.4 mm	23 mm	0967 206 8	100
6 mm²	M10	3.5 mm	10.5 mm	25 mm	0967 206 10	100
6 mm²	M12	3.5 mm	13.2 mm	28 mm	0967 206 12	100
10 mm²	M5	4.5 mm	5.3 mm	22.5 mm	0967 210 5	100
10 mm²	M6	4.5 mm	6.4 mm	22.5 mm	0967 210 6	100
10 mm²	M8	4.5 mm	8.4 mm	25 mm	0967 210 8	100
10 mm²	M10	4.5 mm	10.5 mm	27 mm	0967 210 10	100
16 mm²	M5	5.5 mm	5.3 mm	26 mm	0967 216 5	100

Continuation **Pipe cable lug with inspection hole**

Wire cross section	Flange hole	Wire diameter (d1)	Diameter of hole (d2)	Distance between sleeve end and centre of hole (e)	Art. no.	P. Qty.
16 mm ²	M6	5.5 mm	6.4 mm	27 mm	0967 216 6	100
16 mm ²	M8	5.5 mm	8.4 mm	29 mm	0967 216 8	100
16 mm ²	M10	5.5 mm	10.5 mm	31 mm	0967 216 10	100
16 mm ²	M12	5.5 mm	13.2 mm	32.5 mm	0967 216 12	100
25 mm ²	M5	7 mm	5.3 mm	30 mm	0967 225 5	100
25 mm ²	M6	7 mm	6.4 mm	30 mm	0967 225 6	100
25 mm ²	M8	7 mm	8.4 mm	32.5 mm	0967 225 8	100
25 mm ²	M10	7 mm	10.5 mm	34.5 mm	0967 225 10	100
25 mm ²	M12	7 mm	13.2 mm	35.5 mm	0967 225 12	100
35 mm ²	M6	8.5 mm	6.4 mm	32.5 mm	0967 235 6	50
35 mm ²	M8	8.5 mm	8.4 mm	35 mm	0967 235 8	50
35 mm ²	M10	8.5 mm	10.5 mm	37 mm	0967 235 10	50
35 mm ²	M12	8.5 mm	13.2 mm	38 mm	0967 235 12	50
35 mm ²	M16	8.5 mm	17 mm	41 mm	0967 235 16	50
50 mm ²	M6	10 mm	6.4 mm	37 mm	0967 250 6	50
50 mm ²	M8	10 mm	8.4 mm	37 mm	0967 250 8	50
50 mm ²	M10	10 mm	10.5 mm	39 mm	0967 250 10	50
50 mm ²	M12	10 mm	13.2 mm	40 mm	0967 250 12	50
50 mm ²	M16	10 mm	17 mm	43 mm	0967 250 16	50
50 mm ²	M20	10 mm	21 mm	46 mm	0967 250 20	50
70 mm ²	M8	12 mm	8.4 mm	43 mm	0967 270 8	25
70 mm ²	M10	12 mm	10.5 mm	45 mm	0967 270 10	25
70 mm ²	M12	12 mm	13.2 mm	46 mm	0967 270 12	25
70 mm ²	M16	12 mm	17 mm	49 mm	0967 270 16	25
95 mm ²	M8	13.5 mm	8.4 mm	48 mm	0967 295 8	25
95 mm ²	M10	13.5 mm	10.5 mm	48 mm	0967 295 10	25
95 mm ²	M12	13.5 mm	13.2 mm	49 mm	0967 295 12	25
95 mm ²	M16	13.5 mm	17 mm	52 mm	0967 295 16	25
95 mm ²	M20	13.5 mm	21 mm	58 mm	0967 295 20	25
120 mm ²	M8	15 mm	8.4 mm	51 mm	0967 212 08	25
120 mm ²	M10	15 mm	10.5 mm	51 mm	0967 212 010	25
120 mm ²	M12	15 mm	13.2 mm	51 mm	0967 212 012	25
120 mm ²	M16	15 mm	17 mm	53 mm	0967 212 016	25
150 mm ²	M10	16.5 mm	10.5 mm	58 mm	0967 215 010	25
150 mm ²	M12	16.5 mm	13.2 mm	58 mm	0967 215 012	25
150 mm ²	M16	16.5 mm	17 mm	58 mm	0967 215 016	25
150 mm ²	M20	16.5 mm	21 mm	64 mm	0967 215 020	25
185 mm ²	M10	19.4 mm	10.5 mm	65 mm	0967 218 510	25
185 mm ²	M12	19.4 mm	13.2 mm	65 mm	0967 218 512	25
185 mm ²	M16	19.4 mm	17 mm	65 mm	0967 218 516	25
185 mm ²	M20	19.4 mm	21 mm	69 mm	0967 218 520	25
240 mm ²	M10	21.2 mm	10.5 mm	72 mm	0967 224 010	25
240 mm ²	M12	21.2 mm	13.2 mm	72 mm	0967 224 012	25
240 mm ²	M16	21.2 mm	17 mm	72 mm	0967 224 016	25
240 mm ²	M20	21.2 mm	21 mm	72 mm	0967 224 020	25

Pipe cable lug with narrow flange

Standard (similar to DIN)

- For switchgear assemblies with a small connection area



Max. temperature resistance	125 °C
Material	Electrolytic copper
Surface	Tin plated

Wire cross section	Flange hole	Wire diameter (d1)	Diameter of hole (d2)	Distance between sleeve end and centre of hole (e)	Art. no.	P. Qty.
35 mm ²	M6	8.5 mm	6.5 mm	33 mm	5633 335 6	25
35 mm ²	M8	8.5 mm	8.5 mm	35 mm	5633 335 8	25
50 mm ²	M6	10 mm	6.5 mm	37 mm	5633 350 6	25
50 mm ²	M8	10 mm	8.5 mm	39 mm	5633 350 8	25
50 mm ²	M10	10 mm	10.5 mm	41 mm	5633 350 10	25
70 mm ²	M6	12 mm	6.5 mm	41 mm	5633 370 6	25
70 mm ²	M8	12 mm	8.5 mm	43 mm	5633 370 8	25
70 mm ²	M10	12 mm	10.5 mm	45 mm	5633 370 10	25
70 mm ²	M12	12 mm	13 mm	46 mm	5633 370 12	25
95 mm ²	M6	13.5 mm	6.5 mm	43 mm	5633 395 6	10
95 mm ²	M8	13.5 mm	8.5 mm	45 mm	5633 395 8	10
95 mm ²	M10	13.5 mm	10.5 mm	47 mm	5633 395 10	10
95 mm ²	M12	13.5 mm	13 mm	48 mm	5633 395 12	10
120 mm ²	M8	15 mm	8.5 mm	51 mm	5633 312 08	10
120 mm ²	M10	15 mm	10.5 mm	53 mm	5633 312 010	10
120 mm ²	M12	15 mm	13 mm	54 mm	5633 312 012	10
150 mm ²	M6	16.5 mm	6.5 mm	52 mm	5633 315 06	10
150 mm ²	M8	16.5 mm	8.5 mm	54 mm	5633 315 08	10
150 mm ²	M10	16.5 mm	10.5 mm	56 mm	5633 315 010	10
150 mm ²	M12	16.5 mm	13 mm	57 mm	5633 315 012	10
185 mm ²	M8	19 mm	8.5 mm	58 mm	5633 318 58	10
185 mm ²	M10	19 mm	10.5 mm	60 mm	5633 318 510	10
185 mm ²	M12	19 mm	13 mm	60 mm	5633 318 512	10
240 mm ²	M8	21 mm	8.5 mm	63 mm	5633 324 08	10
240 mm ²	M10	21 mm	10.5 mm	65 mm	5633 324 010	10
240 mm ²	M12	21 mm	13 mm	65 mm	5633 324 012	10
240 mm ²	M16	21 mm	17 mm	69 mm	5633 324 016	10

Connecting sleeve

Standard (similar to DIN)

- With centre stop



Max. temperature resistance	125 °C
Material	Electrolytic copper
Surface	Tin plated

Min./max. wire cross section	Wire cross section	Length (l)	Diameter (d)	Art. no.	P. Qty.
1.5-2.5 mm ²		15 mm	2.5 mm	0967 300 002	100
1.5-2.5 mm ²		25 mm	2.5 mm	0967 300 003	100
	4 mm ²	15 mm	3.6 mm	0967 300 004	100

Continuation **Connecting sleeve**

Min./max. wire cross section	Wire cross section	Length (l)	Diameter (d)	Art. no.	P. Qty.
	4 mm ²	25 mm	3.6 mm	0967 300 005	100
	6 mm ²	25 mm	3.6 mm	0967 300 006	100
	10 mm ²	30 mm	4.5 mm	0967 300 010	100
	16 mm ²	30 mm	5.5 mm	0967 300 016	100
	25 mm ²	38 mm	7.2 mm	0967 300 025	100
	35 mm ²	42 mm	8.5 mm	0967 300 035	50
	50 mm ²	48 mm	10.2 mm	0967 300 050	50
	70 mm ²	52 mm	12 mm	0967 300 070	25
	95 mm ²	58 mm	13.5 mm	0967 300 095	25
	120 mm ²	62 mm	15 mm	0967 300 120	25
	150 mm ²	68 mm	16.5 mm	0967 300 150	25
	185 mm ²	72 mm	19 mm	0967 300 185	25
	240 mm ²	88 mm	21 mm	0967 300 240	25

Compression cable lug

DIN 46235

- With markings for correct compression

Max. temperature resistance	125 °C
Material	Electrolytic copper
Surface	Tin plated



Wire cross section	Flange hole	Code number according to standard	Wire diameter (d ₁)	Diameter of hole (d ₂)	Art. no.	P. Qty.
6 mm ²	M6	5	3.8 mm	6.4 mm	0967 506 6	100
6 mm ²	M8	5	3.8 mm	8.4 mm	0967 506 8	100
10 mm ²	M5	6	4.5 mm	5.3 mm	0967 510 5	100
10 mm ²	M6	6	4.5 mm	6.4 mm	0967 510 6	100
10 mm ²	M8	6	4.5 mm	8.4 mm	0967 510 8	100
16 mm ²	M6	8	5.5 mm	6.4 mm	0967 516 6	100
16 mm ²	M8	8	5.5 mm	8.4 mm	0967 516 8	100
16 mm ²	M10	8	5.5 mm	10.5 mm	0967 516 10	100
16 mm ²	M12	8	5.5 mm	13 mm	0967 516 12	100
25 mm ²	M6	10	7 mm	6.4 mm	0967 525 6	100
25 mm ²	M8	10	7 mm	8.4 mm	0967 525 8	100
25 mm ²	M10	10	7 mm	10.5 mm	0967 525 10	100
25 mm ²	M12	10	7 mm	13 mm	0967 525 12	100
35 mm ²	M6	12	8.2 mm	6.4 mm	0967 535 6	50
35 mm ²	M8	12	8.2 mm	8.4 mm	0967 535 8	50
35 mm ²	M10	12	8.2 mm	10.5 mm	0967 535 10	50
35 mm ²	M12	12	8.2 mm	13 mm	0967 535 12	50
50 mm ²	M8	14	10 mm	8.4 mm	0967 550 8	25
50 mm ²	M10	14	10 mm	10.5 mm	0967 550 10	25
50 mm ²	M12	14	10 mm	13 mm	0967 550 12	25
50 mm ²	M16	14	10 mm	17 mm	0967 550 16	25
70 mm ²	M8	16	11.5 mm	8.4 mm	0967 570 8	25
70 mm ²	M10	16	11.5 mm	10.5 mm	0967 570 10	25
70 mm ²	M12	16	11.5 mm	13 mm	0967 570 12	25
70 mm ²	M16	16	11.5 mm	17 mm	0967 570 16	25

Wire cross section	Flange hole	Code number according to standard	Wire diameter (d ₁)	Diameter of hole (d ₂)	Art. no.	P. Qty.
95 mm ²	M8	18	13.5 mm	8.4 mm	0967 595 8	25
95 mm ²	M10	18	13.5 mm	10.5 mm	0967 595 10	25
95 mm ²	M12	18	13.5 mm	13 mm	0967 595 12	25
95 mm ²	M16	18	13.5 mm	17 mm	0967 595 16	25
120 mm ²	M10	20	15.5 mm	10.5 mm	0967 512 010	25
120 mm ²	M12	20	15.5 mm	13 mm	0967 512 012	25
120 mm ²	M16	20	15.5 mm	17 mm	0967 512 016	25
150 mm ²	M10	22	17 mm	10.5 mm	0967 515 010	10
150 mm ²	M12	22	17 mm	13 mm	0967 515 012	10
150 mm ²	M16	22	17 mm	17 mm	0967 515 016	10
150 mm ²	M20	22	17 mm	21 mm	0967 515 020	10
185 mm ²	M10	25	19 mm	10.5 mm	0967 518 510	10
185 mm ²	M12	25	19 mm	13 mm	0967 518 512	10
185 mm ²	M16	25	19 mm	17 mm	0967 518 516	10
240 mm ²	M10	28	21.5 mm	10.5 mm	0967 524 010	10
240 mm ²	M12	28	21.5 mm	13 mm	0967 524 012	10
240 mm ²	M16	28	21.5 mm	17 mm	0967 524 016	10
240 mm ²	M20	28	21.5 mm	21 mm	0967 524 020	10
300 mm ²	M12	32	24.5 mm	13 mm	0967 530 012	5
300 mm ²	M16	32	24.5 mm	17 mm	0967 530 016	5

Terminal block with wire guard

Improved terminal shape for easy conductor entry

- Easy to disconnect
- High torque capacity
- High flexibility



Nominal voltage	450 V
Flame-retardant	850 °C
Number of electrical poles	12 PCS
Colour	Natural
Material of the housing	PA 6.6 - Polyamide 6.6

Min./max. wire cross section	Nominal current	Max. ambient temperature	T identification according to EN 60998	Art. no.	P. Qty.
1-2.5 mm ²	24 A	85 °C	T85	0556 101	10
1.5-4 mm ²	32 A	85 °C	T85	0556 102	10
2.5-6 mm ²	41 A	85 °C	T85	0556 103	10
6-16 mm ²	76 A	110 °C	T110	0556 104	10



Terminal block without wire guard

Improved terminal shape for easy conductor entry

- Easy to disconnect
- High torque capacity
- High flexibility



Nominal voltage	450 V
Max. ambient temperature	80 °C
T identification according to EN 60998	T80
Flame-retardant	850 °C
Number of electrical poles	12 PCS
Colour	White
Material	PP - Polypropylene

Min./max. single-wire cross section	Nominal current single-wire	Wire cross section rigid min./max.	Nominal current rigid	Wire cross section flexible min./max.	Art. no.	P. Qty.
1-4 mm ²	32 A	1-2.5 mm ²	24 A	1-2.5 mm ²	0556 1	10
1.5-6 mm ²	41 A	1.5-6 mm ²	41 A	1.5-4 mm ²	0556 2	10
2.5-10 mm ²	57 A	2.5-6 mm ²	41 A	2.5-6 mm ²	0556 3	10
4-16 mm ²	76 A	4-10 mm ²	57 A	4-6 mm ²	0556 4	10



Wago Micro push-wire connector, screwless

Stackable

- Testing port for voltage tester

Min./max. wire diameter	0.6-0.8 mm
Min./max. wire-stripping length	5-6 mm
Nominal current	6 A
Nominal voltage	100 V
Max. ambient temperature	60 °C
Flammability	Self-extinguishing in accordance with UL94 V0
Material of the housing	PA 6.6 - Polyamide 6.6



Number of ladders	Colour	Art. no.	P. Qty.
4 PCS	Dark grey	0556 004	100
4 PCS	Light grey (bright grey)	0556 003	100
4 PCS	Red	0556 002	100
4 PCS	Yellow	0556 001	100
8 PCS	Dark grey	0556 008	100
8 PCS	Light grey (bright grey)	0556 007	100
8 PCS	Red	0556 006	100
8 PCS	Yellow	0556 005	100



Wago screwless connection terminal

For all types of copper wire

- Clamping range for fine-wire conductors: 0.08–4.0 mm² (rated current 32 A)
- Clamping range for single-wire and multi-wire conductors: 0.08–2.5 mm² (rated current 24 A)
- Test opening for voltage testers



Min./max. wire cross section	0.08-4 mm ²
Nominal current	32 A
Min./max. wire-stripping length	9-10 mm
Nominal voltage	400 V
Max. ambient temperature	40 °C
T identification according to EN 60998	T85
Flammability	Self-extinguishing in accordance with UL94 V2
Material of the housing	PA 6.6 - Polyamide 6.6
Colour	Dark grey

Number of ladders	Art. no.	P. Qty.
2 PCS	0556 100 002	100
3 PCS	0556 100 003	50
5 PCS	0556 100 005	50

2-wire lamp clamp, screwless

For single-wire and multi-wire copper conductors

- Testing port for voltage tester



Number of ladders	3 PCS
Wire cross section rigid min./ max.	0.75-2.5 mm ²
Wire cross section flexible min./ max.	0.5-2.5 mm ²
Nominal current	24 A
Min./max. wire-stripping length	9-11 mm
Nominal voltage	450 V
Max. ambient temperature	110 °C
T identification according to EN 60998	T110
Flammability	Self-extinguishing in accordance with UL94 V2
Material of the housing	PA 6.6 - Polyamide 6.6
Colour	White

Art. no. 0556 500 5

P. Qty.: 100



Plug-in screw terminal strip

For single-wire and multi-wire copper conductors

- Testing port for voltage tester



Screw connection	0.5 - 4 mm ²
Plug connection	4 x 0.5 - 1.5 mm ²
Nominal current	17.5 A
Nominal voltage	450 V
Max. ambient temperature	85 °C
Identification according to EN 60998	T85
Flammability	Self-extinguishing in accordance with UL94 V2
Number of electrical poles	12 PCS
Material of the housing	PA 6.6 - Polyamide 6.6
Colour	White

Art. no. 0556 515

P. Qty.: 10



ELMO® connection terminal, screwless Compact

For single-wire copper conductors

- With coloured cover coding
- Grooved surface for improved grip for more user comfort
- Testing port for voltage tester



Min./max. wire cross section	0.5-2.5 mm ²
Nominal current	24 A
Wire-stripping length	11 mm
Nominal voltage	450 V
Max. ambient temperature	60 °C
Identification according to EN 60998	T60
Flammability	Self-extinguishing in accordance with UL94 V2
Material of the housing	Polycarbonate

Number of ladders	Colour	Art. no.	P. Qty.
2 PCS	Transparent, White	0556 111 2	100
3 PCS	Transparent, Orange	0556 111 3	100
4 PCS	Transparent, Red	0556 111 4	100
5 PCS	Transparent, Yellow	0556 111 5	100
8 PCS	Transparent, Black	0556 111 8	100



ELMO® connection terminal, screwless Mini Plus

Smallest (most space-saving) lever clamp

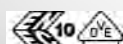
- Ideal for use with UP/HW device junction boxes
- Better grip
- Testing port for voltage tester



Wire cross section rigid min./ max.	0.2-2.5 mm ²
Wire cross section flexible min./ max.	0.2-2.5 mm ²
Nominal current	24 A
Wire-stripping length	11 mm
Nominal voltage	450 V
Max. ambient temperature	85 °C
T identification according to EN 60998	T85
Flammability	Self-extinguishing in accordance with UL94 V2
Material of the housing	Polycarbonate

Number of ladders	Length x width x height	Colour	Art. no.	P. Qty.
2 PCS	17 x 11 x 9.2 mm	Transparent, Red	0556 118 2	100
3 PCS	17 x 15.5 x 9.2 mm	Transparent, Orange	0556 118 3	100
5 PCS	17 x 24.8 x 9.2 mm	Transparent, Yellow	0556 118 5	100





ELMO® connection terminal, screwless Compact plus

Rigid copper wires can be inserted without opening the more user-friendly activation lever.

- Grooved surface for improved grip for more user comfort
- Test openings for voltage testers

Wire cross section rigid min./max.	0.2-4 mm ²
Wire cross section flexible min./max.	0.34-4 mm ²
Nominal current	32 A
Wire-stripping length	11 mm
Nominal voltage	450 V
Max. ambient temperature	85 °C
Identification according to EN 60998	T85
Flammability	Self-extinguishing in accordance with UL94 V2
Material of the housing	Polycarbonate

Number of ladders	Length x width x height	Colour	Art. no.	P. Qty.
2 PCS	20.5 x 13 x 10.5 mm	Transparent, Red	0556 117 2	100
3 PCS	20.5 x 18.5 x 10.5 mm	Transparent, Orange	0556 117 3	100
5 PCS	20.5 x 29.8 x 10.5 mm	Transparent, Yellow	0556 117 5	50

Steel spacer stud

With female/male thread

Surface	Zinc plated
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Length (L)	Thread type x nominal diameter	Width across flats (SW)	Male thread length (B)	Female-thread length (C)	Art. no.	P. Qty.
5 mm	M2.5	5 mm	6 mm	2.5 mm	4498 425 5	1000
5 mm	M3	5.5 mm	6 mm	3 mm	4498 43 5	1000
5 mm	M4	7 mm	8 mm	3 mm	4498 54 5	500
6 mm	M2.5	5 mm	6 mm	3 mm	4498 425 6	100
6 mm	M3	5.5 mm	6 mm	3 mm	4498 43 6	500
6 mm	M4	7 mm	8 mm	4 mm	4498 54 6	500
7 mm	M3	5.5 mm	6 mm	5 mm	4498 43 7	500
8 mm	M2.5	5 mm	6 mm	5 mm	4498 425 8	500
8 mm	M3	5.5 mm	6 mm	5 mm	4498 43 8	500
8 mm	M3	6 mm	6 mm	5 mm	0968 000 308	100
8 mm	M3	6 mm	6 mm	5 mm	4498 53 8	500
8 mm	M4	7 mm	8 mm	5 mm	4498 54 8	500
8 mm	M4	8 mm	8 mm	5 mm	4498 64 8	100
10 mm	M2.5	5 mm	6 mm	7 mm	4498 425 10	500
10 mm	M3	5.5 mm	6 mm	6 mm	4498 43 10	500
10 mm	M3	6 mm	6 mm	6 mm	0968 000 310	100
10 mm	M3	6 mm	6 mm	6 mm	4498 53 10	500
10 mm	M4	7 mm	8 mm	6 mm	4498 54 10	500
10 mm	M4	8 mm	8 mm	6 mm	0968 000 410	100/500
10 mm	M4	8 mm	8 mm	6 mm	4498 64 10	500
10 mm	M5	8 mm	10 mm	6 mm	4498 45 10	500
10 mm	M6	10 mm	12 mm	6 mm	4498 56 10	100
12 mm	M3	5.5 mm	6 mm	7 mm	4498 43 12	500
12 mm	M3	6 mm	6 mm	6 mm	0968 000 312	100
12 mm	M3	6 mm	6 mm	7 mm	4498 53 12	100
12 mm	M4	7 mm	8 mm	8 mm	4498 54 12	500
12 mm	M4	8 mm	8 mm	8 mm	0968 000 412	100
12 mm	M4	8 mm	8 mm	8 mm	4498 64 12	100
12 mm	M5	8 mm	10 mm	8 mm	4498 45 12	500
12 mm	M6	10 mm	12 mm	8 mm	4498 56 12	100
13 mm	M4	7 mm	8 mm	9 mm	4498 54 13	500
14 mm	M3	5.5 mm	6 mm	7 mm	4498 43 14	500
14 mm	M4	7 mm	8 mm	9 mm	4498 54 14	500
14 mm	M6	10 mm	12 mm	10 mm	4498 56 14	200
15 mm	M2.5	5 mm	6 mm	7 mm	4498 425 15	100
15 mm	M3	5.5 mm	6 mm	7 mm	4498 43 15	500
15 mm	M3	6 mm	6 mm	6 mm	0968 000 315	100/500
15 mm	M3	6 mm	6 mm	7 mm	4498 53 15	100
15 mm	M4	7 mm	8 mm	9 mm	4498 54 15	500
15 mm	M4	8 mm	8 mm	8 mm	0968 000 415	100
15 mm	M4	8 mm	8 mm	9 mm	4498 64 15	500
15 mm	M5	8 mm	10 mm	11 mm	4498 45 15	100
15 mm	M5	10 mm	10 mm	11 mm	4498 55 15	100
15 mm	M6	10 mm	12 mm	11 mm	4498 56 15	100
15 mm	M8	13 mm	14 mm	10 mm	4498 58 15	100
16 mm	M3	5.5 mm	6 mm	7 mm	4498 43 16	500
16 mm	M4	7 mm	8 mm	9 mm	4498 54 16	500
16 mm	M4	8 mm	8 mm	9 mm	4498 64 16	100

Continuation **Steel spacer stud**

Length (L)	Thread type x nominal diameter	Width across flats (SW)	Male thread length (B)	Fema- le-thread length (C)	Art. no.	P. Qty.
16 mm	M6	10 mm	12 mm	14 mm	4498 56 16	100
17 mm	M3	5.5 mm	6 mm	7 mm	4498 43 17	500
17 mm	M3	6 mm	6 mm	7 mm	4498 53 17	500
18 mm	M3	5.5 mm	6 mm	7 mm	4498 43 18	250
18 mm	M3	6 mm	6 mm	7 mm	4498 53 18	400
18 mm	M4	7 mm	8 mm	9 mm	4498 54 18	500
18 mm	M6	10 mm	12 mm	14 mm	4498 56 18	100
20 mm	M3	5.5 mm	6 mm	7 mm	4498 43 20	500
20 mm	M3	6 mm	6 mm	6 mm	0968 000 320	100
20 mm	M3	6 mm	6 mm	7 mm	4498 53 20	500
20 mm	M4	7 mm	8 mm	9 mm	4498 54 20	1000
20 mm	M4	8 mm	8 mm	8 mm	0968 000 420	100
20 mm	M4	8 mm	8 mm	9 mm	4498 64 20	500
20 mm	M5	8 mm	10 mm	11 mm	4498 45 20	500
20 mm	M5	10 mm	10 mm	10 mm	0968 000 520	100
20 mm	M5	10 mm	10 mm	11 mm	4498 55 20	100
20 mm	M6	10 mm	12 mm	12 mm	0968 000 620	100
20 mm	M6	10 mm	12 mm	14 mm	4498 56 20	100
20 mm	M8	13 mm	14 mm	15 mm	4498 58 20	100
22 mm	M3	5.5 mm	6 mm	7 mm	4498 43 22	500
23 mm	M4	7 mm	8 mm	9 mm	4498 54 23	100
24 mm	M4	7 mm	8 mm	9 mm	4498 54 24	500
24 mm	M4	8 mm	8 mm	9 mm	4498 64 24	100
25 mm	M3	5.5 mm	6 mm	7 mm	4498 43 25	500
25 mm	M3	6 mm	6 mm	6 mm	0968 000 325	100
25 mm	M3	6 mm	6 mm	7 mm	4498 53 25	100
25 mm	M4	7 mm	8 mm	9 mm	4498 54 25	100
25 mm	M4	8 mm	8 mm	8 mm	0968 000 425	100
25 mm	M4	8 mm	8 mm	9 mm	4498 64 25	200
25 mm	M5	8 mm	10 mm	11 mm	4498 45 25	100
25 mm	M5	10 mm	10 mm	10 mm	0968 000 525	100
25 mm	M5	10 mm	10 mm	11 mm	4498 55 25	100
25 mm	M6	10 mm	12 mm	12 mm	0968 000 625	100
25 mm	M6	10 mm	12 mm	14 mm	4498 56 25	100
25 mm	M8	13 mm	14 mm	16 mm	4498 58 25	100
27 mm	M4	8 mm	8 mm	9 mm	4498 64 27	1000
28 mm	M3	5.5 mm	6 mm	7 mm	4498 43 28	500
28 mm	M4	7 mm	8 mm	9 mm	4498 54 28	500
30 mm	M3	5.5 mm	6 mm	7 mm	4498 43 30	500
30 mm	M3	6 mm	6 mm	6 mm	0968 000 330	100
30 mm	M4	7 mm	8 mm	9 mm	4498 54 30	500
30 mm	M4	7 mm	9 mm	8 mm	0968 410 430	100
30 mm	M4	8 mm	8 mm	8 mm	0968 000 430	100
30 mm	M4	8 mm	8 mm	9 mm	4498 64 30	100
30 mm	M5	8 mm	10 mm	11 mm	4498 45 30	200
30 mm	M5	10 mm	10 mm	10 mm	0968 000 530	100
30 mm	M5	10 mm	10 mm	11 mm	4498 55 30	200
30 mm	M6	10 mm	12 mm	12 mm	0968 000 630	100
30 mm	M6	10 mm	12 mm	14 mm	4498 56 30	100
30 mm	M8	13 mm	14 mm	16 mm	4498 58 30	200
35 mm	M3	5.5 mm	6 mm	7 mm	4498 43 35	500
35 mm	M3	6 mm	6 mm	7 mm	4498 53 35	500

Length (L)	Thread type x nominal diameter	Width across flats (SW)	Male thread length (B)	Fema- le-thread length (C)	Art. no.	P. Qty.
35 mm	M4	7 mm	8 mm	9 mm	4498 54 35	100
35 mm	M4	8 mm	8 mm	8 mm	0968 000 435	100
35 mm	M4	8 mm	8 mm	9 mm	4498 64 35	500
35 mm	M5	8 mm	10 mm	11 mm	4498 45 35	100
35 mm	M5	10 mm	10 mm	10 mm	0968 000 535	100
35 mm	M6	10 mm	12 mm	12 mm	0968 000 635	100
35 mm	M6	10 mm	12 mm	14 mm	4498 56 35	100
35 mm	M8	13 mm	14 mm	16 mm	4498 58 35	100
40 mm	M3	5.5 mm	6 mm	7 mm	4498 43 40	100
40 mm	M3	6 mm	6 mm	7 mm	4498 53 40	500
40 mm	M4	7 mm	8 mm	9 mm	4498 54 40	500
40 mm	M4	8 mm	8 mm	8 mm	0968 000 440	100
40 mm	M4	8 mm	8 mm	9 mm	4498 64 40	250
40 mm	M5	8 mm	10 mm	11 mm	4498 45 40	100
40 mm	M5	10 mm	10 mm	10 mm	0968 000 540	100
40 mm	M5	10 mm	10 mm	11 mm	4498 55 40	100
40 mm	M6	10 mm	12 mm	12 mm	0968 000 640	100
40 mm	M6	10 mm	12 mm	14 mm	4498 56 40	100
40 mm	M8	13 mm	14 mm	16 mm	4498 58 40	100
45 mm	M3	5.5 mm	6 mm	7 mm	4498 43 45	100
45 mm	M4	7 mm	8 mm	9 mm	4498 54 45	200
45 mm	M5	8 mm	10 mm	11 mm	4498 45 45	500
45 mm	M5	10 mm	10 mm	10 mm	0968 000 545	100
45 mm	M6	10 mm	12 mm	12 mm	0968 000 645	100
45 mm	M6	10 mm	12 mm	14 mm	4498 56 45	100
50 mm	M3	5.5 mm	6 mm	7 mm	4498 43 50	100
50 mm	M3	6 mm	6 mm	7 mm	4498 53 50	100
50 mm	M4	7 mm	8 mm	9 mm	4498 54 50	100
50 mm	M4	8 mm	8 mm	9 mm	4498 64 50	500
50 mm	M5	8 mm	10 mm	11 mm	4498 45 50	200
50 mm	M5	10 mm	10 mm	10 mm	0968 000 550	100
50 mm	M6	10 mm	12 mm	12 mm	0968 000 650	100
50 mm	M6	10 mm	12 mm	14 mm	4498 56 50	100
50 mm	M8	13 mm	14 mm	16 mm	4498 58 50	100
55 mm	M3	5.5 mm	6 mm	7 mm	4498 43 55	100
55 mm	M4	7 mm	8 mm	9 mm	4498 54 55	100
55 mm	M4	8 mm	8 mm	8 mm	0968 000 455	300
55 mm	M5	8 mm	10 mm	11 mm	4498 45 55	100
55 mm	M6	10 mm	12 mm	14 mm	4498 56 55	100
60 mm	M3	5.5 mm	6 mm	7 mm	4498 43 60	200
60 mm	M4	7 mm	8 mm	9 mm	4498 54 60	100
60 mm	M4	8 mm	8 mm	8 mm	0968 000 460	100
60 mm	M4	8 mm	8 mm	8 mm	4498 64 60	100
60 mm	M5	8 mm	10 mm	11 mm	4498 45 60	200
60 mm	M5	10 mm	10 mm	11 mm	0968 000 560	100
60 mm	M5	10 mm	11 mm	11 mm	4498 55 60	200
60 mm	M6	10 mm	12 mm	14 mm	4498 56 60	100
60 mm	M8	13 mm	14 mm	16 mm	4498 58 60	100
65 mm	M4	7 mm	8 mm	9 mm	4498 54 65	100
65 mm	M5	8 mm	10 mm	11 mm	4498 45 65	100
65 mm	M6	10 mm	12 mm	14 mm	4498 56 65	100
70 mm	M3	5.5 mm	6 mm	7 mm	4498 43 70	1000
70 mm	M4	7 mm	8 mm	9 mm	4498 54 70	100
70 mm	M4	8 mm	8 mm	9 mm	4498 64 70	500

Continuation **Steel spacer stud**

Length (L)	Thread type x nominal diameter	Width across flats (SW)	Male thread length (B)	Fema- le-thread length (C)	Art. no.	P. Qty.
70 mm	M5	8 mm	10 mm	11 mm	4498 45 70	100
70 mm	M5	10 mm	10 mm	11 mm	4498 55 70	100
70 mm	M6	10 mm	12 mm	14 mm	4498 56 70	100
70 mm	M8	13 mm	14 mm	16 mm	4498 58 70	50
80 mm	M4	7 mm	8 mm	9 mm	4498 54 80	200
80 mm	M4	8 mm	8 mm	9 mm	4498 64 80	100
80 mm	M5	8 mm	10 mm	11 mm	4498 45 80	100
80 mm	M5	10 mm	10 mm	11 mm	4498 55 80	250
80 mm	M6	10 mm	10 mm	10 mm	0968 000 680	100
80 mm	M6	10 mm	12 mm	14 mm	4498 56 80	100
80 mm	M8	13 mm	14 mm	16 mm	4498 58 80	50
90 mm	M4	7 mm	8 mm	9 mm	4498 54 90	500
90 mm	M5	8 mm	10 mm	11 mm	4498 45 90	100
90 mm	M6	10 mm	12 mm	14 mm	4498 56 90	100
100 mm	M4	7 mm	8 mm	9 mm	4498 54 100	20
100 mm	M4	8 mm	8 mm	9 mm	4498 64 100	300
100 mm	M5	8 mm	10 mm	11 mm	4498 45 100	100
100 mm	M6	10 mm	12 mm	14 mm	4498 56 100	50
100 mm	M8	13 mm	14 mm	16 mm	4498 58 100	50
110 mm	M6	10 mm	12 mm	14 mm	4498 56 110	100
120 mm	M4	7 mm	8 mm	9 mm	4498 54 120	100
120 mm	M6	10 mm	12 mm	14 mm	4498 56 120	100
120 mm	M8	13 mm	14 mm	16 mm	4498 58 120	50

Spacer studs Female/female thread, steel

Spacer stud, steel, galvanised

Material	Steel
Surface	Zinc plated



Length (L)	Thread type x nominal diameter	Width across flats (SW)	Female-thread length (C)	Art. no.	P. Qty.
5 mm	M2.5	5 mm	5 mm	4498 625 5	500
5 mm	M3	5.5 mm	5 mm	4498 63 5	1000
6 mm	M4	7 mm	6 mm	4498 74 6	500
7 mm	M3	5.5 mm	7 mm	4498 63 7	500
8 mm	M2	4 mm	8 mm	4498 62 8	1
8 mm	M3	5.5 mm	8 mm	4498 63 8	500
8 mm	M3	6 mm	8 mm	4498 73 8	500
8 mm	M4	7 mm	8 mm	4498 74 8	500
9 mm	M3	5.5 mm	9 mm	4498 63 9	1
9 mm	M3	6 mm	9 mm	4498 73 9	500
10 mm	M2	4 mm	10 mm	4498 62 10	500
10 mm	M2.5	5 mm	10 mm	4498 625 10	500
10 mm	M3	5.5 mm	10 mm	4498 63 10	500
10 mm	M3	6 mm	5 mm	0968 100 910	100
10 mm	M3	6 mm	10 mm	4498 73 10	500
10 mm	M4	7 mm	10 mm	4498 74 10	500
10 mm	M4	8 mm	10 mm	4498 84 10	500

Length (L)	Thread type x nominal diameter	Width across flats (SW)	Female-thread length (C)	Art. no.	P. Qty.
11 mm	M3	5.5 mm	11 mm	4498 63 11	500
12 mm	M3	5.5 mm	12 mm	4498 63 12	500
12 mm	M3	6 mm	12 mm	4498 73 12	500
12 mm	M4	7 mm	12 mm	4498 74 12	500
12 mm	M4	8 mm	12 mm	4498 84 12	500
13 mm	M3	5.5 mm	13 mm	4498 63 13	500
15 mm	M3	5.5 mm	15 mm	4498 63 15	500
15 mm	M3	6 mm	7.5 mm	0968 100 915	100
15 mm	M4	7 mm	15 mm	4498 74 15	100
15 mm	M4	8 mm	7.5 mm	0968 200 115	100
15 mm	M4	8 mm	15 mm	4498 84 15	500
15 mm	M5	8 mm	15 mm	4498 85 15	1000
15 mm	M5	10 mm	15 mm	4498 95 15	500
15 mm	M6	10 mm	15 mm	4498 96 15	500
16 mm	M3	5.5 mm	16 mm	4498 63 16	500
16 mm	M3	6 mm	16 mm	4498 73 16	500
16 mm	M5	8 mm	16 mm	4498 85 16	100
16 mm	M6	10 mm	16 mm	4498 96 16	200
17 mm	M3	5.5 mm	17 mm	4498 63 17	500
17 mm	M4	8 mm	17 mm	4498 84 17	200
17 mm	M5	8 mm	17 mm	4498 85 17	500
18 mm	M3	5.5 mm	18 mm	4498 63 18	500
18 mm	M3	6 mm	18 mm	4498 73 18	1000
18 mm	M4	7 mm	18 mm	4498 74 18	1100
18 mm	M5	8 mm	18 mm	4498 85 18	100
18 mm	M6	10 mm	18 mm	4498 96 18	200
20 mm	M3	5.5 mm	20 mm	4498 63 20	500
20 mm	M3	6 mm	10 mm	0968 100 920	100
20 mm	M3	6 mm	20 mm	4498 73 20	500
20 mm	M4	7 mm	20 mm	4498 74 20	500
20 mm	M4	8 mm	10 mm	0968 200 120	100
20 mm	M4	8 mm	20 mm	4498 84 20	500
20 mm	M5	8 mm	20 mm	4498 85 20	500
20 mm	M5	10 mm	10 mm	0968 200 220	100
20 mm	M6	10 mm	10 mm	0968 200 320	100
20 mm	M6	10 mm	20 mm	4498 96 20	250
20 mm	M8	13 mm	20 mm	4498 98 20	100
22 mm	M4	8 mm	9 mm	4498 84 22	200
23 mm	M3	5.5 mm	7 mm	4498 63 32	500
23 mm	M6	10 mm	23 mm	4498 96 23	100
24 mm	M8	13 mm	24 mm	4498 98 24	100
25 mm	M3	5.5 mm	7 mm	4498 63 25	200
25 mm	M3	6 mm	7 mm	4498 73 25	500
25 mm	M4	7 mm	9 mm	4498 74 25	500
25 mm	M4	8 mm	8 mm	0968 200 125	100
25 mm	M4	8 mm	9 mm	4498 84 25	500
25 mm	M5	8 mm	11 mm	4498 85 25	100
25 mm	M5	10 mm	12.5 mm	0968 200 225	100
25 mm	M6	10 mm	25 mm	4498 96 25	100
25 mm	M8	13 mm	25 mm	4498 98 25	100
27 mm	M3	6 mm	7 mm	4498 73 27	500
30 mm	M3	5.5 mm	7 mm	4498 63 30	500
30 mm	M3	6 mm	6 mm	0968 100 930	100
30 mm	M3	6 mm	7 mm	4498 73 30	250

Continuation **Spacer studs Female/female thread, steel**

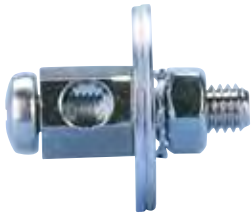
Length (L)	Thread type x nominal diameter	Width across flats (SW)	Female-thread length (C)	Art. no.	P. Qty.
30 mm	M4	7 mm	9 mm	4498 74 30	100
30 mm	M4	8 mm	8 mm	0968 200 130	100
30 mm	M4	8 mm	9 mm	4498 84 30	500
30 mm	M5	8 mm	11 mm	4498 85 30	100
30 mm	M5	10 mm	10 mm	0968 200 230	100
30 mm	M6	10 mm	12 mm	0968 200 330	100
30 mm	M6	10 mm	30 mm	4498 96 30	200
30 mm	M8	13 mm	30 mm	4498 98 30	1000
35 mm	M3	5.5 mm	7 mm	4498 63 35	500
35 mm	M3	6 mm	7 mm	4498 73 35	200
35 mm	M4	8 mm	9 mm	4498 84 35	500
35 mm	M5	8 mm	11 mm	4498 85 35	100
35 mm	M8	13 mm	35 mm	4498 98 35	100
40 mm	M3	5.5 mm	7 mm	4498 63 40	100
40 mm	M3	6 mm	7 mm	4498 73 40	200
40 mm	M4	7 mm	9 mm	4498 74 40	100
40 mm	M4	8 mm	9 mm	4498 84 40	100
40 mm	M5	8 mm	11 mm	4498 85 40	500
40 mm	M6	10 mm	12 mm	0968 200 340	100
40 mm	M6	10 mm	14 mm	4498 96 40	100
40 mm	M8	13 mm	16 mm	4498 98 40	100
45 mm	M3	5.5 mm	7 mm	4498 63 45	1
45 mm	M4	7 mm	9 mm	4498 74 45	200
45 mm	M4	8 mm	9 mm	4498 84 45	500
45 mm	M5	8 mm	11 mm	4498 85 45	100
45 mm	M5	10 mm	11 mm	4498 95 45	100
45 mm	M6	10 mm	14 mm	4498 96 45	100
45 mm	M8	13 mm	16 mm	4498 98 45	100
50 mm	M3	5.5 mm	7 mm	4498 63 50	100
50 mm	M3	6 mm	7 mm	4498 73 50	1
50 mm	M4	7 mm	9 mm	4498 74 50	200
50 mm	M4	8 mm	8 mm	0968 200 150	100
50 mm	M4	8 mm	9 mm	4498 84 50	100
50 mm	M5	8 mm	11 mm	4498 85 50	400
50 mm	M5	10 mm	10 mm	0968 200 250	100
50 mm	M6	10 mm	14 mm	4498 96 50	100
50 mm	M8	13 mm	16 mm	4498 98 50	100
55 mm	M3	6 mm	7 mm	4498 73 55	500
55 mm	M4	7 mm	9 mm	4498 74 55	100
55 mm	M5	8 mm	11 mm	4498 85 55	100
60 mm	M3	6 mm	7 mm	4498 73 60	100
60 mm	M5	8 mm	11 mm	4498 85 60	500
60 mm	M6	10 mm	14 mm	4498 96 60	200
60 mm	M8	13 mm	16 mm	4498 98 60	100
70 mm	M5	8 mm	11 mm	4498 85 70	1000
70 mm	M8	13 mm	16 mm	4498 98 70	100
80 mm	M4	8 mm	9 mm	4498 84 80	100
80 mm	M5	8 mm	11 mm	4498 85 80	100
80 mm	M6	10 mm	14 mm	4498 96 80	100
85 mm	M4	7 mm	9 mm	4498 74 85	50
100 mm	M6	10 mm	14 mm	4498 96 100	100
100 mm	M8	13 mm	16 mm	4498 98 100	50

Bathroom earth terminal for one line

With M6 connecting screw and M5 clamping screw
Connection options

Single or multi-wire conductors from 2.5-16 mm², fine-wire conductors from 2.5-10 mm²

Washer, nut and screw material: Iron, galvanised and chromated



Min./max. wire cross section	2.5-16 mm ²
Material	Brass/steel

Art. no. 0969 102 201

P. Qty.: 50

Earthing strap clamp

Earthing strap clamp for pipes made of copper or zinc-plated steel

- For conductor cross-sections from 2.5 to 16 mm²
- Stainless steel strap, steel clamp, galvanised



Min./max. pipe diameter	Min./max. pipe diameter in inches	Art. no.	P. Qty.
8-165 mm	1/8-6 in	0969 101 304	10
8-114 mm	1/8-4 in	0969 101 303	10
8-50 mm	1/8-1-1/2 in	0969 101 302	10
8-18 mm	1/8-3/8 in	0969 101 301	10

For potential equalization in accordance with DIN VDE 0100 and DIN VDE 0190

Earthing strap clamp, stainless steel

- For conductor cross-sections from 2.5 to 16 mm²
- Stainless steel strap and clamp



Min./max. pipe diameter	Min./max. pipe diameter in inches	Art. no.	P. Qty.
8-165 mm	1/8-6 in	0969 101 404	10
8-114 mm	1/8-4 in	0969 101 403	10
8-50 mm	1/8-1-1/2 in	0969 101 402	10
8-18 mm	1/8-3/8 in	0969 101 401	10

For potential equalization in accordance with DIN VDE 0100 and DIN VDE 0190

Earth pipe clamp, copper

For conductor cross-sections up to max. 16 mm²

Material: Nickel-plated copper

- Sleeve clamp: Brass, nickel-plated
- Screws: Steel, zinc-plated and chromated



Continuation **Earth pipe clamp, copper**

Min./max. pipe diameter	Pipe diameter in inches	Art. no.	P. Qty.
8-10 mm	1/8 in	0969 103 001	10
10-13.5 mm	1/4 in	0969 103 002	10
15-18 mm	3/8 in	0969 103 003	10
18-22 mm	1/2 in	0969 103 004	10
24-28 mm	3/4 in	0969 103 005	5
30-36 mm	1 in	0969 103 006	5

For potential equalization in accordance with DIN VDE 0100 and DIN VDE 0190

Bathroom earthing rail with cover

Bathroom earthing rail in plastic housing

Connection options:

- 1 x 6-25 mm²
- 5 x 1.5-6 mm²

Min./max. wire cross section	1.5-25 mm ²
Number of connections	6 PCS
Material of the contact bar	Brass
Material of the top section	Polypropylene, highly impact-resistant
Material of the bottom section	Polypropylene, highly impact-resistant



Art. no. 0969 102 200

P. Qty.: 10

For potential equalization in accordance with VDE 0190

ELMO® VDE potential equalization rail

25 mm² clamping point: 2 conductors clamped with just one screw

Connection options:

- 1 strip 30 x 4 mm or 1 circular cable 8-10 mm
- 1 circular cable 50 mm²
- 1 circular cable 2.5-6 mm²
- 6 circular cables 6-25 mm²

Time needed to connect the conductor reduced to 20%

Clamps are open on delivery

Cover swings in both directions and can be locked open at an angle of 60° or 120°.

Min./max. wire cross section	6-25 mm ²
Number of connections	9 PCS
Material of the contact bar	Brass
Material of the top section	Polypropylene, highly impact-resistant
Material of the bottom section	Polypropylene, highly impact-resistant



Art. no. 0969 102 110

P. Qty.: 10

In accordance with VDE 0618 part 1, VDE 0100 part 540, for potential equalization in accordance with VDE 0190



Potential equalization rail

For indoor use

Connection options:

- 1 strip 30 x 4 mm or 1 circular cable 8-10 mm
- 1 circular cable 50 mm²
- 7 circular cables 6-25 mm²

Min./max. wire cross section	6-25 mm ²
Number of connections	9 PCS
Material of the contact bar	Brass
Material of the top section	ABS, highly impact-resistant
Material of the bottom section	ABS, highly impact-resistant



Art. no. 0969 102 100

P. Qty.: 10

In accordance with VDE 0618 part 1, for potential equalization in accordance with VDE 0190

Crimp cable lug, butt connector

PVC insulated

Max. nominal voltage	600 V/AC
Min./max. temperature conditions	-10 to 75 °C
Material	Copper
Surface	Tin plated
Insulating material	PVC
Halogen-free	No
Silicone-free	No



Min./max. wire cross section	Colour	Length	Art. no.	P. Qty.
0.5-1 mm ²	Red	25 mm	0558 925 1	100/300/500
1.5-2.5 mm ²	Blue	25 mm	0558 926 2	100/300/500
4-6 mm ²	Yellow	27 mm	0558 927 4	100/300

Crimp cable lug, ring connector

PVC insulated

Max. nominal voltage	600 V/AC
Min./max. temperature conditions	-10 to 75 °C
Material	Copper



Continuation **Crimp cable lug, ring connector**

Surface	Tin plated
Insulating material	PVC
Halogen-free	No
Silicone-free	No

Min./max. wire cross section	Colour	Flange hole	Art. no.	P. Qty.
0.5-1 mm ²	Red	M3	0558 900 1	100
0.5-1 mm ²	Red	M4	0558 901 1	100/300
0.5-1 mm ²	Red	M5	0558 902 1	100/500
0.5-1 mm ²	Red	M6	0558 903 1	100/500
0.5-1 mm ²	Red	M8	0558 904 1	100
0.5-1 mm ²	Red	M10	0558 904 11	100
1.5-2.5 mm ²	Blue	M3.5	0558 907 2	100
1.5-2.5 mm ²	Blue	M4	0558 908 2	100/300
1.5-2.5 mm ²	Blue	M5	0558 909 2	100/300
1.5-2.5 mm ²	Blue	M6	0558 910 2	100/300/500
1.5-2.5 mm ²	Blue	M8	0558 911 2	100
1.5-2.5 mm ²	Blue	M10	0558 912 2	100
4-6 mm ²	Yellow	M4	0558 914 4	100
4-6 mm ²	Yellow	M5	0558 915 4	100/300
4-6 mm ²	Yellow	M6	0558 916 4	100/300
4-6 mm ²	Yellow	M8	0558 917 4	100/300
4-6 mm ²	Yellow	M10	0558 918 4	100
4-6 mm ²	Yellow	M12	0558 919 4	100

Crimp cable lug, push connector including blade connector

PVC insulated

Nominal size of flat plug/push connector/blade connector	6.3 x 0.8 mm
Max. nominal voltage	600 V/AC
Min./max. temperature conditions	-10 to 75 °C
Material	Copper
Surface	Tin plated
Insulating material	PVC
Halogen-free	No
Silicone-free	No



Min./max. wire cross section	Colour	Art. no.	P. Qty.
0.5-1 mm ²	Red	0558 942 1	100/300
1.5-2.5 mm ²	Blue	0558 943 2	100/500
4-6 mm ²	Yellow	0558 944 4	100

Crimp cable lug, push connector

PVC insulated

Min./max. temperature conditions	-10 to 75 °C
Material	Copper
Surface	Tin plated
Insulating material	PVC
Halogen-free	No
Silicone-free	No



Min./max. wire cross section	Colour	Nominal size of flat plug/push connector/blade connector	Max. nominal voltage	Art. no.	P. Qty.
0.5-1 mm ²	Red	2.8 x 0.5 mm	600 V/AC	0558 960 1	100
0.5-1 mm ²	Red	2.8 x 0.8 mm	600 V/AC	0558 960	100/300
0.5-1 mm ²	Red	4.8 x 0.5 mm	600 V/AC	0558 976 1	100/500
0.5-1 mm ²	Red	4.8 x 0.8 mm	600 V/AC	0558 977 1	100
0.5-1 mm ²	Red	6.3 x 0.8 mm	600 V/AC	0558 905 1	100/300/1000
1.5-2.5 mm ²	Blue	2.8 x 0.5 mm	600 V/AC	0558 959 2	100
1.5-2.5 mm ²	Blue	2.8 x 0.8 mm	300 V/AC	0558 960 2	100
1.5-2.5 mm ²	Blue	4.8 x 0.5 mm	600 V/AC	0558 976 2	100
1.5-2.5 mm ²	Blue	4.8 x 0.8 mm	600 V/AC	0558 977 2	100
1.5-2.5 mm ²	Blue	6.3 x 0.8 mm	600 V/AC	0558 905 2	100/300/1000
1.5-2.5 mm ²	Blue	8.2 x 0.8 mm	300 V/AC	0558 940 2	100
4-6 mm ²	Yellow	6.3 x 0.8 mm	600 V/AC	0558 905 4	100/300
4-6 mm ²	Yellow	9.5 mm	600 V/AC	0558 941 4	50/300

Crimp cable lug, push connector, fully insulated

PVC insulated

Nominal size of flat plug/push connector/blade connector	6.3 x 0.8 mm
Max. nominal voltage	600 V/AC
Min./max. temperature conditions	-10 to 75 °C
Material	Brass
Surface	Tin plated
Insulating material	PVC
Halogen-free	No
Silicone-free	No



Min./max. wire cross section	Colour	Art. no.	P. Qty.
0.5-1 mm ²	Red	0558 905 11	100/300
1.5-2.5 mm ²	Blue	0558 905 22	100/300/500
4-6 mm ²	Yellow	0558 905 44	100

Crimp cable lug, blade connector

PVC insulated

Max. nominal voltage	600 V/AC
Max. temperature conditions	75 °C
Min./max. temperature conditions	-10 to 75 °C
Material	Copper
Surface	Tin plated
Insulating material	PVC
Halogen-free	No
Silicone-free	No



Min./max. wire cross section	Colour	Nominal size of flat plug/push connector/blade connector	Art. no.	P. Qty.
0.5-1 mm ²	Red	2.8 x 0.5 mm	0558 973 1	100
0.5-1 mm ²	Red	2.8 x 0.8 mm	0558 975 1	100
0.5-1 mm ²	Red	4.8 x 0.8 mm	0558 939 1	100
0.5-1 mm ²	Red	6.3 x 0.8 mm	0558 944 1	100/300
1.5-2.5 mm ²	Blue	4.8 x 0.8 mm	0558 939 2	100
1.5-2.5 mm ²	Blue	6.3 x 0.8 mm	0558 945 2	100/300
4-6 mm ²	Yellow	6.3 x 0.8 mm	0558 945 4	100

Crimp cable lug, blade connector, fully insulated

PVC insulated

Max. nominal voltage	600 V/AC
Min./max. temperature conditions	-10 to 75 °C
Material	Copper
Surface	Tin plated
Insulating material	PVC
Halogen-free	No
Silicone-free	No



Min./max. wire cross section	Colour	Diameter	Art. no.	P. Qty.
0.5-1 mm ²	Red	4 mm	0558 947 1	100/300/500
1.5-2.5 mm ²	Blue	5 mm	0558 949 2	100/300
4-6 mm ²	Yellow	5 mm	0558 962	100

Crimp cable lug, round connector

PVC insulated

Max. nominal voltage	600 V/AC
Min./max. temperature conditions	-10 to 75 °C
Material	Copper
Surface	Tin plated
Insulating material	PVC



Halogen-free	No
Silicone-free	No

Min./max. wire cross section	Colour	Diameter	Art. no.	P. Qty.
0.5-1 mm ²	Red	4 mm	0558 946 1	100/300/500
1.5-2.5 mm ²	Blue	5 mm	0558 948 2	100/300
4-6 mm ²	Yellow	5 mm	0558 961	100

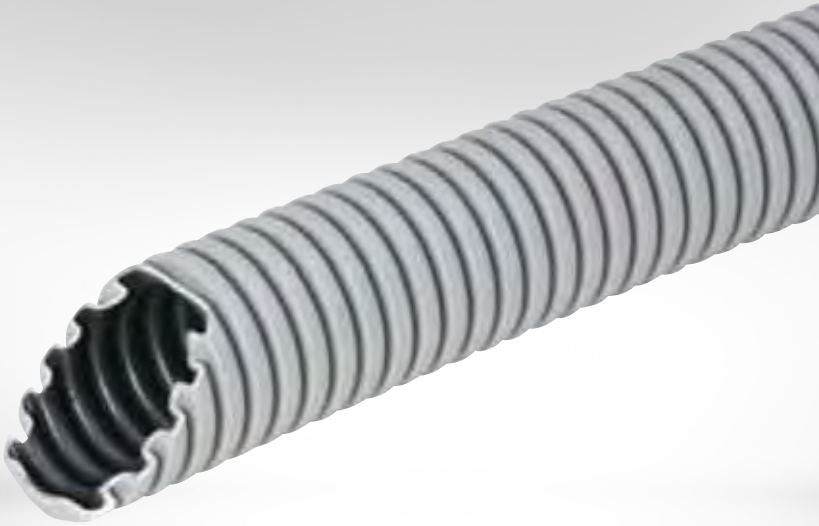
Cable ties, stainless steel AISI 304 with ball lock

Can be used anywhere where plastics cannot be used, e.g. under high ambient temperatures or strong chemical influences

- For quick, problem-free and reliable bundling of cables, cable harnesses and hoses etc.
- Incredibly robust material (100% stainless steel)
- No abrasion of the cable insulation
- Suitable for use at extreme temperatures and in aggressive environments

Thickness	0.25 mm
Material	Stainless steel, AISI 304
Surface	Plain
Min./max. temperature resistance	-80 to 538 °C
RoHS-compliant	Yes

Width	Length	Min./max. bundle diameter (Bündel-Ø min./max.)	Max. tensile force	Art. no.	P. Qty.
4.6 mm	201 mm	12.7-51 mm	890 N	0820 6 52	50
4.6 mm	362 mm	12.7-102 mm	890 N	0820 6 103	50
7.9 mm	201 mm	12.7-51 mm	2000 N	0820 6 51	50
7.9 mm	362 mm	12.7-102 mm	2000 N	0820 6 102	50



Flexible electrical conduit WFKuS-EM-F-105-H0 ComfortXQ®

With high-sliding inner coating

- PVC-free
- Time saved when pulling in or sliding in cables and lines
- Enables easy cable pulling, even over longer distances

VDE 0605 and DIN EN 61386-22

Classification code for electrical conduit	33332
Load force at 5 cm	750 N
Impact resistance at 100 mm	2 kg
Min./max. temperature conditions	-15 to 105 °C
Material	Polyolefin
Flame-retardant	Yes
Halogen-free	Yes
Silicone-free	Yes
Ultraviolet resistance	No

Colour	Outer diameter	Internal diameter	Design	Art. no.	P. Qty.
Grey	16 mm	10.5 mm	Coated	0975 259 616	100
Grey	20 mm	13.8 mm	Coated	0975 259 620	100
Grey	25 mm	17.7 mm	Coated	0975 259 625	50/100
Grey	32 mm	23.7 mm	Coated	0975 259 632	50

Colour	Outer diameter	Internal diameter	Design	Art. no.	P. Qty.
Grey	40 mm	30.9 mm	Coated	0975 259 640	25
Grey	50 mm	38.4 mm	Coated	0975 259 650	25
Grey	63 mm	49.9 mm	Uncoated	0975 259 663	25
Green	20 mm	13.8 mm	Coated	0975 259 671	100
Green	25 mm	17.7 mm	Coated	0975 259 681	100
Blue	20 mm	13.8 mm	Coated	0975 259 672	100
Blue	25 mm	17.7 mm	Coated	0975 259 682	100
Yellow	20 mm	13.8 mm	Coated	0975 259 673	100
Yellow	25 mm	17.7 mm	Coated	0975 259 683	100
Red	20 mm	13.8 mm	Coated	0975 259 674	100
Red	25 mm	17.7 mm	Coated	0975 259 684	100

Flexible electrical installation pipe WBY-EL-F ComfortXQ®

With high-sliding inner coating

- Time saved when pulling in or pushing cables and lines
- Also easy to pull in over long sections
- One-man installation
- Cost reduction thanks to shorter installation times



Classification code for electrical conduit	22322
Load force at 5 cm	320 N
Impact resistance at 100 mm	1 kg
Min./max. temperature conditions	-15 to 90 °C
Material	Polyolefin
Flame-retardant	Yes
Halogen-free	No
Silicone-free	Yes
Ultraviolet resistance	No

Colour	Outer diameter	Internal diameter	Design	Art. no.	P. Qty.
Black	16 mm	10.8 mm	Coated	0975 259 116	100
Black	20 mm	14.2 mm	Coated	0975 259 120	100
Black	25 mm	18.1 mm	Coated	0975 259 125	50
Black	32 mm	23.9 mm	Coated	0975 259 132	50
Black	40 mm	31.2 mm	Coated	0975 259 140	25
Black	50 mm	38.8 mm	Coated	0975 259 150	25
Black	63 mm	49.9 mm	Uncoated	0975 259 163	25
Green	20 mm	14.2 mm	Coated	0975 259 220	100
Green	25 mm	18.1 mm	Coated	0975 259 225	50
Blue	20 mm	14.2 mm	Coated	0975 259 320	100
Blue	25 mm	18.1 mm	Coated	0975 259 325	50
White	20 mm	14.2 mm	Coated	0975 259 420	100
White	25 mm	18.1 mm	Coated	0975 259 425	50

VDE 0605 and DIN EN 61386-22



Rigid electrical installation pipe WPKu-EM-F

With formed-on sleeve on one side

Classification code for electrical conduit	3321
Load force at 5 cm	750 N
Impact resistance at 100 mm	2 kg
Min./max. temperature conditions	-5 to 60 °C
Design	With formed-on sleeve on one side
Colour	Grey
Material	Polyvinyl chloride - PVC hard
Flame-retardant	Yes
Halogen-free	No



Outer diameter	Internal diameter	Length of rod	Art. no.	P. Qty.
16 mm	13.4 mm	3 m	0975 245 016	111
16 mm	13.4 mm	2 m	0975 246 016	74
20 mm	17.1 mm	3 m	0975 245 020	111
20 mm	17.1 mm	2 m	0975 246 020	74
25 mm	21.7 mm	3 m	0975 245 025	57
25 mm	21.7 mm	2 m	0975 246 025	38
32 mm	28.6 mm	3 m	0975 245 032	57
32 mm	28.6 mm	2 m	0975 246 032	38
40 mm	36 mm	3 m	0975 245 040	21
40 mm	36 mm	2 m	0975 246 040	14
50 mm	45.9 mm	3 m	0975 245 050	21
63 mm	58.8 mm	3 m	0975 245 063	21

VDE 0605 and DIN EN 61386-21



Rigid aluminium pipe Alu-Steck-WES

Very good corrosion resistance

- Low weight

Classification code for electrical conduit	4456
Load force at 5 cm	1250 N
Impact resistance at 300 mm	2 kg
Min./max. temperature conditions	-45 to 250 °C
Length of rod	3 m
Material	Aluminium
Surface	Plain
Flame-retardant	Yes
Halogen-free	Yes



Outer diameter	Internal diameter	Art. no.	P. Qty.
16 mm	13.5 mm	0975 266 016	60
20 mm	17.5 mm	0975 266 020	60
25 mm	22 mm	0975 266 025	60
32 mm	29 mm	0975 266 032	30
40 mm	37 mm	0975 266 040	30
50 mm	46.9 mm	0975 266 050	15
63 mm	60 mm	0975 266 063	15

VDE 0605 and DIN EN 61386-21



Rigid steel-armoured pipe, galvanised Stapa-Steck-WESV

Classification code for electrical conduit	5545
Load force at 5 cm	4000 N
Impact resistance at 300 mm	6.8 kg
Min./max. temperature conditions	-25 to 150 °C
Length of rod	3 m
Material	Steel
Surface	Sendzimir galvanized
Flame-retardant	Yes
Halogen-free	Yes



Outer diameter	Internal diameter	Art. no.	P. Qty.
16 mm	14 mm	0975 265 016	90
20 mm	18 mm	0975 265 020	60
25 mm	22.5 mm	0975 265 025	30
32 mm	29.5 mm	0975 265 032	30
40 mm	37.5 mm	0975 265 040	24
50 mm	47.5 mm	0975 265 050	15
63 mm	60 mm	0975 265 063	9

VDE 0605 and DIN EN 61386-21



Rigid electrical installation pipe W-IS-EL-F

With formed-on sleeve on one side

Classification code for electrical conduit	2221
Load force at 5 cm	320 N
Impact resistance at 100 mm	1 kg
Min./max. temperature conditions	-5 to 60 °C
Length of rod	3 m



Continuation **Rigid electrical installation pipe W-IS-EL-F**

Design	With formed-on sleeve on one side
Colour	Grey
Material	Polyvinyl chloride - PVC hard
Flame-retardant	Yes
Halogen-free	No

Outer diameter	Internal diameter	Art. no.	P. Qty.
16 mm	14.3 mm	0975 244 016	111
20 mm	18.3 mm	0975 244 020	111
25 mm	22.6 mm	0975 244 025	57

VDE 0605 and DIN EN 61386-21



Rigid electrical installation pipe WPKu-EM-F-H0

With formed-on sleeve on one side

Halogen-free

No toxic and corrosive gases are produced in the event of a fire



Classification code for electrical conduit	3342
Load force at 5 cm	750 N
Impact resistance at 100 mm	2 kg
Min./max. temperature conditions	-25 to 90 °C
Length of rod	3 m
Design	With formed-on sleeve on one side
Colour	Grey
Material	Special plastics
Flame-retardant	Yes
Halogen-free	Yes

Outer diameter	Internal diameter	Art. no.	P. Qty.
16 mm	13.4 mm	0975 247 016	111
20 mm	17.1 mm	0975 247 020	111
25 mm	21.7 mm	0975 247 025	57
32 mm	28.6 mm	0975 247 032	57
40 mm	36 mm	0975 247 040	21
50 mm	45.9 mm	0975 247 050	21
63 mm	58.8 mm	0975 247 063	21

VDE 0605 and DIN EN 61386-21



Rigid steel-armoured pipe, hot-dip galvanised Stapa-Steck-WESF

Classification code for electrical conduit	5557
Load force at 5 cm	4000 N
Impact resistance at 300 mm	6.8 kg
Min./max. temperature conditions	-45 to 400 °C
Length of rod	3 m
Material	Steel
Surface	Hot dip galvanized
Flame-retardant	Yes
Halogen-free	Yes



Outer diameter	Internal diameter	Art. no.	P. Qty.
20 mm	17.3 mm	0975 268 020	30
25 mm	22.2 mm	0975 268 025	30
32 mm	28.8 mm	0975 268 032	21
40 mm	36.8 mm	0975 268 040	15
50 mm	46.4 mm	0975 268 050	15
63 mm	59.2 mm	0975 268 063	9

VDE 0605 and DIN EN 61386-21



Rigid steel-armoured pipe hot-dipped galvanised Stapa-Gewinde-WESF

Classification code for electrical conduit	5557
Load force at 5 cm	4000 N
Impact resistance at 300 mm	6.8 kg
Min./max. temperature conditions	-45 to 400 °C
Length of rod	3 m
Material	Steel
Surface	Hot dip galvanized
Flame-retardant	Yes
Halogen-free	Yes



Outer diameter	Internal diameter	Art. no.	P. Qty.
20 mm	16.9 mm	0975 278 020	30
25 mm	21.8 mm	0975 278 025	30
32 mm	28.4 mm	0975 278 032	21
40 mm	36.4 mm	0975 278 040	15
50 mm	46.4 mm	0975 278 050	15
63 mm	58.8 mm	0975 278 063	9

VDE 0605 and DIN EN 61386-21



Rigid aluminium pipe Alu-Gewinde-WES

- Very good corrosion resistance
- Lightweight



Classification code for electrical conduit	5556
Load force at 5 cm	4000 N
Impact resistance at 300 mm	6.8 kg
Min./max. temperature conditions	-45 to 250 °C
Length of rod	3 m
Material	Aluminium
Surface	Plain
Flame-retardant	Yes
Halogen-free	Yes

Outer diameter	Internal diameter	Art. no.	P. Qty.
20 mm	17.5 mm	0975 276 020	60
25 mm	22 mm	0975 276 025	60
32 mm	29 mm	0975 276 032	30
40 mm	37 mm	0975 276 040	30
50 mm	46.8 mm	0975 276 050	15
63 mm	59.4 mm	0975 276 063	15

VDE 0605 and DIN EN 61386-21



Rigid steel-armoured pipe, galvanised Stapa-Gewinde-WESV

- Rust protection coating on inside



Classification code for electrical conduit	5557
Load force at 5 cm	4000 N
Impact resistance at 300 mm	6.8 kg
Min./max. temperature conditions	-45 to 400 °C
Length of rod	3 m
Material	Steel
Surface	Zinc plated
Flame-retardant	Yes
Halogen-free	Yes

Outer diameter	Internal diameter	Art. no.	P. Qty.
25 mm	22 mm	0975 275 025	30
32 mm	29 mm	0975 275 032	21
40 mm	37 mm	0975 275 040	15
50 mm	46.9 mm	0975 275 050	15

VDE 0605 and DIN EN 61386-21



Connecting sleeve for flexible plastic electrical installation pipes

Colour	Transparent
Material	LDPE - Low density polyethylene
Halogen-free	Yes



Suitable for pipe (EN)	Art. no.	P. Qty.
EN 16	0975 255 016	100
EN 20	0975 255 020	100
EN 25	0975 255 025	100
EN 32	0975 255 032	50
EN 40	0975 255 040	25
EN 50	0975 255 050	10

Threaded sleeve for steel-armoured pipe Stapa-Gewinde-WESF

For indoor and outdoor use

Classification code for electrical conduit	5557
Load force at 5 cm	4000 N
Impact resistance at 300 mm	6.8 kg
Min./max. temperature conditions	-45 to 400 °C
Material	Steel
Surface	Hot dip galvanized
Flame-retardant	Yes
Halogen-free	Yes



Suitable for pipe (EN)	Art. no.	P. Qty.
EN 20	0975 278 120	50
EN 25	0975 278 125	30
EN 32	0975 278 132	30
EN 40	0975 278 140	25
EN 50	0975 278 150	10
EN 63	0975 278 163	6

VDE 0605 and DIN EN 61386-21



Connecting sleeve for steel-armoured pipe Stapa-Steck-WESV

Classification code for electrical conduit	5557
Load force at 5 cm	4000 N
Impact resistance at 300 mm	6.8 kg
Min./max. temperature conditions	-45 to 400 °C
Material	Steel
Surface	Sendzimir galvanized
Flame-retardant	Yes
Halogen-free	Yes



Suitable for pipe (EN)	Art. no.	P. Qty.
EN 40	0975 265 540	14
EN 50	0975 265 550	5
EN 63	0975 265 563	3

VDE 0605 and DIN EN 61386-21

Quick-fit coupling

Tight connection of electrical installation pipes

No time-consuming thread cutting thus saving time and money

Classification code for electrical conduit	5545
Load force at 5 cm	4000 N
Impact resistance at 300 mm	6.8 kg
Min./max. temperature conditions	-25 to 150 °C
IP protection class	IP 67
Material	Brass
Surface	Nickel plated
Flame-retardant	Yes
Halogen-free	Yes



Suitable for pipe (EN)	Art. no.	P. Qty.
EN 16	0975 265 116	10
EN 20	0975 265 120	10
EN 25	0975 265 125	10
EN 32	0975 265 132	5
EN 40	0975 265 140	5
EN 50	0975 265 150	5

VDE 0605 and DIN EN 61386-21



Connecting sleeve for aluminium pipe Alu-Steck-WES

- Very good corrosion resistance
- Lightweight

Classification code for electrical conduit	4456
Load force at 5 cm	1250 N
Impact resistance at 300 mm	2 kg
Min./max. temperature conditions	-45 to 250 °C
Material	Aluminium
Surface	Plain
Flame-retardant	Yes
Halogen-free	Yes



Suitable for pipe (EN)	Art. no.	P. Qty.
EN 16	0975 266 116	50
EN 20	0975 266 120	50
EN 25	0975 266 125	50
EN 32	0975 266 132	50
EN 40	0975 266 140	25
EN 50	0975 266 150	25
EN 63	0975 266 163	15

VDE 0605 and DIN EN 61386-21



Threaded sleeve for aluminium pipe Alu-Gewinde-WES

- Very good corrosion resistance
- Lightweight

Classification code for electrical conduit	5556
Load force at 5 cm	4000 N
Impact resistance at 300 mm	6.8 kg
Min./max. temperature conditions	-45 to 250 °C
Material	Aluminium
Surface	Plain
Flame-retardant	Yes
Halogen-free	Yes



Suitable for pipe (EN)	Art. no.	P. Qty.
EN 20	0975 276 120	50
EN 25	0975 276 125	50
EN 32	0975 276 132	50
EN 40	0975 276 140	25
EN 50	0975 276 150	25

VDE 0605 and DIN EN 61386-21

Continuation **Threaded sleeve for aluminium pipe Alu-Gewinde-WES**



90° threaded elbow for aluminium pipe Alu-Gewinde-WES

- Excellent corrosion resistance
- Lightweight
- Thread on both sides and threaded sleeve screwed on one side



Classification code for electrical conduit	5556
Load force at 5 cm	4000 N
Impact resistance at 300 mm	6.8 kg
Min./max. temperature conditions	-45 to 250 °C
Material	Aluminium
Surface	Plain
Flame-retardant	Yes
Halogen-free	Yes

Suitable for pipe (EN)	Art. no.	P. Qty.
EN 20	0975 276 220	5
EN 25	0975 276 225	5
EN 32	0975 276 232	5
EN 40	0975 276 240	5
EN 50	0975 276 250	5
EN 63	0975 276 263	5

VDE 0605 and DIN EN 61386-21



Insertion sleeve for electrical conduit W-IS-EL-F, WPKu-EM-F and WPKu-EM-F-H0

Classification code for electrical conduit	3342
Load force at 5 cm	750 N
Impact resistance at 100 mm	2 kg
Min./max. temperature conditions	-25 to 90 °C
Colour	Grey
Material	Special plastics
Flame-retardant	Yes
Halogen-free	Yes



Suitable for pipe (EN)	Art. no.	P. Qty.
EN 16	0975 245 116	100
EN 20	0975 245 120	100
EN 25	0975 245 125	100
EN 32	0975 245 132	50
EN 40	0975 245 140	25
EN 50	0975 245 150	10
EN 63	0975 245 163	5

VDE 0605 and DIN EN 61386-21



90° insertion bend for electrical conduit WPKu-EM-F-H0

Classification code for electrical conduit	3342
Load force at 5 cm	750 N
Impact resistance at 100 mm	2 kg
Min./max. temperature conditions	-25 to 90 °C
Colour	Grey
Material	Special plastics
Flame-retardant	Yes
Halogen-free	Yes



Suitable for pipe (EN)	Art. no.	P. Qty.
EN 16	0975 247 216	25
EN 20	0975 247 220	25
EN 25	0975 247 225	25
EN 32	0975 247 232	25
EN 40	0975 247 240	25
EN 50	0975 247 250	10
EN 63	0975 247 263	5

VDE 0605 and DIN EN 61386-21



90° insertion bend for electrical conduit W-IS-EL-F and WPKu-EM-F

Classification code for electrical conduit	3321
Load force at 5 cm	750 N
Impact resistance at 100 mm	2 kg
Min./max. temperature conditions	-5 to 60 °C
Colour	Grey
Material	Polyvinyl chloride - PVC hard
Flame-retardant	Yes
Halogen-free	No



Suitable for pipe (EN)	Art. no.	P. Qty.
EN 16	0975 245 216	50
EN 20	0975 245 220	50
EN 25	0975 245 225	50
EN 32	0975 245 232	50
EN 40	0975 245 240	25
EN 50	0975 245 250	10
EN 63	0975 245 263	5

VDE 0605 and DIN EN 61386-21

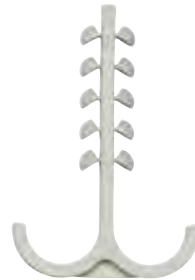


Double pipe clamp

Drill, insert and finished

- Suitable for concrete, solid sand/lime brick, lightweight concrete, solid clinker and natural stone
- High pull-out values (to 40 kg)

Min./max. grip range	4-12 mm
Drill hole diameter	6 mm
Max. loading weight	40 kg
Min./max. temperature resistance	-20 to 85 °C
Material	PP - Polypropylene
Halogen-free	Yes
Silicone-free	Yes
Colour	Light grey RAL 7035



Art. no. 0971 100 412

P. Qty.: 200

Bracket clamp

Drill, insert and finished

- Suitable for concrete, solid sand/lime brick, lightweight concrete, solid clinker and natural stone
- High pull-out values (to 40 kg)



Drill hole diameter	6 mm
Max. loading weight	40 kg
Min./max. temperature resistance	-20 to 85 °C
Material	PP - Polypropylene
Halogen-free	Yes
Silicone-free	Yes
Colour	Light grey RAL 7035

Min./max. grip range	Art. no.	P. Qty.
3-13 mm	0971 100 313	200
6-20 mm	0971 100 620	200
8-28 mm	0971 100 828	200/500
20-40 mm	0971 100 240	200

Cable holder

High-quality polyamide 6.6 (no polypropylene)

- Robust and durable cable holder
- Freely accessible fastening point



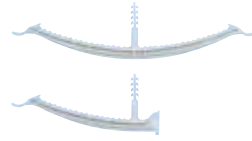
Cable type	NYM 3 x 1.5 mm ²
Min./max. temperature resistance	-30 to 80 °C
Flame-retardant	Yes
Halogen-free	Yes
Silicone-free	Yes

Number of cables	Width	Flame-re-tardant conditions	Colour	Material	Art. no.	P. Qty.
8 PCS	130 mm	at 700 °C	Light grey RAL 7035	PA - Polyamide	0971 602 100	50
8 PCS	130 mm	by glow-wire test at +960 °C, V0	Stone grey RAL 7030	PA 6 V-0 - Polyamide	0971 604 100	50
10 PCS	150 mm	at 700 °C	Light grey RAL 7035	PA - Polyamide	0971 602 140	50
10 PCS	150 mm	by glow-wire test at +960 °C, V0	Stone grey RAL 7030	PA 6 V-0 - Polyamide	0971 604 140	50
16 PCS	226 mm	at 700 °C	Light grey RAL 7035	PA - Polyamide	0971 602 200	50
16 PCS	226 mm	by glow-wire test at +960 °C, V0	Stone grey RAL 7030	PA 6 V-0 - Polyamide	0971 604 200	50

Cable holder insert type with moulded-on anchor

Drill, insert and finished

Drill hole diameter	6 mm
Cable type	NYM 3 x 1.5 mm ²
Min./max. temperature resistance	-20 to 85 °C
Flame-retardant	No
Colour	Light grey RAL 7035
Material	PP - Polypropylene
Halogen-free	Yes
Silicone-free	Yes



Number of cables	Width	Art. no.	P. Qty.
9 PCS	136 mm	0971 400 101	50
18 PCS	226 mm	0971 400 201	50

Cable clip with nail plug 6 x 50 mm

High-quality polyamide 6.6 (no polypropylene)

- Robust and durable cable holder
- Freely accessible fastening point

Cable type	NYM 3 x 1.5 mm ²
Min./max. temperature resistance	-30 to 80 °C
Flame-retardant	Yes
Flame-retardant conditions	at 700 °C
Colour	Light grey RAL 7035
Material	PA - Polyamide
Halogen-free	Yes
Silicone-free	Yes



Number of cables	Width	Art. no.	P. Qty.
8 PCS	130 mm	0971 603 100	50
10 PCS	150 mm	0971 603 140	50
16 PCS	226 mm	0971 603 200	50

Cable tidy holder All-rounder

Has high mechanical strength and thus offers durability and safety in case of fire.

- 2 - 3 multiple cable holders (depending on load) mounted below one another
- 2 multiple cable holders can be combined back-to-back using a coupling piece
- Can be mounted with optional quick-mount clip

Cable type	NYM 3 x 1.5 mm ²
Diameter of hole	6 mm
Min./max. temperature resistance	-30 to 80 °C



Flame-retardant	Yes
Halogen-free	Yes
Silicone-free	Yes

Number of cables	Height	Flame-retardant conditions	Colour	Material	Art. no.	P. Qty.
20 PCS	93 mm	at 700°C	Light grey RAL 7035	PA - Polyamide	0971 651 020	125
20 PCS	93 mm	by glow-wire test at +960°C, V0	Stone grey RAL 7030	PA 6 V-0 - Polyamide	0971 651 120	125
40 PCS	128 mm	at 700°C	Light grey RAL 7035	PA - Polyamide	0971 651 040	75
40 PCS	128 mm	by glow-wire test at +960°C, V0	Stone grey RAL 7030	PA 6 V-0 - Polyamide	0971 651 140	75
50 PCS	138.5 mm	at 700°C	Light grey RAL 7035	PA - Polyamide	0971 651 050	50
50 PCS	138.5 mm	by glow-wire test at +960°C, V0	Stone grey RAL 7030	PA 6 V-0 - Polyamide	0971 651 150	50

With application approval ETA-18/0957 in combination with nails according to ETA-12/0452

ELMO® cable tidy holder

Freely-accessible fastening point

No additional setting tools required

Automatic closure mechanism

No manual opening or closing

Extremely flat design

Can be also used in confined spaces



Cable type	NYM 3 x 1.5 mm ²
Diameter of hole	6 mm
Min./max. temperature resistance	-30 to 80 °C
Flame-retardant	Yes
Flame-retardant conditions	at 700°C
Colour	Light grey RAL 7035
Material	PA - Polyamide
Halogen-free	Yes
Silicone-free	Yes

Number of cables	Design	Height	Art. no.	P. Qty.
10 PCS	Without screw nail anchors	45 mm	0971 660 001	100
10 PCS	6 x 50 mm screw nail anchors	45 mm	0971 660 101	50
20 PCS	Without screw nail anchors	58 mm	0971 660 002	50
20 PCS	6 x 50 mm screw nail anchors	58 mm	0971 660 102	50
40 PCS	Without screw nail anchors	58 mm	0971 660 005	50
40 PCS	6 x 50 mm screw nail anchors	58 mm	0971 660 105	50

Multiple cable holder, sheet steel

- No fire load
- High mechanical strength

Cable type	NYM 3 x 1.5 mm ²
Flame-retardant	Yes
Material	Sheet steel
Surface	Zinc plated
Halogen-free	Yes
Silicone-free	Yes



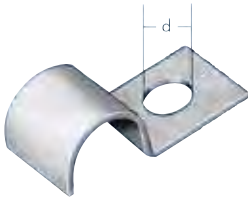
Number of cables	Height	Art. no.	P. Qty.
15 PCS	66 mm	0971 690 015	50
30 PCS	92 mm	0971 690 030	25

Function integrity class E30 and E90. Cable-specific routing system according to DIN 4102 Part 12
Test certificate number: P-MPA-E-15-012



Cable clamp in accordance with DIN 72571

Design	Lightweight series
Material	Steel
Surface	Zinc plated

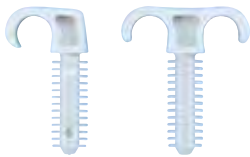


Grip range (Ø)	Width (b)	Material thickness (s)	Diameter of hole (d)	Art. no.	P. Qty.
4 mm	10 mm	1 mm	4.8 mm	0592 4	100
5 mm	10 mm	1 mm	4.8 mm	0592 5	100
6 mm	10 mm	1 mm	4.8 mm	0592 6	100/300
7 mm	10 mm	1 mm	4.8 mm	0592 7	100
8 mm	10 mm	1 mm	4.8 mm	0592 8	100/300
9 mm	10 mm	1 mm	4.8 mm	0592 9	100
10 mm	10 mm	1 mm	4.8 mm	0592 10	100
11 mm	10 mm	1 mm	4.8 mm	0592 11	100
12 mm	12 mm	1.5 mm	5.8 mm	0592 12	100
15 mm	12 mm	1.5 mm	5.8 mm	0592 15	100
16 mm	12 mm	1.5 mm	5.8 mm	0592 16	100
18 mm	12 mm	1.5 mm	7 mm	0592 18	100
20 mm	12 mm	1.5 mm	7 mm	0592 20	100
22 mm	12 mm	1.5 mm	7 mm	0592 22	100
24 mm	12 mm	1.5 mm	7 mm	0592 24	100

Cable clamp insert clip

High pull-out forces

Min./max. grip range	7-12 mm
Length (l)	32 mm
Diameter of hole (d)	6 mm
Min./max. temperature resistance	-30 to 80 °C
Colour	Light grey RAL 7035
Material	PA - Polyamide
Halogen-free	Yes
Silicone-free	Yes



Design	Width (b)	Art. no.	P. Qty.
One side	17.5 mm	0593 503	200
Both sides	27 mm	0593 504	100

Cable Clamp Type AC

For laying electrical installation pipes (caution: not part of the expert’s report) and fire protection cables

Cable clamp, hot-dip galvanised, with full-length steel pressure tray, for mounting on profile rails with a slot width of 18/22 mm.

Material	Steel
Surface	Zinc plated



Min./max. grip range	Art. no.	P. Qty.
8-12 mm	0971 008 12	100
12-16 mm	0971 012 16	100
16-20 mm	0971 016 20	100
20-24 mm	0971 020 24	100
24-28 mm	0971 024 28	100
28-32 mm	0971 028 32	100
32-36 mm	0971 032 36	100
36-40 mm	0971 036 40	100
40-44 mm	0971 040 44	100
44-48 mm	0971 044 48	100
48-52 mm	0971 048 52	50
52-56 mm	0971 052 56	50
56-60 mm	0971 056 60	50

Function integrity class E30 and E90. Standard installation system as per DIN 4102 Part 12.



Cable clamp Type H

Cable clamp, hot-dip galvanised, with full-length steel pressure tray, for mounting on profile rails with a slot width of 16 mm

With full-length steel pressure tray

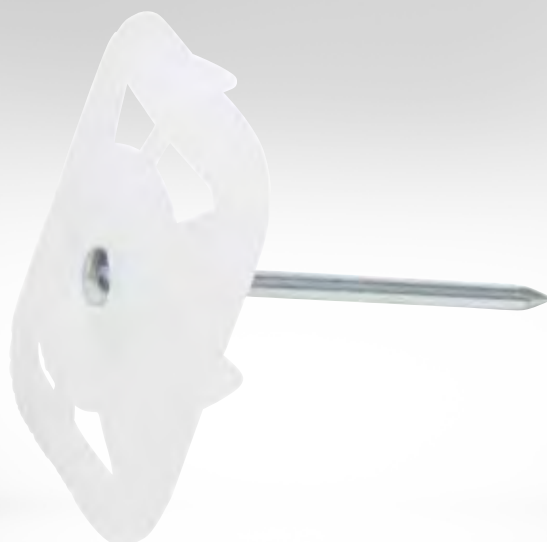
Material	Steel
Surface	Zinc plated



Min./max. grip range	Art. no.	P. Qty.
8-12 mm	0971 008	100
12-16 mm	0971 012	100
16-20 mm	0971 016	100
20-24 mm	0971 020	100
24-28 mm	0971 024	100
28-32 mm	0971 028	100
32-36 mm	0971 032	100
36-40 mm	0971 036	100
40-44 mm	0971 040	100
44-48 mm	0971 044	100
48-52 mm	0971 048	50
52-56 mm	0971 052	50
56-60 mm	0971 056	50

Function integrity class E30 and E90. Standard installation system as per DIN 4102 Part 12.





Nail plate

Rectangular design 34 x 27 mm for easier storage and reduced costs

- Extremely flat design makes plastering over easy
- Plaster openings and roughened surfaces ensure perfect plaster hold

Length of plate x width of plate	34 x 27 mm
Min./max. temperature resistance	-30 to 80 °C
Material of the washer	PE - Polyethylene
Halogen-free	Yes
Silicone-free	Yes

Diameter of nail x length of nail	Art. no.	P. Qty.
2 x 40 mm	0478 25 002	200
2 x 50 mm	0478 25 003	150
2 x 60 mm	0478 25 004	150
3.3 x 40 mm	0478 25 010	150
3.3 x 50 mm	0478 25 006	100
3.3 x 60 mm	0478 25 007	100
3.3 x 70 mm	0478 25 009	100
3.3 x 85 mm	0478 25 008	100

Nail plate box

Rectangular design 34 x 27 mm for simplified storage and reduced costs.

- For easy cable and pipe fixing in masonry channels, mounting paths and on walls and ceilings.
- Extremely flat design makes plastering over easy
- Retaining collars prevent cables from slipping out
- Plaster openings and roughened surfaces ensure perfect plaster hold



Length of plate x width of plate	34 x 27 mm
Min./max. temperature resistance	-30 to 80 °C
Material of the washer	PE - Polyethylene
Halogen-free	Yes
Silicone-free	Yes

Diameter of nail x length of nail	Number of pieces	Art. no.	P. Qty.
2 x 40 mm	2250 PCS	0478 25 102	1
3.3 x 50 mm	1750 PCS	0478 25 106	1

Nail clamp

Nail is guided - high stability during assembly (knocking in nail).

- Wide base
- Knock-in stop



Diameter of nail	2 mm
Colour	Light grey (bright grey)
Min./max. temperature resistance	-40 to 100 °C
Material of the clamp	Polyethylene highly impact-resistant
Material of the nail	Steel, specially hardened
Surface	Zinc plated
Halogen-free	Yes
Silicone-free	Yes

Grip range	Length of nail	Art. no.	P. Qty.
6 mm	25 mm	0593 16 25	100
6 mm	35 mm	0593 16 35	100
9 mm	25 mm	0593 19 25	100
9 mm	35 mm	0593 19 35	100
9 mm	45 mm	0593 19 45	100

Multi-range clamp

With knock-in stop

- High stability during assembly (knocking in nail).
- Wide base

Diameter of nail	2 mm
Colour	Light grey (bright grey)
Min./max. temperature resistance	-40 to 100 °C
Material of the clamp	Polyethylene highly impact-resistant
Material of the nail	Steel, specially hardened
Surface	Zinc plated
Halogen-free	Yes
Silicone-free	Yes



Min./max. grip range	Length of nail	Art. no.	P. Qty.
4-7 mm	25 mm	0593 75 7	100
7-12 mm	25 mm	0593 77 10	100
7-12 mm	35 mm	0593 77 101	100
7-12 mm	35 mm	0593 770 101	2500
7-12 mm	45 mm	0593 77 102	100
10-14 mm	35 mm	0593 710 14	100
14-20 mm	35 mm	0593 714 20	50

Multi-range clamp

In practical box with li

- Laying of individual cables: surface-mounted or in cable slots
- Nail is guided
 - High stability during assembly (knocking in nail).
- Claws
 - Slip protection for cable (axial fixing to utilise the full clamping range)

Min./max. grip range	7-12 mm
Diameter of nail	2 mm
Length of nail	35 mm
Number of pieces	5000 PCS
Colour	Light grey (bright grey)
Min./max. temperature resistance	-40 to 100 °C
Material of the clamp	Polyethylene
Material of the nail	Steel, specially hardened
Surface	Zinc plated
Halogen-free	Yes
Silicone-free	Yes



Art. no. 0593 977 2

P. Qty.: 1

Profile rail, perforated, for cable clamp type AC

For laying cable clamps type AC

Profile rail 40x22 mm, perforated

Width x height	40 x 22 mm
Thickness	1.5 mm
Slot width	18 mm
Elongated hole width	11 mm
Elongated hole length	30 mm
Conditions for max. load force	in concrete B 25 for 250-mm spacing
Max. hook-point load	5 kN
Hook-point load conditions	at 250-mm spacing for fastening clearance of 250 mm
Profile cross section	1.55 cm ²
Transverse moment of inertia	1.08 cm ⁴
Longitudinal moment of inertia	3.39 cm ⁴
Transverse section modulus	0.89 cm ³
Longitudinal section modulus	1.7 cm ³
Transverse radius of inertia	0.83 cm
Longitudinal radius of inertia	1.48 cm
EN standard	60715
Material	Steel
Surface	Sendzimir galvanized



Art. no. 0971 060 200

P. Qty.: 8

Function integrity class E30 and E90. Standard installation system as per DIN 4102 Part 12.

Profile rail, perforated, for cable clip type H

For laying cable clamps type H

Profile rail 30x15 mm, perforated

Width x height	30 x 15 mm
Thickness	1.5 mm
Slot width	16 mm
Elongated hole width	7 mm
Elongated hole length	35 mm
Conditions for max. load force	in concrete B 25 for 250-mm spacing
Max. hook-point load	2 kN
Hook-point load conditions	at 250-mm spacing for fastening clearance of 250 mm
Profile cross section	1.02 cm ²
Transverse moment of inertia	0.32 cm ⁴
Longitudinal moment of inertia	1.36 cm ⁴
Transverse section modulus	0.35 cm ³
Longitudinal section modulus	0.9 cm ³
Transverse radius of inertia	0.56 cm
Longitudinal radius of inertia	1.15 cm
EN standard	60715



Material	Steel
Surface	Sendzimir galvanized

Art. no. 0971 060 100

P. Qty.: 8

Function integrity class E30 and E90. Standard installation system as per DIN 4102 Part 12.

Quick-mounting clip for all-rounder cable tidy holder

Optimum access saves time and money

Min./max. temperature resistance	-30 to 80 °C
Flame-retardant	Yes
Halogen-free	Yes
Silicone-free	Yes



Flame-retardant conditions	Colour	Material	Art. no.	P. Qty.
at 700 °C	Light grey RAL 7035	PA - Polyamide	0971 651 080	50
by glow-wire test at +960 °C, V0	Stone grey RAL 7030	PA 6 V-0 - Polyamide	0971 651 180	50

Quick-mounting clip for all-rounder cable tidy holder

In conjunction with DIGA CS-1 and CS-2 Power

Min./max. temperature resistance	-30 to 80 °C
Flame-retardant	Yes
Flame-retardant conditions	at 700 °C
Colour	Light grey RAL 7035
Material	PA - Polyamide
Halogen-free	Yes
Silicone-free	Yes



Art. no. 0971 651 081

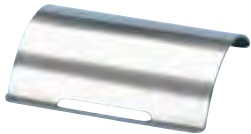
P. Qty.: 100

ETA-18/0957 in conjunction with ETA-12/0452

Long tray for cable clamps type H and AC

For improved cable support

Material	Steel
Surface	Zinc plated



Continuation Long tray for cable clamps type H and AC

Min./max. grip range	Art. no.	P. Qty.
8-12 mm	0971 008 123	100
12-16 mm	0971 012 163	100
16-20 mm	0971 016 203	100
20-24 mm	0971 020 243	100
24-28 mm	0971 024 283	100
28-32 mm	0971 028 323	100
32-36 mm	0971 032 363	100
36-40 mm	0971 036 403	100
40-44 mm	0971 040 443	100
44-48 mm	0971 044 483	100
48-52 mm	0971 048 523	100
52-56 mm	0971 052 563	100
56-60 mm	0971 056 603	100

Function integrity class E30 and E90. Standard installation system as per DIN 4102 Part 12.



Counter tray for cable clamps type H and AC

For improved cable support

Material	PE - Polyethylene
Halogen-free	Yes
Silicone-free	Yes



Min./max. grip range	Art. no.	P. Qty.
8-12 mm	0971 010 121	100
12-16 mm	0971 014 161	100
16-20 mm	0971 018 201	100
20-24 mm	0971 022 241	100
24-28 mm	0971 026 281	100
28-32 mm	0971 030 321	100
32-36 mm	0971 034 361	100
36-40 mm	0971 038 401	100
40-48 mm	0971 044 481	100
48-56 mm	0971 052 561	50
56-60 mm	0971 060 641	50

Cable Unwinder KAW 1

- Ball-bearing-mounted wheels, use spring fastener to adjust
- Simple rolling up and positioning of the cable drum thanks to angled roll-up ramp
- Non-slip contact surface

Type description	KAW 1
Length	530 mm
Width	550 mm



Height	100 mm
Load capacity	120 kg
Weight	9 kg
Surface	Powder-coated
Colour	Traffic red RAL 3020

Art. no. 0975 810 1

P. Qty.: 1

Unwinder KAW 2

Base frame for spindle 1 (cable coils and flexible electrical conduits) or spindle 2 (cable drums)

- Ball-bearing-mounted, smooth-running rotary disc
- Anti-slip four-foot support



Length	560 mm
Width	560 mm
Height	80 mm
Load capacity	50 kg
Weight	7 kg
Surface	Powder-coated
Colour	Black, Traffic red RAL 3020

Art. no. 0975 810 2

P. Qty.: 1

ELMO® cable unwinder, KAW

The light version in aluminium

- Long run-out, roll-up ramps
- Lateral guide
- Optimum adjustment to respective cable drum size
- Non-slip contact surface



Min./max. diameter	200-700 mm
Length	700 mm
Height	100 mm
Material	Aluminium
Colour	Aluminium coloured

Type description	Width	Load capacity	Weight	Art. no.	P. Qty.
KAW 3	515 mm	200 kg	8.6 kg	0975 811 001	1
KAW 4	670 mm	250 kg	10.3 kg	0975 811 002	1

Cable unwinder XB300

Particularly suitable for damaged cable drums.

Load-bearing capacity up to 300 kg

- The compact cable dispenser with a light and flat design
- 6 rubberised feet for a secure, non-slip footing
- Removable central mandrel for the various hole sizes of a cable drum



Type description	XB300
Length	300 mm
Width	300 mm
Height	105 mm
Load capacity	300 kg
Weight	1300 g
Material	Plastic

Art. no. 0975 811 300

P. Qty.: 1

Cable unwinder XB500

Particularly suitable for damaged cable drums.

Load-bearing capacity up to 800 kg

- Compact cable dispenser with a light and flat design
- Removable central mandrel for the various hole sizes of a cable drum
- For small and medium-sized cable drums, cable rings, flexible electrical installation pipes, rope drums, etc.



Type description	XB500
Length	500 mm
Width	500 mm
Height	133 mm
Load capacity	800 kg
Weight	6350 g
Material	Plastic

Art. no. 0975 811 500

P. Qty.: 1

Unwinding rails WS900

High-quality, maintenance-free, heavy-duty rollers with ball bearings

- Sturdy stainless steel aluminium construction
- With a winding brake for changing the cable drum quickly and easily
- For safe unwinding of heavy cable drums from Ø 450 mm to Ø 2000 mm



Type description	WS900
Length	900 mm
Width	152 mm
Height	100 mm
Load capacity	850 kg
Weight	11400 g
Material	Stainless steel A2, 1.4301/aluminium

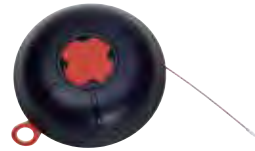
Art. no. 0975 811 900

P. Qty.: 2

Cable pulling system CPS 2

Time and cost savings thanks to simple and quick retraction and extension of the tape.

- Fibreglass rod Ø 3 mm in plastic housing
- Optimum user comfort thanks to unique design (practical strap)



Diameter	3 mm
Tensile load	120 kg
Connection thread	M6
Material	Fibre glass
Colour	Red
Material of the housing	Plastic

Length	Art. no.	P. Qty.
20 m	0975 852 020	1
30 m	0975 852 030	1



Cable pulling system CPS 3

Time and cost savings thanks to Powerglider

Fibreglass rod Ø 3 mm in plastic housing

Diameter	3 mm
Tensile load	120 kg
Connection thread	M6
Material	Fibre glass
Colour	Yellow
Material of the housing	Plastic

Length	Art. no.	P. Qty.
20 m	0975 853 020	1
30 m	0975 853 030	1
50 m	0975 853 050	1

Cable pulling system CPS 4.5

Time and cost savings thanks to Powerglider

- Quick run with rollers
- Automatic run-out brake
- Reel with side locking brake

Diameter	4.5 mm
Suitable for pipe diameter	30 - 80 mm
Tensile load	220 kg
Connection thread	M6
Material	Fibre glass
Colour	Yellow
Material of the housing	Steel
Surface of the housing	Zinc plated



Length	Art. no.	P. Qty.
50 m	0975 855 050	1
60 m	0975 855 060	1
80 m	0975 855 080	1

Cable pulling system CPS 6.0

Time and cost savings thanks to Powerglider

Dual run-out system

- Fast running with bearing-mounted runners
- Automatic run-out brake

Reel with side locking brake

Diameter	6 mm
Suitable for pipe diameter	40 - 100 mm
Tensile load	320 kg
Connection thread	M6
Material	Fibre glass
Colour	Yellow
Material of the housing	Steel
Surface of the housing	Zinc plated



Length	Art. no.	P. Qty.
50 m	0975 856 050	1
60 m	0975 856 060	1
80 m	0975 856 080	1

Guide head

For CPS cable feed systems (apart from CPS 1)

Connection thread	M6
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Diameter (Ø)	Art. no.	P. Qty.
7 mm	0975 854 007	3
10 mm	0975 854 010	3
13 mm	0975 854 013	3

Cable grip with swivel

For cable feed coils with Powerglider

Tensile load	200 kg
Material of the wire	Stainless steel



Min./max. diameter	Art. no.	P. Qty.
4-6 mm	0975 850 150	1
6-9 mm	0975 850 151	1
9-15 mm	0975 850 152	1

Fibreglass rod

For CPS cable pulling system

Connection thread	M6
Material	Fibre glass



Length	Suitable for	Diameter (Ø)	Tensile load	Colour	Art. no.	P. Qty.
20 m	Cable feed system CPS 2	3 mm	120 kg	Red	0975 852 120	1
30 m	Cable feed system CPS 2	3 mm	120 kg	Red	0975 852 130	1
20 m	Cable feed system CPS 3	3 mm	120 kg	Yellow	0975 853 120	1
30 m	Cable feed system CPS 3	3 mm	120 kg	Yellow	0975 853 130	1
50 m	Cable feed system CPS 3	3 mm	120 kg	Yellow	0975 853 150	1
50 m	Cable retraction device CPS 4.5	4.5 mm	220 kg	Yellow	0975 855 150	1
60 m	Cable retraction device CPS 4.5	4.5 mm	220 kg	Yellow	0975 855 160	1
80 m	Cable retraction device CPS 4.5	4.5 mm	220 kg	Yellow	0975 855 180	1

Length	Suitable for	Diameter (Ø)	Tensile load	Colour	Art. no.	P. Qty.
50 m	Cable retraction device CPS 6.0	6 mm	320 kg	Yellow	0975 856 150	1
60 m	Cable retraction device CPS 6.0	6 mm	320 kg	Yellow	0975 856 160	1
80 m	Cable retraction device CPS 6.0	6 mm	320 kg	Yellow	0975 856 180	1

Repair set

For cable pulling system CPS 6.0

Includes:

- 2 x starting sleeve M6
- 1 x connection sleeve

Connection thread	M6
Material	Stainless steel
Included in delivery (Lieferumfang)	2 x starting sleeves, 1 x connection sleeve

Art. no. 0975 856 200

P. Qty.: 1



Cable grip with swivel

For CPS cable feed devices

Tensile load	150 kg
Connection thread	M6
Material of the wire	Stainless steel



Min./max. diameter	Art. no.	P. Qty.
4-6 mm	0975 850 160	1
6-9 mm	0975 850 161	1
9-13 mm	0975 850 162	1

Cable grip with loop and swivel

For CPS cable feed devices

Tensile load	180 kg
Connection thread	M6
Material of the wire	Stainless steel



Min./max. diameter	Art. no.	P. Qty.
9-15 mm	0975 850 172	1
15-19 mm	0975 850 173	1
19-25 mm	0975 850 174	1
25-31 mm	0975 850 175	1

Cable pulling loop with protective cap

Possible to pull in cables with plug without damage

- Flexible loop made of stainless steel with Ø 1.5 mm
- Easy to attach the cable to the loop
- With integrated swivel



Suitable for pipe (EN)	EN 40, EN 32, EN 25, EN 20
Tensile load	120 kg
Material of the wire	Stainless steel

Connection thread	Design	Art. no.	P. Qty.
	With hook	0975 850 180	1
M6		0975 850 181	1

Polyester coils, 5.3 mm, wound

3-way twisted with Powerglider

With two-sided Powerglider for the narrowest of radii for laying cables

- Masters radii and narrow areas that conventional pulling coils cannot.
- No change of head required
- Large metal eyelet for simple cable holding



Polyester coil

- No breaking or tearing of the coil – no time-consuming repairs required
- 50% less friction than with conventional cable pulling coils

Diameter (Ø)	5.3 mm
Tensile load	300 kg
Material	PES - Polyester
Colour	Black

Length	Design	Art. no.	P. Qty.
20 m	With dispenser	0975 850 420	1
20 m	Without dispenser box	0975 850 520	1
30 m	With dispenser	0975 850 430	1
30 m	Without dispenser box	0975 850 530	1
40 m	Without dispenser box	0975 850 540	1

Polyester coil, 4.5 mm, welded

In practical dispenser

- Coil does not break or tear – no time-consuming repairs necessary
- 50% less friction than conventional cable feed coils
- Considerably easier to use than fibre glass or plastic coils
- Greater pulling forces than fibre glass or plastic coils



Design	With dispenser
Diameter (Ø)	4.5 mm

Tensile load	250 kg
Thread diameter	6 mm
Material	PES - Polyester
Colour	Traffic black RAL 9017

Length	Art. no.	P. Qty.
20 m	0975 850 620	1
30 m	0975 850 630	1

Powerglider with special eye head

With integrated compensation of twist

- Cable organiser of max. 7 x 2.5 mm²
- Allows you to manage very tight radii
- Maximum resistance to tearing
- No change of head required



Connection thread	M6
Length	120 mm

Art. no. 0975 813 120

P. Qty.: 1

Push rod professional set

Basal technology enables extreme bending radii, a high degree of shape stability and is virtually unbreakable

Stainless steel connecting elements

No abutting edges or thread crossovers

19-piece set, in a practical storage bag

- 2 x yellow push rod Ø 4.6 mm 1,000 mm M6
- 3 x black push rod Ø 5.6 mm 1,000 mm M6
- 5 x red push rod Ø 7.6 mm 1,000 mm M6
- 1 x sliding hook with tip function M6
- 1 x LED light M6 (1 x Micro / AAA / LR03 – not included in scope of delivery)
- 1 x Powerglider M6
- 1 x magnet M6
- 1 x ball chain 0.5 m M6
- 1 x eyelet with ring M6
- 1 x catch hook M6
- 1 x connecting thread M6
- 1 x storage bag



Number of pieces in assortment/set	19 PCS
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Art. no. 0975 813 100

P. Qty.: 1

Continuation **Push rod professional set**

Contents for art. no. 0975 813 100		
Designation	Art. no.	Quantity
Push rod Diameter 4.6 mm		2
Push rod Diameter 5.6 mm		3
Push rod Diameter 7.6 mm		5
Accessory set for push rods	0975 813 110	1
Powerglider with special eye head	0975 813 120	1
Gliding hook with tilt function for push rods	0975 813 130	1
LED light for push rods	0975 813 140	1

Wall duct BR 80

80-mm cover inlay width (no device panels required) and perforated base

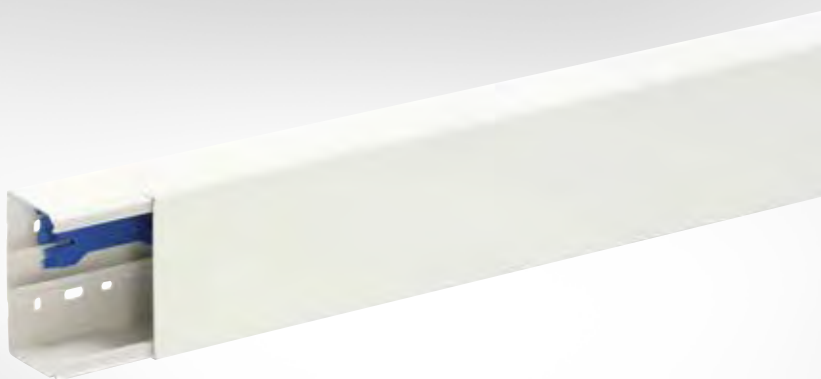
- Visible surfaces covered with protective film for optimum protection against dirt and scratches
- Design: 2 DIN mounting rails 35 mm for mounting device boxes and separating rails



Height	62 mm
Lid width	80 mm
Colour	Pure white RAL 9010
Length of duct	2 m
Material	Polyvinyl chloride - PVC hard
Flammability	Flame-retardant, self-extinguishing

Type description	Width	Art. no.	P. Qty.
62 x 110/80	110 mm	0973 560 110	8
62 x 130/80	130 mm	0973 560 130	8
62 x 170/80	170 mm	0973 560 170	8





Window sill duct, FB

Fully overlapping upper cover (lid) and base holes

- Design: 2 DIN mounting rails 35 mm for mounting device boxes and separating rails
- Including 4 retaining clamps (per 2 m duct)
- Double-row base holes

Height	62 mm
Length of duct	2 m
Material	PVC - Polyvinyl chloride
Flammability	Flame-retardant, self-extinguishing

Type description	Width	Colour	Art. no.	P. Qty.
60 x 110	110 mm	Light grey RAL 7035	0973 660 111	8
60 x 110	110 mm	Pure white RAL 9010	0973 660 110	8
60 x 130	130 mm	Light grey RAL 7035	0973 660 131	10
60 x 130	130 mm	Pure white RAL 9010	0973 660 130	10
60 x 150	150 mm	Light grey RAL 7035	0973 660 151	8
60 x 150	150 mm	Pure white RAL 9010	0973 660 150	8
60 x 200	190 mm	Light grey RAL 7035	0973 660 201	8
60 x 200	190 mm	Pure white RAL 9010	0973 660 200	8

Line routing duct, LFK

Full upper part (lid) and perforated base

- From LFK 40 x 60 including 4 retaining clamps (per 2 m duct)
- Base holes single row up to LFK 40 x 40, double row from LFK 40 x 60
- From LFK 60 x 60 with a continuous mounting rail for mounting separating rails



Length of duct	2 m
Material	PVC - Polyvinyl chloride
Flammability	Flame-retardant, self-extinguishing

Type description	Height	Width	Colour	Art. no.	P. Qty.
25 x 25	25 mm	25 mm	Light grey RAL 7035	0973 625 251	72
25 x 25	25 mm	25 mm	Pure white RAL 9010	0973 625 25	72
25 x 40	27 mm	40 mm	Light grey RAL 7035	0973 625 401	60
25 x 40	27 mm	40 mm	Pure white RAL 9010	0973 625 40	60
30 x 30	30 mm	30.3 mm	Light grey RAL 7035	0973 630 301	70
30 x 30	30 mm	30.3 mm	Pure white RAL 9010	0973 630 30	70
40 x 40	39 mm	40 mm	Light grey RAL 7035	0973 640 401	36
40 x 40	39 mm	40 mm	Pure white RAL 9010	0973 640 40	36
40 x 60	40 mm	57 mm	Light grey RAL 7035	0973 640 601	36
40 x 60	40 mm	57 mm	Pure white RAL 9010	0973 640 60	36
60 x 60	60 mm	57 mm	Light grey RAL 7035	0973 660 601	24
60 x 60	60 mm	57 mm	Pure white RAL 9010	0973 660 60	24
60 x 90	60 mm	90 mm	Light grey RAL 7035	0973 660 901	16
60 x 90	60 mm	90 mm	Pure white RAL 9010	0973 660 90	16



Line routing duct Mini-Clip

With double-sided adhesive tape and film hinge cover

- For unobtrusive installation of individual cables (e.g. aerial lines, bell lines, telephone cables)

Type description	7 x 12
Height	7 mm
Width	12 mm
Colour	Pure white RAL 9010
Length of duct	2 m



Material	Polyvinyl chloride - PVC hard
Flammability	Flame-retardant, self-extinguishing

Art. no. 0973 607 12

P. Qty.: 50



Line routing duct Mini

With single-row base holes and cover

- For unobtrusive installation of cables (e.g. aerial lines, bell lines, telephone cables, NYM cable)



Length of duct	2 m
Material	Polyvinyl chloride - PVC hard
Flammability	Flame-retardant, self-extinguishing

Type description	Height	Width	Colour	Art. no.	P. Qty.
15 x 15	14.5 mm	15 mm	Light grey RAL 7035	0973 615 151	200
15 x 15	14.5 mm	15 mm	Pure white RAL 9010	0973 615 15	200
15 x 30	16 mm	30 mm	Light grey RAL 7035	0973 615 301	72
15 x 30	16 mm	30 mm	Pure white RAL 9010	0973 615 30	72

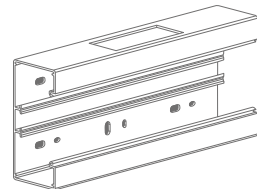


T-piece for BR 80 wall duct

For BR 80 wall duct

- Moulded parts save valuable working time

Lid width	80 mm
Colour	Pure white RAL 9010
Material	Polyvinyl chloride - PVC hard
Flammability	Flame-retardant, self-extinguishing



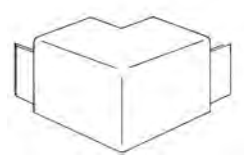
Suitable for duct type	Art. no.	P. Qty.
62 x 110 mm	0973 560 117	2
62 x 130 mm	0973 560 137	2
62 x 170 mm	0973 560 177	2



Outer corner for FB window sill duct

For FB windowsill duct

- For an attractive appearance – cutting edges are covered
- Moulded parts save valuable working time



Material	PVC - Polyvinyl chloride
Flammability	Flame-retardant, self-extinguishing

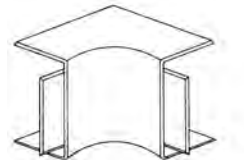
Suitable for duct type	Colour	Art. no.	P. Qty.
60 x 110 mm	Light grey RAL 7035	0973 660 113	4
60 x 110 mm	Pure white RAL 9010	0973 660 112	4
60 x 130 mm	Light grey RAL 7035	0973 660 133	4
60 x 130 mm	Pure white RAL 9010	0973 660 132	4
60 x 150 mm	Light grey RAL 7035	0973 660 153	4
60 x 150 mm	Pure white RAL 9010	0973 660 152	4
60 x 200 mm	Light grey RAL 7035	0973 660 203	4
60 x 200 mm	Pure white RAL 9010	0973 660 202	4



Inner corner for FB window sill duct

For FB windowsill duct

- For an attractive appearance – cutting edges are covered
- Moulded parts save valuable working time



Material	PVC - Polyvinyl chloride
Flammability	Flame-retardant, self-extinguishing

Suitable for duct type	Colour	Art. no.	P. Qty.
60 x 110 mm	Light grey RAL 7035	0973 660 115	4
60 x 110 mm	Pure white RAL 9010	0973 660 114	4
60 x 130 mm	Light grey RAL 7035	0973 660 135	4
60 x 130 mm	Pure white RAL 9010	0973 660 134	4
60 x 150 mm	Light grey RAL 7035	0973 660 155	4
60 x 150 mm	Pure white RAL 9010	0973 660 154	4
60 x 200 mm	Light grey RAL 7035	0973 660 205	4
60 x 200 mm	Pure white RAL 9010	0973 660 204	4

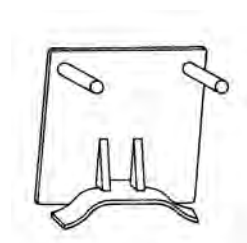


End piece for FB window sill duct

For FB windowsill duct

- For an attractive appearance – cutting edges are covered
- Moulded parts save valuable working time

Material	PVC - Polyvinyl chloride
Flammability	Flame-retardant, self-extinguishing



Suitable for duct type	Colour	Art. no.	P. Qty.
60 x 110 mm	Light grey RAL 7035	0973 660 119	10
60 x 110 mm	Pure white RAL 9010	0973 660 118	10
60 x 130 mm	Light grey RAL 7035	0973 660 139	10
60 x 130 mm	Pure white RAL 9010	0973 660 138	10
60 x 150 mm	Light grey RAL 7035	0973 660 159	10
60 x 150 mm	Pure white RAL 9010	0973 660 158	10
60 x 200 mm	Light grey RAL 7035	0973 660 209	10
60 x 200 mm	Pure white RAL 9010	0973 660 208	10



Device mounting box

For BR 80 wall duct and FB window sill duct

Height	50 mm
Colour	White



Design	Art. no.	P. Qty.
1-fold	0973 690 100	40
2-fold	0973 690 200	20



Cable and pipe spacer clip with longitudinal hole

Quick installation without removing the clip screws

Material	Steel
Surface	Zinc plated



Continuation **Cable and pipe spacer clip with longitudinal hole**

Min./max. grip range	Suitable for pipe (EN)	Suitable for steel pipe (imperial)	Elongated hole length/elongated hole width	Art. no.	P. Qty.
10-14 mm		1/4 inch	9 x 6.5 mm	0971 601 412	50
15-19 mm	EN 16	3/8 inch	9 x 6.5 mm	0971 601 416	50
20-24 mm	EN 20	1/2 inch	10 x 6.5 mm	0971 601 420	50
25-29 mm	EN 25	3/4 inch	10 x 6.5 mm	0971 601 425	50
30-38 mm	EN 32	1 inch	10 x 6.5 mm	0971 601 432	25
39-52 mm	EN 40, EN 50	1 1/2 inch, 1 1/4 inch	14 x 6.5 mm	0971 601 440	25
53-63 mm	EN 63	2 inch	14 x 6.5 mm	0971 601 463	25

Function integrity class E30 and E90. Standard installation systems in accordance with DIN 4102 Part 12.



Metal spacer clip with M6 thread

Quick installation without removing the clip screws

For laying (single-point attachment) steel-armoured pipes (caution: not part of the expert's report) and fire protection cables.



Thread type x nominal diameter	M6
Material	Steel

Min./max. grip range	Suitable for pipe (EN)	Suitable for steel pipe (imperial)	Surface	Art. no.	P. Qty.
5-6 mm			Zinc plated	0971 601 506	100
7-8 mm			Zinc plated	0971 601 508	100
9-10 mm		1/8 inch	Zinc plated	0971 601 510	100
11-12 mm		1/4 inch	Zinc plated	0971 601 512	100
13-14 mm			Zinc plated	0971 601 514	100
15-16 mm	EN 16		Zinc plated	0971 601 516	100
17-18 mm		3/8 inch	Zinc plated yellow	0971 601 518	100
19-20 mm	EN 20		Zinc plated	0971 601 520	100
21-23 mm		1/2 inch	Zinc plated yellow	0971 601 522	100
24-25 mm	EN 25		Zinc plated	0971 601 525	100
26-27 mm		3/4 inch	Zinc plated	0971 601 526	100
28-29 mm			Zinc plated yellow	0971 601 528	100
31-32 mm	EN 32		Zinc plated	0971 601 532	100
39-40 mm	EN 40		Zinc plated	0971 601 540	50
49-51 mm	EN 50		Zinc plated	0971 601 550	50
62-63 mm	EN 63		Zinc plated	0971 601 563	25

Function integrity class E30 and E90. Standard installation systems in accordance with DIN 4102 Part 12



Hook Nail

Limb length	18 mm
Min./max. tensile strength	650-850 N/mm ²
Material	Steel
Surface	Zinc plated



Diameter x length (Ø d x L)	Art. no.	P. Qty.
3.1 x 50 mm	0478 45 315	250
3.1 x 60 mm	0478 45 316	250
3.1 x 70 mm	0478 45 317	250
3.4 x 50 mm	0478 45 345	250
3.4 x 60 mm	0478 45 346	250
3.4 x 70 mm	0478 45 347	250
3.4 x 80 mm	0478 45 348	250

Aerated concrete spikes

High retaining forces — the arms spread in aerated concrete

Knock in without pre-drilling

Saves time and money

Arm length can be adapted to width of slot

Predetermined breaking point

Diameter x length (Ø d x L)	6.2 x 68.5 mm
Limb length	44.5 mm
Min./max. temperature resistance	-30 to 80 °C
Material	PA - Polyamide
Halogen-free	Yes
Silicone-free	Yes



Art. no. 0593 520 100

P. Qty.: 100

Flush-mounted fixing clamp

Rapid and tool-free pipe attachment in masonry slots up to 45 mm wide

- Does not show through plaster
- No damage to the pipes
- Simple installation

Min./max. slot width	12-45 mm
Length (a)	60 mm
Height (c)	45 mm
Min./max. temperature resistance	-20 to 75 °C
Colour	Light grey, similar to RAL 7035
Material	PA - Polyamide



Continuation **Flush-mounted fixing clamp**

Halogen-free	Yes
Silicone-free	Yes

Art. no. 0971 300 910

P. Qty.: 200

Fabric mounting tape, indoor and outdoor

Rust-proof, no sharp edges

Easy to cut by using scissors or a utility knife

Width	15 mm
Material thickness	1.1 mm
Min./max. temperature resistance	-40 to 170 °C
Max. load force	2700 N
Material	PES - Polyester
Ultraviolet resistance	Yes
Colour	Black
Length of roll	25 m



Art. no. 0972 325

P. Qty.: 125

Fabric mounting tape, indoor use

Rust-proof, no sharp edges

Easy to cut by using scissors or a utility knife

Width	15 mm
Material thickness	1 mm
Min./max. temperature resistance	-10 to 120 °C
Max. load force	1700 N
Material	PP - Polypropylene
Ultraviolet resistance	No
Colour	White, Red
Length of roll	25 m



Art. no. 0972 315

P. Qty.: 125



Plastic-coated punched mounting strip

Welded: Plastic coating will not slip

Material thickness	2.6 mm
Max. temperature resistance	80 °C
Material	Hot-galvanised steel sheet, 1.0226
Halogen-free	Yes
Silicone-free	Yes

Width	Diameter of hole	Hole distance	Max. load force	Art. no.	P. Qty.
14 mm	5.2 mm	9 mm	1250 N	0972 010 314	10
19 mm	6.5 mm	15 mm	1500 N	0972 010 319	10
27 mm	8.5 mm	15 mm	2500 N	0972 010 327	10

Punched mounting strip, no marginal perforations

In practical plastic roller box

Material thickness	0.7 mm
Material	Hot-galvanised steel sheet, 1.0226
Length	10 m



Continuation **Punched mounting strip, no marginal perforations**

Width	Diameter of hole	Hole distance	Max. load force	Art. no.	P. Qty.
12 mm	5.2 mm	9 mm	1300 N	0972 010 012	10
17 mm	6.5 mm	15 mm	1600 N	0972 010 017	10
25 mm	8.5 mm	15 mm	2400 N	0972 010 025	10

Punched mounting strip with marginal perforations

For mounting electrical/sanitary pipes, cables and lines on unfinished concrete



Material thickness	0.7 mm
Hole distance	15 mm
Hole distance of holes on the edges	15 mm
Material	Hot-galvanised steel sheet, 1.0226
Length	25 m

Width	Diameter of hole	Marginal-hole diameter	Max. load force	Art. no.	P. Qty.
17 mm	6.8 mm	3.2 mm	1500 N	0972 010 217	25
25 mm	8.5 mm	4 mm	2800 N	0972 010 225	25

Crimped punched mounting strip without perforated edge

Material thickness	0.7 mm
Material	Hot-galvanised steel sheet, 1.0226
Length	10 m



Width	Diameter of hole	Hole distance	Max. load force	Art. no.	P. Qty.
12 mm	4.8 mm	14 mm	800 N	0972 010 112	10
17 mm	6.8 mm	20 mm	1400 N	0972 010 117	10

Plastic-coated assembly tape

For pin drivers and high-performance gas devices

Without holes – for direct mounting by gun nails and bolts



Width	14 mm
Material thickness	2.6 mm
Max. temperature resistance	80 °C
Max. load force	1250 N
Material	Hot-galvanised steel sheet, 1.0226
Halogen-free	Yes
Silicone-free	Yes

Art. no. 0972 010 414

P. Qty.: 10

Aluminium clip

For routing (single-point attachment) rigid aluminium pipes Alu-Steck-WES or Alu-Gewinde-WES

With connection mechanism (vertical)	No
Elongated hole width	6.5 mm
Min./max. temperature resistance	-45 to 250 °C
Material	Aluminium
Halogen-free	Yes
Silicone-free	Yes



Nominal size	Elongated hole length	Art. no.	P. Qty.
16	8.5 mm	0971 557 116	75
20	8.5 mm	0971 557 120	50
25	12 mm	0971 557 125	50
32	12 mm	0971 557 132	50
40	12 mm	0971 557 140	25
50	12 mm	0971 557 150	25
63	12 mm	0971 557 163	15

Beam clamp Type SCT

- Fastener used for suspension (e.g. lights)
- With threaded pin M6 x 16 mm
- Lock nut included in delivery

Material thickness	1.5 mm
Max. loading weight	22 kg
Suitable for nominal width (A)	25 mm
Material	Steel
Surface	Flake zinc



Art. no. 0971 822 101

P. Qty.: 100

Flange beam Type LCW

For direct mounting of flat-leaf screws in the threaded holes, for example

- Fastener used for suspension via threaded rods
- Increased safety thanks to toothed clamp surface

Min./max. grip range	2-18 mm
Max. loading weight	45 kg
Clamp in depth (D)	17 mm
Through-hole diameter (ØA)	10.7 mm
Marginal-hole diameter (C)	6.3 mm
Material	Steel
Surface	Flake zinc



Continuation **Flange beam Type LCW**

Art. no. 0971 819 101

P. Qty.: 25

Beam clamp Type SCZ

Mounting element for suspensions by means of screws and threaded rods

Fastenings for cables using cable ties up to 7.8 mm in width



Max. loading weight	45 kg
Suitable for threaded rods (Ø)	M6
Insertion depth (B)	33 mm
Material	Steel
Surface	Flake zinc

Min./max. grip range	Design	Thread type x nominal diameter x length of set screw	Art. no.	P. Qty.
3-8 mm	With set screw	M 6 x 10 mm	0971 809 101	25
3-8 mm	With through-hole 7 mm		0971 809 201	25
8-14 mm	With set screw	M 6 x 10 mm	0971 809 102	25
8-14 mm	With through-hole 7 mm		0971 809 202	25
14-20 mm	With set screw	M 6 x 10 mm	0971 809 103	25
14-20 mm	With through-hole 7 mm		0971 809 203	25

Beam clamp Type SRZ

Open model

- Fastener for horizontal suspension of pipes
- Including two M6 openings for threaded rods
- Pipe clip rotatable through 360°



Max. loading weight	11 kg
Material	Steel
Surface	Flake zinc

Min./max. grip range	Min./max. pipe diameter (Ø)	Suitable for pipe (PG)	Art. no.	P. Qty.
3-8 mm	18-25 mm	PG 11, PG 13,5, PG 16	0971 810 101	25
3-8 mm	22-29 mm	PG 16, PG 21	0971 810 102	25
8-14 mm	18-25 mm	PG 11, PG 13,5, PG 16	0971 810 104	25
8-14 mm	22-29 mm	PG 16, PG 21	0971 810 105	25
14-20 mm	18-25 mm	PG 11, PG 13,5, PG 16	0971 810 107	25
14-20 mm	22-29 mm	PG 16, PG 21	0971 810 108	25

Beam clamp Type SRY

Closed model

- Fastener for horizontal and vertical suspension of pipes
- Pipe clip rotatable through 360°



Max. loading weight	12 kg
Material	Steel
Surface	Flake zinc

Min./max. grip range	Min./max. pipe diameter (Ø)	Suitable for pipe (PG)	Art. no.	P. Qty.
3-8 mm	19-26 mm	PG 13,5, PG 16	0971 806 102	25
3-8 mm	26-32 mm	PG 21	0971 806 103	25
3-8 mm	32-40 mm	PG 29	0971 806 104	25
8-14 mm	12-19 mm	PG 9, PG 11	0971 806 107	25
8-14 mm	19-26 mm	PG 13,5, PG 16	0971 806 108	25
8-14 mm	26-32 mm	PG 21	0971 806 109	25
8-14 mm	32-40 mm	PG 29	0971 806 110	25
14-20 mm	12-19 mm	PG 9, PG 11	0971 806 113	25
14-20 mm	19-26 mm	PG 13,5, PG 16	0971 806 114	25
14-20 mm	26-32 mm	PG 21	0971 806 115	25
14-20 mm	32-40 mm	PG 29	0971 806 116	25

Beam clamp Type SRZ

Closed model

- Fastener for the horizontal suspension of pipes
- Including two M6 openings for threaded rods
- Pipe clip rotatable through 360°



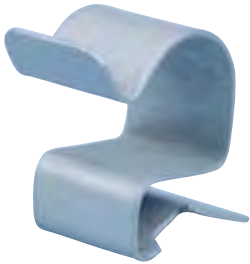
Max. loading weight	45 kg
Material	Steel
Surface	Flake zinc

Min./max. grip range	Min./max. pipe diameter (Ø)	Suitable for pipe (PG)	Art. no.	P. Qty.
3-8 mm	12-19 mm	PG 9, PG 11	0971 811 101	25
3-8 mm	19-26 mm	PG 13,5, PG 16	0971 811 102	25
3-8 mm	26-32 mm	PG 21	0971 811 103	25
3-8 mm	32-40 mm	PG 29	0971 811 104	25
8-14 mm	12-19 mm	PG 9, PG 11	0971 811 107	25
8-14 mm	19-26 mm	PG 13,5, PG 16	0971 811 108	25
8-14 mm	26-32 mm	PG 21	0971 811 109	25
8-14 mm	32-40 mm	PG 29	0971 811 110	20
14-20 mm	12-19 mm	PG 9, PG 11	0971 811 113	25
14-20 mm	19-26 mm	PG 13,5, PG 16	0971 811 114	25
14-20 mm	26-32 mm	PG 21	0971 811 115	25
14-20 mm	32-40 mm	PG 29	0971 811 116	20

Beam clamp Type SRV

Fastener for fastening of lines and empty pipes to steel beams

Material	Steel
Surface	Flake zinc



Min./max. grip range	Min./max. cable diameter (Ø)	Suitable for pipe (PG)	Art. no.	P. Qty.
2-4 mm	6-7 mm		0971 816 201	100
2-4 mm	8-9 mm		0971 816 202	100
2-4 mm	10-11 mm		0971 816 203	100
2-4 mm	12-14 mm	PG 7	0971 816 204	100
2-4 mm	15-19 mm	PG 9, PG 11	0971 816 205	100
2-4 mm	20-24 mm	PG 13,5, PG 16	0971 816 206	100
2-4 mm	25-32 mm	PG 21	0971 816 207	100
4-7 mm	6-7 mm		0971 816 208	100
4-7 mm	8-9 mm		0971 816 209	100
4-7 mm	10-11 mm		0971 816 210	100
4-7 mm	12-14 mm	PG 7	0971 816 211	100
4-7 mm	15-19 mm	PG 9, PG 11	0971 816 212	100
4-7 mm	20-24 mm	PG 13,5, PG 16	0971 816 213	100
4-7 mm	25-32 mm	PG 21	0971 816 214	100
8-12 mm	6-7 mm		0971 816 215	100
8-12 mm	8-9 mm		0971 816 216	100
8-12 mm	10-11 mm		0971 816 217	100
8-12 mm	12-14 mm	PG 7	0971 816 218	100
8-12 mm	15-19 mm	PG 9, PG 11	0971 816 219	100
8-12 mm	20-24 mm	PG 13,5, PG 16	0971 816 220	100
8-12 mm	25-32 mm	PG 21	0971 816 221	100

Beam clamp Type SKX

Fastener for cable fastening inside steel beams

Insertion depth (A)	58 mm
Material	Steel
Surface	Flake zinc



Min./max. grip range	Art. no.	P. Qty.
3-8 mm	0971 808 101	25
8-14 mm	0971 808 102	25
14-20 mm	0971 808 103	25

Beam clamp Type SCW

Fastener for suspension via chains

Max. loading weight	90 kg
Diameter of hole (Ø)	6.5 mm
Insertion depth (B)	20.3 mm
Material	Steel
Surface	Flake zinc

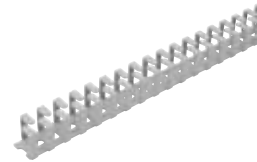


Min./max. grip range	Distance between support and centre of hole (A)	Art. no.	P. Qty.
3-8 mm	18 mm	0971 801 101	50
8-14 mm	26 mm	0971 801 102	50
14-20 mm	30 mm	0971 801 103	50

Wiring duct Flexible

Rectangular shape gives approx. 30% more capacity compared to round models

- Outstanding installation characteristics for integrating movable components (e.g. doors etc.)
- Double-sided adhesive tape on the duct base
- Simple cable insertion without additional tools
- Single-row base holes (slotted holes 4.5 x 8 mm)



Length of duct	0.5 m
Max. temperature resistance	80 °C
Colour	Window grey, similar to RAL 7040
Material	PVC - Polyvinyl chloride
Flammability	Self-extinguishing in accordance with UL94 V2

Type description	Height	Width	Art. no.	P. Qty.
20 x 20	20 mm	20 mm	0973 420 20	36
30 x 30	30 mm	30 mm	0973 430 30	16
40 x 40	40 mm	40 mm	0973 440 40	84

Bracket clamp, single

Diameter of hole (RL)	6.1 mm
Width of band (B)	20 mm
Thickness of tape (t)	1.5 mm
Material	Steel
Surface	Sendzimir galvanized



Suitable for min./max. pipe outer diameter (ØD)	Length (L)	Height (H)	Art. no.	P. Qty.
15-16 mm	48 mm	15 mm	0592 900 15	100
17-18 mm	50 mm	17 mm	0592 900 18	100
19-20 mm	52 mm	19 mm	0592 900 20	100
21-22 mm	54 mm	21 mm	0592 900 22	100

Continuation **Bracket clamp, single**

Suitable for min./ max. pipe outer dia- meter (ØD)	Length (L)	Height (H)	Art. no.	P. Qty.
24-25 mm	56 mm	22.5 mm	0592 900 24	100
27-28 mm	61 mm	26.5 mm	0592 900 28	100
31-32 mm	64 mm	30.5 mm	0592 900 32	100
34-35 mm	68 mm	32.5 mm	0592 900 35	100
39-40 mm	73 mm	37.5 mm	0592 900 40	100

Bracket clamp, double

Diameter of hole (RL)	6.1 mm
Width of band (B)	20 mm
Thickness of tape (t)	1.5 mm
Material	Steel
Surface	Sendzimir galvanized



Suitable for min./max. pipe outer diameter (ØD)	Length (L)	Distance 1 (A)	Height (H)	Art. no.	P. Qty.
15-16 mm	68 mm	47 mm	15 mm	0592 901 15	100
17-18 mm	72 mm	49 mm	17 mm	0592 901 18	100
19-20 mm	75 mm	51 mm	19 mm	0592 901 20	100
21-22 mm	80 mm	53 mm	21 mm	0592 901 22	100
24-25 mm	86 mm	55 mm	22.5 mm	0592 901 24	100
27-28 mm	96 mm	59 mm	26.5 mm	0592 901 28	50
34-35 mm	107 mm	66 mm	32.5 mm	0592 901 35	50
39-40 mm	117 mm	71 mm	37.5 mm	0592 901 40	50



VARIFIX® beam clamp, standard

With threaded hole

- VdS-authorised and approved for use in construction of stationary fire extinguishing systems
- FM approval (except M8)
- With hexagon adjusting screw DIN933/8.8; screw end with ring cutter

Material	Malleable cast iron
Surface	Zinc plated

Permissible load	Thread type x nominal diameter (G)	Grip height (H _K)	Length (L)	Height (H)	Art. no.	P. Qty.
2500 N	M8	23.7 mm	50 mm	45 mm	0862 200 001	25
2500 N	M10	21 mm	44 mm	42 mm	0862 200 003	25
3500 N	M12	26 mm	57.5 mm	54 mm	0862 200 005	10
5500 N	M16	29 mm	58 mm	58 mm	0862 200 007	10

VARIFIX® beam clamp, standard

With unthreaded through hole

- VdS-authorised and approved for use in construction of stationary fire extinguishing systems
- FM approval
- With hexagon adjusting screw DIN933/8.8; screw end with ring cutter



Material	Malleable cast iron
Surface	Zinc plated

Permissible load	Grip height (H _K)	Diameter of hole (RL)	Length (L)	Height (H)	Art. no.	P. Qty.
2500 N	24 mm	9 mm	50 mm	45 mm	0862 200 002	25
2500 N	20 mm	11 mm	44 mm	41.5 mm	0862 200 004	25
3500 N	27.5 mm	13 mm	58 mm	54 mm	0862 200 006	10
5500 N	29 mm	17 mm	58 mm	57.5 mm	0862 200 008	10



VARIFIX® beam clamp Compact

With threaded hole

- VdS certified and authorised for use in construction of stationary fire extinguishing systems.
- With hexagonal adjustment screw DIN933/8.8; end of screw has a ring cutter
- With reduced dimensions for electrical installation



Material	Malleable cast iron
Surface	Zinc plated
Permissible load	1200 N
Thread type x nominal diameter (G)	M8
Grip height (H _K)	19 mm
Length (L)	38.5 mm
Height (H)	36.4 mm
Width (B)	19 mm
Max. grip range	18 mm
Product weight (per item)	84 g

Art. no. 0862 200 015

P. Qty.: 25



Set stud with M6 thread

Material	Steel
Surface	Zinc plated
Connection thread	M6
Collar diameter (D)	8.8 mm



Length (L)	Art. no.	P. Qty.
13.5 mm	0232 6 15	100/1000
16.5 mm	0232 6 18	100/1000
23.5 mm	0232 6 25	100/1000

Manual drive-in stud with large collar

Material	Steel
Collar diameter (D)	10 mm



Length (L)	Max. thickness of mounting material	Art. no.	P. Qty.
14 mm	2 mm	0232 104 14	100/1000
18 mm	6 mm	0232 104 18	100/1000
22 mm	10 mm	0232 104 22	100/1000

Manual drive-in stud with small collar

Material	Steel
Collar diameter (D)	8 mm



Length (L)	Max. thickness of mounting material	Art. no.	P. Qty.
14 mm	2 mm	0232 4 14	100/1000
18 mm	6 mm	0232 4 18	100/1000
22 mm	10 mm	0232 4 22	100/1000

Nail setting tool for manual drive-in stud

With bolt holder and impact protection

Art. no. 0232 4

P. Qty.: 1





Two-pin voltage tester Multi-Tester Pro II LCD

Overvoltage category CAT IV (1000 V) — suitable for use in electrical installation and servicing work, and for testing hybrid and electric vehicles and photovoltaic systems

- Displays voltages from approx. 45 V/AC and 110 V/DC
- FI/RCD test with two keys
- Improved hold in safety socket and CEE socket
- Suitable for narrow test openings

Length	300 mm
Display	LCD
Min./max. voltage range AC	3-1000 V/AC
Min./max. voltage range DC	4-1400 V/DC
Min./max. frequency	0/500 Hz
Continuity testing, min./max. electrical resistance	0-5 kOhm
Min. voltage for phase testing	100 V/AC
Switchable load	30 mA at 230V/AC
Diode testing	Yes
Polarity testing	Yes (- in LCD)
PELV display	Visual, Vibrating
Display min./max. electrical resistance display	10-199.9 kOhm
Min./max. frequency display	0-500 Hz
IP protection class	IP 65

Overvoltage protection category	CAT IV/1000 V
Rechargeable battery/battery designation	1.5 V Micro AAA
Number of rechargeable batteries/batteries	2 PCS
Length x width x depth	300 x 75 x 20 mm

Art. no. 0715 53 175

P. Qty.: 1

Two-pin voltage tester Multi-Tester Pro II LED

Overvoltage category CAT IV (1000 V) — suitable for use in electrical installation and servicing work, and for testing hybrid and electric vehicles and photovoltaic systems

- Test equipment with maximum safety level
- Displays voltages from approx. 45 V/AC and 110 V/DC
- FI/RCD test with two keys
- Improved hold in safety socket and CEE socket
- Suitable for narrow test openings

Length	300 mm
Display	Optical, LEDs
Min./max. voltage range AC	6-1000 V/AC
Min./max. voltage range DC	6-1400 V/DC
Min./max. frequency	0/1000 Hz
Continuity testing, min./max. electrical resistance	0-200 kOhm
Min. voltage for phase testing	100 V/AC
Switchable load	30 mA at 230V/AC
Diode testing	Yes
Polarity testing	Yes (+/- LED)
PELV display	Visual, Vibrating
IP protection class	IP 65
Overvoltage protection category	CAT IV/1000 V
Rechargeable battery/battery designation	1.5 V Micro AAA
Number of rechargeable batteries/batteries	2 PCS
Length x width x depth	300 x 75 x 20 mm



Art. no. 0715 53 165

P. Qty.: 1



Continuity tester Beeper Plus

For continuity testing of wires, fuses, light bulbs etc.

External voltage-proof to 300 V/a warning lamp comes on for safety.

Torch function with LED technology

Contact-free detection of voltage sources, hence no current flow required.

Display from 110–300 V alternating voltage

Testing with buzzer and can be used as a pocket torch at the same time

Test display via

- Buzzer and LED (0–30 Ω)
- Or LED pocket torch (0–250 Ω)



Min. voltage measuring range	110 V/AC
Max. voltage measuring range	300 V/AC
IP protection class	IP 20
EN standard	61010
Number of rechargeable batteries/batteries	3 PCS
Rechargeable battery/battery designation	Mignon AA
Rechargeable battery/battery permanently installed	No

Art. no. 0715 53 315

P. Qty.: 1

Tested to EN 61010/DIN VDE 0100-410/IEC 1010



Mini digital multimeter

Small meter for measuring direct and alternating current, resistance testing, continuity testing, diode testing and contactless voltage testing.

- The test leads can be fastened to the rear of the device; this protects them from damage and prevents injury from the measuring tips
- Permanently attached test leads, data hold, diode testing, continuity testing, integrated LED pocket torch and automatic range detection
- With robust, splash-proof rubber housing and membrane keyboard



Display	LCD, 2000 digits
Min./max. voltage measuring range	0.5 V/AC-600 V/AC
Min./max. voltage measuring range 2	0.5 V/DC-600 V/DC
Min./max. electrical-resistance measuring range	0 Ohm-20 MOhm
Overvoltage protection category	CAT III/1000 V
IP protection class	IP 54

Rechargeable battery/battery designation	1.5 V Micro AAA
Number of rechargeable batteries/batteries	2 PCS

Art. no. 0715 53 370

P. Qty.: 1

Digital multimeter MM 600 TRMS

Modern, digital multimeter with effective value measurement (TRMS), cable break detector and LED pocket torch for professional use in trade and industry.

- Suitable for measuring AC/DC current, AC/DC voltage, resistance, continuity and diodes
- Can be used for AC/DC voltage up to 600 V, and also AC/DC current up to 10 A
- Resistance measurement up to 20 MΩ



Display	2000 digits, LCD
Min./max. voltage measuring range	1 mV/AC-600 V/AC
Min./max. voltage measuring range 2	0.1 mV/DC-600 V/DC
Min./max. current measuring range	0.1 µA/AC-10 A/AC
Min./max. current measuring range 2	0.1 µA/AC-10 A/DC
Min./max. electrical-resistance measuring range	0.1 Ohm-20 MΩ
Overvoltage protection category	CAT IV/600 V
IP protection class	IP 20
Rechargeable battery/battery designation	1.5 V Micro AAA
Number of rechargeable batteries/batteries	2 PCS

Art. no. 0715 53 415

P. Qty.: 1

Digital multimeter Professional

Versatile TRMS multimeter, provides the most important functions for daily use in skilled trades, business and industry. For maintenance, installation, service. Robust due to shock-proof cover.

- Measurement of voltage: AC, DC
- Measurement of current: AC, DC, from as little as 10 µA
- Measurement of resistance, capacitance, temperature



Display	6000 digits
Min./max. voltage measuring range	0.6 V/AC-750 V/AC
Min./max. voltage measuring range 2	0.6 V/DC-1000 V/DC

Continuation **Digital multimeter Professional**

Min./max. current measuring range	10 µA/AC/DC-10 A/AC/DC
Min./max. electrical-resistance measuring range	1 Ohm-60 MOhm
Min./max. capacity measuring range	1 nF-100 mF
Min./max. temperature measuring range	-55 to 1200 °C
Overvoltage protection category	CAT III/600 V
IP protection class	IP 54
Rechargeable battery/battery designation	1.5 V LR6 AA
Number of rechargeable batteries/batteries	2 PCS

Art. no. 0715 58 550

P. Qty.: 1

Voltage tester Test Plus

Contactless voltage tester with torch function (LED)

- No current flow required
- Detects live wires, cable breakages, faults at switches, etc.
- Identifies blown fuses, defective lamps in chains of lights without direct metallic contact



Min./max. voltage range AC	12-1000 V/AC
IP protection class	IP 40
Overvoltage protection category	CAT III/1000 V
Rechargeable battery/battery designation	1.5 V Micro AAA
Number of rechargeable batteries/batteries	2 PCS

Art. no. 0715 53 100

P. Qty.: 1

TÜV-/GS-tested to EN 61010/DIN VDE 0100-410/IEC 1010

Socket tester A with FI/RCD tripping

Quick and reliable testing of all potentially fatal connection faults in the Schuko sockets.

- Handy tester
- No presetting required
- Compact, lightweight design
- Fast and reliable testing of sockets
- Power supply across socket being tested
- Housing made from fibreglass-reinforced polyamide
- Equipped with additional FI/RCD test circuit



Min./max. voltage range AC	85-230 V/AC
Min./max. frequency	50/60 Hz

Switchable load	30 mA at 230V/AC
IP protection class	IP 40
Overvoltage protection category	CAT II/300 V

Art. no. 0715 53 001

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Manufactured and certified to IEC/EN 61010-1 (DIN VDE 0411)



Magnet tester

Test tip lights up without metallic contact as soon as a magnetic field is present – it reacts to magnetic fields, excited by direct voltage, alternating voltage or permanent magnets



Number of rechargeable batteries/batteries	2 PCS
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Art. no. 0715 53 150

P. Qty.: 1



AC/DC multimeter measuring calliper

Current measuring calliper with all the features of a fully-fledged multimeter. Perfect even in confined spaces due to the handy, compact construction.

Multimeter measuring calliper for measuring electrical and physical variables, encompasses the following functions:

- AC/DC voltage measurement
- AC/DC current measurement
- Resistance measurement
- Audible continuity testing



Display	6000 digits
Enclosure diameter	30 mm
Min./max. current measuring range	50 mA/AC-400 A/AC
Min./max. current measuring range 2	100 mA/DC-400 A/DC
Min./max. voltage measuring range	0.05 V/AC-600 V/AC
Min./max. voltage measuring range 2	0.3 V/DC-600 V/DC
Min./max. electrical-resistance measuring range	0.2 Ohm-600 Ohm

Continuation **AC/DC multimeter measuring calliper**

Overvoltage protection category	CAT III/600 V
IP protection class	IP 30
Length x width x height	199 x 75 x 36 mm
Rechargeable battery/battery designation	1.5 V Micro AAA
Number of rechargeable batteries/batteries	2 PCS

Art. no. 0715 58 710

P. Qty.: 1

Digital clip-on ampere meter AM 600 AC/DC

Digital clip-on ampere meter with extensive measuring options, effective value measurement (TRMS), auto-range function and LED measuring point illumination for professional use in trade and industry.

The Würth AM 600, certified for safe use in CAT III 600 V environments, offers essential functions for the detection of malfunctions and numerous problems in electrical and electronic systems.



Display	6000 digits
Enclosure diameter	23 mm
Min./max. current measuring range	10 mA/AC-600 A/AC
Min./max. current measuring range 2	10 mA/DC-600 A/DC
Min./max. voltage measuring range	1 mV/AC-600 V/AC
Min./max. voltage measuring range 2	1 mV/DC-600 V/DC
Min./max. electrical-resistance measuring range	0.1 Ohm-60 MOhm
Overvoltage protection category	CAT III/600 V
IP protection class	IP 20
Length x width x height	210 x 80 x 35 mm
Number of rechargeable batteries/batteries	3 PCS

Art. no. 0715 53 715

P. Qty.: 1

Multi-purpose current clamp Professional

The ideal tool for any use on site. Contains all necessary measuring functions in one compact device. A measuring instrument for all cases.

- Current measurement: AC, DC, AC+DC
- Voltage measurement: AC, DC, AC+DC
- Power measurement: Active power, apparent power, reactive power, power factor (single phase and three phase total)
- Resistance, frequency measurement
- Acoustic continuity testing, diode testing
- Determination of the phase sequence of the external conductors
- Innovative TRUE INRUSH function for the start-up current measurements.
- Many other functions
- HOLD, MIN/MAX/PEAK, ΔREL, THD (harmonic)
- Large, backlit LCD display for optimum readability
- 6000 count resolution for high levels of accuracy
- Automatic range selection, AC/DC – detection, auto power off
- Clearly assigned function keys, 1 key = 1 function
- Ergonomic „single-handed operation“ thanks to optimally placed rotary switch



Display	6000 digits
Enclosure diameter	34 mm
Min./max. current measuring range	0.15 A/AC-600 A/AC
Min./max. current measuring range 2	0.15 A/DC-900 A/DC
Min./max. current measuring range 3	0.15 A/AC/DC-600 A/AC/DC
Min./max. voltage measuring range	0.15 V/AC-1000 V/AC
Min./max. voltage measuring range 2	0.15 V/DC-1400 V/DC
Min./max. voltage measuring range 3	0.15 V/AC/DC-1000 V/AC/DC
Min./max. effective power measuring range	1 W-600 kW
Min./max. reactive power measuring range	1 var-600 kvar
Min./max. apparent power measuring range	1 VA-600 kVA
Min./max. electrical-resistance measuring range	0.1 Ohm-59.99 kOhm
Overvoltage protection category	CAT IV/600 V
IP protection class	IP 40
Length x width x height	220 x 80 x 34 mm
Rechargeable battery/battery designation	9 V 6LR61
Number of rechargeable batteries/batteries	1 PCS

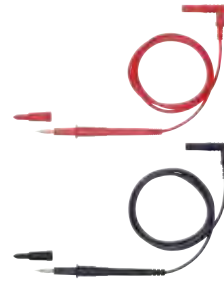
Art. no. 0715 58 770

P. Qty.: 1

Safety test lead with restrictable test tips

Conforms to requirements of IEC/EN 61010-2-031

- 4 mm safety plug with contact lamellae
- Resealable packaging for dustproof storage.
- Leads: Double-insulated, highly-flexible silicone leads with extra-fine wire, cross-section 1 mm²
- Length: 1.2 m
- Rated voltage/current: 1000 V/CAT III, 20 A



Plug-connector diameter	4 mm
Wire cross section	1 mm ²
Length	1.2 m
Max. nominal current	20 A
Max. nominal voltage	1000 V/AC/DC
Overvoltage protection category	CAT II/1000 V, CAT III/1000 V

Art. no. 0715 53 811

P. Qty.: 1

Safety dolphin clamp, fully-insulated

Conforms to requirements of IEC/EN 61010-2-031

The products illustrated are fitted with a bushing for a 4 mm safety plug and supplied in resealable blister packaging for dust-proof storage.

- Clamping width: 30 mm.
- Rated current/voltage: 32 A/1000 V CAT III.
- 4 mm safety socket in insulated body.
- Supply scope: one red and one black dolphin clamp.



Connecting socket diameter	4 mm
Max. nominal current	32 A
Max. nominal voltage	1000 V/AC/DC
Overvoltage protection category	CAT III/1000 V
Max. grip range	30 mm

Art. no. 0715 53 830

P. Qty.: 1

Safety test lead set Automotive

Contents:

- 4 mm safety test leads, silicone-insulated, $l = 1 \text{ m}$; cross-section 1.0 mm^2 ; rated current 19 A; temperature-resistant from -80°C to $+150^\circ\text{C}$. One side with straight safety plug, opposite side with angled 4 mm safety plug.
- Safety dolphin clamp, fully-insulated
- Attachable safety test tips, stainless steel, rigid, with tip protective cap for tapping at individual ICs (2.54 mm spacing)
- Attachable safety claw tapper with strong outer insulated claws. Rated current/voltage: 16 A/1000 V CAT III
- Scope of delivery: one red and one black version



Art. no. 0715 53 870

P. Qty.: 1

Moisture measuring unit

Compact wood moisture measuring unit for all applications (with a mean calibration for European woods)

- Measuring principle: electrical resistance
- With measuring cap for non-destructive measuring
- Electrodes are integrated and interchangeable

Min./max. wood humidity measuring range	6-44 %
Min./max. temperature conditions	0 to 40°C
Included in delivery (Lieferumfang)	Case, 2 spare tips



Art. no. 0715 53 180

P. Qty.: 1

Easy-Finder Set

Contactless cable locator

The cable finder allows any technician to find any kind of cable, wire or wire pair in the shortest possible time without contact and without time-consuming stripping work.

Transmission power (in dBm) at 600 Ohms	12 dBm
Transmission power (in dBm) at 50 Ohms	10.5 dBm
Output voltage	9 V/DC
Length of test cable	25 cm
Length of test cable 2	10 cm
Material of the housing	ABS, splash water protected
Number of rechargeable batteries/batteries	2 PCS



Continuation **Easy-Finder Set**

Rechargeable battery/battery permanently installed	No
Included in delivery (Lieferumfang)	Transmitter, receiver, bag

Art. no. 0715 53 750

P. Qty.: 1

Ink marker Premium ink

Also for coated surfaces (nano-coating)

- Waterproof and abrasion-resistant
- Light-resistant and weatherproof



Colour	Black
Design	Permanently waterproof
Shape of tip	Round tip
Material of the housing	Plastic

Line thickness	Art. no.	P. Qty.
0.4 mm	0967 909 101	4
0.6 mm	0967 909 201	4
1 mm	0967 909 301	4

Ink marker Standard Ink

Waterproof and abrasion-resistant

- Ideal for use in the automotive sector, industry and trade businesses.
- Light and weather-resistant



Min./max. line thickness	1.5-3 mm
Design	Permanently waterproof
Shape of tip	Round tip
Material of the housing	Plastic
Silicone-free	Yes

Colour	Art. no.	P. Qty.
Black	0967 915 301	5
Red	0967 915 302	5
Blue	0967 915 303	5

Drill hole marker

For marking where access is restricted

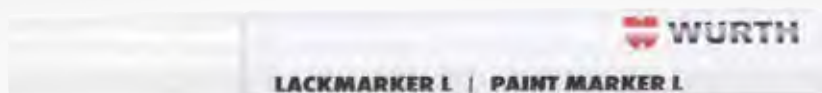
Waterproof and abrasion-resistant



Line thickness	1 mm
Colour	Black
Design	Permanently waterproof
Shape of tip	Round tip
Material of the housing	Plastic
Silicone-free	No

Art. no. 0967 909 901

P. Qty.: 5



Paint marker

All colours are heat-resistant up to 400 °C. The colour white is still visible up to 1000 °C.

- Also for dark and transparent surfaces
- Waterproof and abrasion-resistant
- Light-resistant and weather-resistant after drying

Design	Permanently waterproof
Shape of tip	Round tip
Material of the housing	Aluminium
Silicone-free	No

Min./max. line thickness	Colour	Max. temperature resistance	Art. no.	P. Qty.
1-2 mm	Black	400 °C	0967 910 311	5
1-2 mm	Red	400 °C	0967 910 312	5
1-2 mm	White	1000 °C	0967 910 313	5
2-4 mm	Black	400 °C	0967 910 301	5
2-4 mm	Red	400 °C	0967 910 302	5
2-4 mm	White	1000 °C	0967 910 303	5

Paste marker Painter

Also ideal for surfaces with poor adhesion properties

- No sharpening
- With twist mechanism
- Can be used under water
- High-coverage, extra-permanent colour paste (also suitable for dark surfaces)
- Light-resistant and weatherproof after drying



Line thickness	10 mm
Design	Permanently waterproof
Shape of tip	Round tip
Material of the housing	Plastic
Silicone-free	Yes

Colour	Art. no.	P. Qty.
Black	0967 911 101	5
Red	0967 911 102	5
White	0967 911 103	5

Uni marker set

Stable metal design with practical retaining clip

Integrated sharpener in the screw-off cap for the graphite lead



Included in delivery (Lieferumfang)	2 x Uni markers
Number of pieces in assortment/set	19 PCS
Material of the housing	Metal
Silicone-free	Yes

Art. no. 0967 911 401

P. Qty.: 1

Contents for art. no. 0967 911 401		
Designation	Art. no.	Quantity
Graphite refill for uni marker Grey	0967 911 403	6
Refill All-purpose lead for uni marker Red	0967 911 404	6
Refill All-purpose lead for uni marker Yellow	0967 911 405	5

Deep-hole marker set

For marking where access is restricted

- Sturdy metal design with practical retaining clip
- Integrated sharpener in the cap



Included in delivery (Lieferumfang)	1 x deep hole marker
Number of pieces in assortment/set	8 PCS
Min./max. line thickness	0.5-1.5 mm

Continuation **Deep-hole marker set**

Suitable for lead	2,8 mm
Material of the housing	Metal
Silicone-free	Yes

Art. no. 0967 911 201

P. Qty.: 1

Contents for art. no. 0967 911 201		
Designation	Art. no.	Quantity
Graphite lead for deep-hole marker set	0967 911 203	7

Deep-hole drill hole marker set

9 pieces For marking where access is restricted

- With permanent black ink
- Line thickness 1 mm



Included in delivery (Lieferumfang)	1 x deep hole marker, 1 x drill hole marker, 7 x graphite lead
Number of pieces in assortment/set	9 PCS

Art. no. 0967 911 222

P. Qty.: 1

2-in-1 mechanical pencil and deep-hole marker set

Removable cap – can be used as a mechanical pencil or as a deep-hole marker

- For marking where access is restricted
- Sturdy design with practical retaining clip
- Integrated tip in the cap



Number of pieces in assortment/set	8 PCS
Min./max. line thickness	0.5-1.5 mm
Suitable for lead	2,8 mm
Material of the housing	Plastic
Silicone-free	Yes

Art. no. 0967 911 200

P. Qty.: 1

Graphite lead for deep-hole marker set

- Non-permanent
- Good alternative to conventional carpenter pencil

Length	120 mm
Diameter	2.8 mm



Min./max. line thickness	0.5-1.5 mm
Colour	Grey
Silicone-free	Yes

Recommended surfaces	Art. no.	P. Qty.
Porous, Rough	0967 911 202	6
Smooth	0967 911 203	6

All-purpose lead for deep-hole marker

- Non-permanent
- Paste marker for wet and dry surfaces

Length	120 mm
Diameter	2.8 mm
Min./max. line thickness	0.5-1.5 mm
Silicone-free	Yes
Recommended surfaces	Smooth, Porous, Rough



Colour	Art. no.	P. Qty.
White	0967 911 207	6
Red	0967 911 204	6
Yellow	0967 911 205	6

Write-on cable markers

For marking cables

Resistance

Good resistance to dirt, water, alcohol, greases, weak acids, caustic solutions, petroleum-based oils

Material thickness	0.08 mm
Min./max. temperature conditions	-30 to 120 °C
Colour	White
Material	PVC - Polyvinyl chloride
Ultraviolet resistance	Limited



Length x width	Max. cable diameter	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
75 x 25 mm	14 mm	120 pieces per PU	0967 975 25	120
150 x 25 mm	38 mm	60 pieces per PU	0967 950 25	60

Write-on adhesive label

Resistance

Good resistance to water, seawater, low-aliphatic alcohols, methanol, gasoline and engine oils

Material thickness	0.16 mm
Min./max. temperature conditions	-29 to 80 °C



Continuation **Write-on adhesive label**

Colour	Black, Yellow
Material	Polyvinyl chloride - fibre-reinforced PVC
Ultraviolet resistance	Limited

Length x width	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
19 x 11 mm	880 pieces per PU	0967 911 19	880
38 x 11 mm	440 pieces per PU	0967 911 38	440

Safety and warning sign — dangerous electrical voltage

Self-adhesive

Material thickness	0.07 mm
Min./max. temperature conditions	-30 to 120 °C
Colour	Black, Yellow
Material	PVC - Polyvinyl chloride



Limb length	Art. no.	P. Qty.
25 mm	0967 933 01	100
50 mm	0967 933 02	50
100 mm	0967 933 03	50

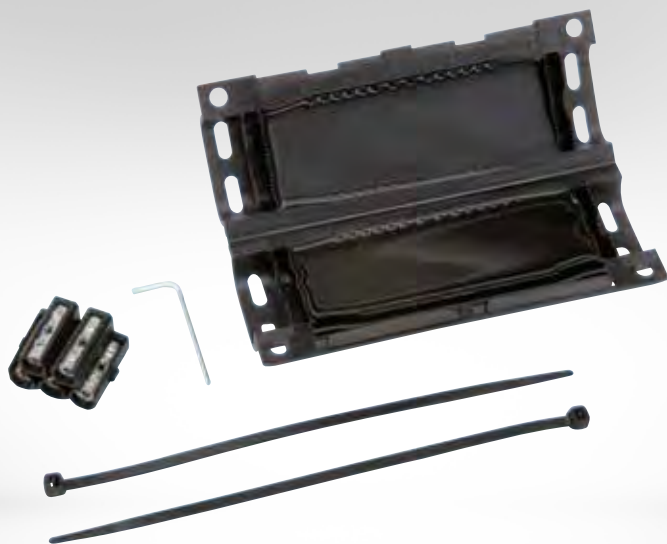
Permanent marker set

Quick-drying, resistant to smearing, waterproof, suitable for almost all surfaces

Colour	Black
Shape of tip	Round tip
Number of cable markers	3 PCS



Design	Line thickness	Art. no.	P. Qty.
Ultra-fine	0.4 mm	0967 910 1	3
Extra fine	1 mm	0967 910 2	3



Gel connection/branch sleeve WGM 0.6/1 kV

Double seal for increased reliability

Advantages of gel technology:

- No special tools (crimping pliers, soldering torch etc.) required
Saves on costs
- No curing, ready to use immediately
Saves time
- No open flame required
- No expiration date
Can therefore be stored for an unlimited period
- No mixing required

DIN EN 50393

Min./max. temperature resistance	-40 to 70 °C
Ultraviolet resistance	Yes
Halogen-free	Yes

Type	Cable type for connection sleeve	Main cable type for branch sleeve	Stub cable type for branch sleeve	Length x width x height	Art. no.	P. Qty.
WGM6	3 - 5 x 1.5 - 6 mm ²	3 - 5 x 2.5 mm ²	3-5 x 1.5 mm ²	155 x 59 x 31 mm	0975 350 001	1
WGM16	3 - 5 x 6 - 16 mm ²	3 - 5 x 6 mm ²	3-5 x 2.5 mm ²	200 x 75 x 37 mm	0975 350 002	1

Casting resin connection sleeve MU 0.6/1 kV

- Completely watertight both horizontally and longitudinally
- Approved in accordance with DIN VDE 0165 for areas at risk of explosion
- Good resistance to UV radiation and chemical influences



Type description	Min./max. cable diameter	Cable type	Length x height	Art. no.	P. Qty.
MU 1	7-16 mm	4 x 4 to 5 x 1.5 mm ²	180 x 25 mm	0890 450 001	1
MU 2	3-28 mm	4 x 10 to 5 x 6 mm ²	190 x 49 mm	0890 450 002	1
MU 3	8-25 mm	4 x 16 to 5 x 6 mm ²	216 x 38 mm	0890 450 003	1
MU 4	14-30 mm	4 x 25 to 5 x 10 mm ²	275 x 48 mm	0890 450 004	1
MU 5	23-36 mm	4 x 50 to 5 x 16 mm ²	360 x 55 mm	0890 450 005	1
MU 6	23-48 mm	4 x 95 to 5 x 35 mm ²	430 x 108 mm	0890 450 006	1

DIN VDE 0278

Heat-shrink end cap

- Inside coated with hot-melt adhesive
- Good physical, chemical and thermal properties

Dielectric strength	12 kV/mm
Min./max. temperature conditions	-55 to 110 °C
Min. shrinkage temperature	120 °C
Min./max. elongation (after shrinking in %)	-10-15 %
Ultraviolet resistance	Yes
Material	Polyolefin



Type	Suitable for cable diameter	Diameter (D)	Diameter (shrunk)	Length (shrunk)	Art. no.	P. Qty.
12/4	4 - 8 mm	12 mm	4 mm	38 mm	0975 301 101	10
20/7.5	8 - 16 mm	20 mm	7.5 mm	55 mm	0975 301 102	5
40/15	16 - 35 mm	40 mm	15 mm	90 mm	0975 301 103	3
55/25	25 - 47 mm	55 mm	25 mm	125 mm	0975 301 104	3
75/35	35 - 68 mm	75 mm	35 mm	140 mm	0975 301 105	1
100/45	45 - 90 mm	100 mm	45 mm	160 mm	0975 301 106	1
130/60	64 - 120 mm	130 mm	60 mm	160 mm	0975 301 107	1

Heat-shrink connection set 0.6/1 kV

Narrow design

Low space requirements

Protects against moisture and mechanical damage

Good physical, chemical and thermal properties

Dielectric strength	20 kV/mm
Min. shrinkage temperature	120 °C



Min./max. elongation (after shrinking in %)	-10-1 %
Ultraviolet resistance	Yes
Material	Polyolefin

Number of strands	Min./max. wire cross section	Design	Min./max. temperature conditions	Art. no.	P. Qty.
4 PCS	1.5-10 mm ²	Without connectors	-55 to 110 °C	0975 300 10	1
4 PCS	2.5-16 mm ²	Without connectors	-55 to 105 °C	0975 300 161	1
4 PCS	2.5-16 mm ²	Without connectors	-55 to 110 °C	0975 300 16	1
4 PCS	6-25 mm ²	Without connectors	-55 to 110 °C	0975 300 25	1
4 PCS	25-50 mm ²	Without connectors	-55 to 110 °C	0975 300 50	1
5 PCS	1.5-6 mm ²	Without connectors	-55 to 105 °C	0975 300 06	1
5 PCS	1.5-6 mm ²	With screw connector	-55 to 110 °C	0975 300 506	1
5 PCS	2.5-16 mm ²	With screw connector	-55 to 110 °C	0975 300 516	1
5 PCS	10-35 mm ²	Without connectors	-55 to 110 °C	0975 300 35	1
5 PCS	10-35 mm ²	With screw connector	-55 to 110 °C	0975 300 535	1

Tested in accordance with DIN VDE 0278 Part 1/2 and Part 3/2

Thin-walled heat-shrink hose

Shrink rate 3:1, with internal adhesive

Flame-retardant (not adhesive)



Dielectric strength	20 kV/mm
Min./max. temperature conditions	-55 to 85 °C
Min. shrinkage temperature	120 °C
Material	Polyolefin
Flame-retardant	Yes

Colour	Diameter	Diameter (shrunk)	Length	Sleeve-wall thickness when shrunk	Art. no.	P. Qty.
Black	3 mm	1 mm	1000 mm	1 mm	0771 003 202	10
Black	6 mm	2 mm	1000 mm	1.2 mm	0771 006 402	10
Black	12 mm	4 mm	1000 mm	1.35 mm	0771 012 702	5
Black	24 mm	8 mm	1000 mm	2.2 mm	0771 025 402	5
Grey	3 mm	1 mm	100 mm	1 mm	0771 003 200	50
Grey	3 mm	1 mm	1000 mm	1 mm	0771 003 201	10
Grey	6 mm	2 mm	100 mm	1.2 mm	0771 006 400	50
Grey	6 mm	2 mm	1000 mm	1.2 mm	0771 006 401	10
Grey	12 mm	4 mm	100 mm	1.35 mm	0771 012 700	25
Grey	12 mm	4 mm	1000 mm	1.35 mm	0771 012 701	5
Grey	24 mm	8 mm	100 mm	2.2 mm	0771 025 400	25
Grey	24 mm	8 mm	1000 mm	2.2 mm	0771 025 401	5

Thin-walled heat-shrink hose

Shrink rate 2:1 without internal adhesive

Length: 100 mm



Colour	Black
Length	100 mm
Dielectric strength	20 kV/mm
Min./max. temperature conditions	-55 to 135 °C
Min. shrinkage temperature	90 °C
Material	Polyolefin
Flame-retardant	Yes

Diameter	Diameter (shrunk)	Sleeve-wall thickness when shrunk	Art. no.	P. Qty.
2.4 mm	1.2 mm	0.43 mm	0771 002 40	50
3.2 mm	1.6 mm	0.43 mm	0771 003 20	50
4.8 mm	2.4 mm	0.43 mm	0771 004 80	50
6.4 mm	3.2 mm	0.56 mm	0771 006 40	50
9.5 mm	4.8 mm	0.56 mm	0771 009 50	25
12.7 mm	6.4 mm	0.56 mm	0771 012 70	25
19 mm	9.5 mm	0.69 mm	0771 019 00	25
25.4 mm	12.7 mm	0.76 mm	0771 025 40	25

UL 224



ELMO® heat-shrink hose, thick-walled 0.6/1 kV

Shrink rate 6:1 for a broad range of uses

- Inside coated with hot-melt adhesive
- Good physical, chemical and thermal properties

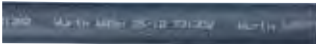


Length	1200 mm
Dielectric strength	20 kV/mm
Min./max. temperature conditions	-55 to 110 °C
Min. shrinkage temperature	120 °C
Change in length (after shrinking, in %)	-10 - 1%
Ultraviolet resistance	Yes
Material	Polyolefin
Halogen-free	Yes
Silicone-free	Yes

Type	Diameter (D)	Diameter (shrunk)	Sleeve-wall thickness when shrunk	Art. no.	P. Qty.
19/3.2	19 mm	3.2 mm	3.2 mm	0975 305 201	3
33/5.5	33 mm	5.5 mm	3.4 mm	0975 305 202	3
44.4/7.4	44.4 mm	7.4 mm	3.6 mm	0975 305 203	3

Heat-shrink hose, medium-walled 0.6/1 kV

- Inside coated with hot-melt adhesive
- Good physical, chemical and thermal properties



Length	1000 mm
Dielectric strength	20 kV/mm
Min./max. temperature conditions	-55 to 125 °C
Min. shrinkage temperature	125 °C
Min./max. elongation (after shrinking in %)	-10-10 %
Ultraviolet resistance	Yes
Material	Polyolefin
Halogen-free	Yes
Silicone-free	Yes

Type	Diameter (D)	Diameter (shrunk)	Sleeve-wall thickness when shrunk	Art. no.	P. Qty.
10/3	10 mm	3 mm	1.7 mm	0975 305 101	5
16/5	16 mm	5 mm	2.2 mm	0975 305 102	3
25/8	25 mm	8 mm	2.5 mm	0975 305 103	3
40/12	40 mm	12 mm	2.5 mm	0975 305 104	3
55/16	55 mm	16 mm	2.7 mm	0975 305 105	2
75/22	75 mm	22 mm	3 mm	0975 305 107	1
95/25	95 mm	25 mm	3 mm	0975 305 109	1
115/34	115 mm	34 mm	3 mm	0975 305 110	1



Thin-walled heat-shrink hose

Without internal adhesive

On cardboard core for ORSY® 10 dispenser system

UL 224 (except transparent variant)

Dielectric strength	20 kV/mm
Min./max. shrinkage temperature	90 to 200 °C
Material	Polyolefin
Flame-retardant	Yes

Colour	Diameter	Diameter (shrunk)	Sleeve-wall thickness when shrunk	Min./max. temperature conditions	Art. no.	P. Qty.
Black	1.2 mm	0.6 mm	0.33 mm	-55 to 125 °C	0771 801 2	10
Black	1.6 mm	0.8 mm	0.36 mm	-55 to 125 °C	0771 801 6	10
Black	2.4 mm	1.2 mm	0.43 mm	-55 to 125 °C	0771 802 4	10
Black	2.5 mm	0.8 mm	0.43 mm	-55 to 125 °C	0771 802 43	10
Black	3.2 mm	1.6 mm	0.43 mm	-55 to 125 °C	0771 803 2	10
Black	4.8 mm	2.4 mm	0.43 mm	-55 to 125 °C	0771 804 8	10
Black	4.8 mm	1.5 mm	0.51 mm	-55 to 135 °C	0771 804 83	10
Black	6.4 mm	3.2 mm	0.56 mm	-55 to 125 °C	0771 806 4	5
Black	9.5 mm	4.8 mm	0.56 mm	-55 to 125 °C	0771 809 5	5
Black	9 mm	3 mm	0.68 mm	-55 to 135 °C	0771 809 53	5
Black	12.7 mm	6.4 mm	0.56 mm	-55 to 125 °C	0771 812 7	5

Colour	Diameter	Diameter (shrunk)	Sleeve-wall thickness when shrunk	Min./max. temperature conditions	Art. no.	P. Qty.
Black	19.1 mm	9.5 mm	0.69 mm	-55 to 125 °C	0771 819 0	5
Black	19 mm	6 mm	0.77 mm	-55 to 135 °C	0771 819 03	5
Black	25.4 mm	12.7 mm	0.76 mm	-55 to 125 °C	0771 825 4	5
Black	38.1 mm	19 mm	0.86 mm	-55 to 125 °C	0771 838 1	5
Black	39 mm	13 mm	0.86 mm	-55 to 135 °C	0771 838 13	5
Black	50.8 mm	25.4 mm	0.97 mm	-55 to 125 °C	0771 850 8	5
Blue	3.2 mm	1.6 mm	0.43 mm	-55 to 125 °C	0771 870 032	10
Blue	6.4 mm	3.2 mm	0.56 mm	-55 to 125 °C	0771 870 064	5
Blue	12.7 mm	6.4 mm	0.56 mm	-55 to 125 °C	0771 870 127	5
Blue	25.4 mm	12.7 mm	0.76 mm	-55 to 125 °C	0771 870 254	5
Red	3.2 mm	1.6 mm	0.43 mm	-55 to 125 °C	0771 871 032	10
Red	6.4 mm	3.2 mm	0.56 mm	-55 to 125 °C	0771 871 064	5
Red	12.7 mm	6.4 mm	0.56 mm	-55 to 125 °C	0771 871 127	5
Red	25.4 mm	12.7 mm	0.76 mm	-55 to 125 °C	0771 871 254	5
Yellow	3.2 mm	1.6 mm	0.43 mm	-55 to 125 °C	0771 872 032	10
Yellow	6.4 mm	3.2 mm	0.56 mm	-55 to 125 °C	0771 872 064	5
Yellow	12.7 mm	6.4 mm	0.56 mm	-55 to 125 °C	0771 872 127	5
Yellow	25.4 mm	12.7 mm	0.76 mm	-55 to 125 °C	0771 872 254	5
White	3.2 mm	1.6 mm	0.43 mm	-55 to 125 °C	0771 873 032	10
White	6.4 mm	3.2 mm	0.56 mm	-55 to 125 °C	0771 873 064	5
White	12.7 mm	6.4 mm	0.56 mm	-55 to 125 °C	0771 873 127	5
White	25.4 mm	12.7 mm	0.76 mm	-55 to 125 °C	0771 873 254	5
Green, Yellow	3.2 mm	1.6 mm	0.43 mm	-55 to 125 °C	0771 874 032	10
Green, Yellow	6.4 mm	3.2 mm	0.56 mm	-55 to 125 °C	0771 874 064	5
Green, Yellow	12.7 mm	6.4 mm	0.56 mm	-55 to 125 °C	0771 874 127	5
Green, Yellow	25.4 mm	12.7 mm	0.76 mm	-55 to 125 °C	0771 874 254	5
Transparent	3.2 mm	1.6 mm	0.43 mm	-55 to 125 °C	0771 875 032	10
Transparent	6.4 mm	3.2 mm	0.56 mm	-55 to 125 °C	0771 875 064	5
Transparent	12.7 mm	6.4 mm	0.56 mm	-55 to 125 °C	0771 875 127	5
Transparent	25.4 mm	12.7 mm	0.76 mm	-55 to 125 °C	0771 875 254	5

Thin-walled heat-shrink hose

Heat-shrink tubing with no internal adhesive coating

- Shrink rate 2:1
- Large reel Ø 390 mm

Colour	Black
Dielectric strength	20 kV/mm
Min./max. temperature conditions	-55 to 125 °C
Material	Polyolefin
Flame-retardant	Yes



Diameter	Diameter (shrunk)	Sleeve-wall thickness when shrunk	Min./max. shrinkage temperature	Length	Art. no.	P. Qty.
2.4 mm	1.2 mm	0.43 mm	90 to 200 °C	150 m	0771 790 001	150
3.2 mm	1.6 mm	0.43 mm	90 to 200 °C	150 m	0771 790 002	150
4.8 mm	2.4 mm	0.43 mm	90 to 200 °C	75 m	0771 790 003	75
6.4 mm	3.2 mm	0.56 mm	90 to 200 °C	75 m	0771 790 004	75
9.5 mm	4.8 mm	0.56 mm	90 to 200 °C	50 m	0771 790 005	50

Continuation **Thin-walled heat-shrink hose**

Diameter	Diameter (shrunk)	Sleeve-wall thickness when shrunk	Min./max. shrinkage temperature	Length	Art. no.	P. Qty.
12.7 mm	6.4 mm	0.56 mm	90 to 200 °C	50 m	0771 790 006	50
19.1 mm	9.5 mm	0.69 mm	90 to 200 °C	25 m	0771 790 007	25
25.4 mm	12.7 mm	0.76 mm	90 to 200 °C	25 m	0771 790 008	25
51 mm	25.4 mm	0.97 mm			0771 790 010	50

UL 224



Thin-walled heat-shrink hose

Shrink rate 2:1 without internal adhesive

Dispenser: 175 x 165 x 35 mm

Dielectric strength	20 kV/mm
Min./max. shrinkage temperature	90 to 200 °C
Material	Polyolefin
Flame-retardant	Yes



Colour	Diameter	Diameter (shrunk)	Sleeve-wall thickness when shrunk	Min./max. temperature conditions	Art. no.	P. Qty.
Black	1.6 mm	0.8 mm	0.36 mm	-55 to 125 °C	0771 750 001	10
Black	2.4 mm	1.2 mm	0.43 mm	-55 to 125 °C	0771 750 002	10
Black	3.2 mm	1.6 mm	0.43 mm	-55 to 125 °C	0771 750 003	10
Black	4.8 mm	2.4 mm	0.43 mm	-55 to 125 °C	0771 750 004	10
Black	6.4 mm	3.2 mm	0.56 mm	-55 to 125 °C	0771 750 005	5
Black	9.5 mm	4.8 mm	0.56 mm	-55 to 125 °C	0771 750 006	5
Black	12.7 mm	6.4 mm	0.56 mm	-55 to 125 °C	0771 750 007	5
Black	19.1 mm	9.5 mm	0.69 mm	-55 to 125 °C	0771 750 008	5
Black	25.4 mm	12.7 mm	0.76 mm	-55 to 125 °C	0771 750 009	5
Blue	1.6 mm	0.8 mm	0.36 mm	-55 to 135 °C	0771 750 011	10
Blue	2.4 mm	1.2 mm	0.43 mm	-55 to 135 °C	0771 750 012	10
Blue	3.2 mm	1.6 mm	0.43 mm	-55 to 135 °C	0771 750 013	10
Blue	4.8 mm	2.4 mm	0.43 mm	-55 to 135 °C	0771 750 014	10
Blue	6.4 mm	3.2 mm	0.56 mm	-55 to 135 °C	0771 750 015	5
Blue	9.5 mm	4.8 mm	0.56 mm	-55 to 135 °C	0771 750 016	5
Blue	12.7 mm	6.4 mm	0.56 mm	-55 to 135 °C	0771 750 017	5
Blue	19 mm	9.5 mm	0.69 mm	-55 to 135 °C	0771 750 018	5
Blue	25.4 mm	12.7 mm	0.76 mm	-55 to 135 °C	0771 750 019	5
Red	1.6 mm	0.8 mm	0.36 mm	-55 to 135 °C	0771 750 021	10
Red	2.4 mm	1.2 mm	0.43 mm	-55 to 135 °C	0771 750 022	10
Red	3.2 mm	1.6 mm	0.43 mm	-55 to 135 °C	0771 750 023	10
Red	4.8 mm	2.4 mm	0.43 mm	-55 to 125 °C	0771 750 024	10
Red	6.4 mm	3.2 mm	0.56 mm	-55 to 125 °C	0771 750 025	5
Red	9.5 mm	4.8 mm	0.56 mm	-55 to 125 °C	0771 750 026	5
Red	12.7 mm	6.4 mm	0.56 mm	-55 to 125 °C	0771 750 027	5

Colour	Diameter	Diameter (shrunk)	Sleeve-wall thickness when shrunk	Min./max. temperature conditions	Art. no.	P. Qty.
Red	19 mm	9.5 mm	0.69 mm	-55 to 125 °C	0771 750 028	5
Red	25.4 mm	12.7 mm	0.76 mm	-55 to 125 °C	0771 750 029	5
Yellow	1.6 mm	0.8 mm	0.36 mm	-55 to 135 °C	0771 750 031	10
Yellow	2.4 mm	1.2 mm	0.43 mm	-55 to 135 °C	0771 750 032	10
Yellow	3.2 mm	1.6 mm	0.43 mm	-55 to 135 °C	0771 750 033	10
Yellow	4.8 mm	2.4 mm	0.43 mm	-55 to 135 °C	0771 750 034	10
Yellow	6.4 mm	3.2 mm	0.56 mm	-55 to 135 °C	0771 750 035	5
Yellow	9.5 mm	4.8 mm	0.56 mm	-55 to 135 °C	0771 750 036	5
Yellow	12.7 mm	6.4 mm	0.56 mm	-55 to 135 °C	0771 750 037	5
Yellow	19 mm	9.5 mm	0.69 mm	-55 to 135 °C	0771 750 038	5
Yellow	25.4 mm	12.7 mm	0.76 mm	-55 to 135 °C	0771 750 039	5
White	1.6 mm	0.8 mm	0.36 mm	-55 to 135 °C	0771 750 041	10
White	2.4 mm	1.2 mm	0.43 mm	-55 to 135 °C	0771 750 042	10
White	3.2 mm	1.6 mm	0.43 mm	-55 to 135 °C	0771 750 043	10
White	4.8 mm	2.4 mm	0.43 mm	-55 to 135 °C	0771 750 044	10
White	6.4 mm	3.2 mm	0.56 mm	-55 to 135 °C	0771 750 045	5
White	9.5 mm	4.8 mm	0.56 mm	-55 to 135 °C	0771 750 046	5
White	12.7 mm	6.4 mm	0.56 mm	-55 to 135 °C	0771 750 047	5
White	19 mm	9.5 mm	0.69 mm	-55 to 135 °C	0771 750 048	5
White	25.4 mm	12.7 mm	0.76 mm	-55 to 135 °C	0771 750 049	5
Green, Yellow	1.6 mm	0.8 mm	0.36 mm	-55 to 135 °C	0771 750 051	10
Green, Yellow	2.4 mm	1.2 mm	0.43 mm	-55 to 135 °C	0771 750 052	10
Green, Yellow	3.2 mm	1.6 mm	0.43 mm	-55 to 135 °C	0771 750 053	10
Green, Yellow	4.8 mm	2.4 mm	0.43 mm	-55 to 135 °C	0771 750 054	10
Green, Yellow	6.4 mm	3.2 mm	0.56 mm	-55 to 135 °C	0771 750 055	5
Green, Yellow	9.5 mm	4.8 mm	0.56 mm	-55 to 135 °C	0771 750 056	5
Green, Yellow	12.7 mm	6.4 mm	0.56 mm	-55 to 135 °C	0771 750 057	5
Green, Yellow	19 mm	9.5 mm	0.69 mm	-55 to 135 °C	0771 750 058	5
Green, Yellow	25.4 mm	12.7 mm	0.76 mm	-55 to 135 °C	0771 750 059	5
Green	1.6 mm	0.8 mm	0.36 mm	-55 to 135 °C	0771 750 061	10
Green	2.4 mm	1.2 mm	0.43 mm	-55 to 135 °C	0771 750 062	10
Green	3.2 mm	1.6 mm	0.43 mm	-55 to 135 °C	0771 750 063	10
Green	4.8 mm	2.4 mm	0.43 mm	-55 to 135 °C	0771 750 064	10
Green	6.4 mm	3.2 mm	0.56 mm	-55 to 135 °C	0771 750 065	5
Green	9.5 mm	4.8 mm	0.56 mm	-55 to 135 °C	0771 750 066	5
Green	12.7 mm	6.4 mm	0.56 mm	-55 to 135 °C	0771 750 067	5
Green	19 mm	9.5 mm	0.69 mm	-55 to 135 °C	0771 750 068	5
Green	25.4 mm	12.7 mm	0.76 mm	-55 to 135 °C	0771 750 069	5
Orange	1.6 mm	0.8 mm	0.36 mm	-55 to 135 °C	0771 750 071	10
Orange	2.4 mm	1.2 mm	0.43 mm	-55 to 135 °C	0771 750 072	10
Orange	3.2 mm	1.6 mm	0.43 mm	-55 to 135 °C	0771 750 073	10
Orange	4.8 mm	2.4 mm	0.43 mm	-55 to 135 °C	0771 750 074	10
Orange	6.4 mm	3.2 mm	0.56 mm	-55 to 135 °C	0771 750 075	5
Orange	9.5 mm	4.8 mm	0.56 mm	-55 to 135 °C	0771 750 076	5
Orange	12.7 mm	6.4 mm	0.56 mm	-55 to 135 °C	0771 750 077	5
Orange	19 mm	9.5 mm	0.69 mm	-55 to 135 °C	0771 750 078	5
Orange	25.4 mm	12.7 mm	0.76 mm	-55 to 135 °C	0771 750 079	5



PVC insulating hose

Very good UV, ozone, hydrolysis and microbe resistance

Flame-retardant, self-extinguishing



Min./max. temperature resistance	-40 to 90 °C
Flammability	Self-extinguishing in accordance with UL94 V2
Dielectric strength	10 kV/mm
Colour	Black
Material	PVC - Polyvinyl chloride
Silicone-free	Yes

Internal diameter	Wall thickness	Art. no.	P. Qty.
3 mm	0.4 mm	0771 3	25
4 mm	0.5 mm	0771 4	25
5 mm	0.6 mm	0771 5	25
6 mm	0.6 mm	0771 6	25
8 mm	0.7 mm	0771 8	25
10 mm	0.7 mm	0771 10	25
12 mm	0.8 mm	0771 12	25
14 mm	1 mm	0771 14	25
16 mm	1 mm	0771 16	25
18 mm	1 mm	0771 18	25
20 mm	1.2 mm	0771 20	25

In accordance with EN 60684

Pipe bushing Vario

Universal seal in stainless steel for pipes and cables. Stainless steel with super-segment ring technology in robust rubber. Seals off new pipes/cables to be installed as well as those already installed.



- Universal application and easy to adjust thanks to super-segment ring technology
- Integrated torque check
- U-profile for maximum stability
- Segments linked with membrane skin.
- Tear-off edge for simple segment removal
- Blind plug included

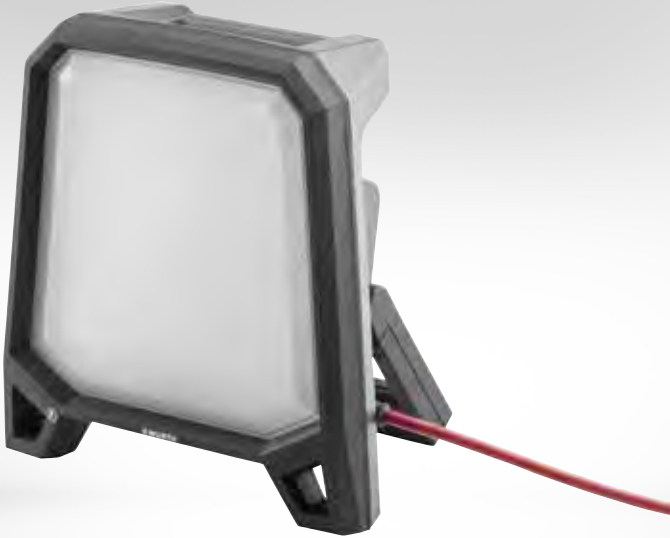
Max. pressure	1 bar
Material of the profile	Stainless steel A2
Material of the screw	Stainless steel A2
Material of the rubber profile	EPDM

Suitable for pipe diameter	Suitable for core-drilled holes/ pipe linings	Art. no.	P. Qty.
18 - 65 (12 different diameters)	100 mm	0544 020 001	1
75 mm/90 mm/110 mm	150 mm	0544 020 002	1
110 mm/125 mm/135 mm/160 mm	200 mm	0544 020 003	1

Test for water tightness

(Kiwa test report A 9091-7a/2010) and impermeability to gas

(Kiwa test report A 9026-2 / 2011).



LED working lamp Powerquad

Soft, pleasant and low-shadow light for effortless work.

- LED panel with highly efficient SMD LEDs (> 130 lm/W)
- Wide-beam glare-reduced light thanks to opal cover
- 6-way adjustable beam angle
- Made in Germany

Design	Light switch, 2 sockets (max. 3 kW)
Colour temperature	5000 K
IP protection class	IP 54
Impact resistance	IK08
Cable type	H07BQ-F3G1.5 mm ²
Power-lead length	5 m

Luminous flux	Lamp light power	Art. no.	P. Qty.
4000 lm	5300 lm	0981 180 501	1
8000 lm	10600 lm	0981 180 502	1

LED work lamp MINI

Soft, pleasant and low-shadow light for effortless work

- LED panel with highly efficient SMD LEDs (> 90 lm/W)
- Low power consumption
- No warm-up and pre-heating time
- Made in Germany



Luminous flux	2800 lm
Lamp light power	3100 lm
Colour temperature	5000 K
IP protection class	IP 54
Impact resistance	IK08
Power-lead length	2.5 m

Design	Cable type	Art. no.	P. Qty.
	H07BQ-F2x1 mm ²	0981 180 020	1
Light switch, 2 sockets (max. 2 kW), pressure compensating valve	H07BQ-F3G1.5 mm ²	0981 180 021	1



LED work lamp, 360°

Soft, pleasant and low-shadow light for effortless work.

- LED panel with highly efficient SMD LEDs (> 130 lm/W)
- Low power consumption
- No warm-up and pre-heating time
- Made in Germany



Design	1 socket (max. 3 kW)
Luminous flux	3600 lm
Lamp light power	4200 lm
Colour temperature	5000 K
IP protection class	IP 54
Impact resistance	IK08
Cable type	H07BQ-F3G1.5 mm ²
Power-lead length	5 m

Art. no. 0981 180 900

P. Qty.: 1



LED Flashpad Step

The **FLASHPAD STEP** ground light panel uses cutting-edge LED light technology. The ground light panel is primarily used for working on cars on a lifting platform.



- Luminous flux can be optimally adapted to the respective working conditions (infinitely variable brightness control)
- Glare- and shadow-free work light for increased work safety and fatigue-free work
- Made in Austria

Luminous flux	9000 lm
Colour temperature	6000 K
IP protection type, lamp	IP 67
IP protection type, control unit	IP 65
Cable type	H05VV-F3G1.5 mm ²
Cable type 2	Special-TPE 2x0,5 mm ²
Power-lead length	5 m

Art. no. 0981 300 010

P. Qty.: 1

LED work lamp DCM

Daylight lamp – switch the colour temperature from **warm white (4,500 Kelvin)** for light surfaces, to **cold white (6,500 Kelvin)** for dark surfaces



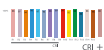
- 5-level lighting: 500-5000 lumen
- COB LED technology
- Adjustable beam angle, for use with roller stand

Min. colour rendering index (CRI)	96
Luminous flux	5000 lm
Colour temperature	4500 K
Colour temperature 2	6500 K
IP protection class	IP 67
Cable type	H05RN-F3G1 mm ²
Power-lead length	5 m

Art. no. 0981 181 119

P. Qty.: 1

CRI+ colour rendering index (average of all 15 R values) for precise and reliable colour rendering



POWERDISK LED wide-area light 360° 50,000 lumen

Downward and upward lighting (ceiling lighting) possible. Infinitely adjustable dimming.

- Opalescent cover for a comfortable brightness level with reduced glare
- Passive, non-wearing cooling technology (maintenance free)
- Housing: aluminium/stainless steel, cover: polycarbonate



Design	Taster dimmer infinitely variable (1-100 %)
Luminous flux	50000 lm
Lamp light power	62000 lm
Colour temperature	5000 K
IP protection class light exit downwards	IP 65
IP protection class light exit to the top	IP 63
Impact resistance	IK10
Cable type	H07BQ-F3G1,5 mm ² /5G1 mm ²
Power-lead length	10 m

Art. no. 0981 180 801

P. Qty.: 1

LED wide-area light WGL 2 360° 80,000 lumen

Light segments can be switched on and off individually (360°/180°). Infinitely adjustable dimming.

- LED panel with 4 highly efficient Xpect2 LED modules (approx. 140 lm/W)
- Quick one-man assembly
- Low wind load



Design	Switchbox (1-100%)
Luminous flux	80000 lm
Lamp light power	90000 lm
Colour temperature	5000 K
IP protection type, lamp	IP 67
IP protection type, control unit	IP 65
Impact resistance	IK10
Cable type	Ölflex 540 P 3G1,5 mm ² /7G0,75 mm ²
Power-lead length	8 m

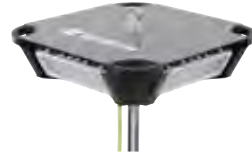
Art. no. 0981 180 851

P. Qty.: 1

WGL 1 LED wide-area light 360° 40000 lumen

Light segments can be switched on and off individually (360°/180°). Infinitely adjustable dimming.

- LED panel with 4 highly efficient Xpect2 LED modules (approx. 140 lm/W)
- Quick one-man assembly
- Low wind load



Design	Switchbox (1-100%)
Luminous flux	40000 lm
Lamp light power	45000 lm
Colour temperature	5000 K
IP protection type, lamp	IP 67
IP protection type, control unit	IP 65
Impact resistance	IK10
Cable type	Ölflex 540 P 3G1,5 mm ² /7G0,75 mm ²
Power-lead length	8 m

Art. no. 0981 180 841

P. Qty.: 1

Tripod for work lamps

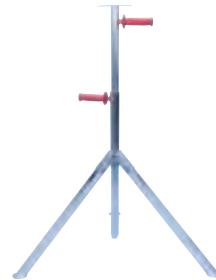
With two-way, continuous height adjustment

- Three legs for stable, firm positioning
- Folding and telescopic

Min./max. height	100-240 cm
Material	Steel pipe

Art. no. 0981 100 1

P. Qty.: 1



Elevator tripod for work lamps

Self-braking coupling, folding crank handle

- For accommodating 16- and 28-mm pins
- Height infinitely adjustable
- Can slide or fold together, stable and secure footing thanks to three legs (one foot is adjustable to compensate for uneven terrain)

Min./max. height	174-380 cm
Material	Steel pipe

Art. no. 0981 102 1

P. Qty.: 1



LED hand-held lamp WLH 20

Soft, pleasant and low-shadow light for effortless work

- No need to change the bulb
- Lower power consumption
- No warm-up and pre-heating time
- Resistant to oil, petrol and UV radiation
- Made in Germany



Luminous flux	620 lm
IP protection class	IP 64
Impact resistance	IK08
Protection class	Protection class II/protective insulation
Min./max. nominal voltage	220/240 V/AC
Min./max. frequency	50/60 Hz
Cable type	H05BQ-F2x1 mm ²
Power-lead length	5 m

Art. no. 0981 742

P. Qty.: 1



LED hand-held lamp WLH 6

Soft, pleasant and low-shadow light for effortless work

- No warm-up and pre-heating time
- Resistant to oil, petrol and UV radiation
- Made in Germany



Luminous flux	500 lm
IP protection class	IP 64
Impact resistance	IK07
Protection class	Protection class II/protective insulation
Min./max. nominal voltage	220/240 V/AC
Min./max. frequency	50/60 Hz
Cable type	H05BQ-F2x1 mm ²
Power-lead length	5 m

Art. no. 0981 736

P. Qty.: 1

LED electronic engine compartment hand-held lamp

With self-clamping, quick-fastening attachment

- Suitable for bonnets 110 - 190 cm wide
- Optimum protection against cable breakage
- Resistant to oil and petrol



Luminous flux	1590 lm
IP protection class	IP 64
Impact resistance	IK08
Protection class	Protection class II/protective insulation
Min./max. nominal voltage	220/240 V/AC
Min./max. frequency	50/60 Hz
Cable type	H05BQ-F2x1 mm ²
Power-lead length	5 m

Art. no. 0981 750

P. Qty.: 1

Rechargeable work lamp and emergency power lamp EX SLE 15

Continuous, flashing and emergency lamp function

- With emergency light function
- 110° swivelling lamp head
- Robust and impact-resistant plastic housing



Luminous flux	60 lm
Lighting range	200 m
Lamp type of main lamp	Xenon
Luminous period of main light	4 h
Lamp type of pilot lamp	LED
Luminous period of pilot light	85 h
Charging time	15 h
IP protection type, lamp	IP 64
IP protection type charger	IP 20

Art. no. 0827 820 110

P. Qty.: 1

Ex II 2 G Ex ib II CT4 / II 2 D Ex ibD 21 T 135 °C



Battery-powered LED hand-held lamp, WLH 30 Premium

Stripe LED 2.5 W

State-of-the-art lithium polymer battery technology

Short charging time; lamp can be used for long periods

Number of LEDs

- 1 x 2.5-W LED strip
- 1 x indicator light – shows when the lamp needs to be charged

Luminous flux	200 lm
Luminous period	5 h
Charging time	3 h
Impact resistance	IK07
IP protection type, lamp	IP 65
IP protection type charger	IP 20
Nominal voltage	7.4 V/DC
Rechargeable battery/battery capacity	2200 mAh

Art. no. 0827 940 130

P. Qty.: 1



Battery-powered LED hand-held lamp, WLH 1+1 Premium

Stripe LED 1.2 W

State-of-the-art lithium polymer battery technology

Short charging time; lamp can be used for long periods

Number of LEDs

- 1 x 1.2-W LED strip
- 1 x 1-W LED (for torch function)
- 1 x indicator light – shows when the lamp needs to be charged

Luminous flux main light	90 lm
Luminous flux side light	80 lm
Luminous period of main light	5 h
Luminous period of secondary light	5.5 h
Charging time	3 h
Impact resistance	IK07
IP protection type, lamp	IP 65
IP protection type charger	IP 20
Nominal voltage	3.7 V/DC
Rechargeable battery/battery capacity	1800 mAh

Art. no. 0827 940 111

P. Qty.: 1



Cordless LED hand-held lamp WLH 1.2

Slimline design for confined spaces

Latest lithium polymer battery technology for short charging times and long-lasting performance

Number of LEDs

- 1 x COB LED 1.2 W
- 1 x LED (torch function)
- 1 x indicator light – shows when the lamp needs to be charged



Luminous flux main light	100 lm
Luminous flux side light	15 lm
Luminous period of main light	3 h
Luminous period of secondary light	24 h
Charging time	2.5 h
Impact resistance	IK07
IP protection type, lamp	IP 20
IP protection type charger	IP 20
Nominal voltage	3.7 V/DC
Rechargeable battery/battery capacity	1000 mAh

Art. no. 0827 940 112

P. Qty.: 1

Battery-powered hand-held lamp HL12-A

Small and very practical lithium-ion battery-powered hand-held lamp with high-performance LED. Battery capacity can be selected freely thanks to PICK YOUR POWER.

- 1 W power LED
- Light duration up to 350 min/Ah
- Ergonomic handling thanks to soft grip
- Quick and easy mounting thanks to belt clip
- Lithium-ion technology
- Compatible with all 10.8 V and 12 V battery-powered system products



Luminous period	350 min
Charging time	35 min
Nominal voltage	12 V/DC

Art. no. 5700 119 0

P. Qty.: 1

Battery-powered LED hand-held lamp WLH 1.3

Slimline design for confined spaces

State-of-the-art lithium polymer battery technology

Short charging time; lamp can be used for long periods

Number of LEDs

- 1 x COB LED 3 W
- 1 x LED (torch function)

Luminous flux main light	350 lm
Luminous flux side light	110 lm
Luminous period of main light	1.75 h
Luminous period of secondary light	4.5 h
Charging time	2 h
Impact resistance	IK07
IP protection type, lamp	IP 44
IP protection type charger	IP 20
Nominal voltage	3.7 V/DC
Rechargeable battery/battery capacity	1100 mAh



Art. no. 0827 940 113

P. Qty.: 1



Cordless LED hand-held lamp WLH 1.4

SMD LED 0.5 W

State-of-the-art lithium polymer battery technology

Short charging time; lamp can be used for long periods

Number of LEDs

- 6 x SMD-LED 0.5 W
- 1 x indicator light – shows when the lamp needs to be charged

Luminous flux	250 lm
Luminous period	5 h
Charging time	4 h
Impact resistance	IK07
IP protection type, lamp	IP 65
IP protection type charger	IP 20
Nominal voltage	3.7 V/DC
Rechargeable battery/battery capacity	2000 mAh

Art. no. 0827 940 114

P. Qty.: 1

WLH 1.5 cordless LED hand-held lamp

Slimline design for confined spaces. COB LED 5 W

State-of-the-art lithium polymer battery technology

Short charging time; lamp can be used for long periods

Number of LEDs

- 1 x COB LED 5 W
- 1 x 3-W LED (for torch function)
- 5 x green LEDs (remaining capacity display)

Luminous flux main light	600 lm
Luminous flux side light	120 lm
Luminous period of main light	2 h
Luminous period of secondary light	10 h
Charging time	4 h
Impact resistance	IK07
IP protection type, lamp	IP 54
IP protection type charger	IP 20
Nominal voltage	3.7 V/DC
Rechargeable battery/battery capacity	2600 mAh



Art. no. 0827 940 115

P. Qty.: 1

Battery-powered LED hand-held lamp WLH 1+1 AC/R

Rechargeable (R) lamp can be charged during mains operation (AC).

- Light can remain permanently connected to the mains
State-of-the-art lithium-ion battery technology and built-in overload protection enable simultaneous charging and operation.
- The light can be quickly and easily disconnected from the mains using a push button
Quick-release function

Luminous flux main light	365 lm
Luminous flux side light	150 lm
Colour temperature	6000 K
Luminous period of main light	4 h
Luminous period of secondary light	7 h
Charging time	3.5 h
Impact resistance	IK07
IP protection type, lamp	IP 54
IP protection type charger	IP 20
Nominal voltage	3.7 V/DC
Rechargeable battery/battery capacity	2600 mAh



Art. no. 0827 940 116

P. Qty.: 1

LED head lamp SL1

2 light functions (power, low power)

- 90° swivelling lamp head
- Infinitely dimmable light intensity and focussing



Min./max. luminous flux	5/120 lm
Lighting range min./max.	20/100 m
Min./max. luminous period	6-60 h
IP protection class	IP X4
Rechargeable battery/battery designation	Micro AAA; LR03; AM4
Number of rechargeable batteries/batteries	3 PCS

Art. no. 0827 809 100

P. Qty.: 1

LED head lamp Z0

Meets all ATEX requirements (2014/34/EU)

- ATEX category 1/CENELEC classification zone 0
- 3 light programs (low power, power, flash)
- Swivelling lamp head



Min./max. luminous flux	58/115 lm
Adjustable focus	No
Lighting range min./max.	43/61 m
Min./max. luminous period	8-16 h
IP protection class	IP 54
Rechargeable battery/battery designation	Micro AAA; LR03; AM4
Number of rechargeable batteries/batteries	3 PCS

Art. no. 0827 809 510

P. Qty.: 1

EX II 1 G Ex ia op is IIC T4...T3 Ga



LED head lamp High-Power SL2

2 light functions (power, low power)

- 90° swivelling lamp head
- Infinitely dimmable light intensity and focussing

Min./max. luminous flux	5/200 lm
Lighting range min./max.	20/120 m
Min./max. luminous period	4-60 h
IP protection class	IP X4
Rechargeable battery/battery designation	Micro AAA; LR03; AM4
Number of rechargeable batteries/batteries	3 PCS

Art. no. 0827 809 120

P. Qty.: 1



LED head lamp High-Power SL4

4 light functions (power, low power, boost, blink)

- 90° swivelling lamp head
- Infinitely dimmable light intensity and focussing
- 5 light functions
- Transportation lock
Prevents accidental activation of the light

Min./max. luminous flux	20/250 lm
Lighting range min./max.	50/160 m
Min./max. luminous period	5-30 h
IP protection class	IP X6
Rechargeable battery/battery designation	Micro AAA; LR03; AM4
Number of rechargeable batteries/batteries	4 PCS

Art. no. 0827 809 140

P. Qty.: 1



Battery-powered LED work lamp WLA 18.0

With two high-performance LED arrays for Würth machine batteries 18 V 4.0 Ah / 5.0 Ah.

- 2 x 10 W high-performance LED arrays
- Compact, robust design

Luminous flux	2750 lm
IP protection class	IP 20
Nominal voltage	230 V/AC
Rechargeable battery/battery capacity	4 Ah

Art. no. 0827 981 180

P. Qty.: 1



Battery-powered LED work lamp WLA 18.0 Compact

With one high-performance LED array for Würth machine batteries 18 V 4.0 Ah / 5.0 Ah.

- 1 x 10 W high-performance LED array
- Compact, robust design

Luminous flux	1200 lm
IP protection class	IP 20
Nominal voltage	230 V/AC
Rechargeable battery/battery capacity	4 Ah



Art. no. 0827 981 170

P. Qty.: 1



Battery-powered LED work lamp DCM

Daylight lamp — switch the colour temperature from warm white (4,500 Kelvin) for light surfaces, to cold white (6,500 Kelvin) for dark surfaces

- 2-in-1 dual system
can be powered with or without a charging cable (mains connection).
- Lithium-ion battery technology
Short charging time; lamp can be used for long periods

CRI+ colour rendering index (average of all 15 R values) for precise and reliable colour rendering

Min. colour rendering index (CRI)	96
Min./max. luminous flux	250/2500 lm
Colour temperature	4500 K
Colour temperature 2	6500 K
Min./max. luminous period	1-14 h
Charging time	2 h
Impact resistance	IK07
IP protection type, lamp	IP 67
IP protection type charger	IP 20
Nominal voltage	11.1 V/DC
Rechargeable battery/battery capacity	4400 mAh

Art. no. 0827 981 119

P. Qty.: 1

Cordless LED work lamp Sound

Small and compact work lamp with built-in speaker

- Lithium-ion battery technology
Short charging time; lamp can be used for long periods
- Wireless function
Simply connect the devices wirelessly and control the music from your mobile phone.



Min./max. luminous flux	300/600 lm
Colour temperature	6000 K
Min./max. luminous period	2.5-5 h
Charging time	5 h
Impact resistance	IK07
IP protection type, lamp	IP 65
IP protection type charger	IP 20
Nominal voltage	3.7 V/DC
Rechargeable battery/battery capacity	5200 mAh

Art. no. 0827 981 800

P. Qty.: 1

Cordless LED work lamp

Rechargeable (R) lamp can be charged during mains operation (AC). 5-level lighting: 200–4000 lumens

State-of-the-art lithium-ion battery technology and built-in overload protection enable simultaneous charging and operation

- Light can remain permanently connected to the mains
- The mains connection line can be quickly and easily disconnected from the light



Made in Germany

Min./max. luminous flux	200/4000 lm
Colour temperature	5000 K
Min./max. luminous period	1-10 h
Charging time	5 h
Impact resistance	IK08
IP protection type, lamp	IP 54
IP protection type charger	IP 44
Nominal voltage	10.8 V/DC
Rechargeable battery/battery capacity	2500 mAh

Art. no. 0827 981 501

P. Qty.: 1

Rechargeable LED head lamp High-Power SL4R

Dimmable and focusable

- 4 light programs
Low Power, Power, Boost, Blink
- 5 light functions
- 90° swivelling lamp head



Min./max. luminous flux	20/300 lm
Lighting range min./max.	50/160 m
Min./max. luminous period	4-30 h
Charging time	5 h
IP protection type, lamp	IP 56
IP protection type charger	IP 20
Nominal voltage	3.7 V/DC
Rechargeable battery/battery capacity	1400 mAh

Art. no. 0827 809 141

P. Qty.: 1

Battery-powered LED head lamp DCM

Daylight lamp — switch the colour temperature from warm white (4,500 Kelvin) for light surfaces, to cold white (6,500 Kelvin) for dark surfaces

- Sensor-controlled on/off
- 2-level lighting: 50% (80 lumens) and 100% (160 lumens)
- Wide beam



Min. colour rendering index (CRI)	96
Luminous flux	160 lm
Colour temperature	4500 K
Colour temperature 2	6500 K
Luminous period	2.5 h
Charging time	3 h
Impact resistance	IK07
IP protection type, lamp	IP 65
IP protection type charger	IP 20
Nominal voltage	3.8 V/DC
Rechargeable battery/battery capacity	1600 mAh

Art. no. 0827 809 119

P. Qty.: 1

CRI+ colour rendering index (average of all 15 R values) for precise and reliable colour rendering



Pre-charged NiMH battery

The advantages of NiMH batteries combined with the benefits of primary batteries

- Can be left for long standby periods of more than one year without recharging
- Suitable for use in devices with high and low power requirements (e. g. digital camera or wall clock)
- Not affected by weather conditions

Type of rechargeable battery/ battery	NiMH
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Rechargeable battery/battery designation	Nominal voltage	Rechargeable battery/battery capacity	Art. no.	P. Qty.
Micro AAA; R03; UM4	1.2 V/DC	800 mAh	0827 311	4
Mignon AA; R6; UM3	1.2 V/DC	2400 mAh	0827 312	4
Baby C; R14; UM2	1.2 V/DC	4500 mAh	0827 313	2
Mono D; R20; UM1	1.2 V/DC	8500 mAh	0827 314	2
E-Block; PP3; R22	8.4 V/DC	200 mAh	0827 315	1

Battery High Power

Battery power for energy-intensive applications

- High capacity combined with a long service life
- High-performance
- Very low level of self-discharge with a shelf life of five years

Type of rechargeable battery/ battery	Alkali
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Rechargeable battery/battery designation	Nominal voltage	Art. no.	P. Qty.
Micro AAA; LR03; AM4	1.5 V/DC	0827 111	4/60
Mignon AA; LR6; AM3	1.5 V/DC	0827 112	4/40
Baby C; LR14; AM2	1.5 V/DC	0827 113	2/10
Mono D; LR20; AM1	1.5 V/DC	0827 114	2/10
9 V block; E-block; 6LR61; 6AM6	9 V/DC	0827 115	1/20

Please consider the legal instruction at the beginning of this chapter.

Button cell Lithium 3V

Low level of self-dischargeLong shelf life of 10 years

Nominal voltage	3 V/DC
Type of rechargeable battery/ battery	Lithium



IEC designation for button-cell batteries	Diameter x height	Art. no.	P. Qty.
CR 1220 (DL 1220)	12.5 x 2 mm	0827 081 220	10/100
CR 1616 (DL 1616)	16 x 1.6 mm	0827 081 616	10/100
CR 1620 (DL 1620)	16 x 2 mm	0827 081 620	10/100
CR 1632 (DL 1632)	16 x 3.2 mm	0827 081 632	10/100
CR 2016 (DL 2016)	20 x 1.6 mm	0827 082 016	10/100
CR 2025 (DL 2025)	20 x 2.5 mm	0827 082 025	10/100
CR 2032 (DL 2032)	20 x 3.2 mm	0827 082 032	10/100
CR 2430 (DL 2430)	24 x 3 mm	0827 082 430	10/100
CR 2450 (DL 2450)	24 x 5 mm	0827 082 450	10/100

Please consider the legal instruction at the beginning of this chapter.

Button cell Alkaline manganese 1.5 V

Low level of self-dischargeLong shelf life of 3 years

Nominal voltage	1.5 V/DC
Type of rechargeable battery/ battery	AlMn



IEC designation for button-cell batteries	Diameter x height	Art. no.	P. Qty.
SR 41/LR 41 (V392;D392;A63)	7.9 x 3.6 mm	0827 08 392	10/100
SR 44/LR 44 (V 13 GS(V13 GA); V357; A76	11.6 x 5.4 mm	0827 08 13	10/100

Please consider the legal instruction at the beginning of this chapter.

Battery Alkaline manganese 12 V

Low level of self-discharge and long shelf life – of 3 years

Less temperature-sensitive and can be used for longer and under greater load without resulting in significant loss of voltage.

Nominal voltage	12 V/DC
Type of rechargeable battery/battery	AlMn

Art. no. 0827 08 23

P. Qty.: 10/100

Please consider the legal instruction at the beginning of this chapter.



Lithium battery

Can be used in virtually any device requiring a long operating period or high current drain (high current applications).

- Can be operated from -40°C to +60°C at full efficiency
- Extremely leak-proof
- 30% lighter than standard alkaline batteries
- Minimum self-discharge (excellent shelf life of over 10 years)
- Higher energy density for longer service life
- Very high current output

Type of rechargeable battery/battery	Lithium
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Rechargeable battery/battery designation	Nominal voltage	Art. no.	P. Qty.
3,0V CR123 A	3 V/DC	0827 08 123	10/100
Micro AAA; L92; FR03	1.5 V/DC	0827 000 010	2/40
Mignon AA; L91; FR6	1.5 V/DC	0827 000 020	2/28

Please consider the legal instruction at the beginning of this chapter.

Battery charger PRO 4

Includes pre-charged NiMH batteries (4 x AAA and 4 x AA)

- Enhanced safety for the user
- Suitable for use with conventional batteries
- Suitable for use on the go, wherever you are

Min./max. input voltage	100-240 V/AC
Input voltage 2	12 V/DC
Charging voltage per battery	1.45 V/DC
Zero-watt technology	No
Charging current at USB output	1000 mA
Maximum number of charging slots for AAA batteries	4 PCS



Charging current for AAA battery	450 mA
Maximum number of charging slots for AA batteries	4 PCS
Charging current for AA battery	450 mA
Safety timer	Yes
Display	LCD
Individual slot monitoring	Yes
Overload protection (trickle charging)	Yes
Rechargeable battery defect detection	Yes
Temperature monitoring	No
Automatic refresh function	No
Quick test for capacity	No
Length x width x height	105 x 65 x 27 mm
Voltage shutdown	Yes
Product weight (per item)	487 g
IP protection class	IP 20
Included in delivery (Lieferumfang)	4 x pre-charged NiMH batteries (AAA), 4 x pre-charged NiMH batteries (AA), 1 power plug 100-240 V/AC, 1 x vehicle power plug 12 V/DC, operating instructions

Art. no. 0827 405

P. Qty.: 1

Multifunctional charger Pro 5

This quick charger with up to 1,800 mA charging current is the perfect combination of charger and test station.

- USB charging function with an output of 5 V/1000 mA
- Individual battery charge level monitoring (individual bay monitoring)
- Multiple battery overcharge protections and battery care feature



Min./max. input voltage	100-240 V/AC
Input voltage 2	12 V/DC
Charging voltage per battery	1.45 V/DC
Zero-watt technology	No
Charging current at USB output	1000 mA
Maximum number of charging slots for AAA batteries	4 PCS
Charging current for AAA battery	450 mA
Maximum number of charging slots for AA batteries	4 PCS
Charging current for AA battery	450 mA
Maximum number of charging slots for C batteries	4 PCS
Charging current for C battery	400 mA
Maximum number of charging slots for D batteries	4 PCS
Charging current for D battery	400 mA

Continuation **Multifunctional charger Pro 5**

Maximum number of charging slots for 9-V block batteries	1 PCS
Charging current for 9-V block battery	15 mA
Safety timer	Yes
Display	LCD
Individual slot monitoring	Yes
Overload protection (trickle charging)	Yes
Rechargeable battery defect detection	Yes
Temperature monitoring	Yes
Automatic refresh function	Yes
Quick test for capacity	Yes
Length x width x height	170 x 140 x 55 mm
Voltage shutdown	Yes
Product weight (per item)	520 g
IP protection class	IP 20
Included in delivery (Lieferumfang)	1 x power plug 100-240 V/AC, 1 x vehicle power plug 12 V/DC, operating instructions

Art. no. 0827 400 5

P. Qty.: 1

LED pen light

Includes retaining clip

Flash light

Switched on via the retaining clip

Continuous light

Switched on via the rotary switch



Adjustable focus	No
IP protection class	IP 20
Rechargeable battery/battery designation	Micro AAA; LR03; AM4
Number of rechargeable batteries/batteries	2 PCS
Material of the housing	Aluminium

Art. no. 0827 500 006

P. Qty.: 1

Work lamp, mini

Switches on automatically when the lamp is unfolded

- Ultra compact: 19 x 6 x 3 cm when unfolded
- 18 LEDs
- Various attachment options
 - Magnetic clamp on the back
 - Folding hook that can be rotated 360°



Luminous flux	30 lm
IP protection class	IP 22
Rechargeable battery/battery designation	Mignon AA; LR6; AM3
Number of rechargeable batteries/batteries	3 PCS
Material of the housing	ABS
Length (opened out)	19 cm
Height (opened out)	3 cm
Width (opened out)	6 cm

Art. no. 0827 500 018

P. Qty.: 1

LED pocket torch 4AA ELED ZOOM Z0

Meets ATEX requirements (2014/34/EU)

- Robust design
- Consistent lighting capacity for 80% of the battery operating time
- ATEX category 1/CENELEC classification zone 0
 - Explosive atmosphere is frequently present (10–1000 hours per year)



Luminous flux	77 lm
Adjustable focus	No
Lighting range	100 m
IP protection class	IP 67
Rechargeable battery/battery designation	Mignon AA; LR6; AM3
Number of rechargeable batteries/batteries	4 PCS
Material of the housing	Plastic
Length x width x height	170 x 40 x 35 mm

Art. no. 0827 870 324

P. Qty.: 1

II 1G Ex ia op is IIC T4 Ga, II 1D Ex ia op is IIIC T75°C Da



LED pocket torch 2AAA Z1

Meets ATEX requirements (2014/34/EU)

- Robust and compact design
- ATEX category 2/CENELEC classification zone 1
Explosive atmosphere is frequently present (10-1000 hours per year)



Luminous flux	35 lm
Adjustable focus	No
Lighting range	60 m
IP protection class	IP 67
Rechargeable battery/battery designation	Micro AAA; LR03; AM4
Number of rechargeable batteries/batteries	2 PCS
Material of the housing	Plastic
Length x width x height	132 x 24 x 22 mm

Art. no. 0827 870 312

P. Qty.: 1

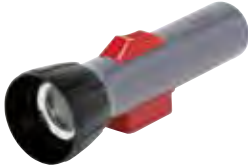
II 2G Ex ib IIB T4 Gb, II 2D Ex ib IIIC T60°C Db



LED torch, standard

With magnetic retainer

Luminous flux	15 lm
Adjustable focus	No
Lighting range	25 m
IP protection class	IP 40
Rechargeable battery/battery designation	Mono D; LR20; AM1
Number of rechargeable batteries/batteries	2 PCS
Material of the housing	Aluminium/plastic
Length x width x height	185 x 58 x 58 mm



Art. no. 0827 750

P. Qty.: 1

High-end power LED pocket torch WX1

25 m light range

- Reflector lens technology
Reflector + lens = a reflector lens for maximum light efficiency
- Hard-gold-plated contacts



Luminous flux	25 lm
Adjustable focus	Yes
Lighting range	25 m
IP protection class	IP 54
Rechargeable battery/battery designation	Micro AAA; LR03; AM4
Number of rechargeable batteries/batteries	1 PCS
Material of the housing	Aluminium

Art. no. 0827 806 501

P. Qty.: 1

High-end power LED torch WX2

25 m light range

- Reflector lens technology
Reflector + lens = a reflector lens for maximum light efficiency
- Hard-gold-plated contacts



Luminous flux	25 lm
Adjustable focus	Yes
Lighting range	25 m
IP protection class	IP 54
Rechargeable battery/battery designation	Micro AAA; LR03; AM4
Number of rechargeable batteries/batteries	2 PCS
Material of the housing	Aluminium

Art. no. 0827 806 502

P. Qty.: 1



High-end power LED pocket torch WX3

110 m light range

- One-handed sliding focusing mechanism
- Reflector lens technology
 - Reflector + lens = a reflector lens for maximum light efficiency
- Hard-gold-plated contacts

Luminous flux	120 lm
Adjustable focus	Yes
Lighting range	110 m
IP protection class	IP 54
Rechargeable battery/battery designation	Mignon AA; LR6; AM3
Number of rechargeable batteries/batteries	1 PCS
Material of the housing	Aluminium

Art. no. 0827 806 503

P. Qty.: 1

High-end power LED pocket torch WX4

150 m light range

- One-handed sliding focusing mechanism
- Reflector lens technology
Reflector + lens = a reflector lens for maximum light efficiency
- Hard-gold-plated contacts



Luminous flux	210 lm
Adjustable focus	Yes
Lighting range	150 m
IP protection class	IP 54
Rechargeable battery/battery designation	Micro AAA; LR03; AM4
Number of rechargeable batteries/batteries	3 PCS
Material of the housing	Aluminium

Art. no. 0827 806 504

P. Qty.: 1

High-end power LED pocket torch WX5

180 m light range

- One-handed sliding focusing mechanism
- Power switch technology
Power mode 100% + power-saving mode 15%
- Reflector lens technology
Reflector + lens = a reflector lens for maximum light efficiency
- Hard-gold-plated contacts



Luminous flux	300 lm
Adjustable focus	Yes
Lighting range	180 m
IP protection class	IP 54
Rechargeable battery/battery designation	Micro AAA; LR03; AM4
Number of rechargeable batteries/batteries	4 PCS
Material of the housing	Aluminium

Art. no. 0827 806 505

P. Qty.: 1

High-end power LED pocket torch WX6

220 m light range

- One-handed sliding focusing mechanism
- Power switch technology
Power mode 100% + power-saving mode 15%
- Reflector lens technology
Reflector + lens = a reflector lens for maximum light efficiency
- Hard-gold-plated contacts



Luminous flux	410 lm
Adjustable focus	Yes
Lighting range	220 m
IP protection class	IP 54
Rechargeable battery/battery designation	Mignon AA; LR6; AM3
Number of rechargeable batteries/batteries	4 PCS
Material of the housing	Aluminium

Art. no. 0827 806 506

P. Qty.: 1

High-end power LED pocket torch WX7

3 light modes: Boost (1000 lumens), Power (400 lumens) and Low Power (100 lumens)

- One-handed sliding focusing mechanism
- Reflector lens technology
- Hard-gold-plated contacts



Min./max. luminous flux	100/1000 lm
Adjustable focus	Yes
Lighting range min./max.	45/450 m
IP protection class	IP 54
Rechargeable battery/battery designation	Mono D; LR20; AM1
Number of rechargeable batteries/batteries	3 PCS
Material of the housing	Aluminium
Length x width x height	324 x 53 x 53 mm

Art. no. 0827 806 507

P. Qty.: 1

LED pocket torch 4AA RFL Z0

Meets ATEX requirements (2014/34/EU)

ATEX category 2/CENELEC classification zone 1

Explosive atmosphere is frequently present (10–1000 hours per year)

- Robust design
- Maximum safety and reliability



Luminous flux	225 lm
Adjustable focus	No
Lighting range	200 m
IP protection class	IP 67
Rechargeable battery/battery designation	Mignon AA; LR6; AM3
Number of rechargeable batteries/batteries	4 PCS
Material of the housing	Plastic
Length x width x height	158 x 36 x 41 mm

Art. no. 0827 870 326

P. Qty.: 1

II 1G Ex ia op is IIC T4 Ga, II 1D Ex ia op is IIIC T75°C Da



LED pocket torch 4AA SUREFOOT Z0

Meets ATEX requirements (2014/34/EU)

ATEX category 2/CENELEC classification zone 1

Explosive atmosphere is frequently present (10–1000 hours per year)



Luminous flux	170 lm
Adjustable focus	No
Lighting range	200 m
IP protection class	IP 67
Rechargeable battery/battery designation	Mignon AA; LR6; AM3
Number of rechargeable batteries/batteries	4 PCS
Material of the housing	Plastic
Length x width x height	154 x 36 x 41 mm

Art. no. 0827 870 327

P. Qty.: 1

II 1G Ex ia op is IIC T4 Ga, II 1D Ex ia op is IIIC T75°C Da



LED battery-powered torch, T45

Robust plastic design

Cannot be overcharged

For vehicle sockets and cigarette lighters

Clearly defined, uniform light cone

thanks to the special lens



Light intensity	30 cd
Adjustable focus	No
Luminous period	1 h
Charging time	15 h
IP protection class	IP 20
Protection class lamp	Protection class III/safety extra-low voltage
Type of rechargeable battery/battery	NiMH

Art. no. 0827 800 1

P. Qty.: 1

LED battery-powered torch, T600

- Robust plastic design
- Cannot be overcharged
- High luminosity thanks to the 4 LEDs with focused lenses

Light intensity	120 cd
Adjustable focus	No
Lighting range	50 m
Luminous period	12 h
Charging time	14 h
IP protection class	IP 54
Protection class lamp	Protection class II/protective insulation
Type of rechargeable battery/battery	NiMH



Art. no. 0827 802 11

P. Qty.: 1

Xtreme Power XP5 LED lamp

Rechargeable, dimmable and focusable

- Xtreme Power battery (LiFePo4)
- 6 light programmes
- Emergency light function in the event of a power failure
- Energy management system indicates the current battery level

Min./max. luminous flux	100/1000 lm
Lighting range min./max.	150/450 m
Min./max. luminous period	8-60 h
Charging time	2.5 h
IP protection type, lamp	IP 54



IP protection type charger	IP 20
Protection class lamp	Protection class III/safety extra-low voltage
Protection class charger	Protection class II/protective insulation
Type of rechargeable battery/battery	Li-FePO4

Art. no. 0827 806 005

P. Qty.: 1

LED ceiling and wall lamp Building site

The robust light for damp areas features highly efficient lighting technology for lighting on construction sites and industrial plants

- Characterised by ease of installation and quick assembly
Includes 2 mounting clips made of metal and a quick-closure
- Fitted with through-wiring as standard
- For wall and ceiling mounting



Min. colour rendering index (CRI)	80
Colour temperature	5000 K
IP protection class	IP 65

Luminous flux	Art. no.	P. Qty.
4000 lm	0993 981 600	1
6000 lm	0993 981 610	1

Electrical cable winder

Innovative safety locking mechanism prevents uncontrolled unwinding of the cable

- Rotatable wall bracket with locking mechanism
- Rugged plastic housing
- Drum mounted on ball bearings on both sides
- Thermal circuit breaker prevents overloading



Cable length (rolled up)	12 m
Cable type	H07RN-F3G1.5 mm ²
IP protection class	IP 44
Nominal voltage	250 V/AC
Power (with cable rolled up)	1380 W
Power (with cable unrolled)	2300 W
Min./max. temperature conditions	0 to 50 °C
Length x width x height	350 x 170 x 315 mm

Art. no. 0774 12

P. Qty.: 1



Plastic cable drum 250 V

K2 in line with BGI 600

- Drum body made from special plastic
- Large, swivelling crank handle
- New type of plug mounting
- RN cable approved for use in difficult construction conditions in line with VDE 0100 Part 704
- Complies with BGI 608
- Tested in accordance with EN standard 61242

Cable type	H07RN-F3G1.5 mm ²
Design	3 grounding-contact sockets, 16 A, 250 V
Plug connector	1 Schuko plug, 16 A
Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP X4
Protection class	Protection class II/protective insulation
Length x width x height	290 x 210 x 395 mm
Plug type	F
Standards	EN 61242
Overheating protection	Thermal circuit-breaker with restarting protection as per VDE 0620

Cable length	Art. no.	P. Qty.
25 m	0774 125 315	1
40 m	0774 140 315	1

Plastic cable drum Compact 250 V

Also suitable for outdoor use

- RN cable approved for use in difficult construction conditions in line with VDE 0100 Part 704
- Made in Germany



Cable length	10 m
Cable type	H07RN-F3G1.5 mm²
Design	3 grounding-contact sockets, 16 A, 250 V
Plug connector	1 Schuko plug, 16 A
Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 44
Protection class	Protection class II/protective insulation
Length x width x height	190 x 155 x 255 mm
Plug type	F
Standards	EN 61242
Overheating protection	Thermal circuit-breaker

Art. no. 0774 101 010

P. Qty.: 1

- Complies with BGI 608
- Tested according to EN standard 61242



Sheet steel cable drum

H07RN-F3G1.5 mm²

- Made in Germany
- Innovative plug mounting
- Locking brake with „Open/Close switch“
- RN cable is approved for difficult construction conditions according to VDE 0100 Part 704



Cable length	40 m
Cable type	H07RN-F3G1.5 mm²
Design	3 grounding-contact sockets, 16 A, 250 V
Nominal current	16 A
Nominal voltage	230 V/AC
IP protection class	IP 44
Protection class	Protection class I/protective grounding
Length x width x height	290 x 243 x 393 mm
Plug type	F

Continuation **Sheet steel cable drum**

Power (with cable unrolled)	3500 W
Power (with cable rolled up)	1100 W
Overheating protection	Thermal circuit-breaker with restarting protection as per VDE 0620

Art. no. 0774 040 315

P. Qty.: 1

Tested in accordance with EN standard 61242

Sheet steel cable drum

H05VV-F3G1.5 mm²

- Shock-absorbing, bright galvanised steel tube frame
- Thermal circuit breaker with restarting protection as per VDE 0620
- H05VV-F plastic cable for use in dry rooms, sensitive to cold

Cable length	50 m
Cable type	H05VV-F3G1.5 mm ²
Design	3 grounding-contact sockets, 16 A, 250 V
IP protection class	IP 20
Length x width x height	285 x 190 x 360 mm
Plug type	F
Overheating protection	Thermal circuit-breaker with restarting protection as per VDE 0620



Art. no. 0774 50 11

P. Qty.: 1

Sheet steel cable drum

H05RR-F3G1.5 mm²

- Shock-absorbing, bright galvanised steel tube frame
- Thermal circuit breaker with restarting protection as per VDE 0620
- H05RR-F rubber cable for use in dry rooms, largely cold-resistant

Cable length	50 m
Cable type	H05RR-F3G1.5 mm ²
Design	3 grounding-contact sockets, 16 A, 250 V
IP protection class	IP 20
Length x width x height	285 x 190 x 360 mm
Plug type	F
Overheating protection	Thermal circuit-breaker with restarting protection as per VDE 0620



Art. no. 0774 50 1

P. Qty.: 1

Plastic cable drum

3 250 V shockproof sockets with hinged safety covers

- Drum housing made of special plastic
- Generously dimensioned, swivelling rotary crank handle
- Innovative plug mounting
- Locking brake with „Open/Close switch“
- Made in Germany

Cable type	Unpopulated (only designed for 1.5 mm ²)
Design	3 grounding-contact sockets, 16 A, 250 V
Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	Dependent on the cable installed
Protection class	Protection class II/protective insulation
Length x width x height	290 x 210 x 395 mm
Plug type	F
Overheating protection	Thermal circuit-breaker with restarting protection as per VDE 0620



Art. no. 0774 100 000

P. Qty.: 1

Plastic cable drum CEE 400 V

K2 in compliance with DGUV Information 203-005 (formerly BGI 600)

- Drum body made from special plastic
- Large, swivelling crank handle
- RN cable approved for use in difficult construction conditions in line with VDE 0100 Part 704
- Made in Germany

Cable length	25 m
Cable type	H07RN-F5G2.5 mm ²
Design	2 grounding-contact sockets, 16 A, 250 V, 1 CEE electrical outlet, 5-pole, 16 A, 400 V
Plug connector	1 CEE plug 3P+N+E, 16 A
Nominal current	16 A
Nominal voltage	400 V/AC
IP protection class	IP X4
Protection class	Protection class II/protective insulation
Length x width x height	290 x 210 x 395 mm
Plug type	F
Standards	EN 61316
Overheating protection	Thermal circuit-breaker with restarting protection as per VDE 0620



Art. no. 0774 125 525

P. Qty.: 1

- Complies with DGUV Information 203-006 (formerly BGI 608)
- Tested in compliance with EN standard 61316

Continuation **Plastic cable drum CEE 400 V**



Plastic cable drum 250 V

K2 in compliance with DGUV Information 203-005 (formerly BGI 600)

- Complies with DGUV Information 203-006 (formerly BGI 608)
- Tested in compliance with EN standard 61242
- RN cable approved for use in difficult construction conditions in line with VDE 0100 Part 704
- Made in Germany

Cable type	H07RN-F3G2.5 mm ²
Design	3 grounding-contact sockets, 16 A, 250 V
Plug connector	1 Schuko plug, 16 A
Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP X4
Protection class	Protection class II/protective insulation
Length x width x height	290 x 210 x 395 mm
Plug type	F
Standards	EN 61316
Overheating protection	Thermal circuit-breaker with restarting protection as per VDE 0620



Cable length	Art. no.	P. Qty.
25 m	0774 125 325	1
33 m	0774 133 325	1

- Complies with DGUV Information 203-006 (formerly BGI 608)
- Tested in compliance with EN standard 61242



Safety distributor PRCD-S+

1-button operation – conventional “test” button is not required

- Portable residual current device with differentiated measuring current ≤ 30 mA for alternating currents, pulsating direct fault currents and phased fault currents
- Intermediate in-line device for direct connection in the line
- Fully automatic testing of correct connection conditions

Cable type	H07RN-F3G1.5 mm ²
Length	3000 mm



Nominal current	16 A
Frequency	50 Hz
Nominal residual current	30 mA
Nominal voltage	230 V/AC
IP protection class	IP 44
Cable connection	Solid rubber plug
Min./max. operating temperature	-25 to 45 °C

Cable outlet	Art. no.	P. Qty.
Solid-rubber connector with 3 m cable	0774 610 002	1
Triple solid-rubber connector with 3 m cable	0774 610 003	1



H07RN-F CEE extension

For indoor and outdoor use

With phase changing switch	No
Nominal voltage	400 V/AC
IP protection class	IP 44

Cable length	Cable type	Max. current	Nominal current	Art. no.	P. Qty.
10 m	H07RN-F5G1.5 mm ²	16 A	16 A	0969 210 16	1
10 m	H07RN-F5G2.5 mm ²	16 A	16 A	0969 210 161	1
10 m	H07RN-F5G4 mm ²	30 A	32 A	0969 210 321	1
25 m	H07RN-F5G1.5 mm ²	16 A	16 A	0969 225 16	1
25 m	H07RN-F5G2.5 mm ²	16 A	16 A	0969 225 161	1
25 m	H07RN-F5G4 mm ²	30 A	32 A	0969 225 321	1
25 m	H07RN-F5G6 mm ²	32 A	32 A	0969 225 322	1

H07RN-F3G1.5 grounding contact extension

Single coupling with cover

Cable in signal colour red

Cable type	H07RN-F3G1.5 mm ²
Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 44
Cable connection	Safety plug
Cable outlet	Safety plug connector with cover
Plug type	F



Cable length	Art. no.	P. Qty.
10 m	0969 310 001	1
20 m	0969 310 002	1
25 m	0969 310 003	1



H07RN-F3G1.5 grounding contact extension

3-way coupling with cover for indoor and outdoor use

Cable in signal colour red

Cable type	H07RN-F3G1.5 mm ²
Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 44
Cable connection	Safety plug
Cable outlet	Triple rubber connector with cover
Plug type	F



Cable length	Art. no.	P. Qty.
10 m	0969 310 101	1
20 m	0969 310 102	1
25 m	0969 310 103	1



H07RN-F3G1.5 grounding contact distributor

Three-way distributor with cover

Cable length	5 m
Cable type	H07RN-F3G1.5 mm ²
Nominal current	16 A



Continuation **H07RN-F3G1.5 grounding contact distributor**

Nominal voltage	250 V/AC
IP protection class	IP 44
Cable connection	Safety plug
Cable outlet	Safety plug connector with cover
Plug type	F

Art. no. 0993 000 155

P. Qty.: 1

H07BQ-F3G2.5 grounding contact extension

Triple coupling with cover

Wire

- Exceptionally resistant to wearing, cutting and tearing
- Highly flexible
- Extremely weather resistant
- Luminous orange signal colour



Cable type	H07BQ-F3G2.5 mm ²
Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 44
Cable connection	Safety plug
Cable outlet	Triple rubber connector with cover
Plug type	F

Cable length	Art. no.	P. Qty.
10 m	0969 316 101	1
25 m	0969 316 103	1



H07BQ-F3G2.5 grounding contact extension

Single coupling with cover

Wire

- Exceptionally resistant to wearing, cutting and tearing
- Highly flexible
- Extremely weather resistant
- Luminous orange signal colour



Cable type	H07BQ-F3G2.5 mm ²
Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 44
Cable connection	Safety plug

Cable outlet	Safety plug connector with cover
Plug type	F

Cable length	Art. no.	P. Qty.
10 m	0969 316 001	1
25 m	0969 316 003	1



H07BQ-F3G1.5 grounding contact extension

Triple coupling with cover

Wire

- Exceptionally resistant to wearing, cutting and tearing
- Highly flexible
- Extremely weather resistant
- Luminous orange signal colour



Cable type	H07BQ-F3G1.5 mm ²
Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 44
Cable connection	Safety plug
Cable outlet	Triple rubber connector with cover
Plug type	F

Cable length	Art. no.	P. Qty.
10 m	0969 314 101	1
25 m	0969 314 103	1



H07BQ-F3G1.5 grounding contact extension

Single coupling with cover

Wire

- Exceptionally resistant to wearing, cutting and tearing
- Highly flexible
- Extremely weather resistant
- Luminous orange signal colour



Cable type	H07BQ-F3G1.5 mm ²
Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 44
Cable connection	Safety plug

Continuation **H07BQ-F3G1.5 grounding contact extension**

Cable outlet	Safety plug connector with cover
Plug type	F

Cable length	Art. no.	P. Qty.
10 m	0969 314 001	1
25 m	0969 314 003	1



H07RN-F3G2.5 grounding contact extension

Triple coupling with cover

Cable in signal colour red

Cable type	H07RN-F3G2.5 mm ²
Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 44
Cable connection	Safety plug
Cable outlet	Triple rubber connector with cover
Plug type	F



Cable length	Art. no.	P. Qty.
10 m	0969 312 101	1
25 m	0969 312 103	1



H07RN-F3G2.5 grounding contact extension

Single coupling with cover

Cable in signal colour red

Cable type	H07RN-F3G2.5 mm ²
Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 44
Cable connection	Safety plug
Cable outlet	Safety plug connector with cover
Plug type	F



Cable length	Art. no.	P. Qty.
10 m	0969 312 001	1
25 m	0969 312 003	1



Mobile plastic upright distributor

Portable, compact and robust design

- Impact and weather-resistant plastic housing
- For indoor and outdoor use.
- Portable socket distributors as a special supply point in accordance with DIN VDE 0100 Part 704 for connecting AC and three-phase power consumers on construction sites downstream of a connection distributor cabinet or a distributor/end distributor cabinet.



IP protection class	IP 44
Min./max. temperature conditions	-25 to 40 °C
Material	PA - Polyamide
Length x width x height	250 x 250 x 245 mm

Output	Input	Cable type	Cable length	Main fuse	Art. no.	P. Qty.
4 CEE 16 A, 5 pin, 400 V	CEE 16 A, 5 pin, 400 V	H07RN-F5G2.5 mm ²	2 m	Non secured	0774 760 001	1
Three shock-proof sockets 16 A, 250 V, 1 CEE 16 A, 5 pin, 400 V	CEE 16 A, 5 pin, 400 V	H07RN-F5G2.5 mm ²	2 m	Non secured	0774 760 002	1
Four shock-proof sockets 16 A, 250 V	CEE 16 A, 5 pin, 400 V	H07RN-F5G2.5 mm ²	2 m	Non secured	0774 760 003	1
Six shockproof sockets 16 A, 250 V	CEE 16 A, 5 pin, 400 V			Non secured	0774 761 001	1
Two shock-proof sockets 16 A, 250 V, 1 CEE 16 A, 5 pin, 400 V, 1 CEE 32 A, 5 pin, 400 V	CEE 32 A, 5 pin, 400 V	H07RN-F5G4 mm ²	2 m	CEE 32 A - none secured, CEE 16 A - 1LS 16 A 3P C, Grounding contact - 1LS 16 A 1P C	0774 762 001	1

WSDV plastic multiple outlet

Portable, compact and robust design

- Impact and weather-resistant plastic housing
- Stackable to save space
- Made in Germany



IP protection class	IP 44
Min./max. temperature conditions	-25 to 35 °C
Material	Plastic
Length x width x height	396 x 238 x 322 mm

Continuation **WSDV plastic multiple outlet**

Type description	Output	Input	Main fuse	Connected load	Art. no.	P. Qty.
WSDV1	Six shockproof sockets 16 A, 250 V, 3 CEE 16 A, 5 pin, 400 V	CEE 16 A, 5 pin, 400 V	1 FI 40/0,03 A, type A	11 kVA	0774 770 001	1
WSDV2	Six shockproof sockets 16 A, 250 V, 1 CEE 32 A, 5 pin, 400 V, 2 CEE 16 A, 5 pin, 400 V	CEE 32 A, 5 pin, 400 V	1 FI 40/0,03 A, type A, 3 LS 16 A, 1P, C, 2 LS 16 A, 3P, C	22 kVA	0774 770 002	1

Plastic socket distributor **WSDV+**

Complies with new DIN VDE 0100 Part 704:2018-10 specifications

- Impact and weather-resistant plastic housing
- Stackable to save space
- Made in Germany



IP protection class	IP 44
Min./max. temperature conditions	-25 to 35 °C
Material	Plastic
Length x width x height	396 x 238 x 322 mm

Type description	Output	Input	Main fuse	Connected load	Art. no.	P. Qty.
WSDV1+	Six shockproof sockets 16 A, 250 V, 3 CEE 16 A, 5 pin, 400 V	CEE 16 A, 5 pin, 400 V	1 FI 40/0,03 A, type B (voltage-sensitive)	11 kVA	0774 770 101	1
WSDV2+	Six shockproof sockets 16 A, 250 V, 1 CEE 32 A, 5 pin, 400 V, 2 CEE 16 A, 5 pin, 400 V	CEE 32 A, 5 pin, 400 V	1 FI 40/0,03 A, type B (voltage-sensitive), 1 LS 16 A, 3P, C, 5 LS 16 A, 1P, C	22 kVA	0774 770 102	1

ELMO® CEE coupling 400 V, 6 H

Screw connection with integrated tension relief, seal and cable kink protector

Housing lock with bayonet catch



Number of electrical poles	5 PCS
Nominal voltage	400 V/AC
Colour	Red
IP protection class	IP 44
Locking mechanism type	Bayonet coupling
Material of the housing	PA - Polyamide
Material of the contacts	Brass

Nominal current	Min./max. cable diameter	Art. no.	P. Qty.
16 A	8-16 mm	0969 706 516	1/10
32 A	12-22 mm	0969 706 532	1/10

In accordance with IEC 60309, EN 60309 and VDE 0623

CEE coupling 250 V/6 H

Screw connection with integrated tension relief, seal and cable kink protector

Housing lock with bayonet catch



Number of electrical poles	3 PCS
Nominal voltage	250 V/AC
Colour	Blue
IP protection class	IP 44
Locking mechanism type	Bayonet coupling
Material of the housing	PA - Polyamide
Material of the contacts	Brass

Nominal current	Min./max. cable diameter	Art. no.	P. Qty.
16 A	6-15 mm	0969 705 316	1/10
32 A	12-20 mm	0969 705 332	1/10

In accordance with IEC 60309, EN 60309 and VDE 0623

CEE coupling 6H

Screw connection with integrated tension relief, seal and cable kink protector

- Housing lock with bayonet mount
- 63 A version with screw connection



Number of electrical poles	5 PCS
Nominal voltage	400 V/AC
Colour	Red
Material of the housing	PA - Polyamide

Nominal current	Min./max. cable diameter	IP protection class	Locking mechanism type	Material of the contacts	Art. no.	P. Qty.
16 A	8-16 mm	IP 44	Bayonet coupling	Brass	0969 705 516	1/10
16 A	8-16 mm	IP 67	Bayonet coupling	Brass nickel-plated	0969 715 516	1/10
32 A	12-22 mm	IP 44	Bayonet coupling	Brass	0969 705 532	1/10
32 A	12-22 mm	IP 67	Bayonet coupling	Brass nickel-plated	0969 715 532	1/10
63 A	15-36 mm	IP 67	Screw coupling	Brass nickel-plated	0969 715 563	1/10

In accordance with IEC 60309, EN 60309 and VDE 0623

CEE plug with phase inverter 400 V, 6 H

Screw connection with integrated tension relief, seal and cable kink protector

- Housing lock with bayonet catch
- Nickel-plated contacts

Number of electrical poles	5 PCS
Nominal voltage (V)	400 V/AC
Colour	Red
IP protection class	IP 44
Locking mechanism type	Bayonet coupling
Material of the housing	PA - Polyamide
Material of the contacts	Brass nickel-plated



Nominal current (A)	Min./max. cable diameter	Art. no.	P. Qty.
16 A	8-16 mm	0969 720 516	1/10
32 A	12-22 mm	0969 720 532	1/10

In accordance with IEC 60309, EN 60309 and VDE 0623

ELMO® CEE plug 400 V, 6 H

Screw connection with integrated tension relief, seal and cable kink protector

Housing lock with bayonet catch

Number of electrical poles	5 PCS
Nominal voltage	400 V/AC
Colour	Red
IP protection class	IP 44
Locking mechanism type	Bayonet coupling
Material of the housing	PA - Polyamide
Material of the contacts	Brass



Nominal current	Min./max. cable diameter	Art. no.	P. Qty.
16 A	8-16 mm	0969 701 516	1/10
32 A	12-22 mm	0969 701 532	1/10

In accordance with IEC 60309, EN 60309 and VDE 0623

CEE plug 400 V, 6 H

Screw connection with integrated tension relief, seal and cable kink protector

- Housing lock with bayonet mount
- 63 A version with screw connection

Number of electrical poles	5 PCS
Nominal voltage	400 V/AC
Colour	Red
Material of the housing	PA - Polyamide



Nominal current	Min./max. cable diameter	IP protection class	Locking mechanism type	Material of the contacts	Art. no.	P. Qty.
16 A	8-16 mm	IP 44	Bayonet coupling	Brass	0969 700 516	1/10
16 A	8-16 mm	IP 67	Bayonet coupling	Brass nickel-plated	0969 710 516	1/10
32 A	12-22 mm	IP 44	Bayonet coupling	Brass	0969 700 532	1/10
32 A	12-22 mm	IP 67	Bayonet coupling	Brass nickel-plated	0969 710 532	1/10
63 A	15-36 mm	IP 67	Screw coupling	Brass nickel-plated	0969 710 563	1/10

In accordance with IEC 60309, EN 60309 and VDE 0623

CEE plug 250 V/400 V, 6 H

Screw connection with integrated tension relief, seal and cable kink protector

Housing lock with bayonet catch



Number of electrical poles	3 PCS
Nominal voltage	250 V/AC
Colour	Blue
IP protection class	IP 44
Locking mechanism type	Bayonet coupling
Material of the housing	PA - Polyamide
Material of the contacts	Brass

Nominal current	Min./max. cable diameter	Art. no.	P. Qty.
16 A	6-15 mm	0969 700 316	1/10
32 A	12-20 mm	0969 700 332	1/10

In accordance with IEC 60309, EN 60309 and VDE 0623

CEE wall box 250/400 V, 6h

Housing lock with wrench

Locking mechanism type	Screw coupling
Material of the housing	PA - Polyamide
Material of the contacts	Brass



Number of electrical poles	Nominal current	Nominal voltage	Colour	IP protection class	Art. no.	P. Qty.
3 PCS	16 A	250 V/AC	Blue	IP 44	0969 730 316	1/10
5 PCS	16 A	400 V/AC	Red	IP 44	0969 730 516	1/10
5 PCS	32 A	400 V/AC	Red	IP 44	0969 730 532	1/10
5 PCS	63 A	400 V/AC	Red	IP 67	0969 740 563	1/10

In accordance with IEC 60309, EN 60309 and VDE 0623

CEE reducer plug adapter

With phase inverter

- Input: CEE phase converter, 32 A, 5P, 400 V
- Output: CEE socket, 16 A, 5P, 400 V (protected by circuit breaker, 16 A, 3P, C)
- Nickel-plated contacts



Number of connections	2 PCS
Nominal current	16 A
Nominal voltage	400 V/AC
Main fuse	CEE 16 A - 1LS 16 A 3P C
Colour	Grey, Red
IP protection class	IP 44
Material of the housing	PA - Polyamide
Material of the contacts	Brass nickel-plated
Length x width x height	281 x 80 x 98 mm

Art. no. 0969 780 101

P. Qty.: 1

In accordance with IEC 60309, EN 60309 and VDE 0623

Grounding contact 3-way coupling with self-closing lid

For cables up to 3G 2.5 mm²

- With suspension fixture
- Time saving due to screwless tension relief
- For indoor and outdoor use



Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 44
Max. cable diameter	13 mm
Design	With self-closing spring covers
Material	Rubber
Colour	Black

Art. no. 0969 303 301

P. Qty.: 1/5



2-component grounding contact coupling

With voltage display

- For cables up to 3G 2.5 mm²
- For very high mechanical loads, can be rolled over with up to 4 tonnes
- Resistant to UV, heat and cold

Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 54
Max. cable diameter	13 mm
Design	With lid
Material	Plastic
Colour	Grey, Black, Red



Art. no. 0969 305 200

P. Qty.: 1/5

DIN 49440/441



Grounding contact coupling with self-locking flip lid

For cables up to 3G 2.5 mm²

Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 54
Max. cable diameter	13 mm
Design	With self-closing spring cover
Material	Rubber plastic
Colour	Black, Grey, Red



Art. no. 0969 301 421

P. Qty.: 1/10



Grounding contact coupling with lid

For cables up to 3G 2.5 mm²

Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 54
Max. cable diameter	13 mm
Design	With lid



Continuation **Grounding contact coupling with lid**

Material	Rubber plastic
Colour	Black, Grey, Red

Art. no. 0969 301 411

P. Qty.: 1/10



Grounding contact coupling

For cables up to 3G 2.5 mm²

Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 20
Max. cable diameter	13 mm
Design	Without lid
Material	Rubber plastic
Colour	Black, Grey



Art. no. 0969 301 401

P. Qty.: 1/10





Grounding contact plug

For cables up to 3G 2.5 mm²

Nominal current	16 A
Nominal voltage	250 V/AC
IP protection class	IP 54
Max. cable diameter	13 mm
Material	Rubber plastic
Colour	Black, Grey

Art. no. 0969 300 401

P. Qty.: 1/20

2-component grounding contact plug

For cables up to 3G 2.5 mm²

- With double earthing system according to German and Belgian/French standard
- For very high mechanical loads, can be rolled over with up to 4 tonnes
- Resistant to UV, heat and cold

Nominal current	16 A
Nominal voltage	250 V/AC



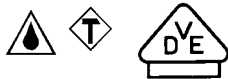
Continuation **2-component grounding contact plug**

IP protection class	IP 54
Max. cable diameter	13 mm
Material	Plastic
Colour	Grey, Black, Red

Art. no. 0969 305 100

P. Qty.: 1/5

DIN 49440/441



Plastic spacer bolts

With female/female thread

Thread type x nominal diameter	M3
Width across flats (SW)	6 mm
Material	Plastic
Colour	Black



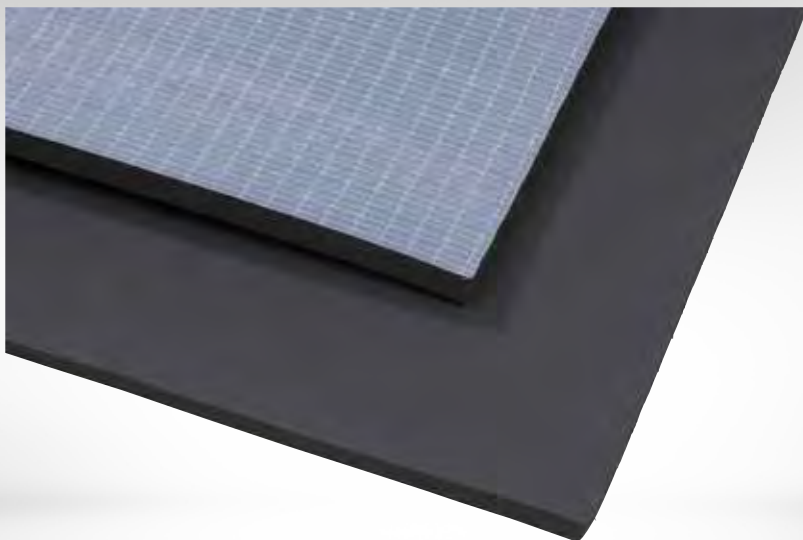
Length (L)	Female-thread length (c)	Art. no.	P. Qty.
10 mm	5 mm	0968 200 610	100
15 mm	7.5 mm	0968 200 615	100



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SANITATION

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FLEXEN® cold rubber continuous plate, self-adhesive

Highly flexible

Material	Closed cell foam based on synthetic rubber
Colour	Black
Width	1 m
Adhesive system	Self-adhesive

Insulation thickness x length	Art. no.	P. Qty.
6 mm x 30 m	0869 821 006	30
10 mm x 20 m	0869 821 010	20
13 mm x 14 m	0869 821 013	14
19 mm x 10 m	0869 821 019	10
25 mm x 8 m	0869 821 025	8
32 mm x 6 m	0869 821 032	6

FLEXEN® cold rubber continuous hose

Highly flexible

Material	Closed cell foam based on synthetic rubber
Colour	Black

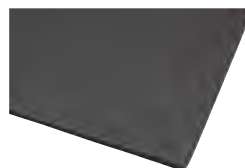


Insulation thickness x pipe diameter	Hose length	Art. no.	P. Qty.
6 x 6 mm	50 m	0869 906 006	50
6 x 8 mm	48 m	0869 906 008	48
6 x 10 mm	46 m	0869 906 010	46
6 x 12 mm	40 m	0869 906 012	40
6 x 15 mm	38 m	0869 906 015	38
6 x 18 mm	30 m	0869 906 018	30
6 x 22 mm	23 m	0869 906 022	23
6 x 28 mm	20 m	0869 906 028	20
9 x 6 mm	40 m	0869 909 006	40
9 x 8 mm	37 m	0869 909 008	37
9 x 10 mm	34 m	0869 909 010	34
9 x 12 mm	31 m	0869 909 012	31
9 x 15 mm	27 m	0869 909 015	27
9 x 18 mm	23 m	0869 909 018	23
9 x 22 mm	19 m	0869 909 022	19
9 x 28 mm	14 m	0869 909 028	14
13 x 6 mm	26 m	0869 913 006	26
13 x 8 mm	26 m	0869 913 008	26
13 x 10 mm	23 m	0869 913 010	23
13 x 12 mm	18 m	0869 913 012	18
13 x 15 mm	17 m	0869 913 015	17
13 x 18 mm	15 m	0869 913 018	15
13 x 22 mm	14 m	0869 913 022	14
13 x 28 mm	10 m	0869 913 028	10

FLEXEN® cold rubber continuous plate

Highly flexible

Material	Closed cell foam based on synthetic rubber
Colour	Black
Width	1 m

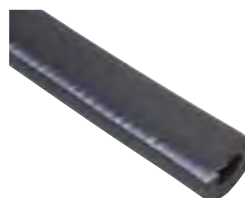


Insulation thickness x length	Art. no.	P. Qty.
6 mm x 30 m	0869 820 006	30
10 mm x 20 m	0869 820 010	20
13 mm x 14 m	0869 820 013	14
19 mm x 10 m	0869 820 019	10
25 mm x 8 m	0869 820 025	8
32 mm x 6 m	0869 820 032	6

FLEXEN® cold rubber plus 2 m hose, self-adhesive

- Low heat conductance
- High water vapour diffusion resistance
- Highly flexible

Material	Closed cell foam based on synthetic rubber
Colour	Black
Hose length	2 m
Adhesive system	Self-adhesive



Continuation **FLEXEN® cold rubber plus 2 m hose, self-adhesive**

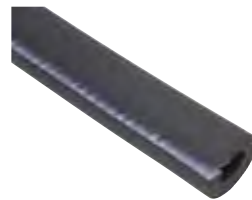
Insulation thickness x pipe diameter	Art. no.	P. Qty.
8 x 15 mm	5258 601 015	192
8 x 18 mm	5258 601 018	168
8.5 x 22 mm	5258 601 022	132
11 x 15 mm	5258 602 015	144
11.5 x 18 mm	5258 602 018	120
12 x 22 mm	5258 602 022	96
12.5 x 28 mm	5258 602 028	80
13 x 35 mm	5258 602 035	60
13.5 x 42 mm	5258 602 042	40
13.5 x 48 mm	5258 602 048	40
13.5 x 54 mm	5258 602 054	32
14 x 60 mm	5258 602 060	32
14 x 76 mm	5258 602 076	28
14.5 x 89 mm	5258 602 089	20
17 x 15 mm	5258 604 015	90
17.5 x 18 mm	5258 604 018	72
18 x 22 mm	5258 604 022	64
19 x 28 mm	5258 604 028	50
19.5 x 35 mm	5258 604 035	40
20 x 42 mm	5258 604 042	32
20.5 x 48 mm	5258 604 048	24
21 x 54 mm	5258 604 054	24
21.5 x 60 mm	5258 604 060	20
22 x 76 mm	5258 604 076	16
22.5 x 89 mm	5258 604 089	12

FLEXEN® cold rubber 2 m hose, self-adhesive

Highly flexible

Professional angled cut

Optimum adhesion of self-adhesive tubes



Material	Closed cell foam based on synthetic rubber
Colour	Black
Hose length	2 m
Adhesive system	Self-adhesive

Insulation thickness x pipe diameter	Art. no.	P. Qty.
9 x 15 mm	0869 909 115	240
9 x 18 mm	0869 909 118	190
9 x 22 mm	0869 909 122	156
13 x 15 mm	0869 913 115	154
13 x 18 mm	0869 913 118	130
13 x 22 mm	0869 913 122	110
13 x 28 mm	0869 913 128	86
13 x 35 mm	0869 913 135	76
13 x 42 mm	0869 913 142	56
13 x 48 mm	0869 913 148	48
13 x 54 mm	0869 913 154	46
13 x 60 mm	0869 913 160	40
13 x 76 mm	0869 913 176	34

Insulation thickness x pipe diameter	Art. no.	P. Qty.
13 x 89 mm	0869 913 189	30
19 x 15 mm	0869 919 115	86
19 x 18 mm	0869 919 118	78
19 x 22 mm	0869 919 122	74
19 x 28 mm	0869 919 128	58
19 x 35 mm	0869 919 135	48
19 x 42 mm	0869 919 142	40
19 x 48 mm	0869 919 148	30
19 x 54 mm	0869 919 154	30
19 x 60 mm	0869 919 160	28
19 x 76 mm	0869 919 176	28
19 x 89 mm	0869 919 189	22

FLEXEN® cold rubber plus 2 m hose

- Low thermal conductivity
- High water vapour diffusion equivalent resistance
- Highly flexible



Material	Closed cell foam based on synthetic rubber
Colour	Black
Hose length	2 m

Insulation thickness x pipe diameter	Art. no.	P. Qty.
7 x 6 mm	5258 501 006	466
7 x 8 mm	5258 501 008	406
7.5 x 10 mm	5258 501 010	284
7.5 x 12 mm	5258 501 012	234
8 x 15 mm	5258 501 015	192
8 x 18 mm	5258 501 018	168
8.5 x 22 mm	5258 501 022	132
8.5 x 28 mm	5258 501 028	96
9 x 35 mm	5258 501 035	70
9 x 42 mm	5258 501 042	60
9.5 x 6 mm	5258 502 006	288
10 x 8 mm	5258 502 008	240
11 x 10 mm	5258 502 010	192
11 x 12 mm	5258 502 012	168
11 x 15 mm	5258 502 015	144
11.5 x 18 mm	5258 502 018	120
12 x 22 mm	5258 502 022	96
12.5 x 28 mm	5258 502 028	80
13 x 35 mm	5258 502 035	60
13.5 x 42 mm	5258 502 042	40
13.5 x 48 mm	5258 502 048	40
13.5 x 54 mm	5258 502 054	32
13.5 x 57 mm	5258 502 057	32
14 x 60 mm	5258 502 060	32
14 x 64 mm	5258 502 064	28
14 x 70 mm	5258 502 070	28
14 x 76 mm	5258 502 076	28
14.5 x 89 mm	5258 502 089	20
14.5 x 108 mm	5258 502 108	16

Continuation **FLEXEN® cold rubber plus 2 m hose**

Insulation thickness x pipe diameter	Art. no.	P. Qty.
15 x 114 mm	5258 502 114	16
15.5 x 10 mm	5258 504 010	110
16 x 12 mm	5258 504 012	100
17 x 15 mm	5258 504 015	90
17.5 x 18 mm	5258 504 018	72
18 x 22 mm	5258 504 022	64
19 x 28 mm	5258 504 028	50
19.5 x 35 mm	5258 504 035	40
20 x 42 mm	5258 504 042	32
20.5 x 48 mm	5258 504 048	24
21 x 54 mm	5258 504 054	24
21 x 57 mm	5258 504 057	20
21.5 x 60 mm	5258 504 060	20
21.5 x 64 mm	5258 504 064	18
22 x 70 mm	5258 504 070	16
22 x 76 mm	5258 504 076	16
22.5 x 89 mm	5258 504 089	12
23 x 108 mm	5258 504 108	10
23.5 x 114 mm	5258 504 114	10

FLEXEN® cold rubber Plus continuous hose

For insulating: Refrigerators/air-conditioning units

- Low heat conductance
- High water vapour diffusion equivalent resistance
- Highly flexible



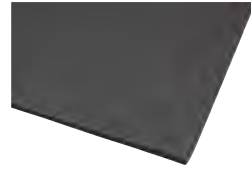
Material	Closed cell foam based on synthetic rubber
Colour	Black

Insulation thickness x pipe diameter	Hose length	Art. no.	P. Qty.
7 x 6 mm	76 m	5258 701 006	76
7 x 8 mm	74 m	5258 701 008	74
7.5 x 10 mm	70 m	5258 701 010	70
7.5 x 12 mm	60 m	5258 701 012	60
8 x 15 mm	55 m	5258 701 015	55
8 x 18 mm	40 m	5258 701 018	40
8.5 x 22 mm	32 m	5258 701 022	32
8.5 x 28 mm	27 m	5258 701 028	27
9.5 x 6 mm	68 m	5258 702 006	68
10 x 8 mm	62 m	5258 702 008	62
11 x 10 mm	35 m	5258 702 010	35
11 x 12 mm	35 m	5258 702 012	35
11 x 15 mm	35 m	5258 702 015	35
11.5 x 18 mm	27 m	5258 702 018	27
12 x 22 mm	24 m	5258 702 022	24
12.5 x 28 mm	20 m	5258 702 028	20

FLEXEN® cold rubber plus continuous plate

- Low heat conductance
- High water vapour diffusion equivalent resistance
- Highly flexible

Material	Closed cell foam based on synthetic rubber
Colour	Black
Width	1 m

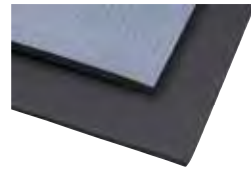


Insulation thickness x length	Art. no.	P. Qty.
6 mm x 18 m	5258 800 006	18
10 mm x 10 m	5258 800 010	10
13 mm x 8 m	5258 800 013	8
19 mm x 6 m	5258 800 019	6
25 mm x 4 m	5258 800 025	4
32 mm x 3 m	5258 800 032	3

FLEXEN® cold rubber plus continuous plate, self-adhesive

- Low thermal conductivity
- High water vapour diffusion equivalent resistance
- Highly flexible

Material	Closed cell foam based on synthetic rubber
Colour	Black
Width	1 m
Adhesive system	Self-adhesive



Insulation thickness x length	Art. no.	P. Qty.
6 mm x 18 m	5258 800 106	18
10 mm x 10 m	5258 800 110	10
13 mm x 8 m	5258 800 113	8
19 mm x 6 m	5258 800 119	6
25 mm x 4 m	5258 800 125	4
32 mm x 3 m	5258 800 132	3

FLEXEN® cold rubber 2 m hose

Highly flexible

Material	Closed cell foam based on synthetic rubber
Colour	Black
Hose length	2 m



Insulation thickness x pipe diameter	Art. no.	P. Qty.
6 x 6 mm	0869 806 006	600
6 x 8 mm	0869 806 008	500
6 x 10 mm	0869 806 010	430
6 x 12 mm	0869 806 012	350

Continuation **FLEXEN®** cold rubber 2 m hose

Insulation thickness x pipe diameter	Art. no.	P. Qty.
6 x 15 mm	0869 806 015	300
6 x 18 mm	0869 806 018	280
6 x 22 mm	0869 806 022	216
6 x 28 mm	0869 806 028	150
9 x 6 mm	0869 809 006	360
9 x 8 mm	0869 809 008	340
9 x 10 mm	0869 809 010	320
9 x 12 mm	0869 809 012	280
9 x 15 mm	0869 809 015	240
9 x 18 mm	0869 809 018	190
9 x 22 mm	0869 809 022	156
9 x 28 mm	0869 809 028	124
9 x 35 mm	0869 809 035	92
9 x 42 mm	0869 809 042	70
13 x 6 mm	0869 813 006	240
13 x 8 mm	0869 813 008	210
13 x 10 mm	0869 813 010	190
13 x 12 mm	0869 813 012	172
13 x 15 mm	0869 813 015	154
13 x 18 mm	0869 813 018	130
13 x 22 mm	0869 813 022	110
13 x 28 mm	0869 813 028	86
13 x 35 mm	0869 813 035	76
13 x 42 mm	0869 813 042	56
13 x 48 mm	0869 813 048	48
13 x 54 mm	0869 813 054	46
13 x 54 mm	0869 813 064	40
13 x 57 mm	0869 813 057	44
13 x 60 mm	0869 813 060	40
13 x 70 mm	0869 813 070	40
13 x 76 mm	0869 813 076	34
13 x 89 mm	0869 813 089	30
13 x 108 mm	0869 813 108	28
13 x 114 mm	0869 813 114	28
19 x 10 mm	0869 819 010	106
19 x 12 mm	0869 819 012	100
19 x 15 mm	0869 819 015	86
19 x 18 mm	0869 819 018	78
19 x 22 mm	0869 819 022	74
19 x 28 mm	0869 819 028	58
19 x 35 mm	0869 819 035	48
19 x 42 mm	0869 819 042	40
19 x 48 mm	0869 819 048	30
19 x 54 mm	0869 819 054	30
19 x 57 mm	0869 819 057	28
19 x 60 mm	0869 819 060	28
19 x 64 mm	0869 819 064	28
19 x 70 mm	0869 819 070	28
19 x 76 mm	0869 819 076	28
19 x 89 mm	0869 819 089	22
19 x 108 mm	0869 819 108	20
19 x 114 mm	0869 819 114	18

FLEXEN® adhesive

For FLEXEN® heating rubber S2, cold rubber plus, cold rubber, PE, PE stable, eccentric block, compact



Container	Contents	Art. no.	P. Qty.
Brush box	260 ml	0892 100 062	1/24
Can	790 ml	0892 100 063	1/20
Canister	2600 ml	0892 100 064	1/6

Blade, smooth

Ideal for cutting various insulating materials.

- Includes artificial leather sheath
- Robust, handy handle with finger guard



Material	Steel
Material of the grip handle	1-component plastic
Blade length	28 cm
Design	Single-edged, straight

Art. no. 0874 110 001

P. Qty.: 1

Blade, serrated

Double serrated blade

- Includes artificial leather sheath
- Double-edge blade
- Robust, handy wood handle with finger guard



Material	Steel
Material of the grip handle	Wood
Blade length	27.5 cm
Design	Double-edged, corrugated

Art. no. 0874 110 004

P. Qty.: 1

PVC sheathing system, 90° bend Ideal for protecting and coating pipes.

Impact-resistant and water-repellent

Material	Polyvinyl chloride hard film
Foil thickness	350 µm
Colour	Light grey



Diameter	Suitable for pipe diameter x insulation thickness	Art. no.	P. Qty.
52 mm	22 x 15 mm	0874 200 023	20
57 mm	15 x 20 mm, 18 x 20 mm	0874 200 001	20
61 mm	15 x 23 mm, 22 x 20 mm, 28 x 17 mm	0874 200 002	20
67 mm	18 x 23 mm, 28 x 20 mm, 35 x 17 mm	0874 200 003	20
68 mm	22 x 23 mm	0874 200 016	20
72 mm	28 x 23 mm	0874 200 017	20
84 mm	42 x 22 mm	0874 200 024	20
87 mm	28 x 30 mm	0874 200 004	20
94 mm	28 x 34 mm	0874 200 018	20
94 mm	35 x 30 mm, 48 x 23 mm	0874 200 006	20
102 mm	35 x 34 mm, 42 x 30 mm	0874 200 008	20
110 mm	54 x 28 mm	0874 200 026	10
120 mm	57 x 29 mm, 60 x 29 mm	0874 200 027	10
122 mm	42 x 40 mm	0874 200 009	20
128 mm	48 x 40 mm	0874 200 011	10
130 mm	42 x 44 mm	0874 200 019	20
142 mm	48 x 47 mm	0874 200 020	10
154 mm	54 x 50 mm	0874 200 014	10
163 mm	76 x 44 mm	0874 200 028	10
164 mm	54 x 56 mm	0874 200 021	10
176 mm	57 x 60 mm, 60 x 60 mm	0874 200 022	10
180 mm	57 x 58 mm, 60 x 58 mm	0874 200 015	10

FLEXEN® packing wool

Loose rock wool in 10 kg sack

Material	Mineral wool
Building material class/conditions	A1 - Non-flammable/in accordance with DIN 4102
Min. melting temperature	1000 °C
Conditions for melting point	in accordance with DIN 4102



Art. no. 0874 110 014

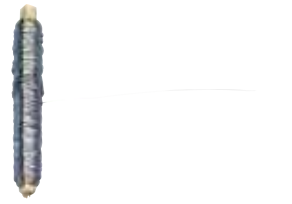
P. Qty.: 1

Winding wire

Material	Steel
Surface	Zinc plated
Wire diameter	0.8 mm
Weight	100 g
Wire length	25 m

Art. no. 0874 111 100

P. Qty.: 25



PVC sheathing system, endless roll

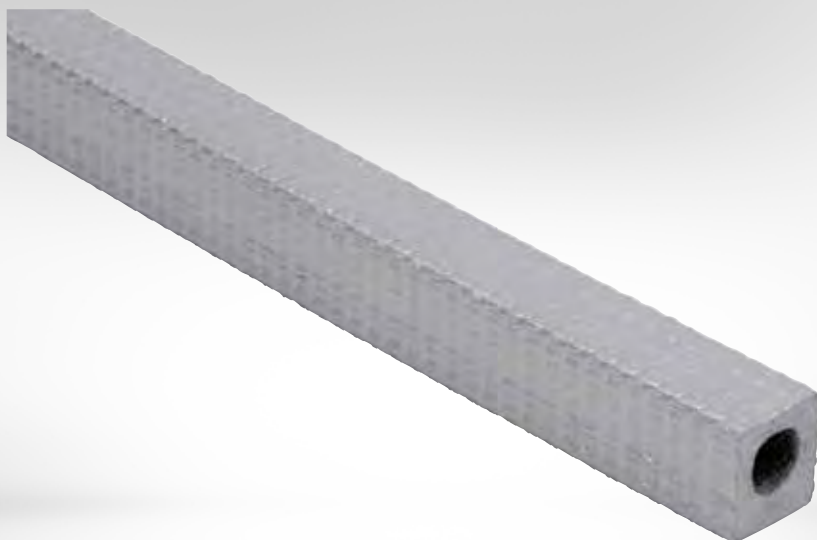
- Impact-resistant and water-repellent
- Curled

Material	Polyvinyl chloride hard film
Foil thickness	350 µm
Colour	Light grey (bright grey)
Width	1 m
Length of roll	25 m

Art. no. 0874 203 001

P. Qty.: 25





FLEXEN® eccentric block compact

Mainly made of renewable raw materials. Especially suitable for installation on unfinished concrete floors.

Environmentally friendly, sustainable, CO2 neutral

Polyethylene from sugar cane instead of oil

Prevents weak points in the screed and guarantees footfall sound insulation for the screed substructure

Square, narrow shape, fits perfectly in the screed foundation

Less material for screed foundation, lower build height for overall structure

Low installation height

Material	Closed cell polyethylene
Material of outer layer	Polyethylene, coextruded

Colour	Application range according to GEG	Insulation thickness x pipe diameter	Art. no.	P. Qty.
Silver coloured	According to annex 8.1.a.gg	9 x 15 mm	0870 509 015	170
Silver coloured	According to annex 8.1.a.gg	9 x 18 mm	0870 509 018	120
Silver coloured	According to annex 8.1.a.gg	9 x 22 mm	0870 509 022	110
Silver coloured	According to annex 8.1.a.gg	9 x 28 mm	0870 509 028	70
Silver coloured	According to annex 8.1.a.gg	9 x 35 mm	0870 509 035	58
Silver coloured	100%	27 x 15 mm	0870 525 015	100

Colour	Application range according to GEG	Insulation thickness x pipe diameter	Art. no.	P. Qty.
Silver coloured	100%	26 x 18 mm	0870 525 018	84
Silver coloured	100%	26 x 22 mm	0870 525 022	72
Silver coloured	100% (Fe)	25 x 28 mm	0870 525 028	58
Orange	100% (Cu)	41 x 28 mm	0870 538 028	40
Orange	100%	41 x 35 mm	0870 538 035	32

FLEXEN® PE

Mainly made of renewable raw materials

Environmentally friendly, sustainable, CO2 neutral

Polyethylene from sugar cane instead of oil



Material	Closed cell polyethylene
Colour	Silver grey

Application range according to GEG	Insulation thickness x pipe diameter	Art. no.	P. Qty.
According to attachment 5 line 7, Without requirement	9 x 15 mm	0870 009 015	380
According to attachment 5 line 7, Without requirement	9 x 18 mm	0870 009 018	330
According to attachment 5 line 7, Without requirement	9 x 22 mm	0870 009 022	250
According to attachment 5 line 7, Without requirement	9 x 28 mm	0870 009 028	190
According to attachment 5 line 7, Without requirement	9 x 35 mm	0870 009 035	150
According to attachment 5 line 7, Without requirement	9 x 42 mm	0870 009 042	110
50%	13 x 15 mm	0870 113 015	256
50%	13 x 18 mm	0870 113 018	220
50%	13 x 22 mm	0870 113 022	180
50% (Fe)	12 x 28 mm	0870 113 028	140
50% (Cu)	19 x 28 mm	0870 119 028	96
50%	18 x 35 mm	0870 120 035	70
50% (Fe)	18 x 42 mm	0870 120 042	60
50% (Cu)	25 x 42 mm	0870 125 042	48
100%	27 x 15 mm	0870 225 015	90
100%	26 x 18 mm	0870 225 018	90
100%	26 x 22 mm	0870 225 022	70
100% (Fe)	25 x 28 mm	0870 225 028	66

FLEXEN® PE Sturdy

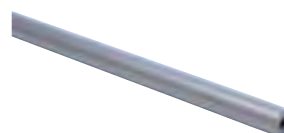
Mainly made of renewable raw materials

Environmentally friendly, sustainable, CO2 neutral

Polyethylene from sugar cane instead of oil

Protects against mechanical damage

Robust, resilient and crush-resistant PE exterior skin



Material	Closed cell polyethylene
Material of outer layer	Polyethylene, coextruded
Colour	Silver coloured

Continuation **FLEXEN® PE Sturdy**

Application range according to GEG	Insulation thickness x pipe diameter	Art. no.	P. Qty.
According to attachment 5 line 7, Without requirement	9 x 15 mm	0870 609 015	120
According to attachment 5 line 7, Without requirement	9 x 18 mm	0870 609 018	120
According to attachment 5 line 7, Without requirement	9 x 22 mm	0870 609 022	100
According to attachment 5 line 7, Without requirement	9 x 28 mm	0870 609 028	90
According to attachment 5 line 7, Without requirement	9 x 35 mm	0870 609 035	60
According to attachment 5 line 7, Without requirement	9 x 42 mm	0870 609 042	48
50%	13 x 15 mm	0870 713 015	100
50%	13 x 18 mm	0870 713 018	96
50%	13 x 22 mm	0870 713 022	80
50% (Fe)	13 x 28 mm	0870 713 028	64
50% (Cu)	20 x 28 mm	0870 718 028	40
50%	20 x 35 mm	0870 720 035	32
50% (Fe)	20 x 42 mm	0870 720 042	24
100%	27 x 15 mm	0870 825 015	40
100%	26 x 18 mm	0870 825 018	38
100%	26 x 22 mm	0870 825 022	36
100% (Fe)	25 x 28 mm	0870 825 028	30

FLEXEN® PE protective hose

Tear-proof insulation tubing to protect cables.

Tear-resistant and crush-resistant

Protects against mechanical damage

Easy-glide inner film

Easy to slide on



Material	Closed cell polyethylene
Material of outer layer	PE - Polyethylene
Colour	Silver coloured
Application range according to GEG	Without requirement
Insulating-material thickness	4 mm

Insulation thickness x pipe diameter	Art. no.	P. Qty.
4 x 15 mm	0873 504 015	100
4 x 18 mm	0873 504 018	100
4 x 22 mm	0873 504 022	100
4 x 28 mm	0873 504 028	100
4 x 35 mm	0873 504 035	100

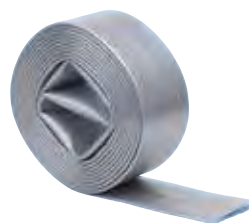
FLEXEN® PE drain hose

Tear-resistant and crush-resistant

Protects against mechanical damage

Easy-glide inner film

Easy to slide on, including over sleeves and elbows



Material	Closed cell polyethylene
Material of outer layer	PE - Polyethylene
Colour	Silver coloured
Insulating-material thickness	5 mm

DN nominal width	Art. no.	P. Qty.
DN 50	0873 605 050	10/100
DN 70/80	0873 605 070	10/80
DN 90	0873 605 090	10/80
DN 100	0873 605 100	10/60
DN 125	0873 605 125	10/50



FLEXEN® PUR

With self-seal technology

Self-seal technology with adapted curling

- Guarantees long-lasting attachment of the longitudinal seam and a flawless appearance
- Even quicker and easier to lay thanks to the self-seal technology

Particularly well-suited to insulation in visible areas due to the easy-to-clean PVC Isogenopak film

Vapour-retardant properties thanks to the PVC outer surface

Rot and decay resistant



Material	Polyurethane foam
Material of outer layer	PVC - Polyvinyl chloride
Colour	Grey
Adhesive system	Self-adhesive, overlapped

Application range according to GEG	Insulation thickness x pipe diameter	Art. no.	P. Qty.
50%	20 x 15 mm	0872 020 015	70
50%	20 x 18 mm	0872 020 018	70
50%	20 x 22 mm	0872 020 022	60
50%	20 x 28 mm	0872 020 028	48
50%	20 x 35 mm	0872 020 035	40
50%	25 x 42 mm	0872 025 042	24
50%	25 x 48 mm	0872 025 048	20
50%	30 x 57 mm	0872 030 057	15
50%	30 x 60 mm	0872 030 060	15
100%	20 x 15 mm	0872 120 015	70
100%	20 x 18 mm	0872 120 018	70
100%	20 x 22 mm	0872 120 022	60

Continuation **FLEXEN® PUR**

Application range according to GEG	Insulation thickness x pipe diameter	Art. no.	P. Qty.
100%	30 x 35 mm	0872 130 035	24
100%	40 x 48 mm	0872 140 048	12
100%	50 x 57 mm	0872 150 057	8
100%	50 x 60 mm	0872 150 060	7
100% (Cu)	30 x 28 mm	0872 130 028	28
100% (Cu)	40 x 42 mm	0872 140 042	15
100% (Fe)	20 x 28 mm	0872 120 028	48
100% (Fe)	30 x 42 mm	0872 130 042	20

FLEXEN® universal bend

With self-seal technology

Self-seal technology with adapted curling

- Guarantees a long-lasting connection for longitudinal seams and a flawless appearance
- Even easier and quicker installation thanks to self-seal technology

Particularly suitable for insulation in visible areas thanks to the wipe-clean PVC Isogenopack film

Vapour-retarding effect thanks to PVC outer sheath

Protected against rotting and decay



Material	Melamine resin foam
Material of outer layer	PVC - Polyvinyl chloride
Colour	Grey
Adhesive system	Self-adhesive, overlapped

Insulation thickness x pipe diameter	Art. no.	P. Qty.
20 x 18 mm	0872 420 018	20
20 x 22 mm	0872 420 022	20
20 x 28 mm	0872 420 028	20
20 x 35 mm	0872 420 035	20
25 x 42 mm	0872 425 042	20
25 x 48 mm	0872 425 048	10
30 x 28 mm	0872 430 028	20
30 x 35 mm	0872 430 035	20
30 x 42 mm	0872 430 042	20
30 x 60 mm	0872 430 060	10
40 x 42 mm	0872 440 042	10
40 x 48 mm	0872 440 048	10
50 x 60 mm	0872 450 060	6

FLEXEN® solar fleece

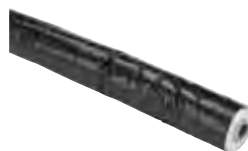
Good sliding properties, great flexibility

Temperature resistant up to +220°C (briefly up to: +230°C)

UV-resistant

Continuous product

Less seams, less waste



Material	Polyester fleece
Material of outer layer	PE - Polyethylene
Colour	Black
Length of roll	5 m

Insulation thickness x pipe diameter	Art. no.	P. Qty.
20 x 15 mm	0873 220 015	60
20 x 18 mm	0873 220 018	60
20 x 22 mm	0873 220 022	50
20 x 28 mm	0873 220 028	50

FLEXEN® rock wool

- Non-flammable A2
- Temperature-resistant +250°C
- Melting temperature > +1000°C
- Easier installation due to indented inner lining
- Pressure-resistant and stable shape
- Aluminium laminated foil acts as a vapour retarder
- Water-repellent



Material	Mineral wool
Material of outer layer	Grid-reinforced aluminium foil
Adhesive system	Self-adhesive, overlapped
Colour	Silver coloured

Application range according to GEG	Insulation thickness x pipe diameter	Art. no.	P. Qty.
100%	111 x 114 mm	0871 211 114	1
100%	23 x 15 mm	0871 223 015	36
100%	23 x 18 mm	0871 223 018	35
100%	23 x 22 mm	0871 223 022	30
100% (Fe)	23 x 28 mm	0871 223 028	25
100% (Cu)	34 x 28 mm	0871 234 028	16
100%	34 x 35 mm	0871 234 035	12
100% (Fe)	40 x 42 mm	0871 240 042	9
100% (Cu)	44 x 42 mm	0871 244 042	9
100%	47 x 48 mm	0871 247 048	6
100%	56 x 54 mm	0871 256 054	4
100%	59 x 60 mm	0871 259 060	4
100% (Fe)	76 x 76 mm	0871 276 076	2
100% (Cu)	80 x 76 mm	0871 280 076	2
100%	94 x 89 mm	0871 294 089	2
50%	15 x 15 mm	0871 315 015	56
50%	15 x 18 mm	0871 315 018	52

Continuation **FLEXEN® rock wool**

Application range according to GEG	Insulation thickness x pipe diameter	Art. no.	P. Qty.
50%	15 x 22 mm	0871 315 022	42
50%	17 x 28 mm	0871 317 028	36
50%	17 x 35 mm	0871 317 035	30
50%	22 x 42 mm	0871 322 042	20
50%	23 x 48 mm	0871 323 048	16
50%	28 x 54 mm	0871 328 054	9
50%	29 x 60 mm	0871 329 060	9
50%	44 x 76 mm	0871 340 076	5



ROCKWOOL 800

Pressure-resistant and stable shape

- Non-flammable A2
- Heat-resistant up to +250°C
- Melting temperature > +1000°C

Material	Mineral wool
Material of outer layer	Grid-reinforced aluminium foil
Adhesive system	Self-adhesive, overlapped
Colour	Silver coloured

Application range according to GEG	Insulation thickness x pipe diameter	Art. no.	P. Qty.
50%	20 x 35 mm	0871 020 035	25
50%	20 x 42 mm	0871 020 042	20
50%	30 x 60 mm	0871 030 060	9
50%	60 x 114 mm	0871 060 114	3
100%	120 x 114 mm	0871 120 114	1
100%	20 x 15 mm	0871 020 015	48
100%	20 x 18 mm	0871 020 018	42
100%	20 x 22 mm	0871 020 022	36
100% (Fe)	20 x 28 mm	0871 020 028	30
	30 x 15 mm	0871 030 015	25
	30 x 18 mm	0871 030 018	25
	30 x 22 mm	0871 030 022	20

Continuation **ROCKWOOL 800**

Application range according to GEG	Insulation thickness x pipe diameter	Art. no.	P. Qty.
100% (Cu)	30 x 28 mm	0871 030 028	20
100%	30 x 35 mm	0871 030 035	16
	30 x 42 mm	0871 030 042	12
50%	30 x 48 mm	0871 030 048	12
50%	30 x 54 mm	0871 030 054	10
100%	40 x 42 mm	0871 040 042	9
	40 x 48 mm	0871 040 048	9
	40 x 60 mm	0871 040 060	6
	40 x 64 mm	0871 040 064	6
	40 x 70 mm	0871 040 070	5
50%	40 x 76 mm	0871 040 076	5
	40 x 89 mm	0871 040 089	4
	40 x 102 mm	0871 040 102	4
	40 x 108 mm	0871 040 108	3
	40 x 114 mm	0871 040 114	3
100%	50 x 48 mm	0871 050 048	6
100%	50 x 54 mm	0871 050 054	5
50%	50 x 89 mm	0871 050 089	3
100%	60 x 60 mm	0871 060 060	4
	60 x 133 mm	0871 060 133	3
	60 x 140 mm	0871 060 140	1
	60 x 159 mm	0871 060 159	1
100% (Fe)	70 x 76 mm	0871 070 076	3
100% (Cu)	80 x 76 mm	0871 080 076	3
100%	100 x 89 mm	0871 100 089	1

FLEXEN® fleece protective hose B2

Excellent sliding properties and high flexibility

- Excellent sliding properties and high flexibility
- Tear-proof and crush-resistant



Material	Fleece
Material of outer layer	PE - Polyethylene
Colour	Silver coloured
Area of application in accordance with DIN 1988	Yes
Application range according to GEG	Without requirement
Insulating-material thickness	4 mm

Insulation thickness x pipe diameter	Art. no.	P. Qty.
4 x 15 mm	0873 704 015	100
4 x 18 mm	0873 704 018	100
4 x 22 mm	0873 704 022	100
4 x 28 mm	0873 704 028	100
4 x 35 mm	0873 704 035	100

FLEXEN® fleece protective hose B2 drain pipe

Excellent glide properties and high flexibility

Easy to apply, even on sleeves and elbows

Tear-resistant and crush-resistant

Protects against mechanical damage

Material	Fleece
Material of outer layer	PE - Polyethylene
Colour	Silver coloured
Insulating-material thickness	4 mm



DN nominal width	Art. no.	P. Qty.
DN 50	0873 804 050	100
DN 70/80	0873 804 070	75
DN 90	0873 804 090	50
DN 100	0873 804 100	50
DN 125	0873 804 125	50

FLEXEN® fleece protective hose

Tear-proof fleece insulation tubing to protect cables.

Material class B1, flame-retardant, tear-proof and crush-resistant

Fleece according to Öko-Tex standard 100

Excellent sliding properties and high flexibility

Material	Polyester fleece
Material of outer layer	PE - Polyethylene
Colour	Silver coloured
Area of application in accordance with DIN 1988	Yes
Application range according to GEG	Without requirement
Insulating-material thickness	4 mm



Insulation thickness x pipe diameter	Art. no.	P. Qty.
4 x 15 mm	0873 304 015	100
4 x 18 mm	0873 304 018	100
4 x 22 mm	0873 304 022	100
4 x 28 mm	0873 304 028	100
4 x 35 mm	0873 304 035	100



FLEXEN® fleece protective hose, drain pipe

Construction material class B1, flame resistant
Fleece in accordance with Öko-Tex Standard 100

Tested for harmful substances

Excellent glide properties and high flexibility

Easy to apply, even on sleeves and elbows

Tear-resistant and crush-resistant

Protects against mechanical damage



Material	Polyester fleece
Material of outer layer	PE - Polyethylene
Colour	Silver coloured
Insulating-material thickness	4 mm

DN nominal width	Art. no.	P. Qty.
DN 50	0873 404 050	100
DN 70/80	0873 404 070	75
DN 90	0873 404 090	50
DN 100	0873 404 100	50
DN 125	0873 404 125	50



FLEXEN® noise protection

9 mm polyester fleece with best sound-insulation properties

Sound level with HT discharge pipes 24 db (A)*

Even meets the requirements for enhanced noise protection in accordance with DIN 4109/VDI 4100

Construction material class B1, flame resistant
Fleece in accordance with Öko-Tex Standard 100

Pollutant-tested material

Excellent glide properties and high flexibility

Easy to apply, even on sleeves and elbows

Tear-resistant and crush-resistant

Protects against mechanical damage



Material	Polyester fleece
Material of outer layer	PE - Polyethylene
Colour	Silver coloured
Insulating-material thickness	9 mm

DN nominal width	Art. no.	P. Qty.
DN 50	0873 100 050	10/90
DN 70	0873 100 070	10/70
DN 90	0873 100 090	10/40
DN 100	0873 100 100	10/40
DN 125	0873 100 125	10/40

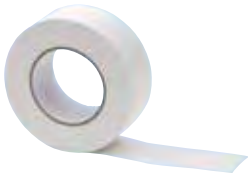
Noise protection tested in accordance with DIN 4109/VDI 4100



White fabric adhesive tape

Suitable for pre-insulated copper pipe

Colour	White
Width	50 mm
Length	50 m



Art. no. 0874 100 210

P. Qty.: 1/24

Please consider the legal instruction at the beginning of this chapter.

Rubber wrapping tape, black

For FLEXEN cold rubber plus/FLEXEN cold rubber

Colour	Black
Adhesive system	Self-adhesive
Width	50 mm
Thickness	3 mm
Length of roll	15 m



		Art. no.	P. Qty.
		0874 105 020	1/12
		0874 105 021	1/8

Noise protection, wrapping tape

For FLEXEN noise protection

Design	With film
Width	70 mm
Thickness	6 mm
Length	5 m



Adhesive system	Art. no.	P. Qty.
	0874 105 050	10
Self-adhesive	0874 105 051	10

Rubber wrapping tape, grey

For FLEXEN® heating rubber S2

Colour	Grey
Adhesive system	Self-adhesive
Width	50 mm
Thickness	3 mm
Length of roll	15 m



Art. no. 0874 105 010

P. Qty.: 1/12

PE wrapping tape

Suitable for FLEXEN® PE protective hose

Design	With film on one side
Width	70 mm
Thickness	2 mm
Length	5 m



Adhesive system	Art. no.	P. Qty.
	0874 105 060	20
Self-adhesive	0874 105 061	20

Fleece wrapping tape B2

Suitable for FLEXEN fleece protective hose B2

Design	With film
Width	70 mm
Thickness	2 mm
Length	5 m



Adhesive system	Art. no.	P. Qty.
	0874 105 070	20
Self-adhesive	0874 105 071	20

Fleece wrapping tape

Width	70 mm
Thickness	2 mm
Length	5 m



Design	Adhesive system	Art. no.	P. Qty.
Without film	Self-adhesive	0874 105 040	20
With film		0874 105 041	20
With film	Self-adhesive	0874 105 042	20

Metric copper pipe Pre-insulated

Single pipe certified according to DIN EN 12735-1 with an insulation of polyethylene with tear-resistant outer skin

- Tear-resistant outer skin
- UV-resistant



Pipe-wall thickness	1 mm
Length	25 m

Outer diameter of pipe	Art. no.	P. Qty.
6 mm	0868 510 006	25
10 mm	0868 510 010	25
12 mm	0868 510 012	25
16 mm	0868 510 016	25
18 mm	0868 510 018	25
22 mm	0868 510 022	25



Metric copper pipe Pre-insulated

Double pipe certified according to DIN EN 12735-1 with an insulation of polyethylene with tear-resistant outer skin

- Tear-resistant outer skin
- UV-resistant
- Double pipe can be easily separated into two individual pipes without damaging the insulation

Pipe-wall thickness	1 mm
Length	20 m

Outer diameter of pipe	Outer diameter of pipe 2	Art. no.	P. Qty.
6 mm	10 mm	0868 510 610	20
6 mm	12 mm	0868 510 612	20
6 mm	16 mm	0868 510 616	20
10 mm	16 mm	0868 511 016	20
10 mm	18 mm	0868 511 018	20
12 mm	18 mm	0868 511 218	20

Imperial copper pipe Pre-insulated

Single pipe certified according to DIN EN 12735-1 with an insulation of polyethylene with tear-resistant outer skin

- Tear-resistant outer skin
- UV-resistant



Length	25 m
--------	------

Outer diameter of pipe	Pipe-wall thickness	Art. no.	P. Qty.
1/4 in	0.8 mm	0868 540 101	25
3/8 in	0.8 mm	0868 540 102	25
1/2 in	0.8 mm	0868 540 103	25
5/8 in	1 mm	0868 540 104	25
3/4 in	1 mm	0868 540 105	25
7/8 in	1 mm	0868 540 106	25

Imperial copper pipe Pre-insulated

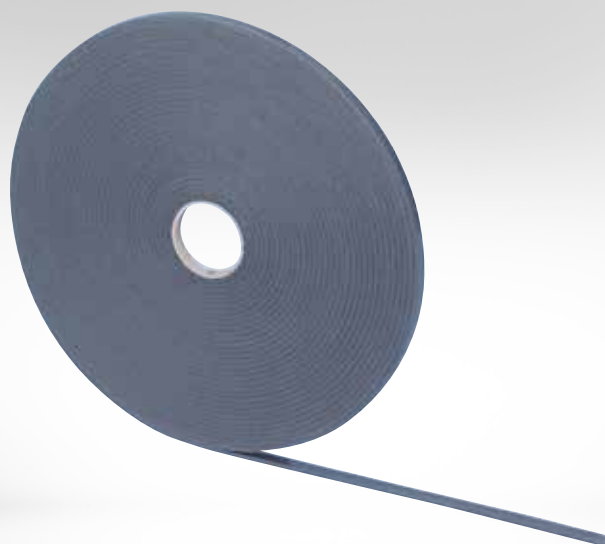
Double pipe certified according to DIN EN 12735-1 with an insulation of polyethylene with tear-resistant outer skin

- Tear-resistant outer skin
- UV-resistant
- Double pipe can be easily separated into two individual pipes without damaging the insulation



Pipe-wall thickness	0.8 mm
Length	20 m

Outer diameter of pipe	Outer diameter of pipe 2	Pipe-wall thickness 2	Art. no.	P. Qty.
1/4 in	3/8 in	0.8 mm	0868 540 201	20
1/4 in	1/2 in	0.8 mm	0868 540 202	20
1/4 in	5/8 in	1 mm	0868 540 203	20
3/8 in	5/8 in	1 mm	0868 540 204	20
3/8 in	3/4 in	1 mm	0868 540 205	20
1/2 in	3/4 in	1 mm	0868 540 206	20



Ventilation duct sealing tape

One-sided self-adhesive, without cover film

- For sealing ventilation ducts and exhaust air systems
- Silicone-free

Material	Closed cell polyethylene
Colour	Grey
Min./max. temperature conditions	-30 to 80 °C
Shelf life from production	12 Month

Thickness	Width	Length of roll	Art. no.	P. Qty.
4 mm	9 mm	20 m	0876 909 04	100
4 mm	12 mm	20 m	0876 912 04	100
6 mm	12 mm	10 m	0876 912 06	50
4 mm	15 mm	20 m	0876 915 04	100
6 mm	15 mm	10 m	0876 915 06	50
6 mm	19 mm	10 m	0876 919 06	50

Please consider the legal instruction at the beginning of this chapter.

Butyl sealing tape

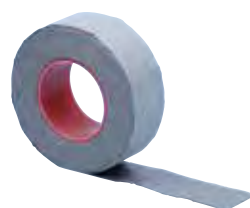
Butyl rubber-based double layered tape

The film can take mechanical loads and is tear-proof

Screw heads can be covered without difficulty

The adhesive is odourless and contains no solvents, chlorinated hydrocarbons or aromatic hydrocarbons

No unpleasant odour during application or during subsequent operation of the plant



Adhesive base	Butyl natural rubber
Colour	Silver grey (base material)
Length	15 m
Width	50 mm
Total thickness	0.6 mm
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-30 to 80 °C

Art. no. 0874 100 401

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Rapid repair tape HR

Highly resistant, self-fusing silicone tape for immediate repairs and sealing tasks

- Resistant to many media
- Water and air-tight in seconds
- Very versatile
- Very simple and fast application
- Also works on wet or oily surfaces and under water
- Removable without residue
- Permanently elastic



Backing material	Silicone
Width	25 mm
Length	3.65 m
Total thickness	0.5 mm
Min./max. processing temperature	-50 to 260 °C
Min./max. temperature resistance	-60 to 260 °C
Ultraviolet resistance	Yes
Moisture resistance	Yes

Colour	Product weight (per item)	Art. no.	P. Qty.
Black	74 g	0985 077 230	1
Red	64 g	0985 077 231	1
Transparent	67 g	0985 077 232	1

Please consider the legal instruction at the beginning of this chapter.

Cold-shrink tape

Butyl rubber-based double layered tape

- Highly flexible and adaptable polyethylene film
- The film can take mechanical loads and is tear-proof
- The adhesive is odourless and contains no solvents, chlorinated hydrocarbons or aromatic hydrocarbons
- The cold-shrink tape is UV-resistant when applied in a double layer



Backing material	PE film
Colour	Grey (base material)
Adhesive base	Active butyl natural rubber
Barrier layer	Foil
Width x length	50 mm x 15 m

Art. no. 0874 100 400

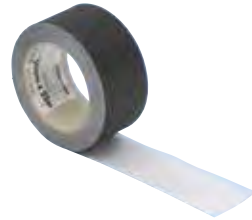
P. Qty.: 1/27

Please consider the legal instruction at the beginning of this chapter.

UV adhesive tape, Black

For installing the end sleeve and for insulation joints

- Waterproof
- Weather-resistant and UV-resistant



Backing material	Aluminium foil
Colour	Black
Width	50 mm
Length	25 m
Min./max. temperature resistance	-20 to 150 °C

Art. no. 0874 100 350

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Step wrench

For applications in sanitary facilities

- Drive: Square mount 1/2 inch
- Material: Chrome-vanadium steel
- Surface: matt chrome-plated
- Design: with cam, hexagon socket and bi-hexagon socket drives.



Drive	1/2 inch
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Length (L)	Width across flats	Art. no.	P. Qty.
90 mm	3/8 inch, 3/4 inch, 1 inch, 1/2 inch, 12 mm	0715 43 009	1
110 mm	1 inch, 3/4 inch, 14 mm, 1/2 inch, 12 mm, 3/8 inch, 9.5 mm, 8 mm	0715 43 007	1

Pipe cutter

Easy cutting of aluminium, copper and thin-walled metal pipes

- Body, slide and turning knob made from high-pressure die-cast zinc
- Steel spindle bearings for smoother carriage movement
- Four guide rollers for optimum pipe grip during cutting
- Longer turning knob sits deep in the hand for effective power transmission
- Tool-free cutting wheel change



Min./max. cutting capacity in steel pipe	Art. no.	P. Qty.
3-45 mm	0714 551 345	1
3-35 mm	0714 551 236	1
3-35 mm	0714 551 331	1

Multi-functional installation wrench

For lavatory seats

- In robust and very high-quality plastic (ABS)
- Universal application, reversible
- Universal swivel head
- Tool produced entirely from plastic



Art. no. 0715 443 10

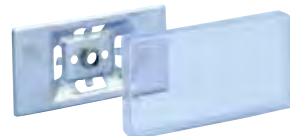
P. Qty.: 1

Screw retainers

Made of sendzimir-galvanized sheet steel, includes plastic cap

Many attachment options with

- Set screws
- Stud bolts
- Screws
- Plumbing pipe clamps
- Drive-in pins



Material	Steel
Surface	Sendzimir galvanized
Connection thread	M8
Length	102 mm
Width	52 mm

Art. no. 0877 100 002

P. Qty.: 25

Tensioning strap retainer

Made of sendzimir-galvanized sheet steel, complete with plastic cap and galvanized tensioning strap

- Attachments over 2 1/2" are also possible with the tensioning strap from the 5 m roll
- No drilling or welding required
- Suitable for all pipe materials
- No-rotation mounting



Material	Steel
Surface	Sendzimir galvanized
Length	102 mm
Width	52 mm

Art. no. 0877 100 001

P. Qty.: 25

Screw connection seal

- High pressure resistance
- High thermal stability
- DVGW-approved
- KTW-approved



Material	Raw material combination consisting of high-quality aramide fibres, special filling materials and elastomers
Colour	Green

Internal diameter x external diameter x thickness (d1 x d2)	Suitable for steel pipe (imperial)	Art. no.	P. Qty.
17 x 24 x 2 mm	1/4 inch	0876 010 17	50
19 x 27 x 2 mm	3/8 inch	0876 010 19	50
21 x 30 x 2 mm	1/2 inch	0876 010 21	50
24 x 34 x 2 mm	1/2 inch	0876 010 24	25
27 x 38 x 2 mm	3/4 inch	0876 010 27	25
32 x 44 x 2 mm	1 inch	0876 010 32	25
42 x 55 x 2 mm	1 1/4 inch	0876 010 42	20
46 x 62 x 2 mm	1 1/2 inch	0876 010 46	20
60 x 78 x 2 mm	2 inch	0876 010 60	15

Heating seal assortment

242 pieces in system case 4.4.1

Number of pieces in assortment/set	242 PCS
System dimensions	4.4.1

Art. no. 5964 087 600

P. Qty.: 1



Contents for art. no. 5964 087 600		
Designation	Art. no.	Quantity
Hose clamp 16-27 mm	0539 116 27	15
Screw connection seal 17 x 24 x 2 mm	0876 010 17	50
Screw connection seal 19 x 27 x 2 mm	0876 010 19	50
Screw connection seal 21 x 30 x 2 mm	0876 010 21	50
Screw connection seal 24 x 34 x 2 mm	0876 010 24	25
Screw connection seal 27 x 38 x 2 mm	0876 010 27	25
Screw connection seal 32 x 44 x 2 mm	0876 010 32	25
PTFE thread-sealing tape Length 12 m	0985 030 160	2
System insert, plastic, 4.4.1 8-fach	5581 003 001	1
System case 4.4.1	5581 020 000	1

Thread sealant paste

For sealing off metal screw connections in conjunction with hemp

Min./max. temperature resistance	-20 to 100 °C
Silicone-free	Yes



Container	Weight of content	Art. no.	P. Qty.
Can	450 g	0892 750	1/12
Tube	150 g	0892 751	1/15
Tube	325 g	0892 752	1/15

DVGW-tested for gas pipes, drinking water pipes (cold/hot) and heating pipes in accordance with approval NV-5142BM0126 Class ARp



Hemp

For sealing off metal screw connections in conjunction with thread sealant paste



Container	Hemp weight	Art. no.	P. Qty.
Plait	200 g	0876 007 200	1
Coil	80 g	0876 007 205	10
Clew	100 g	0876 007 211	1/16

Installation putty

Non-hardening sealing compound with plastic base

Container	Can
Weight of content	500 g
Max. temperature resistance	100 °C

Art. no. 0892 756

P. Qty.: 1



PTFE thread-sealing tape

Used to seal thread connections

- Resistant to all aggressive media
- Does not stick or swell
- Alignment of the thread connection, which includes limited turn-back, is permissible

Material	Polytetrafluoroethylene
Width	12 mm
Length	12 m
Min./max. temperature resistance	-240 to 240 °C
Max. pressure	25 bar
Silicone-free	Yes



Coating weight per m ²	Thickness	Approval mark	Suitable for	Art. no.	P. Qty.
60 g	0.1 mm	DVGW	Fine thread max. nominal diameter 10	0985 030 160	10
100 g	0.1 mm	DVGW	Coarse thread nominal diameter 12 - nominal diameter 50	0985 030 161	10
25 g	0.08 mm			0985 030 165	10



Thread sealing tape

Universal thread sealant for sealing metal or plastic threaded connections

- Simple alignment and adjustment is possible
- No additional pastes required

DVGW-tested for gas, drinking water (cold/hot) and heating pipes in accordance with approval NV-S142BP7097 Class ARp

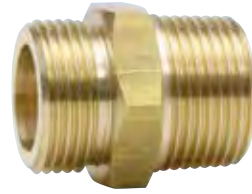
Material	PA - Polyamide
Coating	Silicone-containing, inert paste
Colour	White
Length	160 m
Min./max. temperature conditions	-20 to 130 °C
Approval mark	DVGW

Art. no. 0985 031 160

P. Qty.: 1/20

Double nipple

Material	Brass, suitable for drinking water
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Connection thread	DN nominal width	Art. no.	P. Qty.
ET G 3/8 inch x ET R 3/8 inch	DN 8	0886 000 450	25
ET G 1/2 inch x ET R 1/2 inch	DN 12	0886 000 451	15
ET G 3/4 inch x ET R 3/4 inch	DN 16	0886 000 452	15
ET G 1 inch x ET R 1 inch	DN 20	0886 000 453	10
ET G 1 1/4 inch x ET R 1 1/4 inch	DN 25	0886 000 454	10

Flat gasket

For flat-sealing screw connections of heating and drinking water lines

DVGW-certified

Material	Aramid fibre
Colour	Grey



DN nominal width	Internal diameter (d1)	Outer diameter (d2)	Art. no.	P. Qty.
DN 8	8 mm	15 mm	0886 000 070	100
DN 12	12 mm	18.5 mm	0886 000 071	100
DN 16	16 mm	24 mm	0886 000 072	100
DN 20	20 mm	30 mm	0886 000 073	50
DN 25	25 mm	38.5 mm	0886 000 074	50

Reducing nipple

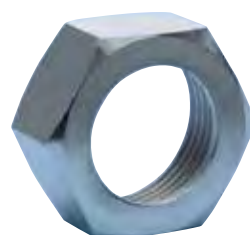
Material	Brass, suitable for drinking water
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Connection thread	DN nominal width	Art. no.	P. Qty.
ET G 3/8 inch x ET G 1/4 inch	DN 8/6	0886 000 560	25
ET G 1/2 inch x ET G 3/8 inch	DN 12/8	0886 000 561	20
ET G 3/4 inch x ET G 1/2 inch	DN 16/12	0886 000 562	20
ET G 1 inch x ET G 3/4 inch	DN 20/16	0886 000 563	10
ET G 1 1/4 inch x ET G 1 inch	DN 25/20	0886 000 564	10

Union nut

Material	Brass
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Surface	Connection thread	DN nominal width	Width across flats (SW)	Art. no.	P. Qty.
Nickel plated	IT G 3/8 inch	DN 8	19 mm	0886 000 020	50
Nickel plated	IT G 1/2 inch	DN 12	24 mm	0886 000 021	40
Nickel plated	IT G 3/4 inch	DN 16	30 mm	0886 000 022	40
Nickel plated	IT G 1 inch	DN 20	36 mm	0886 000 023	20
Nickel plated	IT G 1.1/4 inch	DN 25	46 mm	0886 000 024	10
	IT G 3/8 inch	DN 8	19 mm	0886 000 060	50
	IT G 1/2 inch	DN 12	24 mm	0886 000 061	40
	IT G 3/4 inch	DN 16	30 mm	0886 000 062	40
	IT G 1 inch	DN 20	36 mm	0886 000 063	20
	IT G 1.1/4 inch	DN 25	46 mm	0886 000 064	10

Universal stainless steel corrugated pipe

Can be bent by hand, though still robust and kink-resistant

- Easy and secure creation of a connection with plug-in screw connection or shaping device
- Tested safety with DVGW system certification (stainless steel corrugated pipe, fitting, union nut, seal)
- On rolls. Can be shortened to individual lengths, less wastage



Material	Stainless steel A4, 1.4404
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DN nominal width	Length of roll	Art. no.	P. Qty.
DN 8	20 m	0886 000 050	20
DN 12	20 m	0886 000 051	20
DN 16	15 m	0886 000 052	15
DN 20	15 m	0886 000 053	15
DN 25	10 m	0886 000 054	10



Brass adapter

Suitable for drinking water

Material	Brass
----------	-------



Connection thread	DN nominal width	Width across flats (SW)	Art. no.	P. Qty.
IT Rp 1/2 inch x ET G 1/2 inch	DN 12	24 mm	0886 000 571	15
IT Rp 1 1/4 inch x ET G 1 1/4 inch	DN 25	50 mm	0886 000 574	10
IT Rp 1 inch x ET G 1 inch	DN 20	41 mm	0886 000 573	10
IT Rp 3/4 inch x ET G 3/4 inch	DN 16	32 mm	0886 000 572	15
IT Rp 3/8 inch x ET R 3/8 inch	DN 8	19 mm	0886 000 570	25

Plug-in screw connection with clamping ring

Metallically sealing screw connection for simple connection of stainless-steel corrugated pipe to other pipes, systems and devices

Material	Brass, suitable for drinking water
Max. temperature resistance	200 °C
Max. working pressure	10 bar



DN nominal width	Clamp ring diameter	Art. no.	P. Qty.
DN 12	12 mm	0886 000 500	6
DN 12	15 mm	0886 000 501	6
DN 16	12 mm	0886 000 503	6
DN 16	15 mm	0886 000 504	6
DN 16	18 mm	0886 000 505	6
DN 16	22 mm	0886 000 506	6
DN 20	18 mm	0886 000 508	4
DN 20	22 mm	0886 000 509	4
DN 20	28 mm	0886 000 510	4

Plug-in screw connection with female thread

Metallically sealing screw connection for simple connection of stainless steel corrugated pipe to other pipes, systems and devices.

Material	Brass, suitable for drinking water
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DN nominal width	Connection thread	Art. no.	P. Qty.
DN 12	IT G 1/2 inch	0886 000 601	6
DN 16	IT G 1/2 inch	0886 000 605	6
DN 16	IT G 3/4 inch	0886 000 606	6
DN 16	IT G 1 inch	0886 000 607	6
DN 20	IT G 3/4 inch	0886 000 610	4
DN 20	IT G 1 inch	0886 000 611	4

Plug-in screw connection with connection piece

Metallically sealing screw connection for simple connection of stainless steel corrugated pipe to other pipes, systems and devices.



Material	Brass, suitable for drinking water
Max. temperature resistance	200 °C
Max. working pressure	10 bar

DN nominal width	Connection-piece diameter	Art. no.	P. Qty.
DN 12	12 mm	0886 000 650	6
DN 12	15 mm	0886 000 651	6
DN 16	12 mm	0886 000 653	6
DN 16	15 mm	0886 000 654	6
DN 16	18 mm	0886 000 655	6
DN 16	22 mm	0886 000 656	6
DN 20	18 mm	0886 000 658	4
DN 20	22 mm	0886 000 659	4
DN 20	28 mm	0886 000 660	4

Special lubricant

For HT pipes

- Environmentally friendly as completely biodegradable
- Free from chlorine, formaldehyde and polycyclic aromatics
- Free from substances detrimental to health
- Kind to the skin
- Colourless
- Silicon-free
- Water-soluble



Contents	250 ml
Container	Tube
Colour	Light green

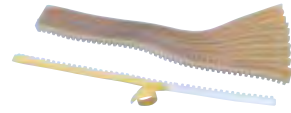
Art. no. 0893 126

P. Qty.: 1/12

Plumbing mounting profile

Strips, self-adhesive on one side

- Can be used universally for all ceramic forms
- Reduces transmission of structure-borne noise
- Reduces ceramic breakage when screwing on



Material	PE - Polyethylene
Colour	Transparent
Length	0.5 m
Width	20 mm
Thickness	2 mm

Art. no. 0905 900 030

P. Qty.: 30

Sound-absorbing strips Universal

Self-adhesive and for universal use with all ceramic shapes

- Reduces transmission of structure-borne noise
- Prevents ceramic breakage when screwing on
- Thanks to its high flexibility, the sound-absorbing strips adapt perfectly to the ceramic, even in the narrowest radii



Material	PE - Polyethylene
Colour	White
Length	45 m
Width	18 mm
Thickness	2.5 mm

Art. no. 0888 001 011

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Tap extension

Pursuant to DIN 3523 for drinking water installations, made from hot-pressed brass pursuant to DIN EN 12164, with inner square, thermally relaxed

Material	Brass
Connection thread	ET 1/2 inch



Length	Art. no.	P. Qty.
15 mm	0886 000 001	10
20 mm	0886 000 002	10
25 mm	0886 000 003	10
30 mm	0886 000 004	10
40 mm	0886 000 005	10





Red brass extensions

With DVGW GW 393 approval (sizes from 1/2 inch x 17.5 mm)

Material	Red bronze - gunmetal
Connection thread	1/2 inch

Length	Approval mark	Art. no.	P. Qty.
12.5 mm		0886 115 125	10
17.5 mm	DVGW	0886 115 175	10
20 mm	DVGW	0886 115 200	10
25 mm	DVGW	0886 115 250	10
30 mm	DVGW	0886 115 300	10
40 mm	DVGW	0886 115 400	10
50 mm	DVGW	0886 115 500	6
65 mm	DVGW	0886 115 650	6
80 mm	DVGW	0886 115 800	6

Shower channel Mounting feet

With soundproof, height-adjustable mounting feet

One-piece, three-dimensional sealing collar with overlap

- 100% watertight
- Easy, reliable connection to the second sealing layer
- No additional sealing strips required

Sealing collar is only installed after the screed has been applied using the butyl sealing tape

- Edge of channel support can be used as a smoothing gauge.

- No damage to sealing collar during construction phase

Soundproof mounting feet, height adjustable from above (Allen key)

Easy, quick and accurate alignment of channel body

Second drainage line in accordance with DIN 18195-5

Prevents build-up of standing water on compound sealant and the associated damage

Can also be mounted on the wall itself

Flexible to use

Height of channel tray can be adjusted in situ

For universal use with covers from 3–12 mm (21 mm*)

Includes securing lugs and nail anchors

For fixing the shower channel to the surface



Min./max. height (H)	88-123 mm
Min./max. installation height with outlet horizontal 5273 320 021	88-123 mm
Min./max. installation height with outlet horizontal 5273 320 022	108-123 mm
Min./max. installation height with outlet horizontal 5273 320 023	108-123 mm
Min./max. installation height with outlet vertical with feet 5273 320 025	88-123 mm
Min. installation height with outlet vertical without feet 5273 320 025	60 mm
Channel-support material	Steel
Surface of the channel support	Zinc plated
Material of sealing collar	PP- Polypropylene
Channel-tray material	Stainless steel

Length x width (L x B)	Art. no.	P. Qty.
630 x 130 mm	5273 300 060	1
730 x 130 mm	5273 300 070	1
830 x 130 mm	5273 300 080	1
930 x 130 mm	5273 300 090	1
1030 x 130 mm	5273 300 100	1
1130 x 130 mm	5273 300 110	1
1230 x 130 mm	5273 300 120	1

Tile recess Line

For linear shower pan, shower channel mounting feet, shower channel assembly block

Made from a single material — no separate installation clips/supports

- Nothing to break off/go missing
- Very easy to clean



Material	Stainless steel
Load class	K3 (up to 300 kg)

Length x width x height	Art. no.	P. Qty.
600 x 60 x 15 mm	5273 336 060	1
700 x 60 x 15 mm	5273 336 070	1
800 x 60 x 15 mm	5273 336 080	1
900 x 60 x 15 mm	5273 336 090	1
1000 x 60 x 15 mm	5273 336 100	1
1100 x 60 x 15 mm	5273 336 110	1
1200 x 60 x 15 mm	5273 336 120	1

Shower channel set Mounting feet

One-piece, three-dimensional sealing collar with overlap

- **100% watertight**
- **Easy, reliable connection to the second sealing layer**

- **No additional sealing strips required**

Sealing collar is only installed after the screed has been applied using the butyl sealing tape

- **Edge of channel support can be used as a smoothing gauge.**

- **No damage to sealing collar during construction phase**

Soundproof mounting feet, height adjustable from above (Allen key)

Easy, quick and accurate alignment of channel body

Second drainage line in accordance with DIN 18195-5

Prevents build-up of standing water on compound sealant and the associated damage

Can also be mounted on the wall itself

Flexible to use

Height of channel tray can be adjusted in situ

For universal use with covers from 3–12 mm (21 mm*)

Includes securing lugs and nail anchors

For fixing the shower channel to the surface



Min./max. height (H)	88-123 mm
Channel-support material	Steel
Surface of the channel support	Zinc plated
Material of sealing collar	PP - Polypropylene
Channel-tray material	Stainless steel

Length x width (L x B)	Gutter length (L _g)	Art. no.	P. Qty.
630 x 130 mm	600 mm	5273 301 060	1
730 x 130 mm	700 mm	5273 301 070	1
830 x 130 mm	800 mm	5273 301 080	1
930 x 130 mm	900 mm	5273 301 090	1
1030 x 130 mm	1000 mm	5273 301 100	1
1130 x 130 mm	1100 mm	5273 301 110	1
1230 x 130 mm	1200 mm	5273 301 120	1

Shower pan Line

Floor-level shower unit with channel drain, sloping on one side.

Bonded sealing membrane with 7 cm overlap

- 100% watertight
- Easy, reliable connection to the second sealing layer
- No additional sealing strips required

General construction authority test certificate (ABP) relating to leak tightness

Safety tested for the overall system, i.e. shower pan, tile adhesive, sealing membrane, corner seals etc.

Height of channel tray can be adjusted in situ

For universal use with covers from 3–12 mm (21 mm²)

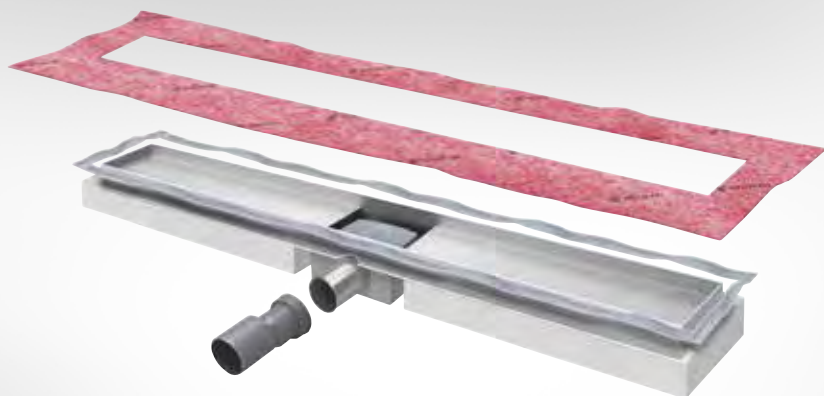
High strength

Suitable for barefoot and wheelchair use with a tile size of 2 x 2 cm or above



Min. installation height with outlet horizontal 5273 320 021	108 mm
Min. installation height with outlet horizontal 5273 320 022	128 mm
Min. installation height with outlet horizontal 5273 320 023	122 mm
Min. installation height with outlet vertical 5273 320 025	40 mm
Material	PS - Polystyrene
Waterproof strip material	PP - Polypropylene
Channel-tray material	Stainless steel
Volumetric weight	60 kg/m ³

Width x depth x height (B x T x H)	Gutter length x gutter width (L x G)	Art. no.	P. Qty.
800 x 800 x 40 mm	700 x 73 mm	5273 200 080	1
800 x 1200 x 40 mm	700 x 73 mm	5273 200 812	1
900 x 900 x 40 mm	800 x 73 mm	5273 200 090	1
900 x 1000 x 40 mm	800 x 73 mm	5273 200 910	1
900 x 1200 x 40 mm	800 x 73 mm	5273 200 912	1
1000 x 1000 x 40 mm	900 x 73 mm	5273 200 100	1
1000 x 1200 x 40 mm	900 x 73 mm	5273 201 012	1
1200 x 1200 x 40 mm	1100 x 73 mm	5273 200 120	1
1200 x 1400 x 40 mm	1100 x 73 mm	5273 201 214	1



Shower channel Super flat

With integral drain

Very low installation height

Sealing collar with overlap

- 100% watertight
- Easy, reliable connection to the second sealing layer
- No additional sealing strips required

General construction authority test certificate (ABP) relating to leak tightness

Safety tested for the overall system, i.e. shower channel, tile adhesive, sealing membrane, corner seals etc.

Sealing collar is only installed after the screed has been applied using the butyl tape

No damage to sealing collar during construction phase

Can also be mounted on the wall itself

Flexible to use

Fully removable siphon

- Extremely easy to clean
- Suitable for pipe cleaning spirals

Height (H)	53 mm
Assembly block material	EPS rigid foam
Material of sealing collar	PP - Polypropylene
Channel-tray material	Stainless steel
Gutter width (B _g)	65 mm
Flange width (X)	15 mm

Drain rate	0.5 l/s
Water-trap height	25 mm
Nominal width of DN outflow	DN 40 horizontal

Length x width (L x B)	Gutter length (L _R)	Art. no.	P. Qty.
540 x 102 mm	500 mm	5273 304 050	1
640 x 102 mm	600 mm	5273 304 060	1
740 x 102 mm	700 mm	5273 304 070	1
840 x 102 mm	800 mm	5273 304 080	1
940 x 102 mm	900 mm	5273 304 090	1
1040 x 102 mm	1000 mm	5273 304 100	1
1140 x 102 mm	1100 mm	5273 304 110	1
1240 x 102 mm	1200 mm	5273 304 120	1

Installation box, standard washbasin, masonry

Hot and cold water, connection dimensions: 150 mm

- Special plaster base board guarantees premium quality in the event of pressure or temperature fluctuations
- Easy height adjustment
- Pre-insulation
- Huge time savings through tension-free pre-mounted and ready-to-connect pipe feedthroughs
- Drywall can be sealed immediately
- Stable subsurface
- Optimum insulation



Box width	240 mm
Box height	270 mm
Box depth	70 mm
Water inlet	Cold water, Warm water
Manufacturer of drain pipe	Geberit
Distance centre of pipe to centre of pipe	150 mm
Drain pipe length	420 mm
Material of the box	Closed-cell polyurethane foam
Manufacturer of pipe system	Freely selectable
Colour	Red

DN tube connection	DN drain pipe	Pipe length	Product weight (per item)	Art. no.	P. Qty.
Nominal diameter 16 from above	DN 40	500 mm	924 g	5275 205 240	1
Nominal diameter 16 from above	DN 50	500 mm	926 g	5275 205 241	1
Nominal diameter 16 from below	DN 40	1000 mm	996 g	5275 205 242	1
Nominal diameter 16 from below	DN 50	1000 mm	1070 g	5275 205 243	1
Nominal diameter 20 from above	DN 40	500 mm	954 g	5275 205 245	1
Nominal diameter 20 from above	DN 50	500 mm	966 g	5275 205 246	1

Continuation **Installation box, standard washbasin, masonry**

DN tube connection	DN drain pipe	Pipe length	Product weight (per item)	Art. no.	P. Qty.
Nominal diameter 20 from below	DN 40	1000 mm	1013 g	5275 205 247	1
Nominal diameter 20 from below	DN 50	1000 mm	1013 g	5275 205 248	1

Please consider the legal instruction at the beginning of this chapter.

Installation box, standard washbasin, masonry

Hot and cold water, connection dimensions: 80 mm

- Special plaster base board guarantees premium quality in the event of pressure or temperature fluctuations
- Easy height adjustment
- Huge time savings through tension-free pre-mounted and ready-to-connect pipe feedthroughs



Box width	160 mm
Box height	270 mm
Box depth	70 mm
Water inlet	Cold water, Warm water
Manufacturer of drain pipe	Geberit
Distance centre of pipe to centre of pipe	80 mm
Material of the box	Closed-cell polyurethane foam
Manufacturer of pipe system	Freely selectable
Colour	Red

DN tube connection	DN drain pipe	Pipe length	Product weight (per item)	Art. no.	P. Qty.
Nominal diameter 16 from above	DN 40	500 mm	924 g	5275 203 240	1
Nominal diameter 16 from above	DN 50	500 mm	926 g	5275 203 241	1
Nominal diameter 16 from below	DN 40	1000 mm	996 g	5275 203 242	1
Nominal diameter 16 from below	DN 50	1000 mm	1070 g	5275 203 243	1
Nominal diameter 20 from above	DN 40	500 mm	954 g	5275 203 245	1
Nominal diameter 20 from above	DN 50	500 mm	966 g	5275 203 246	1
Nominal diameter 20 from below	DN 40	1000 mm	1114 g	5275 203 248	1
Nominal diameter 20 from below	DN 50	1000 mm	1013 g	5275 203 247	1

Please consider the legal instruction at the beginning of this chapter.

Installation box, washbasin, masonry

Cold water connection only

- Only cold-water connection
- Special plaster base board guarantees optimum quality in the event of pressure fluctuations or temperature fluctuations
- Angled corners for easier installation
- Easy height adjustment
- Pre-insulation
- Huge time savings, since pipe feedthroughs are pre-mounted without tension and ready for connection
- Drywall can be sealed immediately
- Support plate offers a permanently stable subsurface
- Optimum insulation



Box width	160 mm
Box height	270 mm
Box depth	70 mm
Water inlet	Cold water
Manufacturer of drain pipe	Geberit
Drain pipe length	420 mm
Material of the box	Closed-cell polyurethane foam
Manufacturer of pipe system	Freely selectable
Colour	Red

DN tube connection	DN drain pipe	Pipe length	Product weight (per item)	Art. no.	P. Qty.
Nominal diameter 16 from above	DN 40	500 mm	522 g	5275 201 240	1
Nominal diameter 16 from above	DN 50	500 mm	522 g	5275 201 241	1
Nominal diameter 16 from below	DN 40	1000 mm	595 g	5275 201 242	1
Nominal diameter 16 from below	DN 50	1000 mm	595 g	5275 201 243	1

Please consider the legal instruction at the beginning of this chapter.

Installation box, standard washbasin, dry walling

Hot and cold water, connection dimensions: 150 mm

- Firmly attached mounting with millimetre precision for optimum soundproofing
- Fast mounting with no need for screwing
- Huge time savings, since pipe feedthroughs are pre-mounted without tension and ready for connection
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Box width	350 mm
Box height	270 mm
Box depth	70 mm
Water inlet	Cold water, Warm water
Manufacturer of drain pipe	Geberit

Continuation **Installation box, standard washbasin, dry walling**

Distance centre of pipe to centre of pipe	150 mm
Material of the box	Closed-cell polyurethane foam
Manufacturer of pipe system	Freely selectable
Colour	Red

DN tube connection	DN drain pipe	Pipe length	Product weight (per item)	Art. no.	P. Qty.
Nominal diameter 16 for looping through from below	DN 40	1000 mm	1560 g	5275 005 244	1
Nominal diameter 16 for looping through from below	DN 50	1000 mm	1670 g	5275 005 245	1
Nominal diameter 16 from above	DN 40	500 mm	1036 g	5275 005 240	1
Nominal diameter 16 from above	DN 50	500 mm	1360 g	5275 005 241	1
Nominal diameter 16 from below	DN 40	1000 mm	1182 g	5275 005 242	1
Nominal diameter 16 from below	DN 50	1000 mm	1430 g	5275 005 243	1
Nominal diameter 20 for looping through from below	DN 40	1000 mm	1598 g	5275 005 250	1
Nominal diameter 20 for looping through from below	DN 50	1000 mm	1710 g	5275 005 251	1
Nominal diameter 20 from above	DN 40	500 mm	1066 g	5275 005 246	1
Nominal diameter 20 from above	DN 50	500 mm	1400 g	5275 005 247	1
Nominal diameter 20 from below	DN 40	1000 mm	1114 g	5275 005 248	1
Nominal diameter 20 from below	DN 50	1000 mm	1470 g	5275 005 249	1

Please consider the legal instruction at the beginning of this chapter.

Installation box, standard washbasin, dry walling

Hot and cold water, connection dimensions: 80 mm

- For millimetre-precise and firm installation so as to ensure optimal sound insulation
- Easy to install without screw connections
- Huge time savings through tension-free pre-mounted and ready-to-connect pipe feedthroughs

Box width	350 mm
Box height	270 mm
Box depth	70 mm
Water inlet	Cold water, Warm water
Manufacturer of drain pipe	Geberit
Distance centre of pipe to centre of pipe	80 mm
Drain pipe length	420 mm
Material of the box	Closed-cell polyurethane foam



Manufacturer of pipe system	Freely selectable
Colour	Red

DN tube connection	DN drain pipe	Pipe length	Product weight (per item)	Art. no.	P. Qty.
Nominal diameter 16 for looping through from below	DN 40	1000 mm	1560 g	5275 003 244	1
Nominal diameter 16 for looping through from below	DN 50	1000 mm	1670 g	5275 003 245	1
Nominal diameter 16 from above	DN 40	500 mm	1036 g	5275 003 240	1
Nominal diameter 16 from above	DN 50	500 mm	1360 g	5275 003 241	1
Nominal diameter 16 from below	DN 40	1000 mm	1182 g	5275 003 242	1
Nominal diameter 16 from below	DN 50	1000 mm	1430 g	5275 003 243	1
Nominal diameter 20 for looping through from below	DN 40	1000 mm	1598 g	5275 003 250	1
Nominal diameter 20 for looping through from below	DN 50	1000 mm	1710 g	5275 003 251	1
Nominal diameter 20 from above	DN 40	500 mm	1066 g	5275 003 246	1
Nominal diameter 20 from above	DN 50	500 mm	1400 g	5275 003 247	1
Nominal diameter 20 from below	DN 40	1000 mm	1266 g	5275 003 248	1
Nominal diameter 20 from below	DN 50	1000 mm	1470 g	5275 003 249	1

Please consider the legal instruction at the beginning of this chapter.

Installation box, washbasin, dry walling

Cold water connection only

- Cold-water connection only
- Firmly attached mounting with millimetre precision for optimum soundproofing
- Fast mounting with no need for screwing
- Huge time savings, since pipe feedthroughs are pre-mounted without tension and ready for connection
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Box width	350 mm
Box height	270 mm
Box depth	70 mm
Water inlet	Cold water
Manufacturer of drain pipe	Geberit
Drain pipe length	420 mm
Material of the box	Closed-cell polyurethane foam
Manufacturer of pipe system	Freely selectable
Colour	Red

Continuation Installation box, washbasin, dry walling

DN tube connection	DN drain pipe	Pipe length	Product weight (per item)	Art. no.	P. Qty.
Nominal diameter 16 for looping through from below	DN 40	1000 mm	975 g	5275 001 244	1
Nominal diameter 16 for looping through from below	DN 50	1000 mm	1075 g	5275 001 245	1
Nominal diameter 16 from above	DN 40	500 mm	702 g	5275 001 240	1
Nominal diameter 16 from above	DN 50	500 mm	702 g	5275 001 241	1
Nominal diameter 16 from below	DN 40	1000 mm	775 g	5275 001 242	1
Nominal diameter 16 from below	DN 50	1000 mm	775 g	5275 001 243	1

Please consider the legal instruction at the beginning of this chapter.

Installation box washbasin handicapped-accessible masonry

Hot and cold water connection dimensions: 220 mm, only UP box

Box width	340 mm
Box height	431 mm
Box depth	70 mm
Water inlet	Cold water, Warm water
Manufacturer of drain pipe	Geberit
Material of the box	Closed-cell polyurethane foam
DN drain pipe	DN 32
Pipe length	1000 mm
Colour	Red
Product weight (per item)	1400 g



DN tube connection	Art. no.	P. Qty.
Nominal diameter 16 for looping through from below	5275 206 244	1
Nominal diameter 16 from below	5275 206 241	1
Nominal diameter 20 for looping through from below	5275 206 245	1
Nominal diameter 20 from below	5275 206 243	1

Please consider the legal instruction at the beginning of this chapter.

Installation box washbasin handicapped-accessible dry walling

Hot and cold water, connection dimensions: 220 mm only UP box

Box width	340 mm
Box height	431 mm
Box depth	70 mm
Water inlet	Cold water, Warm water
Manufacturer of drain pipe	Geberit



Distance centre of pipe to centre of pipe	220 mm
Material of the box	Closed-cell polyurethane foam
DN drain pipe	DN 32
Pipe length	1000 mm
Colour	Red
Product weight (per item)	1400 g

DN tube connection	Art. no.	P. Qty.
Nominal diameter 16 for looping through from below	5275 006 244	1
Nominal diameter 16 from below	5275 006 241	1
Nominal diameter 20 for looping through from below	5275 006 245	1
Nominal diameter 20 from below	5275 006 243	1

Please consider the legal instruction at the beginning of this chapter.

Installation box shower tray flush-mounted mixer dry walling

Completely pre-installed box for rapid mounting and problem-free pipe feedthroughs.

- Firmly attached mounting with millimetre precision for optimum soundproofing
- Fast mounting with no need for screwing
- Huge time savings, since pipe feedthroughs are pre-mounted without tension and ready for connection
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Box width	365 mm
Box height	330 mm
Box depth	70 mm
DN tube connection	DN.. 20..
Pipe length	1500 mm
Material of the box	Closed-cell polyurethane foam
Material of the pipe	Polyethylene polymerised
Colour	Red

Flush-mount body	Position of discharge tube	Head shower	Product weight (per item)	Art. no.	P. Qty.
HANSA Bluebox without stop cock	Central	With heat shower	3535 g	5275 015 340	1
HANSA Bluebox without stop cock	Left	With heat shower	3535 g	5275 015 346	1
HANSA Bluebox without stop cock	Right	With heat shower	3535 g	5275 015 352	1
HANSA Bluebox with stop cock	Central	With heat shower	3560 g	5275 015 341	1
HANSA Bluebox with stop cock	Left	With heat shower	3560 g	5275 015 347	1
HANSA Bluebox with stop cock	Right	With heat shower	3560 g	5275 015 353	1
Kludi FLEXX.BOX	Central	With heat shower	3823 g	5275 015 342	1
Kludi FLEXX.BOX	Left	With heat shower	3823 g	5275 015 348	1
Kludi FLEXX.BOX	Right	With heat shower	3823 g	5275 015 354	1

Continuation **Installation box shower tray flush-mounted mixer** **dry walling**

Flush-mount body	Position of discharge tube	Head shower	Product weight (per item)	Art. no.	P. Qty.
Hansgrohe iBox universal	Central	With heat shower	2975 g	5275 015 345	1
Hansgrohe iBox universal	Left	With heat shower	2975 g	5275 015 351	1
Hansgrohe iBox universal	Right	With heat shower	2975 g	5275 015 357	1
Ideal Standard Easybox	Central	With heat shower	4100 g	5275 015 358	1
Ideal Standard Easybox	Left	With heat shower	4100 g	5275 015 359	1
Ideal Standard Easybox	Right	With heat shower	4100 g	5275 015 360	1
Grohe Rapido T	Central	With heat shower	4100 g	5275 015 361	1
Grohe Smartbox	Central	With heat shower	4100 g	5275 015 364	1
Grohe Rapido T	Left	With heat shower	4100 g	5275 015 362	1
Grohe Smartbox	Left	With heat shower	4100 g	5275 015 365	1
Grohe Rapido T	Right	With heat shower	4100 g	5275 015 363	1
Grohe Smartbox	Right	With heat shower	4100 g	5275 015 366	1
HANSA Bluebox without stop cock	Central	Without head shower	3535 g	5275 015 440	1
HANSA Bluebox without stop cock	Left	Without head shower	3535 g	5275 015 446	1
HANSA Bluebox without stop cock	Right	Without head shower	3535 g	5275 015 452	1
HANSA Bluebox without stop cock	Free up	Without head shower	3535 g	5275 015 400	1
HANSA Bluebox with stop cock	Central	Without head shower	3560 g	5275 015 441	1
HANSA Bluebox with stop cock	Left	Without head shower	3560 g	5275 015 447	1
HANSA Bluebox with stop cock	Right	Without head shower	3560 g	5275 015 453	1
HANSA Bluebox with stop cock	Free up	Without head shower	3560 g	5275 015 401	1
Kludi FLEXX.BOXX	Central	Without head shower	3823 g	5275 015 442	1
Kludi FLEXX.BOXX	Left	Without head shower	3823 g	5275 015 448	1
Kludi FLEXX.BOXX	Right	Without head shower	3823 g	5275 015 454	1
Kludi FLEXX.BOXX	Free up	Without head shower	3823 g	5275 015 402	1
Hansgrohe iBox universal	Central	Without head shower	2975 g	5275 015 445	1
Hansgrohe iBox universal	Left	Without head shower	2975 g	5275 015 451	1
Hansgrohe iBox universal	Right	Without head shower	2975 g	5275 015 457	1
Hansgrohe iBox universal	Free up	Without head shower	2975 g	5275 015 405	1
Ideal Standard Easybox	Central	Without head shower	4100 g	5275 015 458	1
Ideal Standard Easybox	Left	Without head shower	4100 g	5275 015 459	1
Ideal Standard Easybox	Right	Without head shower	4100 g	5275 015 460	1
Ideal Standard Easybox	Free up	Without head shower	4100 g	5275 015 406	1
Grohe Rapido T	Central	Without head shower	4100 g	5275 015 461	1

Flush-mount body	Position of discharge tube	Head shower	Product weight (per item)	Art. no.	P. Qty.
Grohe Smartbox	Central	Without head shower	4100 g	5275 015 464	1
Grohe Rapido T	Left	Without head shower	4100 g	5275 015 462	1
Grohe Smartbox	Left	Without head shower	4100 g	5275 015 465	1
Grohe Rapido T	Right	Without head shower	4100 g	5275 015 463	1
Grohe Smartbox	Right	Without head shower	4100 g	5275 015 466	1
Grohe Rapido T	Free up	Without head shower	4100 g	5275 015 407	1
Grohe Smartbox	Free up	Without head shower	4100 g	5275 015 408	1

Please consider the legal instruction at the beginning of this chapter.

Installation box shower tray flush-mounted mixer masonry

Completely pre-installed box for rapid mounting and problem-free pipe feedthroughs

- Special plaster base board guarantees optimum quality in the event of pressure fluctuations or temperature fluctuations
- Angled corners for easier installation
- Easy height adjustment
- Pre-insulation
- Huge time savings, since pipe feedthroughs are pre-mounted without tension and ready for connection
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Box width	365 mm
Box height	330 mm
Box depth	70 mm
DN tube connection	DN.. 20..
Pipe length	1500 mm
Material of the box	Closed-cell polyurethane foam
Material of the pipe	Polyethylene polymerised
Colour	Red

Flush-mount body	Position of discharge tube	Head shower	Product weight (per item)	Art. no.	P. Qty.
HANSA Bluebox without stop cock	Central	With heat shower	3455 g	5275 215 340	1
HANSA Bluebox without stop cock	Left	With heat shower	3455 g	5275 215 346	1
HANSA Bluebox without stop cock	Right	With heat shower	3455 g	5275 215 352	1
HANSA Bluebox with stop cock	Central	With heat shower	3480 g	5275 215 341	1
HANSA Bluebox with stop cock	Left	With heat shower	3480 g	5275 215 347	1
HANSA Bluebox with stop cock	Right	With heat shower	3480 g	5275 215 353	1
Kludi FLEXX.BOXX	Central	With heat shower	3743 g	5275 215 342	1
Kludi FLEXX.BOXX	Left	With heat shower	3743 g	5275 215 348	1

Continuation **Installation box shower tray flush-mounted mixer masonry**

Flush-mount body	Position of discharge tube	Head shower	Product weight (per item)	Art. no.	P. Qty.
Kludi FLEXX.BOX	Right	With heat shower	3743 g	5275 215 354	1
Hansgrohe iBox universal	Central	With heat shower	2895 g	5275 215 345	1
Hansgrohe iBox universal	Left	With heat shower	2895 g	5275 215 351	1
Hansgrohe iBox universal	Right	With heat shower	2895 g	5275 215 357	1
Grohe Smartbox	Central	With heat shower	4100 g	5275 215 364	1
Grohe Smartbox	Left	With heat shower	4100 g	5275 215 365	1
Grohe Smartbox	Right	With heat shower	4100 g	5275 215 366	1
Ideal Standard Easybox	Central	With heat shower	4100 g	5275 215 358	1
Ideal Standard Easybox	Left	With heat shower	4100 g	5275 215 359	1
Ideal Standard Easybox	Right	With heat shower	4100 g	5275 215 360	1
Grohe Rapido T	Central	With heat shower	4100 g	5275 215 361	1
Grohe Rapido T	Left	With heat shower	4100 g	5275 215 362	1
Grohe Rapido T	Right	With heat shower	4100 g	5275 215 363	1
HANSA Bluebox without stop cock	Central	Without head shower	3455 g	5275 215 440	1
HANSA Bluebox without stop cock	Left	Without head shower	3455 g	5275 215 446	1
HANSA Bluebox without stop cock	Right	Without head shower	3455 g	5275 215 452	1
HANSA Bluebox without stop cock	Free up	Without head shower	3455 g	5275 215 400	1
HANSA Bluebox with stop cock	Central	Without head shower	3480 g	5275 215 441	1
HANSA Bluebox with stop cock	Left	Without head shower	3480 g	5275 215 447	1
HANSA Bluebox with stop cock	Right	Without head shower	3480 g	5275 215 453	1
HANSA Bluebox with stop cock	Free up	Without head shower	3480 g	5275 215 401	1
Kludi FLEXX.BOX	Central	Without head shower	3743 g	5275 215 442	1
Kludi FLEXX.BOX	Left	Without head shower	3743 g	5275 215 448	1
Kludi FLEXX.BOX	Right	Without head shower	3743 g	5275 215 454	1
Kludi FLEXX.BOX	Free up	Without head shower	3743 g	5275 215 402	1
Hansgrohe iBox universal	Central	Without head shower	2895 g	5275 215 445	1
Hansgrohe iBox universal	Left	Without head shower	2895 g	5275 215 451	1
Hansgrohe iBox universal	Right	Without head shower	2895 g	5275 215 457	1
Hansgrohe iBox universal	Free up	Without head shower	2895 g	5275 215 405	1
Grohe Smartbox	Central	Without head shower	4100 g	5275 215 464	1
Grohe Smartbox	Free up	Without head shower	4100 g	5275 215 408	1
Grohe Smartbox	Left	Without head shower	4100 g	5275 215 465	1
Grohe Smartbox	Right	Without head shower	4100 g	5275 215 466	1

Flush-mount body	Position of discharge tube	Head shower	Product weight (per item)	Art. no.	P. Qty.
Ideal Standard Easybox	Central	Without head shower	4100 g	5275 215 458	1
Ideal Standard Easybox	Left	Without head shower	4100 g	5275 215 459	1
Ideal Standard Easybox	Right	Without head shower	4100 g	5275 215 460	1
Ideal Standard Easybox	Free up	Without head shower	4100 g	5275 215 406	1
Grohe Rapido T	Central	Without head shower	4100 g	5275 215 461	1
Grohe Rapido T	Left	Without head shower	4100 g	5275 215 462	1
Grohe Rapido T	Right	Without head shower	4100 g	5275 215 463	1
Grohe Rapido T	Free up	Without head shower	4100 g	5275 215 407	1

Please consider the legal instruction at the beginning of this chapter.

Installation box, bath tub, flush-mounted mixer, masonry

Completely pre-installed box for rapid mounting and problem-free pipe feedthroughs

- Special plaster base board guarantees premium quality in the event of pressure or temperature fluctuations
- Easy height adjustment
- Pre-insulation
- Huge time savings through tension-free pre-mounted and ready-to-connect pipe feedthroughs
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Box width	365 mm
Box height	330 mm
Box depth	70 mm
DN tube connection	DN.. 20..
Pipe length	1000 mm
Material of the box	Closed-cell polyurethane foam
Manufacturer of pipe system	Freely selectable
Colour	Red

Flush-mount body	Position of discharge tube	Product weight (per item)	Art. no.	P. Qty.
Grohe Rapido T	Central	4100 g	5275 213 361	1
Grohe Rapido T	Free down	4100 g	5275 213 407	1
Grohe Rapido T	Left	4100 g	5275 213 362	1
Grohe Rapido T	Right	4100 g	5275 213 363	1
Grohe Smartbox	Central	4100 g	5275 213 364	1
Grohe Smartbox	Free down	4100 g	5275 213 408	1
Grohe Smartbox	Left	4100 g	5275 213 365	1
Grohe Smartbox	Right	4100 g	5275 213 366	1
HANSA Bluebox without stop cock	Central	3455 g	5275 213 340	1
HANSA Bluebox without stop cock	Free down	3455 g	5275 213 400	1

Continuation **Installation box, bath tub, flush-mounted mixer, masonry**

Flush-mount body	Position of discharge tube	Product weight (per item)	Art. no.	P. Qty.
HANSA Bluebox without stop cock	Left	3455 g	5275 213 346	1
HANSA Bluebox without stop cock	Right	3455 g	5275 213 352	1
HANSA Bluebox with stop cock	Central	3480 g	5275 213 341	1
HANSA Bluebox with stop cock	Free down	3480 g	5275 213 401	1
HANSA Bluebox with stop cock	Left	3480 g	5275 213 347	1
HANSA Bluebox with stop cock	Right	3480 g	5275 213 353	1
Hansgrohe iBox universal	Central	2895 g	5275 213 345	1
Hansgrohe iBox universal	Free down	2895 g	5275 213 405	1
Hansgrohe iBox universal	Left	2895 g	5275 213 351	1
Hansgrohe iBox universal	Right	2895 g	5275 213 357	1
Ideal Standard Easybox	Central	4100 g	5275 213 358	1
Ideal Standard Easybox	Free down	4100 g	5275 213 406	1
Ideal Standard Easybox	Left	4100 g	5275 213 359	1
Ideal Standard Easybox	Right	4100 g	5275 213 360	1
Kludi FLEXX.BOXX	Central	3743 g	5275 213 342	1
Kludi FLEXX.BOXX	Free down	3743 g	5275 213 402	1
Kludi FLEXX.BOXX	Left	3743 g	5275 213 348	1
Kludi FLEXX.BOXX	Right	3743 g	5275 213 354	1

Please consider the legal instruction at the beginning of this chapter.

Installation box, bath tub shower tray, surface-mounted, masonry

Hot and cold water, gauge: 153 mm

- Special plaster base board guarantees premium quality in the event of pressure or temperature fluctuations
- Easy height adjustment
- Huge time savings through tension-free pre-mounted and ready-to-connect pipe feedthroughs

Box width	230 mm
Box height	145 mm
Box depth	50 mm
Water inlet	Cold water, Warm water
Distance centre of pipe to centre of pipe	153 mm
Pipe length	1500 mm
Material of the box	Closed-cell polyurethane foam
Manufacturer of pipe system	Freely selectable
Colour	Red



DN tube connection	Product weight (per item)	Art. no.	P. Qty.
Nominal diameter 16 from above	340 g	5275 211 240	1
Nominal diameter 16 from below	340 g	5275 211 241	1
Nominal diameter 20 from above	380 g	5275 211 242	1
Nominal diameter 20 from below	380 g	5275 211 243	1

Please consider the legal instruction at the beginning of this chapter.



Installation box, bath and shower tub, surface-mounted, dry walling

Hot and cold water, gauge: 153 mm

- For millimetre-precise and firm installation so as to ensure optimal sound insulation
- Easy to install without screw connections
- Huge time savings through tension-free pre-mounted and ready-to-connect pipe feedthroughs

Box width	350 mm
Box height	235 mm
Box depth	50 mm
Water inlet	Warm water, Cold water
Distance centre of pipe to centre of pipe	153 mm
Pipe length	1500 mm
Material of the box	Closed-cell polyurethane foam
Manufacturer of pipe system	Freely selectable
Colour	Red

DN tube connection	Product weight (per item)	Art. no.	P. Qty.
Nominal diameter 16 for looping through from below	915 g	5275 011 244	1
Nominal diameter 16 from above	782 g	5275 011 240	1
Nominal diameter 16 from below	782 g	5275 011 241	1
Nominal diameter 20 for looping through from below	1166 g	5275 011 245	1

DN tube connection	Product weight (per item)	Art. no.	P. Qty.
Nominal diameter 20 from above	866 g	5275 011 242	1
Nominal diameter 20 from below	866 g	5275 011 243	1

Please consider the legal instruction at the beginning of this chapter.

Installation box, bath tub, flush-mounted mixer, dry walling

Completely pre-installed box for rapid mounting and problem-free pipe feedthroughs

- Firmly attached mounting with millimetre precision for optimum soundproofing
- Fast mounting with no need for screwing
- Huge time savings, since pipe feedthroughs are pre-mounted without tension and ready for connection
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Box width	365 mm
Box height	330 mm
Box depth	70 mm
DN tube connection	DN.. 20..
Material of the box	Closed-cell polyurethane foam
Manufacturer of pipe system	Freely selectable
Colour	Red

Pipe length	Flush-mount body	Position of discharge tube	Product weight (per item)	Art. no.	P. Qty.
1000 mm	Grohe Rapido T	Central	4100 g	5275 013 361	1
1000 mm	Grohe Rapido T	Free down	4100 g	5275 013 407	1
1000 mm	Grohe Rapido T	Left	4100 g	5275 013 362	1
1000 mm	Grohe Rapido T	Right	4100 g	5275 013 363	1
1000 mm	Grohe Smartbox	Free down	4100 g	5275 013 408	1
1000 mm	Grohe Smartbox	Left	4100 g	5275 013 365	1
1000 mm	Grohe Smartbox	Right	4100 g	5275 013 366	1
1000 mm	HANSA Bluebox without stop cock	Central	3535 g	5275 013 340	1
1000 mm	HANSA Bluebox without stop cock	Free down	2975 g	5275 013 400	1
1000 mm	HANSA Bluebox without stop cock	Left	3535 g	5275 013 346	1
1000 mm	HANSA Bluebox without stop cock	Right	3535 g	5275 013 352	1
1000 mm	HANSA Bluebox with stop cock	Central	3560 g	5275 013 341	1
1000 mm	HANSA Bluebox with stop cock	Free down	2975 g	5275 013 401	1
1000 mm	HANSA Bluebox with stop cock	Left	3560 g	5275 013 347	1
1000 mm	HANSA Bluebox with stop cock	Right	3560 g	5275 013 353	1
1000 mm	Hansgrohe iBox universal	Central	2975 g	5275 013 345	1
1000 mm	Hansgrohe iBox universal	Free down	2975 g	5275 013 405	1
1000 mm	Hansgrohe iBox universal	Left	2975 g	5275 013 351	1

Continuation **Installation box, bath tub, flush-mounted mixer, dry walling**

Pipe length	Flush-mount body	Position of discharge tube	Product weight (per item)	Art. no.	P. Qty.
1000 mm	Hansgrohe iBox universal	Right	2975 g	5275 013 357	1
1000 mm	Ideal Standard Easybox	Central	4100 g	5275 013 358	1
1000 mm	Ideal Standard Easybox	Free down	4100 g	5275 013 406	1
1000 mm	Ideal Standard Easybox	Left	4100 g	5275 013 359	1
1000 mm	Ideal Standard Easybox	Right	4100 g	5275 013 360	1
1000 mm	Kludi FLEXX.BOX	Central	3823 g	5275 013 342	1
1000 mm	Kludi FLEXX.BOX	Free down	2975 g	5275 013 402	1
1000 mm	Kludi FLEXX.BOX	Left	3823 g	5275 013 348	1
1000 mm	Kludi FLEXX.BOX	Right	3823 g	5275 013 354	1
1500 mm	Grohe Smartbox	Central	4100 g	5275 013 364	1

Please consider the legal instruction at the beginning of this chapter.

Installation box, kitchen sink, masonry

Hot and cold water connection dimensions: 160 mm

- Special plaster base board guarantees premium quality in the event of pressure or temperature fluctuations
- Easy height adjustment
- Pre-insulation
- Huge time savings through tension-free pre-mounted and ready-to-connect pipe feedthroughs
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Box width	240 mm
Box height	270 mm
Box depth	70 mm
Distance centre of pipe to centre of pipe	160 mm
Manufacturer of drain pipe	Geberit
DN drain pipe	DN 50
Material of the box	Closed-cell polyurethane foam
Manufacturer of pipe system	Freely selectable
Colour	Red

DN tube connection	Pipe length	Drain pipe length	Product weight (per item)	Art. no.	P. Qty.
Nominal diameter 16 from above	500 mm	420 mm	1072 g	5275 207 240	1
Nominal diameter 16 from below	1000 mm	475 mm	1142 g	5275 207 241	1
Nominal diameter 20 from above	500 mm	420 mm	1112 g	5275 207 243	1
Nominal diameter 20 from below	1000 mm	475 mm	1812 g	5275 207 244	1

Please consider the legal instruction at the beginning of this chapter.

Install. box, kitchen sink, dry walling

Hot and cold water, connection dimensions: 160 mm

- Firmly attached mounting with millimetre precision for optimum soundproofing
- Fast mounting with no need for screwing
- Huge time savings, since pipe feedthroughs are pre-mounted without tension and ready for connection
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Box width	350 mm
Box height	270 mm
Box depth	70 mm
Distance centre of pipe to centre of pipe	160 mm
Manufacturer of drain pipe	Geberit
DN drain pipe	DN 50
Material of the box	Closed-cell polyurethane foam
Manufacturer of pipe system	Freely selectable
Colour	Red

DN tube connection	Pipe length	Drain pipe length	Product weight (per item)	Art. no.	P. Qty.
Nominal diameter 16 for looping through from below	1000 mm	475 mm	1610 g	5275 007 242	1
Nominal diameter 16 from above	500 mm	475 mm	1410 g	5275 007 240	1
Nominal diameter 16 from below	1000 mm	420 mm	1510 g	5275 007 241	1
Nominal diameter 20 for looping through from below	1000 mm	420 mm	1820 g	5275 007 245	1
Nominal diameter 20 from above	500 mm	475 mm	1420 g	5275 007 243	1
Nominal diameter 20 from below	1000 mm	420 mm	1570 g	5275 007 244	1

Please consider the legal instruction at the beginning of this chapter.

Installation box, washing machine connection, masonry

Flush-mounted syphon, including covering rosette and connection bend

- Special plaster base board guarantees premium quality in the event of pressure or temperature fluctuations
- Easy height adjustment
- Pre-insulation
- Huge time savings through tension-free pre-mounted and ready-to-connect pipe feedthroughs
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Box width	200 mm
Box height	270 mm
Box depth	70 mm
Material of the box	Closed-cell polyurethane foam
DN drain pipe	DN 50
Pipe length	1500 mm
Design	Including covering rosette and connection curve
Manufacturer of pipe system	Freely selectable
Colour	Red

Water inlet	DN tube connection	Product weight (per item)	Art. no.	P. Qty.
Cold water	Nominal diameter 16 from above	610 g	5275 209 241	1
Cold water	Nominal diameter 16 from below	680 g	5275 209 242	1
Cold water	Nominal diameter 20 from above	620 g	5275 209 243	1
Cold water	Nominal diameter 20 from below	675 g	5275 209 244	1
Without		310 g	5275 209 000	1

Please consider the legal instruction at the beginning of this chapter.

Installation box, washing machine connection, dry walling

Flush-mounted syphon, with or without socket, including cover rosette and connecting bend

- Firmly attached mounting with millimetre precision for optimum soundproofing
- Fast mounting with no need for screwing
- Huge time savings, since pipe feedthroughs are pre-mounted without tension and ready for connection
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Box width	350 mm
Box height	270 mm
Box depth	70 mm
Material of the box	Closed-cell polyurethane foam

DN drain pipe	DN 50
Manufacturer of pipe system	Freely selectable
Colour	Red

Water inlet	DN tube connection	Pipe length	Design	Product weight (per item)	Art. no.	P. Qty.
Without			With socket	426 g	5275 009 000	1
Cold water	Nominal diameter 16 from above	500 mm		1026 g	5275 009 240	1
Cold water	Nominal diameter 16 from below	1000 mm		1026 g	5275 009 241	1
Cold water	Nominal diameter 16 for looping through from below	1000 mm		1326 g	5275 009 242	1
Cold water	Nominal diameter 20 from above	500 mm		1066 g	5275 009 243	1
Cold water	Nominal diameter 20 from below	1000 mm		1066 g	5275 009 244	1
Cold water	Nominal diameter 20 for looping through from below	1000 mm		1366 g	5275 009 245	1
Cold water	Nominal diameter 16 from above	500 mm	With socket	3225 g	5275 009 246	1
Cold water	Nominal diameter 16 from below	1000 mm	With socket	3225 g	5275 009 247	1
Cold water	Nominal diameter 16 for looping through from below	1000 mm	With socket	3526 g	5275 009 248	1
Cold water	Nominal diameter 20 from above	500 mm	With socket	3566 g	5275 009 249	1
Cold water	Nominal diameter 20 from below	1000 mm	With socket	3566 g	5275 009 250	1
Cold water	Nominal diameter 20 for looping through from below	1000 mm	With socket	3866 g	5275 009 251	1

Please consider the legal instruction at the beginning of this chapter.

Installation box, shut-off valve, masonry

Completely pre-installed box for rapid mounting and problem-free pipe feedthroughs

- Special plaster base board guarantees premium quality in the event of pressure or temperature fluctuations
- Easy height adjustment
- Pre-insulation
- Huge time savings through tension-free pre-mounted and ready-to-connect pipe feedthroughs
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Box height	180 mm
Box depth	70 mm
Pipe length	500 mm
Manufacturer of shut-off valve	Kludi
Material of the box	Closed-cell polyurethane foam
Manufacturer of pipe system	Freely selectable
Colour	Red

Box width	DN tube connection	Shut-off valve	Number of shut-off valve	Product weight (per item)	Art. no.	P. Qty.
160 mm	Nominal diameter 20 from above	1/2 inch	1 PCS	665 g	5275 217 260	1
160 mm	Nominal diameter 20 from above	3/4 inch	1 PCS	665 g	5275 217 261	1
160 mm	Nominal diameter 20 from below	1/2 inch	1 PCS	710 g	5275 217 240	1
160 mm	Nominal diameter 20 from below	3/4 inch	1 PCS	970 g	5275 217 241	1
350 mm	Nominal diameter 20 from above	1/2 inch	2 PCS	1420 g	5275 217 262	1
350 mm	Nominal diameter 20 from above	3/4 inch	2 PCS	1420 g	5275 217 263	1
350 mm	Nominal diameter 20 from below	1/2 inch	2 PCS	1420 g	5275 217 242	1
350 mm	Nominal diameter 20 from below	3/4 inch	2 PCS	1420 g	5275 217 243	1

Please consider the legal instruction at the beginning of this chapter.

Installation box water meter masonry

Includes shut-off valve 3/4 inch

- Firmly attached mounting with millimetre precision for optimum soundproofing
- Fast mounting with no need for screwing
- Huge time savings, since pipe feedthroughs are pre-mounted without tension and ready for connection
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Box height	240 mm
Box depth	70 mm
Shut-off valve	3/4 inch
Material of the box	Closed-cell polyurethane foam
Colour	Red

Box width	Manufacturer of water meter	Manufacturer of shut-off valve	Number of water meter	Product weight (per item)	Art. no.	P. Qty.
170 mm	Techem	Grohe	1 PCS	1722 g	5275 220 000	1
170 mm	Techem	Kludi	1 PCS	1722 g	5275 220 001	1
170 mm	Techem	Ideal Standard	1 PCS	1722 g	5275 220 002	1
170 mm	Ista	Grohe	1 PCS	1722 g	5275 220 010	1
170 mm	Ista	Kludi	1 PCS	1722 g	5275 220 011	1
170 mm	Ista	Ideal Standard	1 PCS	1722 g	5275 220 012	1
170 mm	Allmess	Grohe	1 PCS	1722 g	5275 220 030	1
170 mm	Allmess	Kludi	1 PCS	1722 g	5275 220 031	1
170 mm	Allmess	Ideal Standard	1 PCS	1722 g	5275 220 032	1
350 mm	Techem	Grohe	2 PCS	2800 g	5275 220 060	1
350 mm	Techem	Kludi	2 PCS	2800 g	5275 220 061	1
350 mm	Techem	Ideal Standard	2 PCS	2800 g	5275 220 062	1
350 mm	Ista	Grohe	2 PCS	2800 g	5275 220 070	1
350 mm	Ista	Kludi	2 PCS	2800 g	5275 220 071	1
350 mm	Ista	Ideal Standard	2 PCS	2800 g	5275 220 072	1
350 mm	Allmess	Grohe	2 PCS	2800 g	5275 220 090	1
350 mm	Allmess	Kludi	2 PCS	2800 g	5275 220 091	1
350 mm	Allmess	Ideal Standard	2 PCS	2800 g	5275 220 092	1

Please consider the legal instruction at the beginning of this chapter.

Installation box water meter dry construction

Includes shut-off valve 3/4 inch

- Firmly attached mounting with millimetre precision for optimum soundproofing
- Fast mounting with no need for screwing
- Huge time savings, since pipe feedthroughs are pre-mounted without tension and ready for connection
- Drywall can be sealed immediately
- Base board offers a permanently stable subsurface
- Optimum insulation



Continuation **Installation box water meter dry construction**

Box height	240 mm
Box depth	70 mm
Shut-off valve	3/4 inch
Material of the box	Closed-cell polyurethane foam
Colour	Red

Box width	Manufacturer of water meter	Manufacturer of shut-off valve	Number of water meter	Product weight (per item)	Art. no.	P. Qty.
170 mm	Techem	Grohe	1 PCS	1722 g	5275 020 000	1
170 mm	Techem	Kludi	1 PCS	1722 g	5275 020 001	1
170 mm	Techem	Ideal Standard	1 PCS	1722 g	5275 020 002	1
170 mm	Ista	Grohe	1 PCS	1722 g	5275 020 010	1
170 mm	Ista	Kludi	1 PCS	1722 g	5275 020 011	1
170 mm	Ista	Ideal Standard	1 PCS	1722 g	5275 020 012	1
170 mm	Allmess	Grohe	1 PCS	1722 g	5275 020 030	1
170 mm	Allmess	Kludi	1 PCS	1722 g	5275 020 031	1
170 mm	Allmess	Ideal Standard	1 PCS	1722 g	5275 020 032	1
350 mm	Techem	Grohe	2 PCS	4422 g	5275 020 060	1
350 mm	Techem	Kludi	2 PCS	4422 g	5275 020 061	1
350 mm	Techem	Ideal Standard	2 PCS	4422 g	5275 020 062	1
350 mm	Ista	Grohe	2 PCS	4422 g	5275 020 070	1
350 mm	Ista	Kludi	2 PCS	4422 g	5275 020 071	1
350 mm	Ista	Ideal Standard	2 PCS	4422 g	5275 020 072	1
350 mm	Allmess	Grohe	2 PCS	4422 g	5275 020 090	1
350 mm	Allmess	Kludi	2 PCS	4422 g	5275 020 091	1
350 mm	Allmess	Ideal Standard	2 PCS	4422 g	5275 020 092	1

Please consider the legal instruction at the beginning of this chapter.

Radiator installation box, dry walling

Free choice of pipe system. Completely pre-installed box for rapid mounting and problem-free pipe feedthroughs.

- For millimetre-precise and firm installation so as to ensure optimal sound insulation
- Easy to install without screw connections
- Huge time savings through tension-free pre-mounted and ready-to-connect pipe feedthroughs



Material of the box	Closed-cell polyurethane foam
Box height	200 mm
Box width	100 mm
Box depth	50 mm
Distance centre of pipe to centre of pipe	50 mm
Pipe length	420 mm
Colour	Red

DN tube connection	Connection	Product weight (per item)	Material of the pipe	Manufacturer of pipe system	Art. no.	P. Qty.
	15 mm	832 g	Copper		5275 030 200	1
DN.. 16..		367 g	Polyethylene polymerised	Freely selectable	5275 030 060	1

Please consider the legal instruction at the beginning of this chapter.

Radiator installation box, masonry

Free choice of pipe system. Completely pre-installed box for rapid mounting and problem-free pipe feedthroughs

- For millimetre-precise and firm installation so as to ensure optimal sound insulation
- Easy to install without screw connections
- Huge time savings through tension-free pre-mounted and ready-to-connect pipe feedthroughs

Material of the box	Closed-cell polyurethane foam
Box height	120 mm
Box width	100 mm
Box depth	50 mm
Distance centre of pipe to centre of pipe	50 mm
Pipe length	420 mm
Colour	Red



DN tube connection	Connection	Product weight (per item)	Material of the pipe	Manufacturer of pipe system	Art. no.	P. Qty.
	15 mm	720 g	Copper		5275 230 200	1
DN.. 16..		187 g	Polyethylene polymerised	Freely selectable	5275 230 060	1

Please consider the legal instruction at the beginning of this chapter.



Bottom clamp

With two pre-mounted clamp studs (2.8 x 25, scaled)

Material	Stainless steel A2, 1.4301
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Art. no. 0868 100 1

P. Qty.: 100

No. 5 fixed clamp

- Rounded corners
- Pre-punched holes

Material	Stainless steel A2, 1.4301
Thickness	0.4 mm
Diameter of hole	4 mm



Height (H)	Art. no.	P. Qty.
25 mm	0868 100 2	500
28 mm	0868 100 228	500

No. 6 sliding clamp

Rounded corners reinforced by punch holes

No raising of corners, i.e. sheet metal panels, structured separating layers and sealing tapes are not damaged

Pre-punched holes

Consisting of bottom and top part, fully assembled



Material	Stainless steel A2, 1.4301
Thickness	0.4 mm
Width (B)	90 mm
Sliding area (SB)	55 mm

Height (H)	Art. no.	P. Qty.
25 mm	0868 100 3	500
28 mm	0868 100 328	500



Pipe clamp TIPP® Smartlock GS

Standard hinged and jointed clamp. With exclusive Würth quick-action closure for secure, fast mounting.

- Continuous clamping ranges from 15–115 mm
- Spring steel clip secured against turning
- Screw head can be lowered into the clamp strap thanks to the recess

Min./max. temperature resistance	-40 to 120 °C
Material	Steel
Surface	Zinc plated
Silicone-free	Yes
Halogen-free	Yes

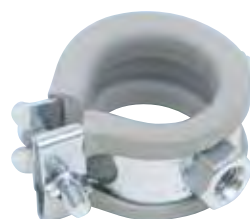
Min./max. grip range (ØD)	Connection thread (G)	Metal-band width (B _M)	Metal belt thickness (t _M)	Permissible load	Art. no.	P. Qty.
11-14 mm	M8	20 mm	1.5 mm	800 N	0543 058 014	150
15-20 mm	M8	20 mm	1.5 mm	800 N	0543 058 020	150
21-25 mm	M8	20 mm	1.5 mm	800 N	0543 058 025	150
26-30 mm	M8	20 mm	1.5 mm	800 N	0543 058 030	120
31-35 mm	M8	20 mm	1.5 mm	800 N	0543 058 035	100
36-39 mm	M8	20 mm	1.5 mm	800 N	0543 058 039	100
40-43 mm	M8	20 mm	1.5 mm	800 N	0543 058 043	80
44-48 mm	M8	20 mm	1.5 mm	800 N	0543 058 048	60
48-51 mm	M8	20 mm	1.5 mm	1200 N	0543 058 051	60

Min./max. grip range (ØD)	Connection thread (G)	Metal-band width (B _M)	Metal belt thickness (t _M)	Permissible load	Art. no.	P. Qty.
52-56 mm	M8	20 mm	1.5 mm	1200 N	0543 058 056	60
57-61 mm	M8	20 mm	1.5 mm	1200 N	0543 058 061	50
62-65 mm	M8	20 mm	1.5 mm	1200 N	0543 058 065	50
66-72 mm	M8	20 mm	1.5 mm	1200 N	0543 058 072	40
73-77 mm	M8	20 mm	1.5 mm	1200 N	0543 058 077	40
78-82 mm	M8	20 mm	1.5 mm	1200 N	0543 058 082	40
83-90 mm	M8	20 mm	1.5 mm	1800 N	0543 058 090	30
91-98 mm	M8 x M10	23 mm	2 mm	1800 N	0543 058 098	20
99-107 mm	M8 x M10	23 mm	2 mm	1800 N	0543 058 107	20
108-115 mm	M8 x M10	23 mm	2 mm	1800 N	0543 058 115	20

TIPP® pipe clamp Priopress, plastic

Hinged sliding and fixed point pipe clamp for plastic pipes. Exclusive press closure with finely adjustable locking screw.

- During pre-mounting, only engage the click lock
- Secure press closure
- Special rubber inlay with sliding properties



Connection thread (G)	M8
Metal-band width (B _M)	20 mm
Min./max. temperature resistance	-40 to 70 °C
Material	Steel
Surface	Zinc plated

Min./max. grip range (ØD)	Metal belt thickness (t _M)	Permissible load	Weight	Art. no.	P. Qty.
15-19 mm	1 mm	800 N	34 g	0543 167 016	50
20-23 mm	1 mm	800 N	40 g	0543 167 020	50
25-28 mm	1 mm	800 N	42 g	0543 167 025	50
32-35 mm	1 mm	800 N	53 g	0543 167 032	40
40-43 mm	1.5 mm	800 N	56 g	0543 167 040	30
48-51 mm	1.5 mm	1200 N	66 g	0543 167 050	30
62-65 mm	1.5 mm	1200 N	92 g	0543 167 063	20
74-80 mm	1.5 mm	1200 N	107 g	0543 167 075	20

Tested in accordance with DIN 52218 for noise protection in line with DIN 4109



Pipe clamp with hinge TIPP®-Priopress

The standard hinged and jointed clamp. Exclusive press closure with finely adjustable locking screw.

- During pre-mounting, only engage the click lock
- Secure press closure
- Sound insulation in line with DIN 4109
- Tested for ageing, weather and ozone resistance in accordance with DIN 53508 and DIN 53509



Min./max. temperature resistance	-40 to 120 °C
Material	Steel
Surface	Zinc plated
Silicone-free	Yes
Halogen-free	Yes

Min./max. grip range (ØD)	Connection thread (G)	Metal-band width (B _M)	Metal belt thickness (t _M)	Permissible load	Art. no.	P. Qty.
11-15 mm	M8	20 mm	1 mm	800 N	0543 166 012	150
15-19 mm	M8	20 mm	1 mm	800 N	0543 166 018	150
21-23 mm	M8	20 mm	1 mm	800 N	0543 166 022	150
26-28 mm	M8	20 mm	1 mm	800 N	0543 166 028	150
32-35 mm	M8	20 mm	1 mm	800 N	0543 166 035	125
40-43 mm	M8	20 mm	1.5 mm	800 N	0543 166 042	75
48-51 mm	M8	20 mm	1.5 mm	1200 N	0543 166 048	75
52-56 mm	M8	20 mm	1.5 mm	1200 N	0543 166 054	75
57-60 mm	M8	20 mm	1.5 mm	1200 N	0543 166 060	50
62-65 mm	M8	20 mm	1.5 mm	1200 N	0543 166 064	50
74-80 mm	M8	20 mm	1.5 mm	1200 N	0543 166 080	50
88-93 mm	M8	20 mm	1.5 mm	1500 N	0543 166 090	25
108-114 mm	M8, M10	23 mm	2 mm	1500 N	0543 166 108	25



Pipe clamp TIPP® Smartlock stainless steel

The standard hinged and jointed clamp. With exclusive Würth quick-action closure for secure, fast mounting

- Saves time and aids mounting thanks to new closure mechanism
- Profile rubber, excellent sliding properties of pipes during pre-mounting
- Noise insulation in line with DIN 4109
- Ageing- and weather-resistant in accordance with DIN 53508 and DIN 53509
- Safety catch to prevent screws being lost



Min./max. temperature resistance	-40 to 110 °C
Material	Stainless steel A4, 1.4578
Silicone-free	Yes
Profile rubber thickness	3.5 mm

Min./max. grip range (ØD)	Connection thread (G)	Metal-band width (B _M)	Metal belt thickness (t _M)	Permissible load	Art. no.	P. Qty.
11-15 mm	M8	20 mm	1 mm	800 N	0865 068 015	50
15-19 mm	M8	20 mm	1 mm	800 N	0865 068 019	50
21-23 mm	M8	20 mm	1 mm	800 N	0865 068 023	50
26-28 mm	M8	20 mm	1 mm	800 N	0865 068 028	50
32-35 mm	M8	20 mm	1 mm	800 N	0865 068 035	40
40-43 mm	M8	20 mm	1.5 mm	800 N	0865 068 043	30
48-51 mm	M8	20 mm	1.5 mm	1200 N	0865 068 051	30
52-56 mm	M8	20 mm	1.5 mm	1200 N	0865 068 056	30
57-60 mm	M8	20 mm	1.5 mm	1200 N	0865 068 060	20
62-65 mm	M8	20 mm	1.5 mm	1200 N	0865 068 065	20
74-80 mm	M8	20 mm	1.5 mm	1200 N	0865 068 080	20
83-91 mm	M8	20 mm	1.5 mm	1800 N	0865 068 091	5
108-114 mm	M8, M10	23 mm	2 mm	1800 N	0865 068 114	5



Cold pipe clamp PUR 250 type 175

With screws, a permanent PUR hard foam coating and rubber shell on the inside

Internal rubber cladding

No application of sealant necessary



Material of insulation	Polyurethane
Volumetric weight	250 kg/m ³
Min./max. temperature conditions	-160 to 130 °C

Diameter (ØD)	Insulating-material thickness (DS)	Suitable for steel pipe (outer diameter) (D)	Suitable for steel pipe, DN nominal width	Art. no.	P. Qty.
17.2 mm	30 mm	17.2 mm	DN.. 10..	0874 303 017	10
18 mm	30 mm			0874 303 018	10
21.3 mm	30 mm	21.3 mm	DN.. 15..	0874 303 021	10
22 mm	30 mm			0874 303 022	10
26.7 mm	30 mm	26.9 mm	DN.. 20..	0874 303 027	10
28 mm	30 mm			0874 303 028	10
33.7 mm	30 mm	33.7 mm	DN.. 25..	0874 303 034	10
35 mm	30 mm			0874 303 035	10
42.4 mm	30 mm	42.4 mm	DN.. 32..	0874 303 042	10
48.3 mm	30 mm	48.3 mm	DN.. 40..	0874 303 048	10
54 mm	30 mm	54 mm		0874 303 054	10
57 mm	30 mm	57 mm		0874 303 057	10
60.3 mm	30 mm	60.3 mm	DN.. 50..	0874 303 060	10
63.5 mm	30 mm	63.5 mm		0874 303 064	10
70 mm	30 mm	70 mm		0874 303 070	10
76.1 mm	30 mm	76.1 mm	DN.. 65..	0874 303 076	10
88.9 mm	30 mm	88.9 mm	DN.. 80..	0874 303 089	5
108 mm	40 mm	108 mm		0874 303 108	5
114.3 mm	40 mm	114.3 mm		0874 303 114	5

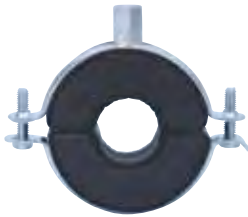
Continuation **Cold pipe clamp PUR 250 type 175**

Diameter (ØD)	Insulating-material thickness (DS)	Suitable for steel pipe (outer diameter) (D)	Suitable for steel pipe, DN nominal width	Art. no.	P. Qty.
133 mm	40 mm	133 mm		0874 303 133	5
139.7 mm	40 mm	139.7 mm	DN.. 125..	0874 303 140	5
159 mm	40 mm	160 mm		0874 303 159	4
168.3 mm	40 mm	168.3 mm		0874 303 168	4
204 mm	60 mm	204 mm		0874 303 204	1
219.1 mm	60 mm	219.1 mm	DN.. 200..	0874 303 219	1

Cold pipe clamp K

Pipe clamp with a permanently integrated damping insert, consisting of a hard-foam core with a load distribution panel and rubber cladding

- The damping insert cannot be detached from the clamp body
- Self-adhesive seal
- Rubber cladding
- Load distribution panel
- Cropped locking tab
- Locking screw with self-locking bolt



Material of insulation	PUR/natural rubber
Volumetric weight	80 kg/m³

Pipe diameter (ØD)	Insulating-material thickness (DS)	Permissible load	Max. fastener spacing	Art. no.	P. Qty.
11 mm	13 mm	60 N	1 m	0874 313 010	16
13 mm	14 mm	70 N	1.25 m	0874 313 012	16
15 mm	14 mm	85 N	1.25 m	0874 313 015	16
19 mm	14 mm	105 N	2.25 m	0874 313 018	16
22 mm	14 mm	125 N	2.75 m	0874 313 022	16
29 mm	14 mm	160 N	3 m	0874 313 028	16
35 mm	14 mm	200 N	3.5 m	0874 313 035	12
42 mm	14 mm	240 N	3.75 m	0874 313 042	12
48 mm	14 mm	275 N	4.25 m	0874 313 048	12
54 mm	15 mm	385 N	4.6 m	0874 313 054	12
57 mm	16 mm	405 N	4.6 m	0874 313 057	12
60 mm	16 mm	425 N	4.75 m	0874 313 060	12
64 mm	16 mm	455 N	4.75 m	0874 313 064	12
70 mm	16 mm	495 N	5.5 m	0874 313 070	12
76 mm	16 mm	540 N	5.5 m	0874 313 076	12
90 mm	16 mm	630 N	5.2 m	0874 313 089	12
108 mm	16 mm	920 N	5.2 m	0874 313 108	10
114 mm	16 mm	970 N	5 m	0874 313 114	10
11 mm	18 mm	60 N	1 m	0874 319 010	14
13 mm	19 mm	70 N	1.25 m	0874 319 012	14
15 mm	19 mm	85 N	1.25 m	0874 319 015	14
19 mm	19 mm	105 N	2.25 m	0874 319 018	14
22 mm	20 mm	125 N	2.75 m	0874 319 022	14
29 mm	20 mm	160 N	3 m	0874 319 028	14
35 mm	21 mm	200 N	3.5 m	0874 319 035	10

Pipe diameter (ØD)	Insulating-material thickness (DS)	Permissible load	Max. fastener spacing	Art. no.	P. Qty.
42 mm	22 mm	240 N	3.75 m	0874 319 042	10
48 mm	22 mm	275 N	4.25 m	0874 319 048	10
55 mm	23 mm	385 N	4.6 m	0874 319 054	10
58 mm	23 mm	405 N	4.6 m	0874 319 057	10
60 mm	23 mm	425 N	4.75 m	0874 319 060	10
64 mm	23 mm	455 N	4.75 m	0874 319 064	10
70 mm	23 mm	495 N	5.5 m	0874 319 070	10
76.1 mm	23 mm	540 N	5.5 m	0874 319 076	10
90 mm	23 mm	630 N	5.5 m	0874 319 089	10
108 mm	27 mm	970 N	5.5 m	0874 319 108	8
114 mm	28 mm	970 N	5 m	0874 319 114	8
133 mm	27 mm	1130 N	5 m	0874 319 133	6
140 mm	27 mm	1180 N	4.7 m	0874 319 140	6
159 mm	26 mm	1350 N	3.7 m	0874 319 159	6
168 mm	25 mm	1425 N	3.7 m	0874 319 168	4
219 mm	26 mm	3100 N	5 m	0874 319 219	4

Cold pipe clamp K Plus

Pipe clamp with separate insulating component, consisting of a hard foam core with rubber on the end faces and a solid outer skin with self-adhesive overlapping

- Separate pipe clamp and insulating part
- Designed to match the insulation layer thicknesses of our pipe insulation FLEXEN® cold rubber plus
- Rubber front side
- Solid exterior skin with self-adhesive overlap



Material of insulation	Polyiso rigid foam
Volumetric weight	120 kg/m³

Pipe diameter (ØD)	Insulating-material thickness (DS)	Max. fastener spacing	Art. no.	P. Qty.
6 mm	9.5 mm	1.25 m	0874 402 006	30
10 mm	11 mm	1.25 m	0874 402 010	25
12 mm	11 mm	1.25 m	0874 402 012	22
15 mm	11 mm	1.25 m	0874 402 015	20
18 mm	11.5 mm	2.25 m	0874 402 018	20
22 mm	12 mm	2.75 m	0874 402 022	20
28 mm	12.5 mm	3 m	0874 402 028	20
35 mm	13 mm	3.5 m	0874 402 035	15
42 mm	13.5 mm	3.75 m	0874 402 042	15
48 mm	13.5 mm	4.25 m	0874 402 048	15
54 mm	13.5 mm	4.25 m	0874 402 054	12
60 mm	14 mm	4.75 m	0874 402 060	12
64 mm	14 mm	4.75 m	0874 402 064	12
76.1 mm	14 mm	5.5 m	0874 402 076	12
88.9 mm	14.5 mm	5 m	0874 402 089	10
108 mm	14.5 mm	4.5 m	0874 402 108	8
114 mm	15 mm	4.5 m	0874 402 114	8
10 mm	15.5 mm	1.25 m	0874 404 010	15

Continuation **Cold pipe clamp K Plus**

Pipe diameter (ØD)	Insulating-material thickness (DS)	Max. fastener spacing	Art. no.	P. Qty.
12 mm	16 mm	1.25 m	0874 404 012	15
15 mm	17 mm	1.25 m	0874 404 015	25
18 mm	17.5 mm	2.25 m	0874 404 018	20
22 mm	18 mm	2.75 m	0874 404 022	18
28 mm	19 mm	3 m	0874 404 028	18
35 mm	19.5 mm	3.5 m	0874 404 035	15
42 mm	20 mm	3.75 m	0874 404 042	12
48 mm	20.5 mm	4.25 m	0874 404 048	12
54 mm	21 mm	4.25 m	0874 404 054	15
60 mm	21.5 mm	4.75 m	0874 404 060	12
64 mm	21.5 mm	4.75 m	0874 404 064	12
76.1 mm	22 mm	5.5 m	0874 404 076	10
88.9 mm	22.5 mm	5 m	0874 404 089	8
108 mm	23 mm	4.5 m	0874 404 108	8
114 mm	23.5 mm	4.5 m	0874 404 114	5

Cold pipe clamp PUR 250 type 170

With external connecting tabs (without screws), a permanent PUR hard foam coating and rubber shell on the contact surfaces

Contact surfaces of both half shells coated with rubber

No application of sealant required



Insulating-material thickness (DS)	60 mm
Material of insulation	Polyurethane
Volumetric weight	250 kg/m ³
Min./max. temperature conditions	-160 to 130 °C

Diameter (ØD)	Suitable for steel pipe (outer diameter) (D)	Suitable for steel pipe, DN nominal width	Art. no.	P. Qty.
219.1 mm	219.1 mm	DN.. 200..	0874 306 219	1
273 mm	273 mm	DN.. 250..	0874 306 273	1
324 mm	324 mm	DN.. 300..	0874 306 324	1
368 mm	368 mm		0874 306 368	1
406 mm	406 mm	DN.. 400..	0874 306 406	1
609 mm	609 mm	DN.. 600..	0874 306 609	1

Ventilation pipe clamp TIPP® Aero

For fastening sheet metal air ducts and fittings with circular cross-sections in accordance with DIN EN 1506, ventilation for buildings

- Glued-in profile, rubber
- Resistant to diluted acids and alkalis at room temperature and to solutions containing alcohol
- Not resistant to oils, greases and fuels



Connection thread (G)	M8 x M10
Metal-band width (B _M)	25 mm
Min./max. temperature resistance	-30 to 100 °C
Material	Steel
Material of the rubber profile	EPDM
Silicone-free	Yes
Chlorine-free	Yes
Halogen-free	Yes

Suitable for DN nominal width (øD)	Permissible load	Metal belt thickness (t _M)	Surface	Weight	Art. no.	P. Qty.
DN.. 80..	600 N	1.5 mm	Zinc plated	135 g	0543 830 080	30
DN.. 100..	600 N	1.5 mm	Zinc plated	162 g	0543 830 100	30
DN.. 115..	600 N	1.5 mm	Zinc plated	175 g	0543 830 115	30
DN.. 125..	600 N	1.5 mm	Zinc plated	190 g	0543 830 125	25
DN.. 140..	600 N	1.5 mm	Zinc plated	207 g	0543 830 140	25
DN.. 150..	600 N	1.5 mm	Zinc plated	218 g	0543 830 150	25
DN.. 160..	600 N	1.5 mm	Zinc plated	262 g	0543 830 160	25
DN.. 180..	600 N	1.5 mm	Zinc plated	256 g	0543 830 180	20
DN.. 200..	600 N	1.5 mm	Zinc plated	282 g	0543 830 200	20
DN.. 224..	600 N	1.5 mm	Zinc plated	331 g	0543 830 224	15
DN.. 250..	600 N	1.5 mm	Zinc plated	332 g	0543 830 250	15
DN.. 280..	600 N	1.5 mm	Zinc plated	373 g	0543 830 280	10
DN.. 300..	600 N	1.5 mm	Zinc plated	398 g	0543 830 300	10
DN.. 315..	600 N	1.5 mm	Zinc plated	412 g	0543 830 315	10
DN.. 355..	600 N	1.5 mm	Zinc plated	462 g	0543 830 355	10
DN.. 400..	600 N	1.5 mm	Zinc plated	513 g	0543 830 400	10
DN.. 450..	800 N	3 mm	Sendzimir galvanized	956 g	0543 830 450	1
DN.. 500..	800 N	3 mm	Sendzimir galvanized	1238 g	0543 830 500	1
DN.. 560..	800 N	3 mm	Sendzimir galvanized	1325 g	0543 830 560	1
DN.. 600..	800 N	3 mm	Sendzimir galvanized	1410 g	0543 830 600	1
DN.. 630..	800 N	3 mm	Sendzimir galvanized	1525 g	0543 830 630	1
DN.. 710..	800 N	3 mm	Sendzimir galvanized	1710 g	0543 830 710	1
DN.. 800..	800 N	3 mm	Sendzimir galvanized	1820 g	0543 830 800	1
DN.. 900..	800 N	3 mm	Sendzimir galvanized	2125 g	0543 830 900	1

Continuation **Ventilation pipe clamp TIPP® Aero**

Suitable for DN nominal width (ØD)	Permissible load	Metal belt thickness (t _M)	Surface	Weight	Art. no.	P. Qty.
DN.. 1000..	800 N	3 mm	Sendzimir galvanized	2350 g	0543 831 000	1
DN.. 1120..	800 N	3 mm	Sendzimir galvanized	2690 g	0543 831 120	1
DN.. 1250..	800 N	3 mm	Sendzimir galvanized	2710 g	0543 831 250	1



Pipe clamp TIPP® silicone

Two-part pipe clamp with silicone-based red rubber insert

- Sealing plug, secured against loss
- Silicone insert
- Rubber insert in line with DIN 4109

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Connection thread (G)	M8 x M10
Metal belt thickness (t _M)	1.5 mm
Min./max. temperature resistance	-60 to 225 °C
Material	Sheet steel
Surface	Zinc plated
Halogen-free	Yes
Silicone-free	No
Chlorine-free	Yes
Thread type	Metric thread
Building material class	B2 - Normally inflammable
DIN	4109
Screw diameter	6 mm

Min./max. grip range (ØD)	Suitable for steel pipe DIN 2440 DIN 2448 (Suitable for steel pipe DIN 2440, DIN 2448)	Length (L)	Metal-band width (B _M)	Permissible load	Art. no.	P. Qty.
12-15 mm	1/4 inch	57.5 mm	20 mm	1000 N	0543 208 015	25
15-19 mm	3/8 inch	61.5 mm	20 mm	1000 N	0543 208 019	25
20-25 mm	1/2 inch	67 mm	20 mm	1000 N	0543 208 025	25
26-30 mm	3/4 inch	72.3 mm	20 mm	1000 N	0543 208 030	25
31-37 mm	1 inch	79.3 mm	20 mm	1000 N	0543 208 037	25
38-44 mm	1 1/4 inch	86 mm	20 mm	1000 N	0543 208 044	25
42-52 mm	1 1/2 inch	91.3 mm	20 mm	1000 N	0543 208 052	25

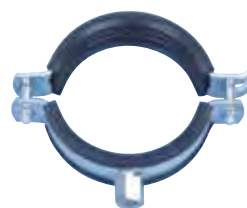
Min./max. grip range (ØD)	Suitable for steel pipe DIN 2440 DIN 2448 (Suitable for steel pipe DIN 2440, DIN 2448)	Length (L)	Metal-band width (B _M)	Permissible load	Art. no.	P. Qty.
53-58 mm		101.3 mm	20 mm	1000 N	0543 208 058	25
59-65 mm	2 inch	108.6 mm	20 mm	1000 N	0543 208 065	25
67-74 mm		124 mm	20 mm	1000 N	0543 208 074	10
74-80 mm	2 1/2 inch	130.5 mm	25 mm	1500 N	0543 208 080	10
82-92 mm	3 inch	141.5 mm	25 mm	1500 N	0543 208 092	10
90-102 mm		151 mm	25 mm	1500 N	0543 208 102	10
108-118 mm	4 inch	168 mm	25 mm	1500 N	0543 208 118	10



Pipe clamp TIPP® robust

Two-screw clamp for higher load requirements in heating system construction, plumbing installations, plant construction, machine building and pipeline construction

- 2 screw-in nuts
- Screw-in nut with lock washer
- Cropped locking tab (up to tension range of 196–203 mm)
- Rubber insert



Min./max. temperature resistance	-30 to 100 °C
Material	Steel
Surface	Zinc plated
Fire protection certified	Yes
Halogen-free	Yes
Silicone-free	Yes
Ultraviolet resistance	Yes
Chlorine-free	Yes
Thread type	Metric thread
Material of the sound insulation	EPDM - Ethylene propylene diene terpolymer natural rubber
DIN	4109

Min./max. grip range (ØD)	Length (L)	Connection thread (G)	Metal-band width (B _M)	Metal belt thickness (t _M)	Art. no.	P. Qty.
14-18 mm	69 mm	M8 x M10	25 mm	2.5 mm	0543 210 018	50
19-23 mm	74.5 mm	M8 x M10	25 mm	2.5 mm	0543 210 023	50
24-28 mm	80 mm	M8 x M10	25 mm	2.5 mm	0543 210 028	50
29-33 mm	85 mm	M8 x M10	25 mm	2.5 mm	0543 210 033	50
40-45 mm	97.5 mm	M10 x M12	25 mm	2.5 mm	0543 210 045	20
47-52 mm	105 mm	M10 x M12	25 mm	2.5 mm	0543 210 052	20
53-58 mm	111 mm	M10 x M12	25 mm	2.5 mm	0543 210 058	20
60-65 mm	118 mm	M10 x M12	25 mm	2.5 mm	0543 210 065	20

Continuation **Pipe clamp TIPP® robust**

Min./max. grip range (ØD)	Length (L)	Connection thread (G)	Metal-band width (B _M)	Metal belt thickness (t _M)	Art. no.	P. Qty.
65-73 mm	128 mm	M10 x M12	25 mm	2.5 mm	0543 210 073	20
73-78 mm	131.5 mm	M10 x M12	30 mm	3 mm	0543 210 078	20
79-85 mm	138.5 mm	M10 x M12	30 mm	3 mm	0543 210 085	20
88-93 mm	147 mm	M10 x M12	30 mm	3 mm	0543 210 093	20
100-106 mm	160 mm	M10 x M12	30 mm	3 mm	0543 210 106	20
108-116 mm	169.5 mm	M10 x M12	30 mm	3 mm	0543 210 116	20
124-129 mm	183 mm	M10 x M12	30 mm	3 mm	0543 210 129	20
131-137 mm	191 mm	M10 x M12	30 mm	3 mm	0543 210 137	20
138-145 mm	199 mm	M10 x M12	30 mm	3 mm	0543 210 145	20
156-162 mm	216 mm	M10 x M12	30 mm	3 mm	0543 210 162	20
165-171 mm	225 mm	M10 x M12	30 mm	3 mm	0543 210 171	20
175-185 mm	240.5 mm	M10 x M12	30 mm	3 mm	0543 210 185	10
188-194 mm	248.5 mm	M10 x M12	30 mm	3 mm	0543 210 194	10
196-203 mm	257.5 mm	M10 x M12	30 mm	3 mm	0543 210 203	10
205-214 mm	295 mm	M10 x M12	40 mm	4 mm	0543 210 214	10
219-225 mm	306 mm	M10 x M12	40 mm	4 mm	0543 210 225	10
244-250 mm	331 mm	M10 x M12	40 mm	4 mm	0543 210 250	10
267-273 mm	354 mm	M10 x M12	40 mm	4 mm	0543 210 273	10
275-285 mm	362 mm	M10 x M12	40 mm	4 mm	0543 210 285	10
297-304 mm	385 mm	M10 x M12	40 mm	4 mm	0543 210 304	10
310-320 mm	399 mm	M10 x M12	40 mm	4 mm	0543 210 320	10
320-328 mm	409 mm	M10 x M12	40 mm	4 mm	0543 210 328	10



Pipe clamp TIPP® heavy-duty

Two-screw clamp

- 2 screw-in nuts for improved adjustment to pipe dimensions
- Optimum guarantee against slipping
- Rubber insert
- Ozone-resistant in accordance with DIN 53509-1 or ISO 1431/1
- Ageing-resistant in accordance with DIN 53508
- Not resistant to oils, greases and fuels



Connection thread (G)	M16
Min./max. temperature resistance	-30 to 100 °C
Material	Sheet steel
Surface	Zinc plated
Halogen-free	Yes
Silicone-free	Yes
Ultraviolet resistance	Yes
Chlorine-free	Yes
Thread type	Metric thread

Building material class	B2 - Normally inflammable
Material of the sound insulation	EPDM - Ethylene propylene diene terpolymer natural rubber

Min./max. grip range (ØD)	Length (L)	Metal-band width (B _M)	Metal belt thickness (t _M)	Permissible load	Art. no.	P. Qty.
73-78 mm	142 mm	30 mm	3 mm	5000 N	0543 215 073	10
79-85 mm	149 mm	30 mm	3 mm	5000 N	0543 215 079	10
88-93 mm	156 mm	30 mm	3 mm	5000 N	0543 215 088	10
100-106 mm	168 mm	30 mm	3 mm	5000 N	0543 215 100	10
108-116 mm	182 mm	30 mm	3 mm	5000 N	0543 215 108	1
124-129 mm	194 mm	30 mm	3 mm	5000 N	0543 215 124	1
133-137 mm	213 mm	40 mm	4 mm	6666 N	0543 215 133	1
138-145 mm	221 mm	40 mm	4 mm	6666 N	0543 215 138	1
145-155 mm	231 mm	40 mm	4 mm	6666 N	0543 215 145	1
159-165 mm	241 mm	40 mm	4 mm	6666 N	0543 215 159	1
164-170 mm	246 mm	40 mm	4 mm	6666 N	0543 215 164	1
175-185 mm	257 mm	40 mm	4 mm	6666 N	0543 215 175	1
188-194 mm	270 mm	40 mm	4 mm	6666 N	0543 215 188	1
193-203 mm	279 mm	40 mm	4 mm	6666 N	0543 215 193	1
208-214 mm	290 mm	40 mm	4 mm	6666 N	0543 215 208	1
217-224 mm	300 mm	40 mm	4 mm	6666 N	0543 215 217	1
244-254 mm	330 mm	40 mm	4 mm	6666 N	0543 215 244	1
267-277 mm	335 mm	40 mm	4 mm	6666 N	0543 215 267	1
297-304 mm	381 mm	40 mm	4 mm	6666 N	0543 215 297	1
310-320 mm	394 mm	40 mm	4 mm	6666 N	0543 215 310	1
320-328 mm	405 mm	40 mm	4 mm	6666 N	0543 215 320	1
354-358 mm	435 mm	40 mm	4 mm	6666 N	0543 215 354	1
404-408 mm	485 mm	40 mm	4 mm	6666 N	0543 215 404	1





Pipe clamp TIPP® Smartlock 2 GS

With exclusive Würth quick-action closure for secure, fast mounting

- 2 screw-in nuts for improved adjustment to pipe dimensions
- Locking notches on both sides to prevent screws being lost
- Hexagon-head clamping screws (size 10) and additional inside drive
- Profile rubber, excellent sliding properties of pipes during pre-mounting
- Combination nut connection M8/M10 size 13, welded at 4 points
- Sound insulation in line with DIN 4109

Connection thread (G)	M8 x M10
Min./max. temperature resistance	-40 to 120 °C
Material	Steel
Surface	Zinc plated
Fire protection certified	Yes
Halogen-free	Yes
Silicone-free	Yes
Material of the sound insulation	EPDM - Ethylene propylene diene terpolymer natural rubber

Min./max. grip range (ØD)	Length (L)	Metal-band width (B _M)	Metal belt thickness (t _M)	Permissible load	Art. no.	P. Qty.
11-15 mm	49 mm	20 mm	1.5 mm	1200 N	0543 204 015	150
15-19 mm	53 mm	20 mm	1.5 mm	1200 N	0543 204 019	150
21-23 mm	59 mm	20 mm	1.5 mm	1200 N	0543 204 023	150

Min./max. grip range (ØD)	Length (L)	Metal-band width (B _M)	Metal belt thickness (t _M)	Permissible load	Art. no.	P. Qty.
26-28 mm	64 mm	20 mm	1.5 mm	1200 N	0543 204 028	125
32-35 mm	71 mm	20 mm	1.5 mm	1200 N	0543 204 035	100
40-43 mm	80 mm	20 mm	1.5 mm	1500 N	0543 204 043	75
48-56 mm	92 mm	20 mm	1.5 mm	1500 N	0543 204 056	60
57-63 mm	100 mm	20 mm	1.5 mm	1500 N	0543 204 063	50
63-70 mm	107 mm	20 mm	1.5 mm	1500 N	0543 204 070	50
74-80 mm	117 mm	20 mm	1.5 mm	1500 N	0543 204 080	40
81-85 mm	126 mm	20 mm	1.5 mm	1500 N	0543 204 085	30
85-91 mm	128 mm	20 mm	1.5 mm	1800 N	0543 204 091	30
91-95 mm	136 mm	20 mm	1.5 mm	1800 N	0543 204 095	25
96-100 mm	137 mm	20 mm	1.5 mm	1800 N	0543 204 100	20
100-105 mm	146 mm	23 mm	2 mm	1800 N	0543 204 105	20
108-114 mm	154 mm	23 mm	2 mm	1800 N	0543 204 114	20
115-125 mm	167 mm	23 mm	2 mm	1800 N	0543 204 125	15
125-135 mm	180 mm	23 mm	2 mm	1800 N	0543 204 135	10
135-140 mm	182 mm	23 mm	2 mm	1800 N	0543 204 140	10
140-144 mm	184 mm	23 mm	2 mm	1800 N	0543 204 144	10
150-158 mm	201 mm	23 mm	2 mm	1800 N	0543 204 158	10
159-169 mm	209 mm	23 mm	2 mm	1800 N	0543 204 169	10

Pipe clamp TIPP® stainless steel A4

Two-piece pipe clamp for mounting pipelines in any technical system with significant load requirements

Min./max. temperature resistance	-50 to 110 °C
Material	Stainless steel A4, 1.4401
Surface	Plain
Halogen-free	Yes
Silicone-free	Yes



Min./max. grip range (ØD)	Length (L)	Connection thread (G)	Metal-band width (B _M)	Metal belt thickness (t _M)	Art. no.	P. Qty.
12-15 mm	57.5 mm	M8	20 mm	1.5 mm	0865 208 015	25
15-19 mm	61.5 mm	M8	20 mm	1.5 mm	0865 208 019	25
20-25 mm	67 mm	M8	20 mm	1.5 mm	0865 208 025	25
25-30 mm	72.3 mm	M8	20 mm	1.5 mm	0865 208 030	25
31-37 mm	79.3 mm	M8	20 mm	1.5 mm	0865 208 037	25
37-44 mm	86 mm	M8	20 mm	1.5 mm	0865 208 044	25
45-52 mm	94.3 mm	M8	20 mm	1.5 mm	0865 208 052	25
53-58 mm	101.3 mm	M8	20 mm	1.5 mm	0865 208 058	25
59-65 mm	108.6 mm	M8	20 mm	1.5 mm	0865 208 065	25
67-74 mm	124 mm	M10	25 mm	1.5 mm	0865 208 074	10
74-80 mm	130.5 mm	M10	25 mm	1.5 mm	0865 208 080	10
82-92 mm	141.5 mm	M10	25 mm	1.5 mm	0865 208 092	10
90-102 mm	151 mm	M10	25 mm	1.5 mm	0865 208 102	10
108-118 mm	168 mm	M10	25 mm	1.5 mm	0865 208 118	10
120-130 mm	181 mm	M10	25 mm	1.5 mm	0865 208 130	10
132-142 mm	193 mm	M10	25 mm	1.5 mm	0865 208 142	10
159-169 mm	220 mm	M10	25 mm	1.5 mm	0865 208 169	10
174-182 mm	237.5 mm	M16	30 mm	3 mm	0865 208 182	1

Continuation **Pipe clamp TIPP® stainless steel A4**

Min./max. grip range (ØD)	Length (L)	Connection thread (G)	Metal-band width (B _M)	Metal belt thickness (t _M)	Art. no.	P. Qty.
192-200 mm	255.5 mm	M16	30 mm	3 mm	0865 208 200	1
201-205 mm	261 mm	M16	30 mm	3 mm	0865 208 205	1
206-214 mm	269.5 mm	M16	30 mm	3 mm	0865 208 214	1
215-225 mm	280 mm	M16	30 mm	3 mm	0865 208 225	1
241-248 mm	304 mm	M16	30 mm	3 mm	0865 208 248	1
250-257 mm	313 mm	M16	30 mm	3 mm	0865 208 257	1
272-277 mm	325 mm	M16	30 mm	3 mm	0865 208 277	1



Pipe clamp TIPP® Smartlock GS

Without rubber inserts, for mounting pipes where noise protection is not required

- Proven SMARTLOCK fastening for fast, economical fastening of pipes
- Pipe clamp can be opened wide, allowing fast and easy pipe insertion, especially when working overhead
- Safety catch to prevent screws being lost
- M8/M10 combination nut connection



Connection thread (G)	M8 x M10
Material	Steel
Surface	Zinc plated

Min./max. grip range (ØD)	Metal-band width (B _M)	Metal belt thickness (t _M)	Permissible load	Weight	Art. no.	P. Qty.
19-21 mm	20 mm	1 mm	800 N	28 g	0543 903 021	150
22-25 mm	20 mm	1 mm	800 N	30 g	0543 903 025	150
28-29 mm	20 mm	1 mm	800 N	33 g	0543 903 029	150
33-35 mm	20 mm	1 mm	800 N	35 g	0543 903 035	125
34-38 mm	20 mm	1 mm	800 N	36 g	0543 903 038	125
40-43 mm	20 mm	1 mm	800 N	39 g	0543 903 043	100
42-46 mm	20 mm	1 mm	800 N	39 g	0543 903 046	100
46-50 mm	20 mm	1 mm	800 N	42 g	0543 903 050	75
55-58 mm	20 mm	1 mm	800 N	46 g	0543 903 058	60
57-62 mm	20 mm	1.5 mm	1500 N	65 g	0543 903 062	50
63-66 mm	20 mm	1.5 mm	1500 N	68 g	0543 903 066	50
67-71 mm	20 mm	1.5 mm	1500 N	71 g	0543 903 071	50
72-76 mm	20 mm	1.5 mm	1500 N	75 g	0543 903 076	50
81-86 mm	20 mm	1.5 mm	1500 N	82 g	0543 903 086	40
88-98 mm	20 mm	1.5 mm	1800 N	89 g	0543 903 098	30
94-100 mm	20 mm	1.5 mm	1800 N	92 g	0543 903 100	30
116-123 mm	23 mm	2 mm	1800 N	160 g	0543 903 123	15



Pipe clamp TIPP® Smartlock 2 GS

Without rubber inserts, for mounting pipes where noise protection is not required

- Proven SMARTLOCK fastening for fast, economical fastening of pipes
- Pipe clamp can be opened wide, allowing fast and easy pipe insertion, especially when working overhead
- Safety catch to prevent screws being lost
- M8/M10 combination nut connection



Connection thread (G)	M8 x M10
Material	Steel
Surface	Zinc plated

Min./max. grip range (ØD)	Metal-band width (B _M)	Metal belt thickness (t _M)	Permissible load	Weight	Art. no.	P. Qty.
21-23 mm	20 mm	1.5 mm	1200 N	50 g	0543 905 023	150
23-27 mm	20 mm	1.5 mm	1200 N	52 g	0543 905 027	150
28-30 mm	20 mm	1.5 mm	1200 N	54 g	0543 905 030	150
33-36 mm	20 mm	1.5 mm	1200 N	60 g	0543 905 036	125
40-43 mm	20 mm	1.5 mm	1200 N	66 g	0543 905 043	100
48-51 mm	20 mm	1.5 mm	1500 N	72 g	0543 905 051	75
57-61 mm	20 mm	1.5 mm	1500 N	78 g	0543 905 061	60
67-70 mm	20 mm	1.5 mm	1500 N	85 g	0543 905 070	50
73-76 mm	20 mm	1.5 mm	1500 N	91 g	0543 905 076	50
83-87 mm	20 mm	1.5 mm	1500 N	98 g	0543 905 087	40
94-97 mm	20 mm	1.5 mm	1800 N	104 g	0543 905 097	30
101-105 mm	20 mm	1.5 mm	1800 N	110 g	0543 905 105	25
107-110 mm	20 mm	1.5 mm	1800 N	113 g	0543 905 110	20
108-114 mm	23 mm	2 mm	1800 N	163 g	0543 905 114	20
117-120 mm	23 mm	2 mm	1800 N	172 g	0543 905 120	20
127-131 mm	23 mm	2 mm	1800 N	186 g	0543 905 131	15
144-147 mm	23 mm	2 mm	1800 N	202 g	0543 905 147	10
148-151 mm	23 mm	2 mm	1800 N	211 g	0543 905 151	10
158-162 mm	23 mm	2 mm	1800 N	220 g	0543 905 162	10
172-175 mm	23 mm	2 mm	1800 N	226 g	0543 905 175	10





Stud screw

With internal drive (from M8), galvanised steel

Material	Steel
Property class	4.8
Surface	Zinc plated

Thread type x nominal diameter x length (d)	Internal drive	Width across flats (SW)	Thread length (thread for woodwork)	Thread length (metric thread)	Art. no.	P. Qty.
M6 x 50 mm			37 mm	11 mm	0232 306 050	100
M6 x 60 mm			37 mm	20 mm	0232 306 060	100
M8 x 50 mm	TX25	6 mm	30 mm	10 mm	0232 308 050	100
M8 x 60 mm	TX25	6 mm	30 mm	20 mm	0232 308 060	100
M8 x 80 mm	TX25	6 mm	37 mm	30 mm	0232 308 080	100
M8 x 100 mm	TX25	6 mm	50 mm	40 mm	0232 308 100	100
M8 x 120 mm	TX25	6 mm	62 mm	50 mm	0232 308 120	100
M8 x 140 mm	TX25	6 mm	62 mm	50 mm	0232 308 140	50
M8 x 160 mm	TX25	6 mm	62 mm	50 mm	0232 308 160	50
M8 x 180 mm	TX25	6 mm	62 mm	50 mm	0232 308 180	50
M8 x 200 mm	TX25	6 mm	62 mm	50 mm	0232 308 200	50
M8 x 220 mm	TX25	6 mm	62 mm	50 mm	0232 308 220	50
M10 x 60 mm	TX25	8 mm	37 mm	20 mm	0232 310 060	50
M10 x 80 mm	TX25	8 mm	47 mm	20 mm	0232 310 080	50
M10 x 100 mm	TX25	8 mm	57 mm	30 mm	0232 310 100	50
M10 x 120 mm	TX25	8 mm	57 mm	50 mm	0232 310 120	50

Thread type x nominal diameter x length (d)	Internal drive	Width across flats (SW)	Thread length (thread for woodwork)	Thread length (metric thread)	Art. no.	P. Qty.
M10 x 140 mm	TX25	8 mm	57 mm	50 mm	0232 310 140	50
M10 x 160 mm	TX25	8 mm	57 mm	50 mm	0232 310 160	50
M10 x 180 mm	TX25	8 mm	57 mm	50 mm	0232 310 180	50
M10 x 200 mm	TX25	8 mm	57 mm	50 mm	0232 310 200	50
M10 x 220 mm	TX25	8 mm	57 mm	50 mm	0232 310 220	50
M10 x 240 mm	TX25	8 mm	57 mm	50 mm	0232 310 240	50
M10 x 260 mm	TX25	8 mm	57 mm	50 mm	0232 310 260	50
M10 x 280 mm	TX25	8 mm	57 mm	50 mm	0232 310 280	50
M10 x 300 mm	TX25	8 mm	57 mm	50 mm	0232 310 300	50
M12 x 100 mm	TX30	10 mm	52 mm	30 mm	0232 312 100	50

Pipe loop Tipp® VDS

For fastening sprinkler lines in fixed water-based fire
extinguishing systems according to VdS guidelines

Material	Steel
Surface	Zinc plated



Connection thread (G)	Length (L)	Internal dia- meter (ØD)	Grip range in inches	Width (B _M)	Art. no.	P. Qty.
M8	82 mm	34 mm	1 in	10 mm	0543 517 033	50
M10	82 mm	34 mm	1 in	10 mm	0543 517 034	50
M8	86.5 mm	43 mm	1-1/4 in	10 mm	0543 517 042	50
M10	86.5 mm	43 mm	1-1/4 in	10 mm	0543 517 043	50
M8	94.5 mm	49 mm	1-1/2 in	10 mm	0543 517 048	50
M10	94.5 mm	49 mm	1-1/2 in	10 mm	0543 517 049	50
M8	109.5 mm	61 mm	2 in	10 mm	0543 517 060	50
M10	109.5 mm	61 mm	2 in	10 mm	0543 517 061	50
M10	136 mm	77 mm	2-1/2 in	10 mm	0543 517 076	25
M10	157.5 mm	90 mm	3 in	10 mm	0543 517 088	25
M10	167.5 mm	110 mm		10 mm	0543 517 108	25
M10	200 mm	115 mm	4 in	10 mm	0543 517 114	25
M12	220.5 mm	135 mm		13 mm	0543 517 133	25
M12	224 mm	142 mm	5 in	13 mm	0543 517 139	25
M12	263.5 mm	161 mm		13 mm	0543 517 159	25
M12	268 mm	170 mm	6 in	13 mm	0543 517 168	25
M16	348.5 mm	221 mm	8 in	25 mm	0543 517 221	10

Vds certification no.: G 4021036

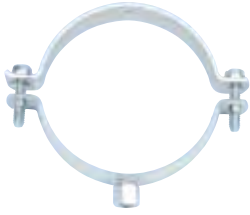


Sprinkler clamp Tipp® VDS

Two-screw clamp similar to pipe clamp TIPP® Robust, but without insert for the attachment of sprinkler lines in fixed water-based fire extinguishing systems according to VdS guidelines

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Material	Sheet steel
Surface	Zinc plated

Min./max. grip range	Length (L)	Grip range in inches	Connection thread (G)	Metal-band width (B _m)	Art. no.	P. Qty.
20-26 mm	63 mm	1/2 in	M10	25 mm	0543 518 021	50
26-33 mm	69 mm	3/4 in	M10	25 mm	0543 518 026	50
30-36 mm	76 mm	1 in	M10	25 mm	0543 518 033	50
37-44 mm	85 mm	1 1/4 in	M10	25 mm	0543 518 042	30
48-53 mm	91 mm	1 1/2 in	M10	25 mm	0543 518 048	30
60-67 mm	103 mm	2 in	M10	25 mm	0543 518 060	30
74-80 mm	125 mm	2 1/2 in	M10	30 mm	0543 518 076	30
85-96 mm	138 mm	3 in	M10	30 mm	0543 518 088	30
108-118 mm	163 mm	4 in	M10	30 mm	0543 518 114	30
135-145 mm	208.8 mm	5 in	M12	40 mm	0543 518 139	10
159-167 mm	237 mm	6 in	M12	40 mm	0543 518 159	10
167-173 mm	237 mm	6 in	M12	40 mm	0543 518 169	10
219-226 mm	288.5 mm	8 in	M16	40 mm	0543 518 219	10
267-273 mm	342 mm	10 in	M20	40 mm	0543 518 273	10

VdS certification no.: G414026



SML connector Rapid

For connecting sleeveless waste water pipes and cast iron moulded parts in accordance with DIN EN 877 and DIN 19 522

- Fast, safe connection with only one screw-in nut
- Simple mounting of the connector thanks to pre-mounted, slip-proof EPDM sealing insert
- Pre-assembly of pipes and moulded parts requires no effort due to powerful clamping effect
- No tightening torque required, as block tightening is used (both clamping jaws must strike each other)



Material of the sealing ring	Ethylene propylene diene terpolymer rubber EPDM
Material of the sheet-metal ring covering	Chrome steel
Material of the fastener	Steel

DN nominal width (øD)	Width across flats	Working pressure	Height (H)	Width (B _M)	Art. no.	P. Qty.
DN 50	6 mm	0.5 bar	80 mm	40 mm	0544 001 050	50
DN 70	6 mm	0.5 bar	100 mm	40 mm	0544 001 070	50
DN 80	6 mm	0.5 bar	105 mm	40 mm	0544 001 080	50
DN 100	6 mm	0.5 bar	135 mm	40 mm	0544 001 100	50
DN 125	6 mm	0.5 bar	162 mm	55 mm	0544 001 125	20
DN 150	6 mm	0.5 bar	187 mm	55 mm	0544 001 150	15
DN 200	8 mm	0.5 bar	244 mm	70 mm	0544 001 200	5
DN 250	8 mm	0.3 bar	306 mm	96 mm	0544 001 250	4



Combination locking claw

Longitudinally non-positive safety clamp for SML lines and moulded parts in accordance with DIN EN 877 and 19522

- For single and two-screw connectors
- For interior pressure loads up to 10 bar for DN 50 – DN 100 (DN 125 – 150 5 bar, DN 200 3 bar)
- Suitable for all Rapid (except DN 250) connectors and all CV + CE two-screw connectors
- DN 250 for CV connectors only



Material designation	S235JR
DIN	912

DN nominal width	Working pressure	Diameter (D)	Min./max. torque	Art. no.	P. Qty.
DN 50	10 bar	124 mm	17-23 Nm	0544 007 050	1/10
DN 70	10 bar	144 mm	17-23 Nm	0544 007 070	1/10
DN 80	10 bar	149 mm	17-23 Nm	0544 007 080	1/10
DN 100	10 bar	184 mm	23-28 Nm	0544 007 100	1/10
DN 125	5 bar	201 mm	25-30 Nm	0544 007 125	1/10
DN 150	5 bar	227 mm	25-30 Nm	0544 007 150	1/10
DN 200	3 bar	275 mm	40-50 Nm	0544 007 200	1/2
DN 250	1.5 bar	250 mm	50-65 Nm	0544 007 250	1



Wire cable kit standard with closed hook

Earthquake-proof solutions. For non-load-bearing building components

- Ready-to-use system for the prevention of earthquake damage
- Installed up to 10 times quicker
- No tools required
- Coloured markings for a better overview
- Designed for new buildings or for retrofitting



Wire cable length	4.5 m
Material	Steel
Surface	Zinc plated
Number of pieces	2 PCS

Wire cable diameter	Load capacity	Eyelet diameter	Product weight (per item)	Identification colour	Art. no.	P. Qty.
2 mm	155 kg	12.5 mm	642 g	Red	5255 000 700	1
3 mm	475 kg	12.5 mm	809 g	Green	5255 000 701	1
5 mm	952 kg	15 mm	1676 g	Yellow	5255 000 702	1

Wire cable kit retrofit with open hook

Earthquake-proof solutions. For non-load-bearing building components

- Ready-to-use system for the prevention of earthquake damage
- Installed up to 10 times quicker
- No tools required
- Coloured markings for a better overview
- Designed for new buildings or for retrofitting



Wire cable length	4.5 m
Material	Steel
Surface	Zinc plated
Number of pieces	2 PCS

Wire cable diameter	Load capacity	Hook diameter	Eyelet diameter	Product weight (per item)	Art. no.	P. Qty.
2 mm	155 kg	13 mm	12.5 mm	835 g	5255 000 720	1
3 mm	475 kg	13 mm	12.5 mm	1007 g	5255 000 721	1
5 mm	950 kg	15 mm	15 mm	1880 g	5255 000 722	1



VARIFIX® c-assembly rail 41/41

Various mounting options with extensive system components

Visually clean solution with no sharp edges

Easier alignment of the rails

Noise insulation elements for every rail size

Width (B)	41 mm
Height (H)	41 mm
Width of mouth (B ₀)	22 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	12.5 mm
Rebate height (H _r)	7.5 mm
Hole distance (LA ₁)	35 mm
Surface	Sendzimir galvanized
Material	Steel

Material thickness (t)	Rail length (L)	Included in delivery (Lieferumfang)	Weight per meter	Fire protection certified	Art. no.	P. Qty.
1.8 mm	2 m	5 pcs. with length 2 m	1908 g	No	0862 001 007	10
1.8 mm	3 m	5 pcs. with length 3 m	1908 g	No	0862 001 227	15
1.8 mm	6 m	4 pcs. with length 6 m	1908 g	No	0862 001 237	24

Continuation **VARIFIX® c-assembly rail 41/41**

Material thickness (t)	Rail length (L)	Included in delivery (Lieferumfang)	Weight per meter	Fire protection certified	Art. no.	P. Qty.
2.5 mm	2 m	5 pcs. with length 2 m	2450 g	Yes	0862 001 006	10
2.5 mm	3 m	5 pcs. with length 3 m	2450 g	Yes	0862 001 226	15
2.5 mm	6 m	4 pcs. with length 6 m	2450 g	Yes	0862 001 231	24

VARIFIX® c-assembly rail 26/18

Various mounting options with extensive system components

Visually clean solution with no sharp edges

thanks to the use of cover caps

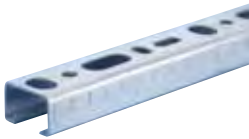
Easier alignment of the mounting rails

Lateral graduation lines

Noise insulation elements for every rail size

Heavy load

thanks to favourable profile cross-section



Width (B)	26 mm
Height (H)	18 mm
Material thickness (t)	1.25 mm
Width of mouth (B ₀)	14.3 mm
Elongated hole length 1 (LL ₁)	25 mm
Elongated hole width 1 (LB ₁)	8 mm
Elongated hole length 2 (LL ₂)	14 mm
Elongated hole width 2 (LB ₂)	11 mm
Elongated hole length 3 (LL ₃)	15 mm
Elongated hole width 3 (LB ₃)	6.5 mm
Elongated hole length 4 (LL ₄)	10 mm
Elongated hole width 4 (LB ₄)	6.5 mm
Elongated hole length 5 (LL ₅)	25 mm
Elongated hole width 5 (LB ₅)	11 mm
Hole distance 1 (LA ₁)	22 mm
Hole distance 2 (LA ₂)	16 mm
Hole distance 3 (LA ₃)	24 mm
Surface	Sendzimir galvanized
Weight per meter	550 g
Fire protection certified	No
Material	Steel

Rail length (L)	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
2 m	5 pcs. with length 2 m	0862 001 001	10
3 m	5 pcs. with length 3 m	0862 001 221	15



VARIFIX® c-assembly rail 26/26

Various mounting options with extensive system components

Visually clean solution with no sharp edges

thanks to the use of cover caps

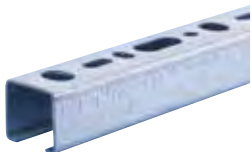
Easier alignment of the rails

Using lateral graduation lines

Noise insulation elements for every rail size

Heavy load

thanks to favourable profile cross-sections



Width (B)	26 mm
Height (H)	26 mm
Material thickness (t)	1.25 mm
Width of mouth (B ₀)	14.3 mm
Elongated hole length (LL ₁)	25 mm
Elongated hole width (LB ₁)	8 mm
Elongated hole length 2 (LL ₂)	14 mm
Elongated hole width 2 (LB ₂)	11 mm
Elongated hole length 3 (LL ₃)	15 mm
Elongated hole width 3 (LB ₃)	6.5 mm
Elongated hole length 4 (LL ₄)	10 mm
Elongated hole width 4 (LB ₄)	6.5 mm
Elongated hole length 5 (LL ₅)	25 mm
Elongated hole width 5 (LB ₅)	11 mm
Hole distance (LA ₁)	22 mm
Hole distance 2 (LA ₂)	16 mm
Hole distance 3 (LA ₃)	24 mm
Surface	Sendzimir galvanized
Weight per meter	720 g
Fire protection certified	No
Material	Steel

Rail length (L)	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
2 m	5 pcs. with length 2 m	0862 001 002	10
3 m	5 pcs. with length 3 m	0862 001 222	15



VARIFIX® c-assembly rail 28/28

Various mounting options with extensive system components

Visually clean solution with no sharp edges

thanks to the use of cover caps

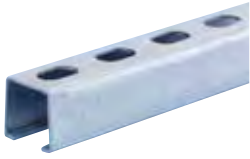
Easier alignment of the rails

Using lateral graduation lines

Noise insulation elements for every rail size

Heavy load

thanks to favourable profile cross-sections



Width (B)	28 mm
Height (H)	28 mm
Material thickness (t)	1.75 mm
Width of mouth (B ₀)	14.5 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	12.5 mm
Hole distance (LA ₁)	35 mm
Surface	Sendzimir galvanized
Weight per meter	1170 g
Fire protection certified	No
Material	Steel

Rail length (L)	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
2 m	5 pcs. with length 2 m	0862 001 003	10
3 m	5 pcs. with length 3 m	0862 001 223	15



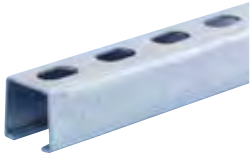
VARIFIX® c-assembly rail 36/36

Various mounting options with extensive system components

Visually clean solution with no sharp edges

Easier alignment of the rails

Noise insulation elements for every rail size



Width (B)	36 mm
Height (H)	36 mm
Material thickness (t)	2.5 mm
Width of mouth (B ₀)	18 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	12.5 mm
Hole distance (LA ₁)	35 mm
Surface	Sendzimir galvanized
Weight per meter	2159 g

Fire protection certified	No
Material	Steel

Rail length (L)	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
2 m	5 pcs. with length 2 m	0862 001 004	10
3 m	5 pcs. with length 3 m	0862 001 224	15
6 m	4 pcs. with length 6 m	0862 001 230	24



VARIFIX® c-assembly rail 41/22

Various mounting options with extensive system components

Visually clean solution with no sharp edges

thanks to the use of cover caps

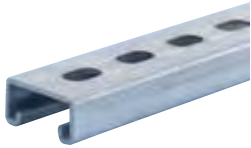
Easier alignment of the rails

Using lateral graduation lines

Noise insulation elements for every rail size

Heavy load

thanks to favourable profile cross-sections



Width (B)	41 mm
Height (H)	22 mm
Width of mouth (B ₀)	22 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	12.5 mm
Rebate height (H _r)	7.5 mm
Hole distance (LA ₁)	35 mm
Surface	Sendzimir galvanized
Fire protection certified	Yes
Material	Steel

Material thickness (t)	Rail length (L)	Included in delivery (Lieferumfang)	Weight per meter	Art. no.	P. Qty.
2.5 mm	2 m	5 pcs. with length 2 m	1650 g	0862 001 005	10
2.5 mm	3 m	5 pcs. with length 3 m	1650 g	0862 001 225	15
2.5 mm	6 m	4 pcs. with length 6 m	1650 g	0862 001 229	24
1.8 mm	3 m	5 pcs. with length 3 m	1400 g	0862 001 233	15
1.8 mm	6 m	4 pcs. with length 6 m	1400 g	0862 001 235	24



VARIFIX® c-assembly rail 41/62

Various mounting options with extensive system components

Visually clean solution with no sharp edges

thanks to the use of cover caps

Easier alignment of the rails

Using lateral graduation lines

Noise insulation elements for every rail size

Heavy load

thanks to favourable profile cross-sections

Cradle to Cradle® certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Width (B)	41 mm
Height (H)	62 mm
Material thickness (t)	3 mm
Width of mouth (B ₀)	22 mm
Elongated hole length (LL ₁)	30 mm
Elongated hole width (LB ₁)	14 mm
Rebate height (H _r)	7.5 mm
Hole distance (LA ₁)	50 mm
Surface	Sendzimir galvanized
Weight per meter	3980 g
Fire protection certified	Yes
Material	Steel

Rail length (L)	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
3 m	5 pcs. with length 3 m	0862 001 242	15
6 m	2 pcs. with length 6 m	0862 001 232	12

MPA Braunschweig Fire Protection Test Report no. 3612/5526 for mounting rails 41/41, 41/62, 41/82 and 41/124



VARIFIX® c-assembly rail 36/36

Various mounting options with extensive system components

Visually clean solution with no sharp edges

Thanks to the use of cover caps

Easier alignment of the mounting rails

Lateral graduation lines

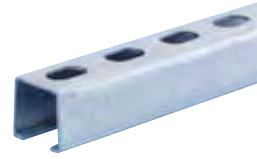
Noise insulation elements for every rail size

Heavy load

Thanks to favourable profile cross-sections

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Width (B)	36 mm
Height (H)	36 mm
Material thickness (t)	2.5 mm
Width of mouth (B ₀)	18 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	12.5 mm
Hole distance (LA ₁)	35 mm
Rail length (L)	6 m
Included in delivery (Lieferumfang)	4 pcs. with length 6 m
Surface	Hot dip galvanized
Weight per meter	2270 g
Fire protection certified	No
Material	Steel

Art. no. 0862 001 438

P. Qty.: 24



VARIFIX® c-assembly rail 41/41

Various mounting options with extensive system components

Visually clean solution with no sharp edges

thanks to the use of cover caps

Easier alignment of the rails

Using lateral graduation lines

Noise insulation elements for every rail size

Heavy load

thanks to favourable profile cross-sections

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Width (B)	41 mm
Height (H)	41 mm
Material thickness (t)	2.5 mm
Width of mouth (B ₀)	22 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	12.5 mm
Rebate height (H _r)	7.5 mm
Hole distance (LA ₁)	35 mm
Surface	Hot dip galvanized
Weight per meter	2780 g
Fire protection certified	Yes
Material	Steel

Rail length (L)	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
3 m	5 pcs. with length 3 m	0862 001 442	15
6 m	4 pcs. with length 6 m	0862 001 443	24

MPA Braunschweig Fire Protection Test Report no. 3612/5526 for mounting rails 41/41, 41/62, 41/82 and 41/124



VARIFIX® c-assembly rail 41/62

Various mounting options with extensive system components

Visually clean solution with no sharp edges

Thanks to the use of cover caps

Easier alignment of the rails

Using lateral graduation lines

Noise insulation elements for every rail size

Heavy load

Thanks to favourable profile cross-sections



Width (B)	41 mm
Height (H)	62 mm
Material thickness (t)	3 mm
Width of mouth (B ₀)	22 mm
Elongated hole length (LL ₁)	30 mm
Elongated hole width (LB ₁)	14 mm
Rebate height (H _r)	7.5 mm
Hole distance (LA ₁)	50 mm
Rail length (L)	6 m
Included in delivery (Lieferumfang)	2 pcs. with length 6 m
Surface	Hot dip galvanized
Weight per meter	4510 g
Fire protection certified	Yes
Material	Steel

Art. no. 0862 001 444

P. Qty.: 12

MPA Braunschweig Fire Protection Test Report no. 3612/5526 for mounting rails 41/41, 41/62, 41/82 and 41/124



VARIFIX® c-assembly rail 26/18

Various mounting options with extensive system components

Visually clean solution with no sharp edges

thanks to the use of cover caps

Easier alignment of the rails

Using lateral graduation lines

Noise insulation elements for every rail size

Heavy load

thanks to favourable profile cross-sections



Width (B)	26 mm
Height (H)	18 mm
Material thickness (t)	1.25 mm

Continuation **VARIFIX® c-assembly rail 26/18**

Width of mouth (B ₀)	14.3 mm
Elongated hole length (LL ₁)	25 mm
Elongated hole width (LB ₁)	8 mm
Elongated hole length 2 (LL ₂)	14 mm
Elongated hole width 2 (LB ₂)	11 mm
Elongated hole length 3 (LL ₃)	15 mm
Elongated hole width 3 (LB ₃)	6.5 mm
Elongated hole length 4 (LL ₄)	10 mm
Elongated hole width 4 (LB ₄)	6.5 mm
Elongated hole length 5 (LL ₅)	25 mm
Elongated hole width 5 (LB ₅)	11 mm
Hole distance (LA ₁)	22 mm
Hole distance 2 (LA ₂)	16 mm
Hole distance 3 (LA ₃)	24 mm
Surface	Plain
Weight per meter	638 g
Fire protection certified	No
Material	Stainless steel A4

Rail length (L)	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
2 m	5 pcs. with length 2 m	0865 001 001	10
3 m	5 pcs. with length 3 m	0865 001 221	15



VARIFIX® c-assembly rail 28/28

Various mounting options with extensive system components

Visually clean solution with no sharp edges

thanks to the use of cover caps

Easier alignment of the rails

Using lateral graduation lines

Noise insulation elements for every rail size

Heavy load

thanks to favourable profile cross-sections



Width (B)	28 mm
Height (H)	28 mm
Material thickness (t)	1.75 mm
Width of mouth (B ₀)	14.5 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	12.5 mm
Hole distance (LA ₁)	35 mm
Surface	Plain

Weight per meter	1180 g
Fire protection certified	No
Material	Stainless steel A4

Rail length (L)	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
2 m	5 pcs. with length 2 m	0865 001 003	10
3 m	5 pcs. with length 3 m	0865 001 223	15



VARIFIX® c-assembly rail 36/36

Various mounting options with extensive system components

Visually clean solution with no sharp edges

thanks to the use of cover caps

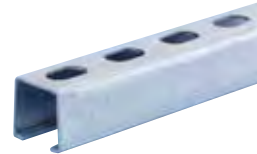
Easier alignment of the rails

Using lateral graduation lines

Noise insulation elements for every rail size

Heavy load

thanks to favourable profile cross-sections



Width (B)	36 mm
Height (H)	36 mm
Material thickness (t)	2.5 mm
Width of mouth (B ₀)	18 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	12.5 mm
Hole distance (LA ₁)	35 mm
Surface	Plain
Weight per meter	2159 g
Fire protection certified	No
Material	Stainless steel A4

Rail length (L)	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
2 m	5 pcs. with length 2 m	0865 001 004	10
6 m	4 pcs. with length 6 m (affects PU 24m)	0865 001 230	6/24



VARIFIX® c-assembly rail 41/41

Various mounting options with extensive system components

Visually clean solution with no sharp edges

thanks to the use of cover caps

Easier alignment of the rails

Using lateral graduation lines

Noise insulation elements for every rail size

Heavy load

thanks to favourable profile cross-sections



Width (B)	41 mm
Height (H)	41 mm
Material thickness (t)	2.5 mm
Width of mouth (B ₀)	22 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	12.5 mm
Rebate height (H _r)	7.5 mm
Hole distance (LA ₁)	35 mm
Surface	Plain
Weight per meter	2649 g
Fire protection certified	Yes
Material	Stainless steel A4

Rail length (L)	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
2 m	5 pcs. with length 2 m	0865 001 006	10
6 m	4 pcs. with length 6 m (affects PU 24m)	0865 001 231	6/24

MPA Braunschweig Fire Protection Test Report no. 3612/5526 for mounting rails 41/41, 41/62, 41/82 and 41/124



VARIFIX® c-assembly rail 41/62

Various mounting options with extensive system components

Visually clean solution with no sharp edges

Thanks to the use of cover caps

Easier alignment of the rails

Using lateral graduation lines

Noise insulation elements for every rail size

Heavy load

Thanks to favourable profile cross-sections



Width (B)	41 mm
Height (H)	62 mm
Material thickness (t)	3 mm
Width of mouth (B ₀)	22 mm

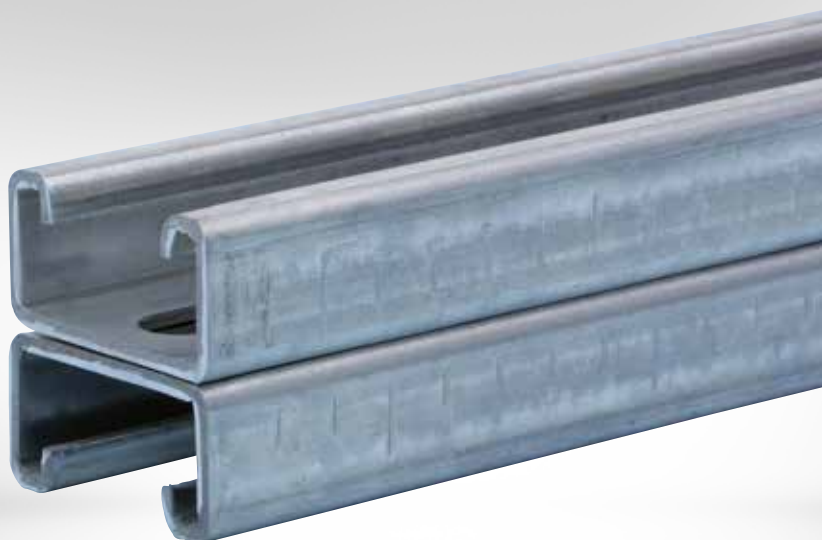
Elongated hole length (LL ₁)	30 mm
Elongated hole width (LB ₁)	14 mm
Rebate height (H _r)	7.5 mm
Hole distance (LA ₁)	50 mm
Rail length (L)	6 m
Included in delivery (Lieferumfang)	2 pcs. with length 6 m
Surface	Plain
Weight per meter	3980 g
Fire protection certified	Yes
Material	Stainless steel A4

Art. no. 0865 001 232

P. Qty.: 12

MPA Braunschweig Fire Protection Test Report no. 3612/5526 for mounting rails 41/41, 41/62, 41/82 and 41/124





VARIFIX® c-assembly rail 41/44

Various mounting options with extensive system components

Visually clean solution with no sharp edges

thanks to the use of cover caps

Easier alignment of the rails

Using lateral graduation lines

Noise insulation elements for every rail size

Heavy load

thanks to favourable profile cross-sections

Width (B)	41 mm
Height (H)	44 mm
Material thickness (t)	2.5 mm
Width of mouth (B ₀)	22 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	12.5 mm
Rebate height (H _F)	7.5 mm
Hole distance (LA ₁)	35 mm
Surface	Sendzimir galvanized
Weight per meter	3300 g
Fire protection certified	No
Material	Steel

Rail length (L)	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
3 m	4 pcs. with length 3 m	0862 001 250	12
6 m	4 pcs. with length 6 m	0862 001 251	24

VARIFIX® c-assembly rail 41/86 non-perforated

Various mounting options with extensive system components

- Unique geometry with new clinch connection
- Stamped toothing
- Visually clean solution with no sharp edges
- Easier alignment of the rails
- Noise insulation elements for every rail size
- Heavy load
- Option to insert a C-profile 41/22 or 41/41, with double profiles with through hole



Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB

Width (B)	41 mm
Height (H)	86 mm
Width of mouth (B ₀)	22 mm
Rebate height (H _r)	7.5 mm
Rail length (L)	6 m
Surface	Hot dip galvanized
Weight per meter	4644 g
Fire protection certified	Yes
Material	Structural steel sendzimir galvanised, S320GD, EN 10326

Art. no. 0862 001 325

P. Qty.: 6

Fire protection:
Expert opinion MFPA Leipzig No. GS 3.2/15-129-2



VARIFIX® c-assembly rail 41/128 non-perforated

Various mounting options with extensive system components



- Unique geometry with new clench connection
- Stamped toothing
- Visually clean solution with no sharp edges
- Easier alignment of the rails
- Noise insulation elements for every rail size
- Heavy load
- Option to insert a C-profile 41/22 or 41/41, with double profiles with through hole

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB

Width (B)	41 mm
Height (H)	128 mm
Rebate height (H _r)	7.5 mm
Rail length (L)	6 m
Surface	Hot dip galvanized
Weight per meter	7344 g
Fire protection certified	Yes
Material	Structural steel sendzimir galvanised, S320GD, EN 10326

Art. no. 0862 001 355

P. Qty.: 6

Fire protection:

Expert opinion MFPA Leipzig No. GS 3.2/15-129-2



VARIFIX® c-assembly rail 41/128 - C2C

Various mounting options with extensive system components

- Unique geometry with new clinch connection
- Stamped toothing
- Visually clean solution with no sharp edges
- Easier alignment of the rails
- Noise insulation elements for every rail size
- Heavy load
- Option to insert a C-profile 41/22 or 41/41, with double profiles with through hole



Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB

Width (B)	41 mm
Height (H)	128 mm
Width of mouth (B ₀)	22 mm
Elongated hole length (LL ₁)	84 mm
Elongated hole width (LB ₁)	18.5 mm
Rebate height (H _r)	7.5 mm
Hole distance (LA ₁)	100 mm
Distance (A)	100 mm
Rail length (L)	6 m
Surface	Hot dip galvanized
Weight per meter	6490 g
Fire protection certified	Yes
Material	Structural steel sendzimir galvanised, S320GD, EN 10326

Art. no. 0862 001 350

P. Qty.: 6

Fire protection:
Expert opinion MFPA Leipzig No. GS 3.2/15-129-2



VARIFIX® c-assembly rail 41/86

Various mounting options with extensive system components

Unique geometry with new clinch connection
Visually clean solution with no sharp edges
Easier alignment of the rails
Noise insulation elements for every rail size
Cradle to Cradle® certified



Continuation **VARIFIX® c-assembly rail 41/86**

Width (B)	41 mm
Height (H)	86 mm
Width of mouth (B ₀)	22 mm
Elongated hole length (LL ₁)	42 mm
Rebate height (H _F)	7.5 mm
Hole distance (LA ₁)	100 mm
Distance (A)	50 mm
Rail length (L)	6 m
Surface	Hot dip galvanized
Weight per meter	4330 g
Fire protection certified	Yes
Material	Structural steel sendzimir galvanised, S320GD, EN 10326

Art. no. 0862 001 320

P. Qty.: 6

Fire protection:

Expert opinion MFPA Leipzig No. GS 3.2/15-129-2



VARIFIX® multiprofile

Enables universal application in pre-installation or installation of all profile frameworks by simply riveting or screwing on (Zebra pias®).

- The rail is suitable for all sizes of holes due to being punched with three separate rows of holes
- Can be used for all common sanitary bore gauges



Length	2000 mm
Surface	Zinc plated
Width	50 mm
Thickness	3 mm
Product weight (per item)	830 g

Art. no. 0862 090 000

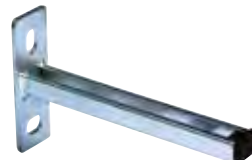
P. Qty.: 10

VARIFIX® bracket 26/18

Universal wall bracket for mounting piping etc.

- Rail end plug included in scope of delivery
- Units with clamping amplitude $\leq 26 \text{ N/mm}^2$

Base plate height (H)	120 mm
Base plate width (B)	40 mm



Base plate thickness (t)	4 mm
Profile height (H _p)	18 mm
Profile width (B _p)	26 mm
Profile thickness (t _p)	1.25 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	9 mm
Hole distance (LA ₁)	75 mm
Elongated hole length 2 (LL ₂)	29.5 mm
Elongated hole width 2 (LB ₂)	11.5 mm
Hole distance 2 (LA ₂)	50 mm
Fire protection certified	No
Surface	Zinc plated
Material	Structural steel, 1.0037 previously S235 JR

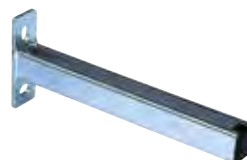
Effective length of bracket (X)	Art. no.	P. Qty.
204 mm	0862 009 001	1
304 mm	0862 009 002	1



VARIFIX® bracket 36/36

Zinc-plated console for mounting piping, assemblies and much more

- Rail end plug included in scope of delivery
- Units with clamping amplitude $\leq 26 \text{ N/mm}^2$



Base plate height (H)	120 mm
Base plate width (B)	40 mm
Base plate thickness (t)	8 mm
Profile height (H _p)	36 mm
Profile width (B _p)	36 mm
Profile thickness (t _p)	2.5 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	13 mm
Hole distance (LA ₁)	75 mm
Elongated hole length 2 (LL ₂)	29.5 mm
Elongated hole width 2 (LB ₂)	11.5 mm
Hole distance 2 (LA ₂)	50 mm
Fire protection certified	Yes
Surface	Zinc plated
Material	Structural steel, 1.0037 previously S235 JR

Continuation **VARIFIX® bracket 36/36**

Effective length of bracket (X)	Art. no.	P. Qty.
208 mm	0862 009 019	1
308 mm	0862 009 020	1
408 mm	0862 009 021	1
508 mm	0862 009 022	1
608 mm	0862 009 023	1

Fire protection test: test report no. 3612/5526



VARIFIX® bracket 41/82

With large base plate

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Height (H)	210 mm
Base plate thickness (t)	8 mm
Profile height (H _p)	82 mm
Profile width (B _p)	41 mm
Profile thickness (t _p)	2.5 mm
Elongated hole length (LL ₁)	25 mm
Elongated hole width (LB ₁)	13 mm
Hole distance (LA ₁)	150 mm
Elongated hole length 2 (LL ₂)	20 mm
Elongated hole width 2 (LB ₂)	12.5 mm
Hole distance 2 (LA ₂)	35 mm
Surface	Zinc plated
Material	Structural steel, 1.0037 previously S235 JR

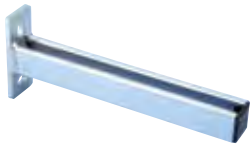
Effective length of bracket (X)	Art. no.	P. Qty.
770 mm	0862 009 064	1
1015 mm	0862 009 065	1



VARIFIX® bracket 41/41

Rail end plug included in scope of delivery

Base plate height (H)	126 mm
Base plate width (B)	50 mm
Base plate thickness (t)	8 mm
Profile height (H _p)	41 mm
Profile width (B _p)	41 mm
Profile thickness (t _p)	2.5 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	13 mm
Hole distance (LA ₁)	75 mm
Elongated hole length 2 (LL ₂)	20 mm
Elongated hole width 2 (LB ₂)	12.5 mm
Hole distance 2 (LA ₂)	35 mm
Surface	Zinc plated
Material	Structural steel, 1.0037 previously S235 JR



Effective length of bracket (X)	Fire protection certified	Art. no.	P. Qty.
1015 mm	No	0862 009 058	1
210 mm	Yes	0862 009 059	1
315 mm	Yes	0862 009 060	1
455 mm	Yes	0862 009 061	1
630 mm	Yes	0862 009 062	1
770 mm	No	0862 009 063	1

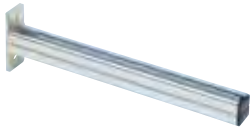


VARIFIX® bracket 41/22 D

Optimally suited to be used for pipe routing (at top and bottom)

Rail end plug included in scope of delivery

Base plate height (H)	125 mm
Base plate width (B)	50 mm
Base plate thickness (t)	8 mm
Profile height (H _p)	44 mm
Profile width (B _p)	41 mm
Profile thickness (t _p)	2.5 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	13 mm
Hole distance (LA ₁)	75 mm
Elongated hole length 2 (LL ₂)	20 mm
Elongated hole width 2 (LB ₂)	12.5 mm
Hole distance 2 (LA ₂)	35 mm



Continuation **VARIFIX® bracket 41/22 D**

Surface	Zinc plated
Material	Structural steel, 1.0037 previously S235 JR

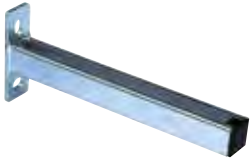
Effective length of bracket (X)	Fire protection certified	Art. no.	P. Qty.
210 mm	Yes	0862 009 090	1
315 mm	Yes	0862 009 091	1
450 mm	Yes	0862 009 092	1
630 mm	No	0862 009 093	1



VARIFIX® bracket 36/36

- Rail end plug included in scope of delivery
- Units with clamping amplitude $\leq 26 \text{ N/mm}^2$

Base plate height (H)	120 mm
Base plate width (B)	40 mm
Base plate thickness (t)	8 mm
Profile height (H _p)	36 mm
Profile width (B _p)	36 mm
Profile thickness (t _p)	2.5 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	13 mm
Hole distance (LA ₁)	75 mm
Elongated hole length 2 (LL ₂)	29.5 mm
Elongated hole width 2 (LB ₂)	11.5 mm
Hole distance 2 (LA ₂)	50 mm
Surface	Plain
Material	Stainless steel A4



Effective length of bracket (X)	Art. no.	P. Qty.
208 mm	0865 009 019	1
308 mm	0865 009 020	1
408 mm	0865 009 021	1
508 mm	0865 009 022	1
608 mm	0865 009 023	1



VARIFIX® bracket 41/41 — C2C

Rail end plug included in scope of delivery

Height (H)	41 mm
Base plate height (H)	126 mm
Base plate width (B)	50 mm
Base plate thickness (t)	8 mm
Profile height (H _p)	41 mm
Profile width (B _p)	41 mm
Profile thickness (t _p)	2.5 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	13 mm
Hole distance (LA ₁)	75 mm
Elongated hole length 2 (LL ₂)	20 mm
Elongated hole width 2 (LB ₂)	12.5 mm
Hole distance 2 (LA ₂)	35 mm
Fire protection certified	No
Surface	Plain
Material	Stainless steel A4, 1.4401



Effective length of bracket (X)	Art. no.	P. Qty.
210 mm	0865 009 059	1
315 mm	0865 009 060	1
455 mm	0865 009 061	1
630 mm	0865 009 062	1
770 mm	0865 009 063	1
1015 mm	0865 009 058	1



VARIFIX® bracket 41/41/2.5 Crosswise

For mounting piping, assemblies, etc.

- Rail end plug included in scope of delivery

Base plate height (H)	126 mm
Base plate width (B)	50 mm
Base plate thickness (t)	8 mm
Profile height (H _p)	41 mm
Profile width (B _p)	41 mm
Profile thickness (t _p)	2.5 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	13 mm
Hole distance (LA ₁)	75 mm
Elongated hole length 2 (LL ₂)	20 mm
Elongated hole width 2 (LB ₂)	12.5 mm
Hole distance 2 (LA ₂)	35 mm
Fire protection certified	No

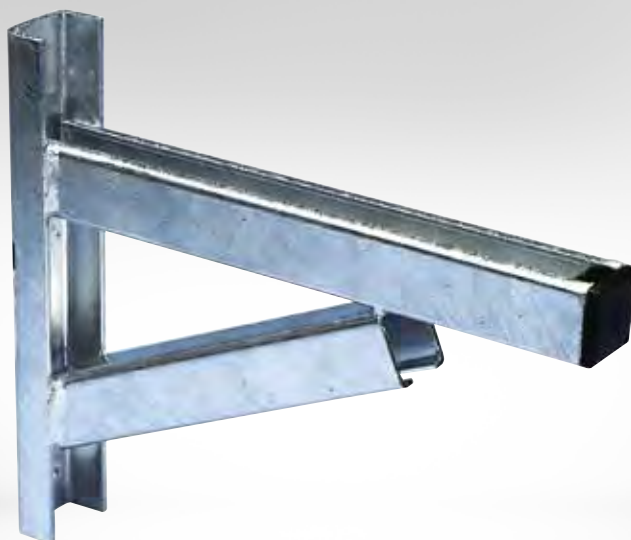


Continuation **VARIFIX® bracket 41/41/2.5 Crosswise**

Surface	Zinc plated
Material	Structural steel, 1.0037 previously S235 JR

Effective length of bracket (X)	Art. no.	P. Qty.
218 mm	0862 009 070	1
323 mm	0862 009 071	1
463 mm	0862 009 072	1
638 mm	0862 009 073	1





VARIFIX® heavy-duty bracket

Universal wall bracket for mounting piping etc.

- Rail end plug included in scope of delivery
- Units with clamping amplitude $\leq 26 \text{ N/mm}^2$

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB

Width (B)	46 mm
Profile width (B _p)	36 mm
Profile height (H _p)	36 mm
Profile thickness (t _p)	2.5 mm
Elongated hole length (LL ₁)	25 mm
Elongated hole width (LB ₁)	12.5 mm
Elongated hole length 2 (LL ₂)	29.5 mm
Elongated hole width 2 (LB ₂)	11.5 mm
Surface	Hot dip galvanized
Hole distance 2 (LA ₂)	50 mm
Material	Structural steel, 1.0037 previously S235 JR

Continuation **VARIFIX® heavy-duty bracket**

Length (L)	Height (H)	Effective length of bracket (X)	Hole distance on wall attachment (LA ₁)	Product weight (per item)	Art. no.	P. Qty.
307.5 mm	255 mm	300 mm	208 mm	1711.8 g	0862 009 040	1
407.5 mm	280 mm	400 mm	233 mm	2199.1 g	0862 009 041	1
507.5 mm	310 mm	500 mm	263 mm	2723.3 g	0862 009 042	1
607.5 mm	340 mm	600 mm	293 mm	3271.1 g	0862 009 043	1
707.5 mm	370 mm	700 mm	323 mm	4000 g	0862 009 044	1
807.5 mm	400 mm	800 mm	353 mm	3910 g	0862 009 045	1
907.5 mm	430 mm	900 mm	383 mm	4370 g	0862 009 046	1

VARIFIX® bracket, heavy 36/36

- Rail end plug included in scope of delivery
- Units with clamping amplitude $\leq 26 \text{ N/mm}^2$



Width (B)	46 mm
Profile width (B _p)	36 mm
Profile height (H _p)	36 mm
Profile thickness (t _p)	2.5 mm
Elongated hole length (LL ₁)	25 mm
Elongated hole width (LB ₁)	12.5 mm
Elongated hole length 2 (LL ₂)	29.5 mm
Elongated hole width 2 (LB ₂)	11.5 mm
Surface	Plain
Hole distance 2 (LA ₂)	50 mm
Material	Stainless steel A4

Length (L)	Height (H)	Effective length of bracket (X)	Hole distance on wall attachment (LA ₁)	Product weight (per item)	Art. no.	P. Qty.
307.5 mm	255 mm	300 mm	208 mm	1696 g	0865 009 040	1
407.5 mm	280 mm	400 mm	233 mm	2164 g	0865 009 041	1
507.5 mm	310 mm	500 mm	263 mm	2690 g	0865 009 042	1
607.5 mm	340 mm	600 mm	293 mm	3158 g	0865 009 043	1
707.25 mm	370 mm	700 mm	323 mm	3682 g	0865 009 044	1



VARIFIX® bracket set

For vibration-free mounting. Quick, time-saving mounting of refrigerators and air conditioning units.

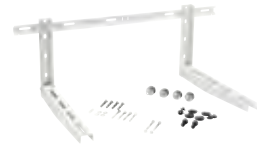
Time-saving mounting

Simple snapping together/engaging of parts

Easy alignment

Integrated spirit level

Vertical struts can be adjusted to various positions along the horizontal strut



Surface	Epoxy coating
Material	Steel
Vertical-section length	400 mm
Material thickness	2 mm

Support-arm length	Max. loading weight	Horizontal-section length	Product weight (per item)	Art. no.	P. Qty.
420 mm	80 kg	780 mm	2520 g	0862 423 045	1
465 mm	140 kg	780 mm	3580 g	0862 423 046	1
560 mm	140 kg	1000 mm	4240 g	0862 423 047	1

Varifix® console set, heavy-duty design

For refrigerators/air conditioning units

Easy height adjustments

Pre-mounted hammer-head bolts

Flexible adjustment of attachment

with sliding nuts

Rapid wall mounting

Cut-to-length mounting rail 41/41/1.8 including end caps



Max. loading weight	160 kg
Surface	Zinc plated
Vertical-section length	520 mm
Load capacity	160 kg
Load capacity per pair	160 kg

Support-arm length	Material	With rubber-metal cushion	Product weight (per item)	Art. no.	P. Qty.
480 mm	Steel	No	4700 g	0862 423 448	1
560 mm	Steel	No	5835 g	0862 423 456	1
640 mm	Steel	No	5780 g	0862 423 464	1
480 mm	Steel/rubber	Yes	5560 g	0862 423 548	1
560 mm	Steel/rubber	Yes	6106 g	0862 423 556	1
640 mm	Steel/rubber	Yes	6366 g	0862 423 564	1



Varifix® support beam for power button

Increases the load capacity of rail structures/brackets

Equipped with Powerknopf version on one side
Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Suitable for mounting rail	41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm, 41 x 128 mm, 41 x 86 mm
Length (L)	1131 mm
Material thickness (t)	4 mm
Width (B)	50 mm
Height (H)	800 mm
Elongated hole width (LB)	13 mm
Elongated hole length (LL)	36 mm
Diameter of hole (RL)	13 mm
Permissible load	4500 N
Angle	45 Degree
Weight	3000 g
Surface	Zinc plated
Material	Unalloyed quality steel, 1.0332

Art. no. 0862 009 130

P. Qty.: 1



Ventilation duct clamp

Connection element for large duct cross-sections

Can be used for low and medium-pressure systems

Double ribbing over bending edges

High quality and strength

Quick and easy installation

Eliminates costs for pre-clamping and drilling holes



Width (B)	30 mm
Surface	Zinc plated
Material	Steel
Pressure load/tensile load	1.5 kN

Length (L)	Height (H)	Thickness (t)	Grip range (k)	Rebate length (L _r)	Art. no.	P. Qty.
20 mm	34 mm	3 mm	23 mm	17 mm	0862 007 001	100
24.5 mm	39 mm	4 mm	26 mm	19 mm	0862 007 005	50



Ventilation duct clamp

Ventilation duct clamp for connecting flanged systems in low and medium-pressure systems

Connection element for large duct cross-sections

Can be used for low and medium-pressure systems

Double ribbing over bending edges

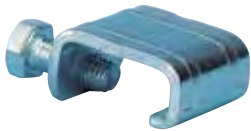
High quality and strength

Quick and easy installation

Eliminates costs for pre-clamping and drilling holes.

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Length (L)	20 mm
Width (B)	30 mm
Height (H)	34 mm
Thickness (t)	3 mm
Grip range (k)	23 mm
Rebate length (L _r)	17 mm
Thread type x nominal diameter x length of clamping bolt	M 8 x 25 mm
Surface	Plain
Material	Stainless steel A4
Length (clamping bolt)	25 mm
Pressure load/tensile load	1.5 kN

Art. no. 0865 007 001

P. Qty.: 100



VARIFIX® air duct mounting bracket L-shaped

With integrated noise dampening element

- Secure to structure by means of rivets or ZEBRA®pilas® screws
- Height adjustment using threaded rods

Max. load force	500 N
Thickness (t)	2.5 mm
Width (B)	30 mm
Limb length 2 (L ₂)	45 mm
Elongated hole length (LL)	24 mm



Continuation **VARIFIX®** air duct mounting bracket L-shaped

Elongated hole width (LB)	8.5 mm
Round hole diameter (RL)	4.2 mm
Surface	Zinc plated
Material	Steel
Type description	Shape L

Suitable for threaded rods	Limb length (L ₁)	Weight	Art. no.	P. Qty.
M8	58 mm	60 g	0862 507 0	50
M8	100 mm	77 g	0862 508 0	50
M8	130 mm	90 g	0862 509 0	50
M10	100 mm	77 g	0862 511 0	50



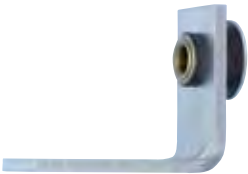
VARIFIX® air duct mounting bracket L-shaped

With integrated noise dampening element

Convenient installation of riser ducts

Thanks to multiple holes

The bracket can be attached to Varifix brackets.



Suitable for threaded rods	M10
Max. load force	800 N
Thickness (t)	5 mm
Width (B)	35 mm
Limb length (L ₁)	79 mm
Limb length 2 (L ₂)	65 mm
Elongated hole length (LL)	24 mm
Elongated hole width (LB)	8.5 mm
Round hole diameter (RL)	5 mm
Weight	179 g
Surface	Zinc plated
Material	Steel
Type description	Shape L

Art. no. 0862 512 001

P. Qty.: 15



VARIFIX® air duct mounting bracket Type Z

With integrated noise dampening element

- Secure to structure by means of rivets or Zebra plus screws
- Height adjustment using threaded rods
-



Max. load force	500 N
Thickness (t)	2.5 mm
Width (B)	30 mm
Length (L)	30 mm
Height (H)	50 mm
Weight	64 g
Surface	Zinc plated
Material	Steel
Type description	Shape Z

Suitable for threaded rods	Art. no.	P. Qty.
M8	0862 502 0	50
M10	0862 503 0	50

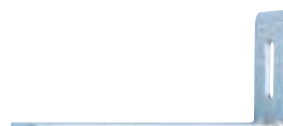


Varifix® air duct mounting bracket L-shaped

Without noise dampening element

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Suitable for threaded rods (G)	M8
Max. load force	500 N
Surface	Zinc plated
Thickness (t)	2.5 mm
Width (B)	30 mm
Limb length 2 (L ₂)	45 mm
Elongated hole length/elongated hole width (LBxLL)	24 x 8.5 mm
Round hole diameter (RL)	4.2 mm
Material	Steel
Design	Without noise protection

Limb length (L ₁)	Weight	Art. no.	P. Qty.
58 mm	46 g	0862 504 0	100
100 mm	65 g	0862 505 0	100
130 mm	77 g	0862 506 0	100

Continuation **Varifix®** air duct mounting bracket L-shaped



VARIFIX® connection bracket, 90°

With 3 slotted holes

Elongated hole length (LL ₁)	25 mm
Hole distance (LA)	33 mm
Surface	Zinc plated
Material	Steel



Suitable for mounting rail	Limb length (L ₁)	Limb length 2 (L ₂)	Width of side (B)	Thickness (t)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	28 mm	75 mm	25 mm	4 mm	0862 005 040	50
36 x 36 mm	36 mm	80 mm	33 mm	5 mm	0862 005 041	50
41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm, 41 x 82 mm, 41 x 124 mm, 41 x 128 mm, 41 x 86 mm	45 mm	90 mm	40 mm	6 mm	0862 005 042	50



VARIFIX® connection bracket, 45°

With 4 slotted holes

Elongated hole length (LL ₁)	25 mm
Surface	Zinc plated
Material	Steel



Suitable for mounting rail	Limb length (L ₁)	Width of side (B)	Thickness (t)	Elongated hole width (LB ₁)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	68 mm	25 mm	4 mm	9 mm	0862 005 060	15
36 x 36 mm	72 mm	35 mm	5 mm	11 mm	0862 005 061	15
41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm, 41 x 82 mm, 41 x 124 mm, 41 x 128 mm, 41 x 86 mm	84 mm	40 mm	6 mm	13 mm	0862 005 062	15



VARIFIX® connection bracket, 90°, pre-assembled

Secure plug-in assembly

- Reduces working time
- No individual parts

Surface	Zinc plated
Material	Steel



Suitable for mounting rail	Limb length (L ₁)	Width of side (B)	Thickness (t)	Hole distance (LA)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	82 mm	25 mm	5 mm	42 mm	0862 005 120	15
36 x 36 mm	95 mm	35 mm	6 mm	50 mm	0862 005 121	15
41 x 124 mm, 41 x 82 mm, 41 x 62 mm, 41 x 44 mm, 41 x 41 mm, 41 x 22 mm, 41 x 86 mm, 41 x 128 mm	105 mm	40 mm	6 mm	55 mm	0862 005 122	15



VARIFIX® connection bracket, 45°, pre-assembled

Secure plug-in assembly

- Reduces working time
- No individual parts

Surface	Zinc plated
Material	Steel



Continuation **VARIFIX® connection bracket, 45°, pre-assembled**

Suitable for mounting rail	Limb length (L ₁)	Width of side (B)	Thickness (t)	Hole distance (LA)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	79 mm	25 mm	5 mm	42 mm	0862 005 130	15
36 x 36 mm	91.5 mm	35 mm	6 mm	50 mm	0862 005 131	15
41 x 124 mm, 41 x 82 mm, 41 x 62 mm, 41 x 44 mm, 41 x 41 mm, 41 x 22 mm, 41 x 128 mm, 41 x 86 mm	97 mm	40 mm	6 mm	55 mm	0862 005 132	15



VARIFIX® connection bracket, 45°

With 4 round holes

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Limb length (L ₁)	88 mm
Surface	Zinc plated
Material	Steel

Suitable for mounting rail	Width of side (B)	Thickness (t)	Round hole diameter (RL)	Hole distance (LA)	Art. no.	P. Qty.
36 x 36 mm	35 mm	4 mm	11 mm	44 mm	0862 005 261	25
41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm, 41 x 82 mm, 41 x 124 mm, 41 x 128 mm, 41 x 86 mm	40 mm	6 mm	13 mm	35 mm	0862 005 262	25



VARIFIX® connection bracket 90°

With 4 round holes

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB

Limb length (L ₁)	91 mm
Limb length 2 (L ₂)	91 mm
Surface	Zinc plated
Material	Steel



Suitable for mounting rail	Width of side (B)	Thickness (t)	Round hole diameter (RL)	Hole distance (LA)	Art. no.	P. Qty.
36 x 36 mm	35 mm	4 mm	11 mm	44 mm	0862 005 251	25
41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm, 41 x 82 mm, 41 x 124 mm, 41 x 128 mm, 41 x 86 mm	40 mm	6 mm	13 mm	35 mm	0862 005 252	25



VARIFIX® connection bracket, 90 degrees

Elongated hole length (LL ₁)	25 mm
Hole distance (LA)	33 mm
Surface	Plain
Material	Stainless steel A4



Suitable for mounting rail	Limb length (L ₁)	Limb length 2 (L ₂)	Width of side (B)	Thickness (t)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	28 mm	75 mm	25 mm	4 mm	0865 005 040	1
36 x 36 mm	36 mm	80 mm	33 mm	5 mm	0865 005 041	1
41 x 41 mm, 41 x 62 mm	45 mm	90 mm	40 mm	6 mm	0865 005 042	1



VARIFIX® connection bracket, 90 degrees, pre-assembled

Secure plug-in assembly

- Reduces working time
- No individual parts

Surface	Plain
Material	Stainless steel A4



Suitable for mounting rail	Limb length (L ₁)	Width of side (B)	Thickness (t)	Hole distance (LA)	Art. no.	P. Qty.
26 x 18 mm, 28 x 28 mm	82 mm	25 mm	5 mm	42 mm	0865 005 120	1
36 x 36 mm	95 mm	35 mm	6 mm	50 mm	0865 005 121	1
41 x 41 mm, 41 x 62 mm	105 mm	40 mm	6 mm	55 mm	0865 005 122	1



VARIFIX® connection bracket, 90°

With 3 round holes

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB

Limb length (L ₁)	46.5 mm
Limb length 2 (L ₂)	91 mm
Hole distance (LA)	35 mm
Surface	Zinc plated
Material	Steel



Suitable for mounting rail	Width of side (B)	Thickness (t)	Round hole diameter (RL)	Weight	Art. no.	P. Qty.
36 x 36 mm	35 mm	4 mm	11 mm	0.13 kg	0862 005 241	25
41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm, 41 x 82 mm, 41 x 124 mm, 41 x 128 mm, 41 x 86 mm	40 mm	6 mm	13 mm	0.22 kg	0862 005 242	25



VARIFIX® connection bracket for power button system - C2C

With 4 round holes. Can be used with all 41-range VARIFIX® rails in conjunction with VARIFIX® power button

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Suitable for mounting rail	41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm, 41 x 86 mm, 41 x 128 mm
Limb length (L ₁)	120 mm
Width of side (B)	40 mm
Thickness (t)	6 mm
Round hole diameter (RL)	24 mm
Elongated hole length (LL ₁)	36 mm
Elongated hole width (LB ₁)	20 mm
Hole distance (LA)	48.5 mm
Surface	Zinc plated
Material	Structural steel, 1.0037 previously S235 JR
Weight	300 g

Art. no. 0862 004 072

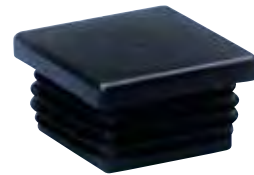
P. Qty.: 20



Rail end plugs

Suitable for C-mounting rails

Material	PE - Polyethylene
Colour	Black



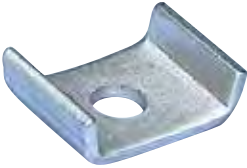
Suitable for mounting rail	Art. no.	P. Qty.
26 x 18 mm	0862 005 001	50
26 x 26 mm	0862 005 002	50
28 x 28 mm	0862 005 003	50
41 x 22 mm, 41 x 44 mm	0862 005 005	50
41 x 62 mm, 41 x 124 mm	0862 005 007	50



VARIFIX® retaining clips zinc-plated

The safe alternative to washers

- Prevents the sides of the C-rail from bending upwards when loaded



Height (H)	10 mm
Material	Steel
Surface	Zinc plated

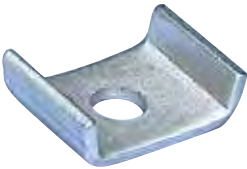
Diameter of hole (RL)	Suitable for mounting rail	Width (B)	Length (L)	Thickness (t)	Art. no.	P. Qty.
10.5 mm	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	25 mm	32 mm	2 mm	0862 005 150	100
10.5 mm	36 x 36 mm	30 mm	42 mm	2 mm	0862 005 151	100
10.5 mm	41 x 22 mm, 41 x 41 mm, 41 x 124 mm, 41 x 44 mm, 41 x 62 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	30 mm	47.5 mm	3 mm	0862 005 152	100
13 mm	41 x 44 mm, 41 x 62 mm, 41 x 82 mm, 41 x 124 mm, 41 x 22 mm, 41 x 41 mm, 41 x 128 mm, 41 x 86 mm	30 mm	47.5 mm	3 mm	0862 005 153	100



VARIFIX® retaining clip

The safe alternative to washers

- Prevents the sides of the C-rail from bending upwards when loaded



Height (H)	10 mm
Material	Stainless steel A4
Surface	Plain

Diameter of hole (RL)	Suitable for mounting rail	Width (B)	Length (L)	Thickness (t)	Art. no.	P. Qty.
10.5 mm	26 x 18 mm, 28 x 28 mm	25 mm	32 mm	2 mm	0865 005 150	25
10.5 mm	36 x 36 mm	30 mm	42 mm	2 mm	0865 005 151	25
10.5 mm	41 x 41 mm, 41 x 62 mm	30 mm	47.5 mm	3 mm	0865 005 152	25
13 mm	41 x 41 mm, 41 x 62 mm	30 mm	47.5 mm	3 mm	0865 005 153	25



VARIFIX® retaining clip, heavy-duty zinc-plated

The safe alternative to washers

- Prevents the sides of the C-rail from bending upwards when loaded



Suitable for mounting rail	41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm, 41 x 82 mm, 41 x 124 mm, 41 x 128 mm, 41 x 86 mm
Width (B)	29 mm
Length (L)	53 mm
Thickness (t)	6 mm
Height (H)	10 mm
Material	Steel
Surface	Zinc plated

Diameter of hole (RL)	Weight	Art. no.	P. Qty.
11 mm	86 g	0862 005 154	25
14 mm	85 g	0862 005 155	25
17 mm	85 g	0862 005 156	25



Fishplate bolt

DIN 571 galvanised

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



DIN	571
Material	Steel
Surface	Zinc plated

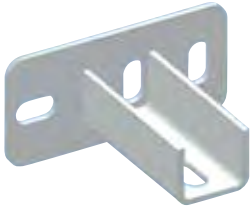
Length (L)	Thread length (thread for woodwork) (L _o)	Diameter (ØD)	Width across flats (SW)	Internal drive	Art. no.	P. Qty.
60 mm	36 mm	8 mm	13 mm	AW30	0862 001 030	100
80 mm	48 mm	8 mm	13 mm	AW30	0862 001 031	100
100 mm	60 mm	8 mm	13 mm	AW30	0862 001 032	100
60 mm	36 mm	6 mm	10 mm	AW25	0862 001 041	100
70 mm	48 mm	6 mm	10 mm	AW25	0862 001 042	100



VARIFIX® crosswise profile foot

For C-assembly rails

Elongated hole length (LL ₁)	25 mm
Surface	Zinc plated
Material	Steel



Suitable for mounting rail	Holder plate length (L)	Holder plate width (B)	Holder plate thickness (t)	Profile length (L _p)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	100 mm	50 mm	5 mm	80 mm	0862 005 109	10
36 x 36 mm	135 mm	65 mm	6 mm	100 mm	0862 005 114	10
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 44 mm	135 mm	65 mm	6 mm	120 mm	0862 005 116	10



VARIFIX® profile foot

For C-assembly rails

- Good load removal due to rigid U profile

Elongated hole length (LL ₁)	25 mm
Surface	Zinc plated
Material	Steel



Suitable for mounting rail	Holder plate length (L)	Holder plate width (B)	Holder plate thickness (t)	Profile length (L _p)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	100 mm	50 mm	5 mm	80 mm	0862 005 110	25
36 x 36 mm	135 mm	65 mm	6 mm	100 mm	0862 005 111	10
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 44 mm	135 mm	65 mm	6 mm	120 mm	0862 005 112	10



VARIFIX® profile foot

For C-mounting rails

Elongated hole length (LL ₁)	25 mm
Surface	Plain
Material	Stainless steel A4



Suitable for mounting rail	Holder plate length (L)	Holder plate width (B)	Holder plate thickness (t)	Profile length (L _p)	Art. no.	P. Qty.
26 x 18 mm, 28 x 28 mm	100 mm	50 mm	5 mm	80 mm	0865 005 110	1
36 x 36 mm	135 mm	65 mm	6 mm	100 mm	0865 005 111	1
41 x 62 mm, 41 x 41 mm	135 mm	65 mm	6 mm	120 mm	0865 005 112	1

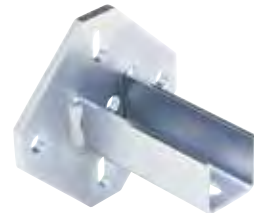


VARIFIX® profile foot 41/41

For C-assembly rails

With large base plate

Suitable for mounting rail	41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm
Holder plate length (L)	150 mm
Holder plate width (B)	150 mm
Holder plate thickness (t)	8 mm
Profile length (L _p)	120 mm
Profile internal width (B _p)	37 mm
Profile height (H _p)	42 mm
Profile thickness (t _p)	4 mm
Diameter of hole (RL)	13 mm
Elongated hole length (LL ₁)	25 mm
Elongated hole length 2 (LL ₂)	30 mm
Elongated hole width (LB ₁)	13 mm
Elongated hole width 2 (LB ₂)	13 mm
Hole distance (LA ₁)	102 mm
Hole distance 2 (LA ₂)	120 mm
Hole distance 3 (LA ₃)	55 mm
Surface	Zinc plated
Weight	1.33 kg
Material	Steel



Art. no. 0862 005 212

P. Qty.: 1

Continuation **VARIFIX® profile foot 41/41**



VARIFIX® profile foot for power button system 41 - C2C

Can be used with all 41-range VARIFIX® rails in conjunction with VARIFIX® power button

Cradle to Cradle®-certified

Suitable for mounting rail	41 x 44 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm
Holder plate length (L)	135 mm
Holder plate width (B)	65 mm
Holder plate thickness (t)	6 mm
Profile length (L _p)	120 mm
Profile internal width (B _p)	41.5 mm
Profile height (H _p)	41 mm
Profile thickness (t _p)	4 mm
Elongated hole length (LL ₁)	25 mm
Elongated hole length 2 (LL ₂)	36 mm
Elongated hole width (LB ₁)	13.5 mm
Elongated hole width 2 (LB ₂)	20 mm
Hole distance (LA ₁)	100 mm
Hole distance 2 (LA ₂)	37 mm
Hole distance 3 (LA ₃)	54 mm
Surface	Zinc plated
Weight	780 g
Material	Structural steel, 1.0037 previously S235 JR



Art. no. 0862 004 010

P. Qty.: 10



VARIFIX® profile foot transverse for power button system 41

For attaching C-assembly rails in conjunction with VARIFIX® power button

Suitable for mounting rail	41 x 62 mm, 41 x 41 mm, 41 x 22 mm, 41 x 44 mm
Holder plate length (L)	135 mm
Holder plate width (B)	65 mm
Holder plate thickness (t)	6 mm
Profile length (L _p)	120 mm



Profile internal width (B _p)	41.5 mm
Profile height (H _p)	35 mm
Profile thickness (t _p)	6 mm
Elongated hole length (LL ₁)	25 mm
Elongated hole length 2 (LL ₂)	36 mm
Elongated hole width (LB ₁)	13.5 mm
Elongated hole width 2 (LB ₂)	20 mm
Hole distance (LA ₁)	100 mm
Hole distance 2 (LA ₂)	52 mm
Hole distance 3 (LA ₃)	54 mm
Surface	Zinc plated
Weight	780 g
Material	Steel

Art. no. 0862 004 011

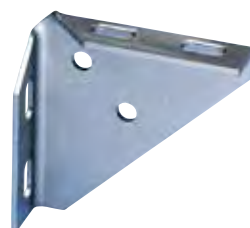
P. Qty.: 10



VARIFIX® frame bracket

For fixed-point mounting of C-assembly rails (longitudinal, transverse, diagonal)

Material	Steel
Surface	Zinc plated



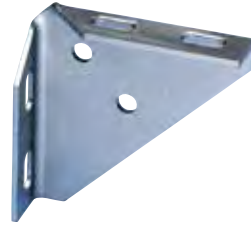
Suitable for mounting rail	Limb length (L)	Width of side (B)	Thickness (t)	Diameter of hole (RL)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	100 mm	27 mm	3 mm	9 mm	0862 005 050	25
36 x 36 mm	150 mm	35 mm	4 mm	11 mm	0862 005 051	10
41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm, 41 x 82 mm, 41 x 124 mm, 41 x 128 mm, 41 x 86 mm	150 mm	40 mm	4 mm	13 mm	0862 005 052	10



VARIFIX® frame brackets

Stainless steel connection components for C-profiles A4

Material	Stainless steel A4
Surface	Plain



Suitable for mounting rail	Limb length (L)	Width of side (B)	Thickness (t)	Diameter of hole (RL)	Art. no.	P. Qty.
26 x 18 mm, 28 x 28 mm	100 mm	27 mm	3 mm	9 mm	0865 005 050	1
36 x 36 mm	150 mm	35 mm	4 mm	11 mm	0865 005 051	1
41 x 41 mm, 41 x 62 mm	150 mm	40 mm	4 mm	13 mm	0865 005 052	1



VARIFIX® frame bracket for power button system 41

Can be used with all 41-range VARIFIX® rails and the VARIFIX® power button

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Suitable for mounting rail	41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm, 41 x 128 mm, 41 x 86 mm
Limb length (L)	150 mm
Width of side (B)	50 mm
Thickness (t)	6 mm
Diameter of hole (RL)	13 mm
Elongated hole length (LL)	36 mm
Elongated hole width (LB)	20 mm
Hole distance (LA)	48.5 mm
Material	Structural steel, 1.0037 previously S235 JR
Surface	Zinc plated
Product weight (per item)	891 g

Art. no. 0862 004 020

P. Qty.: 10



VARIFIX® damping profile

For noise decoupling on mounting rails, e.g. with ventilation ducts. Also suitable for threaded rods.

Weather and ozone resistance
Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Length (L)	30 m
Material	EPDM (ethylene propylene diene monomer rubber)
Min./max. temperature resistance	-50 to 120 °C
Colour	Black

Width (B)	Insertion width (B _E)	Insertion depth (H _E)	Basic profile thickness (t _p)	Suitable for mounting rail	Art. no.	P. Qty.
26 mm	17 mm	12.5 mm	5 mm	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	0862 042 040	1
36 mm	21 mm	12 mm	6 mm	36 x 36 mm	0862 042 041	1
41 mm	26 mm	12.5 mm	7.5 mm	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	0862 042 042	1

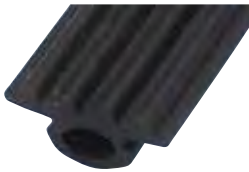


VARIFIX® damping profile

In sections

Weather and ozone resistance
Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Length (L)	10 cm
Material	EPDM (ethylene propylene diene monomer rubber)
Min./max. temperature resistance	-50 to 120 °C
Colour	Black

Continuation **VARIFIX®** damping profile

Width (B)	Insertion width (B _E)	Insertion depth (H _E)	Basic profile thickness (t _p)	Suitable for mounting rail	Art. no.	P. Qty.
26 mm	17 mm	12.5 mm	5 mm	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	0862 042 060	50
36 mm	21 mm	12 mm	6 mm	36 x 36 mm	0862 042 061	50
41 mm	26 mm	12.5 mm	7.5 mm	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 82 mm, 41 x 44 mm, 41 x 128 mm, 41 x 86 mm	0862 042 062	50



VARIFIX® rail connectors

Heavy-duty design

With 4 round holes

Adapted to the slotted holes of mounting rails

Force-fit or positive-locking connection

for push-through mounting with set screws or hexagonal screws, washers and nuts



Profile height (H _p)	35 mm
Profile width (B _p)	42 mm
Thickness (t _i)	4 mm
Diameter of hole (RL)	11 mm
Material	Steel
Surface	Zinc plated

Suitable for mounting rail	Length (L ₁)	Hole distance (LA ₁)	Weight	Art. no.	P. Qty.
41 x 41 mm, 41 x 82 mm	155 mm	35 mm	532 g	0862 006 005	1
41 x 62 mm, 41 x 124 mm	200 mm	50 mm	690 g	0862 006 004	1



VARIFIX® rail connector T-shaped

With oblong holes

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB

Suitable for mounting rail	41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm
Length (L ₁)	155 mm
Length 2 (L ₂)	155 mm
Profile height (H _p)	35 mm
Profile width (B _p)	42 mm
Thickness (t ₁)	4 mm
Elongated hole length (LL)	40 mm
Elongated hole width (LB)	15 mm
Hole distance (LA ₁)	75 mm
Hole distance 2 (LA ₂)	100 mm
Weight	1.07 kg
Material	Steel
Surface	Zinc plated



Art. no. 0862 006 115

P. Qty.: 4



Varifix® rail connector flat for power button system 41

For attaching C-assembly rails in conjunction with Pow-erknopf

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB

Suitable for mounting rail	41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm, 41 x 86 mm, 41 x 128 mm
Length (L ₁)	210 mm
Width (B ₁)	40 mm
Thickness (t ₁)	6 mm
Elongated hole length (LL)	36 mm
Elongated hole width (LB)	20 mm
Hole distance (LA ₁)	50 mm
Weight	245 g
Material	Steel
Surface	Zinc plated



Continuation **Varifix® rail connector flat for power button system** **41**

Art. no. 0862 004 080

P. Qty.: 25



Varifix® rail connector, heavy-duty design

For attaching C-assembly rails in conjunction with Pow-erknopf

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Suitable for mounting rail	41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm, 41 x 128 mm, 41 x 86 mm
Length (L _i)	210 mm
Width (B _i)	54 mm
Profile height (H _p)	35 mm
Profile width (B _p)	42 mm
Thickness (t _i)	6 mm
Elongated hole length (LL)	36 mm
Elongated hole width (LB)	20 mm
Hole distance (LA _i)	50 mm
Weight	995 g
Material	Steel
Surface	Zinc plated

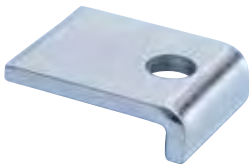
Art. no. 0862 004 081

P. Qty.: 1



VARIFIX® support clip TS

- Hole diameter: 13 mm for threaded rods or bolts up to M12
- Load-bearing capacity with rating 4.6: 10 kN, grade 5.6 load capacity: 12 kN
- Fastening with combination sliding nut



Diameter of hole (RL)	13 mm
Length (L)	45 mm
Width (B)	40 mm

Thickness (t)	6 mm
Surface	Zinc plated
Material	Steel

Grip range (k)	Product weight (per item)	Art. no.	P. Qty.
10 mm	99.7 g	0862 005 090	20
15 mm	103.95 g	0862 005 091	20
20 mm	119.6 g	0862 005 092	10
25 mm	122.8 g	0862 005 093	10



VARIFIX® end bracket

Holder plate length (L)	120 mm
Holder plate width (B)	40 mm
Hole distance on wall attachment (LA ₁)	75 mm
Elongated hole length (LL)	20 mm
Material	Steel
Surface	Zinc plated



Suitable for mounting rail	Holder plate thickness (t)	Hole distance 2 (LA ₂)	Elongated hole width (LB)	Horizontal-section thickness (t _a)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	4 mm	42 mm	9 mm	4 mm	0862 005 140	10
36 x 36 mm	8 mm	50 mm	9 mm	5 mm	0862 005 141	10
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 44 mm	8 mm	55 mm	13 mm	5 mm	0862 005 142	10



VARIFIX® crosswise end bracket

Holder plate length (L)	120 mm
Holder plate width (B)	40 mm
Hole distance on wall attachment (LA ₁)	75 mm
Elongated hole length (LL)	20 mm
Material	Steel
Surface	Zinc plated



Continuation **VARIFIX®** crosswise end bracket

Suitable for mounting rail	Holder plate thickness (t)	Hole distance 2 (LA ₂)	Elongated hole width (LB)	Horizontal-section thickness (t _a)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	4 mm	42 mm	9 mm	4 mm	0862 005 143	10
36 x 36 mm	8 mm	50 mm	13 mm	5 mm	0862 005 144	10
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 44 mm	8 mm	55 mm	13 mm	5 mm	0862 005 145	10



VARIFIX® hinge connector

- Adjustable angle
- For longer bracket arms with strut

Thickness (t)	4 mm
Length 2 (L ₂)	146 mm
Profile thickness (t _p)	4 mm
Profile length (L _p)	135 mm
Diameter of hole (RL)	13 mm
Hole distance (LA ₁)	35 mm
Surface	Zinc plated
Material	Steel



Suitable for mounting rail	Width (B)	Length (L ₁)	Profile width (B _p)	Profile height (H _p)	Art. no.	P. Qty.
36 x 36 mm	35.5 mm	125 mm	37.5 mm	36 mm	0862 005 172	1
41 x 41 mm, 41 x 22 mm, 41 x 44 mm, 41 x 62 mm	38 mm	128 mm	42 mm	41 mm	0862 005 173	1



VARIFIX® hinge connector Vario

Freely adjustable on both sides to every angle from 0–90°

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Suitable for mounting rail	41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm, 41 x 128 mm, 41 x 86 mm
Width (B)	40 mm
Height (H)	74 mm
Surface	Zinc plated
Material	Steel

Permissible load	Thickness (t)	Length (L ₁)	Length 2 (L ₂)	Diameter of hole (RL)	Art. no.	P. Qty.
5 kN	4 mm	55 mm	65 mm	13 mm	0862 005 181	10
10 kN	6 mm	62 mm	75 mm	18 mm	0862 005 183	10



VARIFIX® tensioning clamp

For fastening C-assembly rails to steel supports without drilling and welding.

Secure assembly

Design with two holes



Length (L)	45 mm
Height (H)	45 mm
Material	Steel
Surface	Zinc plated

Suitable for mounting rail	Width (B)	Thickness (t)	Length of stirrup piece (L _s)	Bracket width (B _s)	Art. no.	P. Qty.
41 x 86 mm	80 mm	6 mm	140 mm	53 mm	0862 005 101	10
41 x 128 mm	80 mm	6 mm	180 mm	53 mm	0862 005 102	10
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	70 mm	4 mm	70 mm	40 mm	0862 005 105	25
36 x 36 mm, 41 x 22 mm, 41 x 41 mm, 41 x 44 mm	80 mm	6 mm	95 mm	53.5 mm	0862 005 106	20
41 x 62 mm	80 mm	6 mm	110 mm	55 mm	0862 005 107	20



VARIFIX® angle connector, 90°

With 8 slotted holes

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Suitable for mounting rail	41 x 62 mm, 41 x 44 mm, 41 x 41 mm, 41 x 22 mm
Length (L)	117 mm
Thickness (t)	6 mm
Limb length (L _s)	47 mm
Elongated hole length (LL)	40 mm
Elongated hole width (LB)	15 mm
Hole distance (LA)	62.5 mm
Weight	0.78 kg
Surface	Zinc plated
Material	Steel

Art. no. 0862 005 317

P. Qty.: 5



VARIFIX® angle connector, 90° with 8 slotted holes

For attaching C-assembly rails in conjunction with Pow-erknopf

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Suitable for mounting rail	41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm, 41 x 128 mm, 41 x 86 mm
Length (L)	117 mm
Thickness (t)	6 mm
Limb length (L _s)	47 mm
Elongated hole length (LL)	36 mm
Elongated hole width (LB)	20 mm
Hole distance (LA)	62.5 mm
Weight	662 g
Surface	Zinc plated
Material	Steel

Art. no. 0862 004 051

P. Qty.: 5



VARIFIX® angle connector, 90° with 4 slotted holes - C2C

**For attaching C-assembly rails in conjunction with Pow-
erknopf**

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Suitable for mounting rail	41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm, 41 x 128 mm, 41 x 86 mm
Length (L)	55 mm
Thickness (t)	6 mm
Limb length (L _s)	47 mm
Elongated hole length (LL)	36 mm
Elongated hole width (LB)	20 mm
Weight	325 g
Surface	Zinc plated
Material	Steel

Art. no. 0862 004 050

P. Qty.: 5



VARIFIX® rail connector, pre-mounted

Secure plug-in assembly

- Reduces working time
- No individual parts



Material	Steel
Surface	Zinc plated

Suitable for mounting rail	Length (L ₁)	Width (B ₁)	Width 2 (B ₂)	Thickness (t ₁)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	156 mm	25 mm	22 mm	5 mm	0862 006 001	10
36 x 36 mm	180 mm	35 mm	30 mm	6 mm	0862 006 002	10
41 x 22 mm, 41 x 41 mm, 41 x 44 mm	200 mm	40 mm	33.5 mm	6 mm	0862 006 003	10

Continuation **VARIFIX® rail connector, pre-mounted**



VARIFIX® flat connector, straight

With 3 round holes

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of application for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Length (L ₁)	130 mm
Hole distance (LA ₁)	44 mm
Material	Steel
Surface	Zinc plated

Suitable for mounting rail	Diameter of hole (RL)	Thickness (t)	Width (B)	Product weight (per item)	Art. no.	P. Qty.
36 x 36 mm	11 mm	4 mm	35 mm	130 g	0862 006 052	10
41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm, 41 x 82 mm, 41 x 124 mm, 41 x 128 mm, 41 x 86 mm	13 mm	6 mm	40 mm	217 g	0862 006 053	10



VARIFIX® flat connector, straight

With 4 round holes

Length (L ₁)	174 mm
Hole distance (LA ₁)	44 mm
Material	Steel
Surface	Zinc plated



Suitable for mounting rail	Diameter of hole (RL)	Thickness (t)	Width (B)	Product weight (per item)	Art. no.	P. Qty.
36 x 36 mm	11 mm	4 mm	35 mm	161.5 g	0862 006 062	10
41 x 124 mm, 41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	13 mm	6 mm	40 mm	310 g	0862 006 063	10



VARIFIX® clamping flange

For fastening in steel supports without drilling or welding

Suitable for mounting rail	41 x 22 mm, 41 x 41 mm
Length (L)	105 mm
Width (B)	58 mm
Material thickness (t)	4 mm
Permissible vertical load	2100 N
Surface	Sendzimir galvanized
Material	Aluzinc structural steel, 1.0242
Product weight (per item)	598 g



Art. no. 0862 006 206

P. Qty.: 10



Double bracket - C2C

Elongated hole length (LL)	24 mm
Elongated hole width (LB)	9 mm
Thread type x nominal diameter (G)	M8
Width	15 mm
Thickness (t)	5 mm
Suitable for screw thread	M8
Surface	Zinc plated
Material	Steel



Hole distance (LA)	Weight	Min. breaking force	Art. no.	P. Qty.
65 mm	39 g	1400 N	0862 120 3	50
85 mm	51 g	1200 N	0862 120 4	50
105 mm	64 g	800 N	0862 120 5	50



VARIFIX® base plate

**Ideal for support in the domestic engineering sector
for various assemblies**

- Four-point welding with metric thread, inert gas welding for imperial version
- Centred tensile load based on the base plate; please consider dowel attachment separately.



Surface	Zinc plated
Material	Steel

Connection thread (G)	Length (L)	Width (B)	Thickness (t)	Elongated hole length (LL)	Art. no.	P. Qty.
M8	80 mm	30 mm	3 mm	18 mm	0862 400 100	25
M10	80 mm	30 mm	3 mm	18 mm	0862 400 101	25
M12	80 mm	30 mm	3 mm	18 mm	0862 400 102	25
M10	120 mm	40 mm	4 mm	18 mm	0862 400 105	25
M12	120 mm	40 mm	4 mm	18 mm	0862 400 106	25
M16	120 mm	40 mm	4 mm	18 mm	0862 400 107	25
IT Rp 1/2 inch	120 mm	40 mm	4 mm	18 mm	0862 400 111	10
IT Rp 3/4 inch	120 mm	40 mm	4 mm	18 mm	0862 400 112	10
1/2 inch	150 mm	80 mm	6 mm	25 mm	0862 400 115	1
3/4 inch	150 mm	80 mm	6 mm	25 mm	0862 400 116	1
1 inch	150 mm	80 mm	6 mm	25 mm	0862 400 117	1



VARIFIX® base plate

Four-point welding for metric thread

Surface	Plain
Material	Stainless steel A4



Connection thread (G)	Length (L)	Width (B)	Thickness (t)	Elongated hole length (LL)	Art. no.	P. Qty.
M8	80 mm	30 mm	3 mm	18 mm	0865 400 100	10
M10	80 mm	30 mm	3 mm	18 mm	0865 400 101	10
M12	80 mm	30 mm	3 mm	18 mm	0865 400 102	10
M10	120 mm	40 mm	4 mm	18 mm	0865 400 106	10
M12	120 mm	40 mm	4 mm	18 mm	0865 400 107	10
M16	120 mm	40 mm	4 mm	19 mm	0865 400 108	10





VARIFIX® hammer head fastener Standardfix

Preassembled with nut and washer, galvanised

Threaded bolt strength class 4.6

Surface	Zinc plated
Material	Steel
Thread type	Metric thread

Suitable for mounting rail	Nominal diameter (G)	Length (hammer head and stud bolt) (L _G)	Washer diameter (d ₂)	Length (L)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	8 mm	25 mm	25 mm	22 mm	0862 100 001	100
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	8 mm	30 mm	25 mm	22 mm	0862 100 002	100
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	8 mm	40 mm	25 mm	22 mm	0862 100 003	100
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	8 mm	50 mm	25 mm	22 mm	0862 100 004	100
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	8 mm	60 mm	25 mm	22 mm	0862 100 005	100

Continuation **VARIFIX® hammer head fastener Standardfix**

Suitable for mounting rail	Nominal diameter (G)	Length (hammer head and stud bolt) (L _G)	Washer diameter (d ₂)	Length (L)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	8 mm	80 mm	25 mm	22 mm	0862 100 006	100
36 x 36 mm	8 mm	30 mm	30 mm	30 mm	0862 100 010	100
36 x 36 mm	8 mm	40 mm	30 mm	30 mm	0862 100 011	100
36 x 36 mm	8 mm	60 mm	30 mm	30 mm	0862 100 012	100
36 x 36 mm	8 mm	80 mm	30 mm	30 mm	0862 100 013	100
36 x 36 mm	10 mm	40 mm	30 mm	30 mm	0862 100 020	100
36 x 36 mm	10 mm	60 mm	30 mm	30 mm	0862 100 021	100
36 x 36 mm	10 mm	80 mm	30 mm	30 mm	0862 100 022	100
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	8 mm	40 mm	40 mm	35 mm	0862 100 030	100
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	8 mm	60 mm	40 mm	35 mm	0862 100 031	50
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 86 mm, 41 x 128 mm	8 mm	80 mm	40 mm	35 mm	0862 100 032	50
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	8 mm	100 mm	40 mm	35 mm	0862 100 033	50
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 86 mm, 41 x 128 mm	10 mm	40 mm	40 mm	35 mm	0862 100 040	100
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	10 mm	60 mm	40 mm	35 mm	0862 100 041	50
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	10 mm	80 mm	40 mm	35 mm	0862 100 042	50

Suitable for mounting rail	Nominal diameter (G)	Length (hammer head and stud bolt) (L _G)	Washer diameter (d ₂)	Length (L)	Art. no.	P. Qty.
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	10 mm	100 mm	40 mm	35 mm	0862 100 043	50
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	12 mm	30 mm	40 mm	35 mm	0862 100 050	25
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	12 mm	40 mm	40 mm	35 mm	0862 100 051	25
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	12 mm	60 mm	40 mm	35 mm	0862 100 052	25
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	12 mm	80 mm	40 mm	35 mm	0862 100 053	25

VARIFIX® hammer head fastener Standardfix

Preassembled with nut and washer, A4 stainless steel

Surface	Plain
Material	Stainless steel A4
Thread type	Metric thread



Suitable for mounting rail	Nominal diameter (G)	Length (hammer head and stud bolt) (L _G)	Washer diameter (d ₂)	Length (L)	Art. no.	P. Qty.
26 x 18 mm, 28 x 28 mm	8 mm	25 mm	25 mm	22 mm	0865 100 001	50
26 x 18 mm, 28 x 28 mm	8 mm	30 mm	25 mm	22 mm	0865 100 002	50
26 x 18 mm, 28 x 28 mm	8 mm	40 mm	25 mm	22 mm	0865 100 003	50

Continuation **VARIFIX® hammer head fastener Standardfix**

Suitable for mounting rail	Nominal diameter (G)	Length (hammer head and stud bolt) (L _G)	Washer diameter (d ₂)	Length (L)	Art. no.	P. Qty.
26 x 18 mm, 28 x 28 mm	8 mm	50 mm	25 mm	22 mm	0865 100 004	50
36 x 36 mm	8 mm	30 mm	30 mm	30 mm	0865 100 010	50
36 x 36 mm	8 mm	40 mm	30 mm	30 mm	0865 100 011	50
36 x 36 mm	10 mm	40 mm	30 mm	30 mm	0865 100 020	50
36 x 36 mm	10 mm	60 mm	30 mm	30 mm	0865 100 021	50
41 x 41 mm, 41 x 62 mm	8 mm	40 mm	40 mm	35 mm	0865 100 030	25
41 x 41 mm, 41 x 62 mm	8 mm	60 mm	40 mm	35 mm	0865 100 031	25
41 x 41 mm, 41 x 62 mm	10 mm	40 mm	40 mm	35 mm	0865 100 040	50
41 x 41 mm, 41 x 62 mm	10 mm	60 mm	40 mm	35 mm	0865 100 041	50
41 x 41 mm, 41 x 62 mm	12 mm	30 mm	40 mm	35 mm	0865 100 050	25
41 x 41 mm, 41 x 62 mm	12 mm	40 mm	40 mm	35 mm	0865 100 051	25



Pipe fastening eyes

For secondary attachments only

Material	Die-cast zinc
Length (L)	37 mm
Width (B)	22.5 mm
Diameter of hole (RL)	12 mm



Connection thread (G)	Art. no.	P. Qty.
M6	0862 116 37	100
M8	0862 118 37	100
M10	0862 111 037	100



Reducing nipple

Connecting piece between mounting parts of different thread diameter

Surface	Zinc plated
Material	Steel
Min. strength range	400 N/mm ²



Length (L)	Connection thread (IG)	Outlet thread (AG)	Male thread length (L _G)	Width across flats (SW)	Art. no.	P. Qty.
20 mm	IT M6	ET M8	8 mm	13 mm	0862 091 000	50
19 mm	IT M8	ET M6	7 mm	13 mm	0862 091 020	100
21 mm	IT M8	ET M10	8 mm	13 mm	0862 091 022	100
23 mm	IT M8	ET M12	10 mm	13 mm	0862 091 023	50
23 mm	IT M10	ET M8	8 mm	13 mm	0862 091 041	100
23 mm	IT M10	ET M12	10 mm	13 mm	0862 091 043	50
32 mm	IT M10	ET M16	14 mm	19 mm	0862 091 045	50
23 mm	IT M12	ET M8	8 mm	17 mm	0862 091 061	50
25 mm	IT M12	ET M10	10 mm	17 mm	0862 091 062	100
32 mm	IT M12	ET M16	14 mm	19 mm	0862 091 065	20
32 mm	IT M16	ET M10	10 mm	24 mm	0862 091 102	20
32 mm	IT M16	ET M12	10 mm	24 mm	0862 091 103	20



VARIFIX® combination sliding nut

Fits all rails of type 26 and 28

Suitable for mounting rail	26 x 18 mm, 26 x 26 mm, 28 x 28 mm
Width (B)	22.5 mm
Length (L)	23 mm
Thickness (t)	5 mm
Surface	Zinc plated
Material	Steel

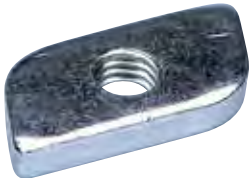


Thread type x nominal diameter (G)	Product weight (per item)	Art. no.	P. Qty.
M8	17.6 g	0862 064 098	100
M10	17 g	0862 064 099	50



VARIFIX® sliding nut

Surface	Zinc plated
Material	Steel



Continuation **VARIFIX® sliding nut**

Suitable for mounting rail	Width (B)	Length (L)	Thread type x nominal diameter (G)	Thickness (t)	Art. no.	P. Qty.
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	13 mm	22 mm	M6	4 mm	0862 062 46	100
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	13 mm	22 mm	M8	4 mm	0862 062 48	100
26 x 18 mm, 26 x 26 mm, 28 x 28 mm	13 mm	22 mm	M10	4 mm	0862 062 410	100
36 x 36 mm	18 mm	30 mm	M6	4 mm	0862 063 36	100
36 x 36 mm	18 mm	30 mm	M8	6 mm	0862 063 38	100
36 x 36 mm	18 mm	30 mm	M10	6 mm	0862 063 310	100
36 x 36 mm	18 mm	30 mm	M12	6 mm	0862 063 312	100



VARIFIX® combination sliding nut

Fits all rails of type 36 and 41

Suitable for mounting rail	41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm, 36 x 36 mm, 41 x 128 mm, 41 x 86 mm
Width (B)	29 mm
Length (L)	33 mm
Thickness (t)	6 mm
Surface	Zinc plated
Material	Steel



Thread type x nominal diameter (G)	Product weight (per item)	Art. no.	P. Qty.
M8	41.535 g	0862 064 100	100
M10	39.435 g	0862 064 101	100
M12	37.94 g	0862 064 102	100
M16	34.735 g	0862 064 103	100

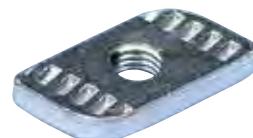


VARIFIX® sliding nut

Also suitable for mounting rails with toothing

Type of fastening

- Slip-resistant or shear/projecting joint connection with hexagon screw, threaded piece or rod (4.6), washer and nut
- Form-fitting, slip-resistant or shear/projecting joint connection



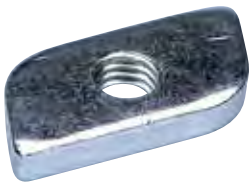
Width (B)	20 mm
Length (L)	35 mm
Thickness (t)	6 mm
Surface	Zinc plated
Material	Steel

Suitable for mounting rail	Thread type x nominal diameter (G)	Product weight (per item)	Art. no.	P. Qty.
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	M8	28.44 g	0862 064 008	100
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 86 mm, 41 x 128 mm	M10	26.75 g	0862 064 010	100
41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	M12	27 g	0862 064 012	100



VARIFIX® sliding nut

Surface	Plain
Material	Stainless steel A4



Suitable for mounting rail	Width (B)	Length (L)	Thread type x nominal diameter (G)	Thickness (t)	Art. no.	P. Qty.
26 x 18 mm, 28 x 28 mm	13 mm	22 mm	M6	4 mm	0865 062 46	50
26 x 18 mm, 28 x 28 mm	13 mm	22 mm	M8	4 mm	0865 062 48	50
26 x 18 mm, 28 x 28 mm	13 mm	22 mm	M10	4 mm	0865 062 410	50
36 x 36 mm	18 mm	30 mm	M8	6 mm	0865 063 38	50
36 x 36 mm	18 mm	30 mm	M10	6 mm	0865 063 310	50
36 x 36 mm	18 mm	30 mm	M12	6 mm	0865 063 312	50
41 x 41 mm, 41 x 62 mm	20 mm	35 mm	M8	6 mm	0865 064 008	50
41 x 41 mm, 41 x 62 mm	20 mm	35 mm	M10	6 mm	0865 064 010	50
41 x 41 mm, 41 x 62 mm	20 mm	35 mm	M12	6 mm	0865 064 012	50



VARIFIX® combination sliding nut 36/41

Fits all rails of type 36 and 41, sizes M8–M16

Stainless steel A4



Suitable for mounting rail	36 x 36 mm, 41 x 41 mm, 41 x 62 mm
Width (B)	29 mm
Length (L)	33 mm
Thickness (t)	6 mm
Surface	Plain
Material	Stainless steel A4

Thread type x nominal diameter (G)	Product weight (per item)	Art. no.	P. Qty.
M8	47 g	0865 064 100	25
M10	38.98 g	0865 064 101	25
M12	41 g	0865 064 102	25
M16	37 g	0865 064 103	25



VARIFIX® combination sliding nut

Fits all rails of type 36 and 41



Width (B)	29 mm
Length (L)	33 mm
Thickness (t)	6 mm
Surface	Hot dip galvanized
Material	Steel

Suitable for mounting rail	Thread type x nominal diameter (G)	Product weight (per item)	Art. no.	P. Qty.
36 x 36 mm, 41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm	M8	34 g	0862 900 506	1
36 x 36 mm, 41 x 124 mm, 41 x 41 mm, 41 x 22 mm, 41 x 44 mm, 41 x 82 mm, 41 x 62 mm	M10	31.23 g	0862 900 382	1
36 x 36 mm, 41 x 124 mm, 41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm, 41 x 82 mm	M12	41.5 g	0862 900 383	1
36 x 36 mm, 41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm	M16	64 g	0862 900 412	1



VARIFIX® quick fastener Systemfix 41

For assembly connection of all Varifix® mounting rails in the 41 range. The Systemfix 41 is available in M6 (not pre-installed), M8, M10 and M12 sizes.

- Immediately fixed with a 1/4 rotation
- Friction-locked connection with the rail
- One-handed assembly possible

Length (L)	38 mm
Width (B)	38 mm
Material thickness (t ₁)	3 mm
Suitable for mounting rail	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm
Min./max. temperature resistance	-40 to 90 °C
Material	Steel
Surface	Zinc plated
Material of the connecting component	POM - Polyoxymethylene

Thickness (t ₂)	Thread type x nominal diameter (G)	Weight	Art. no.	P. Qty.
6 mm	M6	53 g	0862 104 000	25
6 mm	M8	55 g	0862 104 001	25
8 mm	M10	61 g	0862 104 002	25
9 mm	M12	64 g	0862 104 003	25

VARIFIX® quick fastener Systemfix

For assembly connection of all VARIFIX® 26/18; 26/26; 28/28 and 36/36 mounting rails

Immediately fixed with a 1/4 rotation
Friction-locked connection with the rail

Precise fit in the mounting rail - alignment in the rail possible

One-handed assembly possible

Easier assembly, particularly when working on ladders

For all Systemfix models

Optimal suspension possible with threaded rods for long lengths



Width (B)	30 mm
Material thickness (t ₁)	2.5 mm
Thickness (t ₂)	5 mm
Min./max. temperature resistance	-40 to 90 °C
Material	Steel
Surface	Zinc plated
Material of the connecting component	POM - Polyoxymethylene

Length (L)	Thread type x nominal diameter (G)	Suitable for mounting rail	Weight	Art. no.	P. Qty.
27 mm	M6	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	24 g	0862 102 100	100
27 mm	M8	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	25 g	0862 102 101	100
27 mm	M10	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	24 g	0862 102 102	100
34 mm	M6	36 x 36 mm	32 g	0862 102 130	50
34 mm	M8	36 x 36 mm	35 g	0862 102 131	50
34 mm	M10	36 x 36 mm	33 g	0862 102 132	50



VARIFIX® quick fastener Systemfix 41

With threaded rod

Immediately fixed with a 1/4 rotation
Friction-locked connection with the rail

Precise fit in the mounting rail – alignment in the rail possible

One-handed assembly possible

Easier assembly, particularly when working on ladders

Optimal suspension possible with threaded rods for long lengths

For all Systemfix 41 models



Length (L)	40 mm
Width (B)	38 mm
Material thickness (t ₁)	3 mm

Min./max. temperature resistance	-40 to 90 °C
Material	Steel
Surface	Zinc plated
Material of the connecting component	POM - Polyoxymethylene

Thread length (L _G)	Thickness (t ₂)	Thread type x nominal diameter (G)	Suitable for mounting rail	Weight	Art. no.	P. Qty.
40 mm	6 mm	M8	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	79 g	0862 104 110	25
60 mm	6 mm	M8	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	85 g	0862 104 111	25
80 mm	6 mm	M8	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	92 g	0862 104 112	20
100 mm	6 mm	M8	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	97 g	0862 104 113	20
40 mm	8 mm	M10	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	101 g	0862 104 120	25
60 mm	8 mm	M10	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	111 g	0862 104 121	25
80 mm	8 mm	M10	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	121 g	0862 104 122	20
100 mm	8 mm	M10	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	132 g	0862 104 123	20

Continuation **VARIFIX® quick fastener Systemfix 41**

Thread length (L ₆)	Thickness (t ₂)	Thread type x nominal diameter (G)	Suitable for mounting rail	Weight	Art. no.	P. Qty.
40 mm	8 mm	M12	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm	119 g	0862 104 130	25
60 mm	8 mm	M12	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 86 mm, 41 x 128 mm	134 g	0862 104 131	25
80 mm	8 mm	M12	41 x 22 mm, 41 x 41 mm, 41 x 62 mm, 41 x 124 mm, 41 x 44 mm, 41 x 82 mm, 41 x 86 mm, 41 x 128 mm	147 g	0862 104 132	20
100 mm	8 mm	M12	41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm, 41 x 128 mm, 41 x 86 mm	163 g	0862 104 133	20



VARIFIX® quick fastener Systemfix

With threaded rod

Immediately fixed with a 1/4 rotation

Friction-locked connection with the rail

Precise fit in the mounting rail – alignment in the rail possible

One-handed assembly possible

Easier assembly, particularly when working on ladders

Optimal suspension possible with threaded rods for long lengths

For all Systemfix models



Width (B)	30 mm
Material thickness (t ₁)	2.5 mm
Thickness (t ₂)	5 mm
Min./max. temperature resistance	-40 to 90 °C
Material	Steel
Surface	Zinc plated
Material of the connecting component	POM - Polyoxymethylene

Length (L)	Thread length (L _e)	Thread type x nominal diameter (G)	Suitable for mounting rail	Weight	Art. no.	P. Qty.
27 mm	30 mm	M8	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	42 g	0862 102 110	50
27 mm	40 mm	M8	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	45 g	0862 102 111	50
27 mm	60 mm	M8	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	51 g	0862 102 112	50
27 mm	80 mm	M8	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	57 g	0862 102 113	50
27 mm	100 mm	M8	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	63 g	0862 102 114	40
27 mm	120 mm	M8	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	67 g	0862 102 115	30
27 mm	40 mm	M10	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	57 g	0862 102 120	50
27 mm	60 mm	M10	26 x 18 mm, 26 x 26 mm, 28 x 28 mm	67 g	0862 102 121	50
34 mm	30 mm	M8	36 x 36 mm	51 g	0862 102 140	50
34 mm	40 mm	M8	36 x 36 mm	54 g	0862 102 141	50
34 mm	60 mm	M8	36 x 36 mm	61 g	0862 102 142	40
34 mm	80 mm	M8	36 x 36 mm	66 g	0862 102 143	30
34 mm	100 mm	M8	36 x 36 mm	72 g	0862 102 144	25
34 mm	120 mm	M8	36 x 36 mm	77 g	0862 102 145	20
34 mm	40 mm	M10	36 x 36 mm	66 g	0862 102 150	50
34 mm	60 mm	M10	36 x 36 mm	76 g	0862 102 151	40
34 mm	80 mm	M10	36 x 36 mm	87 g	0862 102 152	30
34 mm	100 mm	M10	36 x 36 mm	96 g	0862 102 153	25



VARIFIX® wing nut, profile 41

For assembly connection of all VARIFIX® C-assembly rails in the 40 and 41 ranges.

- Quick assembly in contrast to sliding nut/combination sliding nut
- The Varifix wing nut does not need to be held in place



Width (B)	36 mm
Suitable for mounting rail	41 x 124 mm, 41 x 22 mm, 41 x 41 mm, 41 x 44 mm, 41 x 62 mm, 41 x 82 mm, 41 x 128 mm, 41 x 86 mm
Material	Steel
Surface	Zinc plated
Material of the connecting component	PP - Polypropylene

Continuation **VARIFIX®** wing nut, profile 41

Thickness (t ₂)	Thread type x nominal diameter (G)	Weight	Art. no.	P. Qty.
6 mm	M8	26 g	0862 104 010	50
8 mm	M10	33 g	0862 104 011	50
9 mm	M12	35 g	0862 104 012	50



Stud screw

A2 stainless steel

Material	Stainless steel A2
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Thread type x nominal diameter x length (d)	Width across flats (SW)	Thread length (thread for woodwork)	Thread length (metric thread)	Art. no.	P. Qty.
M6 x 50 mm		25 mm	20 mm	0865 540 650	100
M6 x 60 mm		25 mm	20 mm	0865 540 660	100
M6 x 80 mm		30 mm	30 mm	0865 540 680	100
M6 x 100 mm		30 mm	30 mm	0865 540 610	100
M6 x 120 mm		30 mm	30 mm	0865 540 612	100
M8 x 50 mm	6 mm	30 mm	15 mm	0865 540 850	100
M8 x 60 mm	6 mm	30 mm	20 mm	0865 540 860	100
M8 x 80 mm	6 mm	40 mm	30 mm	0865 540 880	100
M8 x 100 mm	6 mm	40 mm	40 mm	0865 540 810	100
M8 x 120 mm	6 mm	50 mm	50 mm	0865 540 812	100
M8 x 140 mm	6 mm	50 mm	50 mm	0865 540 814	50
M8 x 160 mm	6 mm	50 mm	50 mm	0865 540 816	50
M8 x 180 mm	6 mm	50 mm	50 mm	0865 540 818	50
M8 x 200 mm	6 mm	50 mm	50 mm	0865 540 820	50
M10 x 80 mm				0865 541 080	50
M10 x 100 mm	8 mm	60 mm	30 mm	0865 541 010	50
M10 x 120 mm	8 mm	60 mm	50 mm	0865 541 012	50
M10 x 140 mm	8 mm	60 mm	50 mm	0865 541 014	50
M10 x 160 mm	8 mm	60 mm	50 mm	0865 541 016	50
M10 x 180 mm	8 mm	60 mm	50 mm	0865 541 018	50
M10 x 200 mm	8 mm	60 mm	50 mm	0865 541 020	50

Screwing tool for stud screws

No screwing in or additional adjustment of screw-in parts into nut required

- The three threaded rollers automatically grip positively into thread when screwing in. When unscrewing, the threaded rollers open automatically and release the thread
- Can be used with 1/2" square drive for a ratchet screwdriver or with an adapter for an electric screwdriver



Length	38 mm
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Suitable for screw	Diameter (Ø)	Art. no.	P. Qty.
M6	25 mm	0715 137 06	1/10
M8	25 mm	0715 137 08	1/10
M10	30 mm	0715 137 10	1/10
M12	30 mm	0715 137 12	1/10

Universal cube

For attaching pipes when installing ceilings and riser pipes

Length (L)	30 mm
Width (B)	17 mm
Material	Steel
Surface	Zinc plated



Height (H)	Connection thread (G ₁)	Outlet thread (G ₂)	Product weight (per item)	Art. no.	P. Qty.
19 mm	M8	M8	58.4 g	0543 98	10
20 mm	M10	M10	45.82 g	0543 910	10



Rubber/metal buffer Type A

To prevent transmission of vibrations (e.g. machine vibrations to anchoring)

Elasticated support

Made of natural rubber, especially suited for supporting light and medium-weight systems without extensive dynamic loading



Min./max. temperature resistance	-40 to 80 °C
Type	A
Surface	Zinc plated
Shore A hardness	55
Material	Rubber

Thread type x nominal diameter (G)	Thread length (L _G)	Height (H)	Outer diameter (ØD)	Product weight (per item)	Art. no.	P. Qty.
M6	16 mm	20 mm	20 mm	18.25 g	0862 800 001	4
M8	23 mm	20 mm	30 mm	52 g	0862 800 002	4
M8	23 mm	30 mm	40 mm	95.5 g	0862 800 003	4
M10	28 mm	30 mm	50 mm	150.25 g	0862 800 004	4



Rubber/metal buffer Type B

To prevent transmission of vibrations (e.g. machine vibrations to anchoring)

Elasticated support

Made of natural rubber, especially suited for supporting light and medium-weight systems without extensive dynamic loading



Min./max. temperature resistance	-40 to 80 °C
Type	B
Surface	Zinc plated
Shore A hardness	55
Material	Rubber

Thread type x nominal diameter (G)	Thread length (L _G)	Height (H)	Outer diameter (ØD)	Depth (T)	Art. no.	P. Qty.
M6	16 mm	20 mm	20 mm	6 mm	0862 800 010	4
M8	23 mm	20 mm	30 mm	8 mm	0862 800 011	4
M8	23 mm	30 mm	40 mm	8 mm	0862 800 012	4
M10	28 mm	30 mm	50 mm	10 mm	0862 800 013	4



Rubber/metal buffer Type C

To prevent transmission of vibrations (e.g. machine vibrations to anchoring)

Elasticated support

Made of natural rubber, especially suited for supporting light and medium-weight systems without extensive dynamic loading



Min./max. temperature resistance	-40 to 80 °C
Type	C
Surface	Zinc plated
Shore A hardness	55
Material	Rubber

Thread type x nominal diameter (G)	Height (H)	Outer diameter (ØD)	Depth (T)	Product weight (per item)	Art. no.	P. Qty.
M6	20 mm	20 mm	6 mm	18.1 g	0862 800 020	4
M8	20 mm	30 mm	8 mm	37 g	0862 800 021	4
M8	30 mm	40 mm	8 mm	78.5 g	0862 800 022	4
M10	30 mm	50 mm	10 mm	125 g	0862 800 023	4



Rubber/metal buffer Type D

To prevent transmission of vibrations (e.g. machine vibrations to anchoring)

Elasticated support

Made of natural rubber, especially suited for supporting light and medium-weight systems without extensive dynamic loading



Min./max. temperature resistance	-40 to 80 °C
Type	D
Surface	Zinc plated
Shore A hardness	55
Material	Rubber

Thread type x nominal diameter (G)	Thread length (L _G)	Height (H)	Outer diameter (ØD)	Product weight (per item)	Art. no.	P. Qty.
M6	16 mm	20 mm	20 mm	13 g	0862 800 030	4
M8	23 mm	20 mm	30 mm	34.55 g	0862 800 031	4
M8	23 mm	30 mm	40 mm	66.55 g	0862 800 032	4
M10	28 mm	30 mm	50 mm	107.875 g	0862 800 033	4



Spacer pipe

Complies with DIN ISO 228

Length (L)	2 m
Surface	Zinc plated
Material	Steel



Thread diameter (G)	Product weight (per item)	Art. no.	P. Qty.
1/2 in	1800 g	0862 900 435	1
3/4 in	2880 g	0862 900 436	1
1 in	3600 g	0862 900 437	1

VARIFIX® quick fastener Power button 41 - C2C

Can be used on all 41-range profiles. All constructions possible using relevant accessory range

- Fast, time-saving installation through 90° rotation
- Form-fit, positive-locking connection between mounting rails and accessories
- Can be mounted by one person as there is no need to hold it in place
- Cradle to Cradle®-certified



Length (L)	34.5 mm
Height (H)	40 mm

Continuation **VARIFIX® quick fastener Power button 41 - C2C**

Thickness (t ₁)	4 mm
Material thickness (t ₂)	7 mm
Width 1 (B ₁)	18 mm
Width 2 (B ₂)	25 mm
Width across flats	17 mm
Suitable for mounting rail	41 x 82 mm, 41 x 44 mm, 41 x 124 mm, 41 x 62 mm, 41 x 41 mm, 41 x 22 mm, 41 x 128 mm, 41 x 86 mm
Weight	90 g
Surface	Zinc plated
Tightening torque	40 Nm
Permissible tensile force when pulled straight	5000 N
Permissible transverse tensile force	3000 N
Thread type x nominal diameter	M10

Art. no. 0862 104 050

P. Qty.: 20



Fixed-point attachment TIPP®

With galvanised pipe clamps and spacer pipe. For creating simple fixed point attachments up to DN 150 in HVAC systems.

Structure-borne noise dampening according to DIN 4109 via EPDM rubber strip

Quick and simple fitting on Varifix brackets and C-assembly rails

Laterally placed attachment holes



Width (B)	100 mm
Length 2 (L ₂)	60 mm
Elongated hole width (LB)	11 mm
Elongated hole length (LL)	11 mm
Hole distance (LA)	78 mm
Permissible horizontal load (F _x)	4 kN
Permissible vertical load (F _y)	4 kN
Permissible load	4 kN
Surface	Zinc plated

Diameter (ØD)	Diameter tubular stiffener (ØD _H)	Tube axis dimension (RA)	Bottom of pipe (RS)	Length (L ₁)	Art. no.	P. Qty.
21.3 mm	26.9 mm	116 mm	105 mm	143 mm	0543 400 021	1
26.9 mm	26.9 mm	119 mm	105 mm	143 mm	0543 400 026	1
33.7 mm	26.9 mm	122 mm	105 mm	143 mm	0543 400 033	1
42.4 mm	26.9 mm	126 mm	105 mm	143 mm	0543 400 042	1

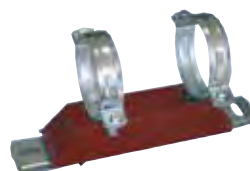
Diameter (ØD)	Diameter tubular stiffener (ØD _H)	Tube axis dimension (RA)	Bottom of pipe (RS)	Length (L ₁)	Art. no.	P. Qty.
48.3 mm	26.9 mm	128 mm	105 mm	143 mm	0543 400 048	1
54 mm	26.9 mm	137 mm	105 mm	143 mm	0543 400 054	1
57 mm	26.9 mm	139 mm	105 mm	143 mm	0543 400 057	1
60.3 mm	33.7 mm	140 mm	110 mm	148 mm	0543 400 060	1
64 mm	33.7 mm	142 mm	110 mm	148 mm	0543 400 064	1
70 mm	33.7 mm	145 mm	110 mm	148 mm	0543 400 070	1
76.1 mm	33.7 mm	148 mm	110 mm	148 mm	0543 400 076	1
88.9 mm	33.7 mm	155 mm	110 mm	148 mm	0543 400 088	1
101.6 mm	33.7 mm	161 mm	110 mm	148 mm	0543 400 101	1
108 mm	33.7 mm	164 mm	110 mm	148 mm	0543 400 108	1
114.3 mm	33.7 mm	167 mm	110 mm	148 mm	0543 400 114	1
133 mm	33.7 mm	177 mm	110 mm	148 mm	0543 400 133	1
139.7 mm	33.7 mm	180 mm	110 mm	148 mm	0543 400 139	1
159 mm	33.7 mm	190 mm	110 mm	148 mm	0543 400 159	1
168.3 mm	33.7 mm	194 mm	110 mm	148 mm	0543 400 168	1



Fixed-point attachment TIPP® with plastic panelling

Noise dampening and easy fixed-point attachment up to DN 150.

- Structure-borne noise dampening according to DIN 4109 via EPDM rubber strip
- Double steel mounting plate with welded fastening pins
- Rubber-cushioned



Metal-band width (B _M)	30 mm
Metal belt thickness (t _M)	3 mm
Surface	Zinc plated

Min./max. grip range (ØD)	Tube axis dimension (RA)	Bottom of pipe (RS)	Length (L ₁)	Width (B)	Art. no.	P. Qty.
15-19 mm	93 mm	78 mm	290 mm	43 mm	0862 900 042	1
19-23 mm	95 mm	78 mm	290 mm	43 mm	0862 900 043	1
25-30 mm	98 mm	77 mm	290 mm	43 mm	0862 900 044	1
30-35 mm	109 mm	87 mm	290 mm	43 mm	0862 900 045	1
40-45 mm	114 mm	88 mm	290 mm	43 mm	0862 900 046	1
47-52 mm	118 mm	89 mm	290 mm	43 mm	0862 900 047	1
57-63 mm	123 mm	86 mm	290 mm	43 mm	0862 900 048	1
72-78 mm	147 mm	102 mm	375 mm	60 mm	0862 900 049	1
79-85 mm	152 mm	105 mm	375 mm	60 mm	0862 900 050	1
86-92 mm	155 mm	104 mm	375 mm	60 mm	0862 900 051	1
108-116 mm	164 mm	102 mm	375 mm	60 mm	0862 900 052	1
132-140 mm	178 mm	104 mm	375 mm	60 mm	0862 900 053	1
159-169 mm	194 mm	104 mm	375 mm	60 mm	0862 900 054	1

TIPP® fixed point bracket

Two-piece clamp with large load-bearing capacity

Larger material cross-section

Improved locking with larger tube diameter tolerances

Thanks to two screw-in nuts on each side



Metal-band width (B _M)	50 mm
Surface	Zinc plated

Diameter (ØD)	Connection thread (G)	Thread length (L _G)	Metal belt thickness (t _M)	Permissible load	Art. no.	P. Qty.
21 mm	1/2 inch	15 mm	4 mm	5.6 kN	0862 900 467	1
27 mm	1/2 inch	15 mm	4 mm	5.6 kN	0862 900 468	1
34 mm	1/2 inch	15 mm	4 mm	5.6 kN	0862 900 469	1
38 mm	1/2 inch	15 mm	4 mm	5.6 kN	0862 900 470	1
42 mm	3/4 inch	17 mm	4 mm	5.6 kN	0862 900 471	1
44 mm	3/4 inch	17 mm	4 mm	5.6 kN	0862 900 472	1
48 mm	3/4 inch	17 mm	4 mm	5.6 kN	0862 900 473	1
57 mm	3/4 inch	17 mm	5 mm	10 kN	0862 900 474	1
60 mm	3/4 inch	17 mm	5 mm	10 kN	0862 900 475	1
63 mm	3/4 inch	17 mm	5 mm	10 kN	0862 900 476	1
70 mm	3/4 inch	17 mm	5 mm	10 kN	0862 900 477	1
76 mm	1 inch	20 mm	5 mm	10 kN	0862 900 478	1
89 mm	1 inch	20 mm	5 mm	10 kN	0862 900 479	1
108 mm	1 inch	20 mm	5 mm	10 kN	0862 900 480	1
114 mm	1 inch	20 mm	5 mm	10 kN	0862 900 481	1
133 mm	1 inch	20 mm	5 mm	10 kN	0862 900 482	1
140 mm	1 inch	20 mm	5 mm	10 kN	0862 900 483	1
159 mm	1 inch	20 mm	5 mm	10 kN	0862 900 484	1
168 mm	1 inch	20 mm	5 mm	10 kN	0862 900 485	1
219 mm	1 inch	20 mm	5 mm	10 kN	0862 900 486	1

Trapezoidal plate hook

Quick anchoring to profile plates.

Permissible load with 1-mm profile plate thickness	0.5 kN
Permissible load with 0.75-mm profile plate thickness	0.3 kN



Length (L)	Hook diameter (ØD)	Internal diameter of hook (ØD _i)	Width (B)	Nominal diameter (G)	Art. no.	P. Qty.
60 mm	5.2 mm	13 mm			0862 550 0	100
68 mm	5.2 mm		21.5 mm		0862 551 0	100
80 mm	5.2 mm			6 mm	0862 552 0	100
95 mm	7 mm			8 mm	0862 553 0	100



Trapezoidal mount

Without sound protection

- Secure to trapezoidal plate by means of rivets or Zebra pins screws
- Easy adjustment to different trapezoidal plate profiles thanks to specified bending points
- Slots in leg ends enable installation with threaded rods or hex screws



Surface	Zinc plated
Width (B)	30 mm
Limb length (L _s)	105 mm
Material thickness (t)	2 mm
Round hole diameter (RL)	4.2 mm
Round hole diameter 2 (RL ₂)	8.5 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	8.5 mm
Elongated hole length 2 (LL ₂)	8 mm
Elongated hole width 2 (LB ₂)	4 mm
Permissible load	1500 N
Material	Steel

Suitable for threaded rods	Art. no.	P. Qty.
M8	0862 514 0	100
M10	0862 515 0	100



Trapezoidal mount

With welded-in nut

- Fastening by means of push-through mounting with M8 threaded rod
- Also possible with 4.0 mm AlMg 5 sealing rivets (DIN 1725) or 4.2 mm drilling screws made from case-hardened steel
- Easy adjustment to different trapezoidal plate profiles thanks to specified bending points
- Sendzimir zinc-plated - continuous sheet-zinc-plated material



Surface	Sendzimir galvanized
Width (B)	25 mm
Limb length (L _s)	94 mm
Material thickness (t)	2.5 mm
Round hole diameter (RL)	9.5 mm
Round hole diameter 2 (RL ₂)	4.2 mm
Permissible load	800 N
Material	Steel

Suitable for threaded rods	Weight	Art. no.	P. Qty.
M8	105 g	0862 514 001	50
M10	100 g	0862 515 001	50

VdS certification no. G 4021037



Trapezoidal mount

With knurled nut for height adjustment

- Fastening by means of push-through mounting with M8 x 100 threaded rod or M8 x 100 hex screw
- Also possible with 4.0 mm AlMg 5 sealing rivets (DIN 1725) or 4.2 mm drilling screws made from case-hardened steel (no VdS approval)
- Easy adjustment to different trapezoidal plate profiles thanks to specified bending points



Surface	Zinc plated
Width (B)	25 mm
Material thickness (t)	2.5 mm
Round hole diameter (RL)	11 mm
Round hole diameter 2 (RL ₂)	4.2 mm
Elongated hole length (LL ₁)	16 mm
Elongated hole width (LB ₁)	8 mm
Permissible load	800 N
Material	Steel

Suitable for threaded rods	Art. no.	P. Qty.
M8	0862 514 002	50
M10	0862 515 002	50

VdS certification no. G 410036



Trapezoidal mount

With noise protection

- Secure to trapezoidal plate by means of rivets or Zebra pins screws
- Easy adjustment to different trapezoidal plate profiles thanks to specified bending points
- Slots in leg ends enable installation with threaded rods or hex screws



Surface	Zinc plated
Width (B)	30 mm
Limb length (L _s)	107 mm
Material thickness (t)	2 mm
Round hole diameter (RL)	4.2 mm
Round hole diameter 2 (RL ₂)	8.5 mm
Elongated hole length (LL ₁)	20 mm
Elongated hole width (LB ₁)	8.5 mm
Elongated hole length 2 (LL ₂)	8 mm
Elongated hole width 2 (LB ₂)	4 mm
Permissible load	1500 N
Material	Steel

Suitable for threaded rods	Weight	Art. no.	P. Qty.
M8	108 g	0862 516 0	50
M10	110 g	0862 517 0	50



Trapezoidal hole punch

- For screwing on trapezoidal plates up to a diameter of 10 mm.
- Opening angle from min. 25 mm up to max. 90 mm

Min. width of mouth	25 mm
Max. width of mouth	90 mm
Max. material thickness	1.5 mm



Art. no. 0862 500 010

P. Qty.: 1

Sliding piece

For the absorption of temperature-based changes in length of pipelines and components (axial shifting)

- Allows pendulum motion
- Individually suspended directly from the ceiling or a mounting rail
- Prevents tensile forces on the pipe attachment
- Combination nut ensures connection of a variety of threads, i.e. M8/M10



Permissible load	1.3 kN
Connection thread (G)	M10
Outlet thread (AG)	M8/M10
Sliding length (X)	35 mm
Thread length (L _G)	17 mm
Width (B)	30 mm
Length (L)	60 mm
Height (H)	48 mm
Material	Steel
Surface	Zinc plated
Product weight (per item)	192.1 g

Art. no. 0862 049 010

P. Qty.: 10



Pendular suspension

For the suspension of pipelines and components with threaded rods. Suspended attachment to angled ceilings (roof area).

- Prevents uncontrolled tension forces on the mounting
- Flexible oscillation effect 2 x 20° on all sides
- Inspection opening ensures secure mounting



Permissible load	3 kN
Surface	Zinc plated
Material	Steel
Width across flats (SW)	13 mm
Fire protection certified	Yes

Outlet thread (IG)	Connection thread (AG)	Length (L)	Design	Width across flats 2	Art. no.	P. Qty.
M8	M8	49 mm	Short	10 mm	0862 048 008	50
M10	M10	49 mm	Short	12 mm	0862 048 010	50
M8	M8	79 mm	Long	10 mm	0862 048 108	50
M10	M10	79 mm	Long	12 mm	0862 048 110	50



VARIFIX® pushing slide Type GK-1

With double support to prevent slipping out of the guide

- Large sliding distance of up to 60 mm
- Low overall height
- Secured from tipping and falling over through support via two clamps



Carriage length (L _s)	180 mm
Carriage width (B _s)	40 mm
Carriage height (H _s)	25 mm
Length (L)	46 mm
Width (B)	108 mm
Height (H)	33 mm
Hole distance (LA ₁)	78 mm
Hole distance on carriage (LA ₂)	120 mm
Elongated hole length (LL)	13 mm
Elongated hole width (LB)	11 mm
Permissible load	1500 N
Min./max. temperature resistance	-40 to 100 °C

Sliding length (X)	Connection thread (G)	Product weight (per item)	Art. no.	P. Qty.
53 mm	M12	505.65 g	0862 700 104	1
55 mm	M10	491.1 g	0862 700 103	1
60 mm	M8	498.4 g	0862 700 102	1



VARIFIX® pushing slide W1

Static friction coefficient: $\mu_0 = 0.18$

Sliding friction coefficient: $\mu = 0.14$

**The sliding element cannot slide out
Slots punched out at 90° to each other**

Guaranteed improvement in ease of assembly

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Carriage length (L _s)	75 mm
Carriage width (B _s)	47.5 mm
Carriage height (H _s)	11 mm

Continuation **VARIFIX® pushing slide W1**

Material thickness (t)	4 mm
Length (L)	200 mm
Width (B)	130 mm
Sliding length (X)	100 mm
Hole distance (LA ₁)	96 mm
Elongated hole length (LL)	21 mm
Elongated hole width (LB)	11 mm
Min./max. temperature resistance	0 to 120 °C
Surface	Zinc plated
Material	Steel

Height (H)	Connection thread (G)	Permissible load	Product weight (per item)	Art. no.	P. Qty.
30.5 mm	M8 x M10	3500 N	1037 g	0862 700 120	1/5
32.5 mm	M10 x M12	4800 N	1035 g	0862 700 121	1/5



VARIFIX® pushing slide G16

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Carriage length (L _s)	220 mm
Carriage width (B _s)	60 mm
Material thickness (t)	10 mm
Length (L)	61 mm
Width (B)	80 mm
Height (H)	40 mm
Sliding length (X)	110 mm
Round hole diameter 1 (RL ₁)	17 mm
Round hole diameter 2 (RL ₂)	17 mm
Hole distance (LA ₁)	170 mm
Permissible load	6000 N
Min./max. temperature resistance	0 to 120 °C
Surface	Zinc plated
Product weight (per item)	1195 g
Material	Steel

Art. no. 0862 700 139

P. Qty.: 1



VARIFIX® pushing slide GK-0

Cradle to Cradle®-certified

- Upgrading the building using non-hazardous materials
- Wider range of applications for GreenBuilding and building certification in accordance with LEED®, BREEAM® and DGNB



Carriage length (L _s)	80 mm
Carriage width (B _s)	52 mm
Material thickness (t)	3 mm
Length (L)	60 mm
Width (B)	66 mm
Sliding length (X)	30 mm
Round hole diameter 1 (RL ₁)	13 mm
Min./max. temperature resistance	0 to 120 °C
Surface	Zinc plated
Material	Steel

Height (H)	Connection thread (G)	Permissible load	Product weight (per item)	Art. no.	P. Qty.
31.5 mm	M8	800 N	277 g	0862 700 130	1
34.5 mm	M10	1200 N	284 g	0862 700 131	1
37.5 mm	M12	1500 N	290 g	0862 700 132	1



Damping base

For mounting devices and pipes on flat roof

Min./max. temperature conditions	-40 to 80 °C
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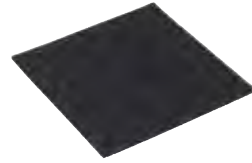


Height	Width	Length	Product weight (per item)	Permissible load	Art. no.	P. Qty.
50 mm	130 mm	250 mm	1031 g	2500 N	0862 003 052	1
50 mm	130 mm	400 mm	2234 g	4000 N	0862 003 053	1
95 mm	180 mm	250 mm	2574 g	1600 N	0862 003 054	1
95 mm	180 mm	400 mm	4290 g	2400 N	0862 003 055	1
95 mm	180 mm	600 mm	6547 g	4500 N	0862 003 056	1
95 mm	180 mm	1000 mm	7050 g	6450 N	0862 003 057	1

Damping mat

To prevent an increased surface pressure on the roof panels

Height	6 mm
Material	PVC - Polyvinyl chloride



Length	Width	Product weight (per item)	Art. no.	P. Qty.
300 mm	300 mm	488 g	0862 003 070	1/10
500 mm	500 mm	988 g	0862 003 075	1/10

Damping mat

Damping mat for roof pitches of 2.5° and 5°

Material	Styrene butadiene rubber
Min./max. temperature resistance	-40 to 80 °C



Length	Width	Min./max. height	Product weight (per item)	Max. roof slope	Art. no.	P. Qty.
300 mm	300 mm	10-23 mm	2455 g	2.5 Degree	0862 003 071	2
300 mm	300 mm	10-36 mm	1830 g	5 Degree	0862 003 073	2
500 mm	500 mm	10-23 mm	1550 g	2.5 Degree	0862 003 076	2
500 mm	500 mm	10-36 mm	6650 g	5 Degree	0862 003 078	2

Varifix Mounting rail foot

Particularly suitable for mounting on flat roofs

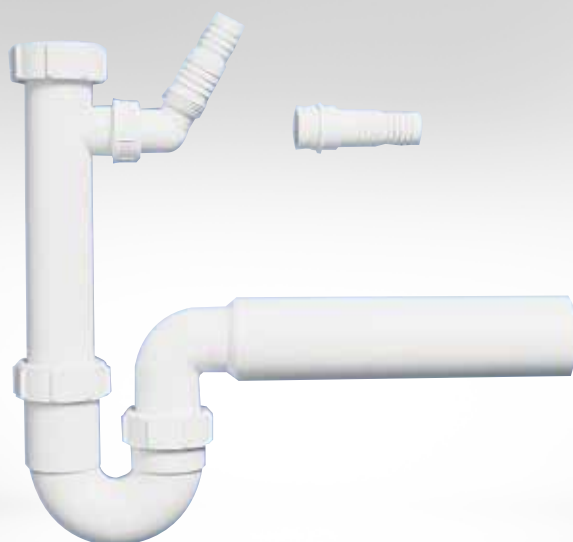
Quick mounting without bore holes

Varifix profile 41/41 is inserted into the foot



Height (H)	120 mm
Profile length (L _p)	42 mm
Profile width (B _p)	42 mm
Profile height (H _p)	85 mm
Min./max. temperature resistance	-30 to 110 °C
Suitable for mounting rail	41 x 41 mm
Material	HDPE - High density polyethylene

Length (L)	Width (B)	Permissible load	Product weight (per item)	Art. no.	P. Qty.
305 mm	305 mm	3500 N	3830 g	0862 003 060	1
500 mm	500 mm	4500 N	8500 g	0862 003 065	1



Universal trap

With rigid outlet (90°) and hose adapter

- High-quality plastic, robust and break-proof
- Secure tightening (by hand) thanks to robust, workman-friendly union nut
- Practical pre-assembly
- Smooth, non-porous surfaces

Material	PP - Polypropylene
Colour	White
Connection thread	1 1/2 inch
Design of the outlet	Steep (0-90°)

Nominal width of DN outflow	Art. no.	P. Qty.
DN 40	0888 800 402	1
DN 50	0888 800 401	1

Universal trap

With rigid outlet (0–90°) and hose adapter

- High-quality plastic, robust and break-proof
- Secure tightening (by hand) thanks to robust, workman-friendly union nut
- Practical pre-assembly
- Smooth, non-porous surfaces



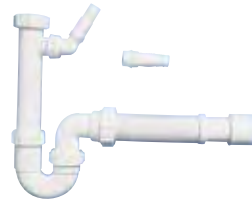
Material	PP - Polypropylene
Colour	White
Connection thread	1 1/2 inch
Design of the outlet	Steep (0-90°)

Nominal width of DN outflow	Art. no.	P. Qty.
DN 40	0888 800 303	1
DN 50	0888 800 302	1

Universal trap

With flexible outlet and hose adapter

- High-quality plastic, robust and break-proof
- Secure tightening (by hand) thanks to robust, workman-friendly union nut
- Practical pre-assembly
- Smooth, non-porous surfaces



Material	PP - Polypropylene
Colour	White
Connection thread	1 1/2 inch
Nominal width of DN outflow	DN 50, DN 40
Design of the outlet	Flexible

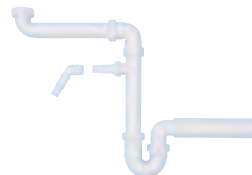
Art. no. 0888 800 400

P. Qty.: 1

Space-saving combination

Standard drain trap including space-saving elbow (L = 280 mm) and hose adapter, for more space under the sink

- High-quality plastic, robust and break-proof
- Secure tightening (by hand) thanks to robust, workman-friendly union nut
- Practical pre-assembly
- Smooth, non-porous surfaces



Material	PP - Polypropylene
Colour	White
Connection thread	1 1/2 inch
Nominal width of DN outflow	DN 50
Design of the outlet	Steep (0-90°)

Art. no. 0888 800 404

P. Qty.: 1

Standard pipe trap, chrome-plated

Material	Brass
Surface	Chrome plated
DN nominal width	DN 32
Connection thread	1 1/4 inch
Wall-tube length	165 mm
Dip-tube length	120 mm



Art. no. 0888 800 607

P. Qty.: 1



Long pipe trap, chrome-plated

Material	Brass
Surface	Chrome plated
DN nominal width	DN 32
Connection thread	1 1/4 inch
Wall-tube length	220 mm
Dip-tube length	120 mm

Art. no. 0888 800 608

P. Qty.: 1

Shower hose

Premium model

- Shower side with rotating cone
- Smooth, attractive, easy-to-clean outer side
- Highly flexible, robust and tear-proof
- Self-sealing, as seals are captive mounted in connections

Material	Plastic
Approval mark	DVGW



Connection thread	Length	Art. no.	P. Qty.
1/2 inch cone, 1/2 inch swivel cone	1.25 m	0888 906 125	1/4
1/2 inch swivel cone, 1/2 inch cone	1.6 m	0888 906 160	1/4
1/2 inch swivel cone, 1/2 inch cone	2 m	0888 906 200	1/4



Plastic shower hose

Economy model

- Highly flexible, robust and tear-proof
- Self-sealing, as seals are captive mounted in connections.

Material	Plastic
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Connection thread	Length	Art. no.	P. Qty.
1/2 inch cone, 1/2-inch knurled nut	1.6 m	0888 900 160	5
1/2 inch cone, 1/2-inch knurled nut	2 m	0888 900 200	5
1/2-inch knurled nut, 1/2 inch cone	1.25 m	0888 900 125	5

Metal shower hose

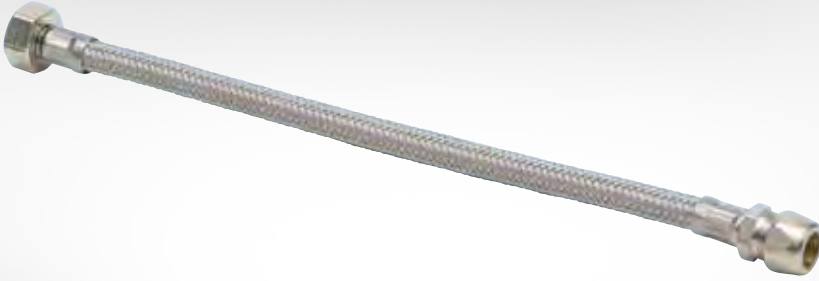
Robust model

- Long-life, robust safety shower hose
- Especially well-suited for extreme loads thanks to its S-shaped winding
- Self-sealing, as seals are captive mounted in connections

Material	Metal
Connection thread	1/2 inch cone, 1/2-inch knurled nut



Length	Art. no.	P. Qty.
1.25 m	0888 901 125	5
1.6 m	0888 901 160	5
2 m	0888 901 200	5



Flexible hose 3/8 inch crimp connection x 3/8 inch union nut

For flexible cold and hot water connections

DVGW-tested

- W543
- W270
- KTW-A

DN nominal width	DN 8
Connection	3/8 inch (crimp) x 3/8 inch (UN)

Length	Art. no.	P. Qty.
300 mm	0888 902 030	10
500 mm	0888 902 031	5

Flexible hose 3/8" crimp connection x 10 mm pipe connector

For flexible cold and hot water connections

DN nominal width	DN 8
Connection	3/8 inch (crimp) x 10 mm (pipe clip)



Length	Art. no.	P. Qty.
300 mm	0888 902 020	10
500 mm	0888 902 021	5

DVGW-tested

- W543
- W270
- KTW-A



DIN regulating angle valve, 1/2"

- DVGW-tested in accordance with DIN 3227
- Noise class I, test mark P-IX 723/IA
- Screw fitting with length compensation
- Long shaft with sliding rosette
- Made in Germany



Material	Brass
Surface	Chrome plated
Connection thread	1/2 inch
Compression fitting	3/8 inch x 10 mm

Art. no. 0888 902 113

P. Qty.: 1/10



Combination corner valve, 1/2"

With non-return valve

- Noise test, test mark P-IX 718/IIA
- Screw fitting with length compensation
- Long shaft with sliding rosette
- Made in Germany



Material	Brass
Surface	Chrome plated
Connection thread	1/2 inch
Compression fitting	3/8 inch x 10 mm
Screw fitting for hose	3/4 inch

Art. no. 0888 902 122

P. Qty.: 1

Combination corner valve, 1/2 inch, self-sealing

With non-return valve

- With self-sealing connecting thread
- Noise test, test mark P-IX 718/IIA
- Screw fitting with length compensation
- Long shaft with sliding rosette
- Made in Germany



Material	Brass
Surface	Chrome plated
Connection thread	1/2 inch
Compression fitting	3/8 inch x 10 mm
Screw fitting for hose	3/4 inch

Art. no. 0888 902 123

P. Qty.: 1

DIN regulating angle valve, 1/2", self-sealing

With self-sealing connecting thread

- With self-sealing connection thread
- DVGW-tested in accordance with DIN 3227
- Noise class I, test mark P-IX 723/IA
- Screw fitting with length compensation
- Long shaft with sliding rosette
- Made in Germany



Material	Brass
Surface	Chrome plated
Connection thread	1/2 inch
Compression fitting	3/8 inch x 10 mm

Art. no. 0888 902 114

P. Qty.: 1/10



Combination corner valve, 1/2 inch, with pipe ventilator

With non-return valve and pipe ventilator in accordance with DIN 3266 as a HP safeguard combination in accordance with DIN 1988, Part 4 and DIN EN 1717 (RV and RB)

- Noise test, test mark P-IX 718/IIA
- Screw fitting with length compensation
- Long shaft with sliding rosette
- Made in Germany

Material	Brass
Surface	Chrome plated
Connection thread	1/2 inch
Compression fitting	3/8 inch x 10 mm
Screw fitting for hose	3/4 inch

Art. no. 0888 902 126

P. Qty.: 1



Combination corner valve, 1/2 inch with pipe ventilator, self-sealing

With non-return valve and pipe ventilator in accordance with DIN 3266 as a HP safeguard combination in accordance with DIN 1988, Part 4 and DIN EN 1717 (RV and RB)

- Noise test, test mark P-IX 718/IIA
- Screw fitting with length compensation
- Long shaft with sliding rosette
- Made in Germany

Material	Brass
Surface	Chrome plated
Connection thread	1/2 inch
Compression fitting	3/8 inch x 10 mm
Screw fitting for hose	3/4 inch

Art. no. 0888 902 127

P. Qty.: 1



Appliance angle seat valve, 1/2" with pipe ventilator

With non-return valve and pipe ventilator in accordance with DIN 3266 as a HP safeguard combination in accordance with DIN 1988, Part 4 and DIN EN 1717 (RV and RB)

Made in Germany

Material	Brass
Surface	Chrome plated
Screw fitting for hose	3/4 inch

Art. no. 0888 902 132

P. Qty.: 1



Appliance connecting valve, 3/8"

With non-return valve

- Noise test, test mark PA-IX 8349/I
- Made in Germany

Material	Brass
Compression fitting	3/8 inch x 10 mm
Surface	Chrome plated
Screw fitting for hose	3/4 inch

Art. no. 0888 902 141

P. Qty.: 1



Single rosette

- Simple, fast and secure assembly with safety clip locking
- A clean fit thanks to centring slats and invisible closure

Material	PP - Polypropylene
Colour	White



Internal diameter (d)	Outer diameter (D)	Art. no.	P. Qty.
12 mm	40 mm	0876 111 2	100
15 mm	49 mm	0876 111 5	100
16 mm	49 mm	0876 111 016	100
18 mm	49 mm	0876 111 8	100
22 mm	55 mm	0876 112 2	100
28 mm	65 mm	0876 112 8	50
35 mm	70 mm	0876 113 5	25

Hand-held sprinkler

Dual-jet (Rain, Jet)

- Reduces water consumption
- Silicone ring prevents damage
- Easy to clean thanks to anti-limescale nozzles
- Ideal spray pattern
- Tested by German Technical and Scientific Association for Gas and Water (DVGW)



Material	ABS
Surface	Chrome plated
Number of spray types	2
Anti-limescale system	Yes
Shock protection	Yes
Suitable for continuous heater	Yes
Connection thread	G 1/2 inch
Shower head diameter	100 mm
Flow capacity	5.7 l/min
Min. pressure	1 bar
Approval mark	DVGW

Art. no. 0888 600 202

P. Qty.: 1



Toilet seat

With stainless steel brackets

- Solid, unbreakable
- Warm seat
- Adjustable stainless steel brackets with fast-action fastening
- Easy-to-clean thanks to straight underside
- 4-point top



Colour	White
Material	Thermoplast

Art. no. 0888 600 510

P. Qty.: 1/5

Tested in line with DIN 19516



Water hose Professional

Multi-layer high-quality PVC water hose with high-strength polyester fabric lining

- Kink-proof and abrasion-resistant
- Cannot be twisted
- Cold-resistant and heat-resistant

Material	PVC - Polyvinyl chloride
Colour	Yellow
Material of the mesh	Polyester
Min./max. temperature resistance	-15 to 60 °C

Internal diameter in inches	Internal diameter	Wall thickness	Hose length	Operating pressure/conditions	Art. no.	P. Qty.
1/2 in	12.5 mm	2.55 mm	50 m	10 bar/at 23°C	0886 001 200	50
1/2 in	12.5 mm	2.55 mm	30 m	10 bar/at 23°C	0886 001 201	30
3/4 in	18.8 mm	3.3 mm	50 m	9 bar/at 23°C	0886 001 210	50
3/4 in	18.8 mm	3.3 mm	25 m	9 bar/at 23°C	0886 001 211	25
1 in	25 mm	3.65 mm	50 m	8 bar/at 23°C	0886 001 220	50

Construction hose

Extremely light and flexible

- Resistant to ageing and ozone
- Resistant to rot and mould

Material of the outer weave	High-strength polyester yarn, circular woven
Material of inner core layer	TPR-PVC mix
Length	20 m



Connection coupling	Inner hose diameter	Art. no.	P. Qty.
Storz B	75 mm	0886 001 526	1
Storz C	52 mm	0886 001 525	1

Construction and industrial hose

Made in Germany

Very light and flexible

even at very low temperatures

Ageing and ozone-resistant

Non-rotting and non-perishing

Material of the outer weave	High-strength polyester yarn, circular woven in twill weave
Material of inner core layer	High-quality EPDM
Length	20 m

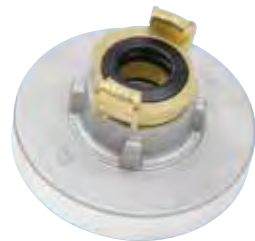


Connection coupling	Inner hose diameter	Art. no.	P. Qty.
Storz B	75 mm	0886 001 521	1
Storz C	52 mm	0886 001 520	1

Transition coupling

Aluminium, industrial version (cast couplings)

Material	Aluminium diecasting
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Connection	Art. no.	P. Qty.
Storz A - Storz B	0886 001 438	1
Storz B - Storz C	0886 001 436	1
Storz C - Geka 1 inch	0886 001 432	1

2-way tap

Outlets can be shut off separately using upper valve sections

Material	Pressed brass
Gasket material	Nitrile butadiene rubber (NBR)

Art. no. 0886 001 080

P. Qty.: 1



Hose coupling hose piece

Material	Pressed brass
Gasket material	Nitrile butadiene rubber (NBR)



Connection	Art. no.	P. Qty.
1/2 inch	0886 001 001	10
3/4 inch	0886 001 002	10
1 inch	0886 001 003	10
1 1/4 inch	0886 001 004	10

Coupling with jam nut

Material	Pressed brass
Gasket material	Nitrile butadiene rubber (NBR)



Connection	Art. no.	P. Qty.
1/2 inch	0886 001 091	5
3/4 inch	0886 001 092	10
1 inch	0886 001 093	10
1 1/4 inch	0886 001 094	5

Hose coupling threaded fitting with male thread

Material	Pressed brass
Gasket material	Nitrile butadiene rubber (NBR)



Connection thread	Art. no.	P. Qty.
ET 1/2 inch	0886 001 021	10
ET 3/4 inch	0886 001 022	10
ET 1 inch	0886 001 023	10
MT 1 1/4 inch	0886 001 024	5

Hose coupling threaded fitting with female thread

Material	Pressed brass
Gasket material	Nitrile butadiene rubber (NBR)



Connection thread	Art. no.	P. Qty.
IT 1/2 inch	0886 001 031	10
IT 3/4 inch	0886 001 032	10
IT 1 inch	0886 001 033	10
IT 1 1/4 inch	0886 001 034	5

Spray nozzle

Heavy-duty design

Material	Pressed brass
Gasket material	Nitrile butadiene rubber (NBR)
Connection	3/4 inch

Art. no. 0886 001 042

P. Qty.: 1



Professional cleaning gun

High quality, rugged cleaning gun with rubber jacket

- All parts approved for drinking water
- Forged, robust brass/stainless steel combination
- High-quality pure EPDM rubber coating to protect against damage as well as cold and warm pipes for flowing water
- Easy to operate with one hand. Radiant intensity can be infinitely adjusted from a concentrated jet to fine spray mist by pressing the handle
- The shape of the jet can be adjusted using a coin on the adjusting screw
- Locating clip for the operating lever allows continuous operation



Material	Brass/stainless steel, ethylene propylene diene terpolymer rubber outer sleeve
Colour	Blue
Connection thread	IT 1/2 inch
Max. temperature resistance	50 °C

Art. no. 0886 001 040

P. Qty.: 1



12

PASSENGER VEHICLES/CARGO

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Electrical brake bleeder

Especially sturdy, high-quality device. For bleeding passenger car brakes and lorry clutches. Easy to use and easy to service. Suitable for electro-hydraulic brakes.

- Pressure continuously adjustable from 0.4 to 4 bar
- Works from the original canister up to 12 litres
- Switches off when canister is empty to prevent air from being drawn in
- Additional low-pressure test
- Mobile device with controls at working height
- Especially resistant to brake fluid

Scope of delivery:

- Cart with adapter storage compartment
- Universal cone for canister seal
- Suction device for preliminary draining
- Euro adapter art. no. 071455 301 (E 20 for many European passenger vehicles)

Max. contents	12 l
Min./max. working pressure	0.4-4 bar
Length of feed hose	350 cm
ABS-compliant	Yes
Suitable for electro-hydraulic brakes	Yes

Art. no. 0714 556 24

P. Qty.: 1

Electrical brake bleeder

For all passenger and commercial vehicles (couplings) and all motorcycles

- Working pressure 2 bar (not adjustable)
- Works from original canister up to 5 litres
- Switches off when canister is empty to prevent air from being drawn in
- Depressurised uncoupling from vehicle
- Especially resistant to brake fluid

Scope of delivery:

- Device with canister mount and 3 rubber cones
- Euro adapter art. no. 071455 301 (E 20 for almost all European passenger vehicles)



Max. contents	5 l
Length of feed hose	350 cm
ABS-compliant	Yes

Art. no. 0714 556 25

P. Qty.: 1

Use only mineral oil-free brake fluids

Electrical brake bleeder

For bleeding passenger car brakes and lorry clutches with brake fluid. Suitable for container sizes up to 60 litres and for electro-hydraulic brakes.

- Pressure continuously adjustable from 0.4 to 3.5 bar
- Works from the original barrel up to 60 litres
- Switches off when barrel is empty to prevent air from being drawn in
- Additional low-pressure test
- Mobile device with controls at working height
- Resistant to brake fluid

Scope of delivery

- Barrel device with adapter storage compartment
- Barrel sealing cap with intake pipe
- Euro adapter art. no. 071455 301 (E 20 for almost all European passenger vehicles)
- Chain sling for securing barrel



Max. contents	60 l
Min./max. working pressure	0.4-3.5 bar
Length of feed hose	350 cm
ABS-compliant	Yes
Suitable for electro-hydraulic brakes	Yes

Art. no. 0714 556 22

P. Qty.: 1

Use only mineral oil-free brake fluids

Collecting bottle

For brake fluid

1 litre bottle with screw cap and zinc-plated hanging hook

For collecting old fluid

Elastic silicone hose, resistant to yellowing

Ensures optimum visual inspection

Contents	1 l
Product weight (per item)	114 g

Art. no. 0714 556 212

P. Qty.: 1



Adapter case with 4 special adapters

The optimal adapter addition for independent workshops and tire services

Product weight (per item)	1070 g
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Art. no. 0714 55 325

P. Qty.: 1



Bayonet adapter BS 35

For brake bleeder

Product weight (per item)	166 g
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Art. no. 0714 55 310

P. Qty.: 1



Bayonet adapter BS 37

For brake bleeder

Product weight (per item)	173 g
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Art. no. 0714 55 319

P. Qty.: 1



Brake fluid tester

Test water content in all polyglycol-based brake fluids (DOT3/DOT4 and DOT5.1) easily, quickly and precisely

- Practical test pen with clip
- One push button for quick test and switching
- Compact, lightweight design
- Rapid and precise measurement
- Self-test
- Acid and alkali resistant, impact and break-proof
- Automatic switch-off
- LED light



Included in delivery (Lieferumfang)	2 x Micro 1.5 V AAA
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Art. no. 0715 53 220

P. Qty.: 1

Manufactured and certified in line with IEC/EN 61010-1 standard



Batteries must be disposed of separately, not in household waste.

Brake calliper brush

Narrow steel wire brush with plastic handle

Length	225 mm
Material	Plastic



Art. no. 0715 55 26

P. Qty.: 1

Brake calliper file

For removing brake dust, rust and dirt from brake calliper shaft

- Plastic handle
- Slanted tothing on one side



Length	260 mm
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Art. no. 0714 61 79

P. Qty.: 1/6

Portable universal flanging tool kit

10 pieces. For universal use, including directly on vehicles.

- Pressure force of 2.5 t
- Allows the flanging to be performed directly on the vehicle
- Tool-less locking of manual hydraulic unit and base element
- Simple operation of manual hydraulic unit
- Precise fabrication of clamping jaws
- No ribbing on clamping jaw inside surfaces



Art. no. 0714 91 001

P. Qty.: 1

Flanging types: SAE (convex), DIN flare E, DIN (convex), DIN flare F, SAE/DIN (double flange)

Brake piston resetting tool set

Comprehensive brake piston resetting tool set for rapid brake pad replacement on all commercially available passenger vehicles

- Contains adapters for all commercially available passenger vehicles
- Magnetic adapter plate attachment
- Perfectly fitting, specially designed adapter plates



Art. no. 0715 55 200

P. Qty.: 1

Contents for art. no. 0715 55 200

Designation	Art. no.	Quantity
Brake piston resetting spindle RH	0715 55 201	1
Brake piston resetting spindle LH	0715 55 202	1
Brake piston resetting adapter 1	0715 55 205	1
Brake piston resetting adapter 2	0715 55 206	1
Brake piston resetting adapter 3	0715 55 207	1
Brake piston resetting adapter 4	0715 55 208	1
Brake piston resetting adapter 5	0715 55 209	1
Brake piston resetting adapter 6	0715 55 210	1
Brake piston resetting adapter 7	0715 55 211	1
Brake piston resetting adapter 8	0715 55 212	1
Brake piston resetting adapter 9		1
Brake piston resetting adapter 0	0715 55 203	1
Brake piston resetting adapter 0-disc	0715 55 204	1
Brake piston resetting adapter 11	0715 55 214	1
Brake piston resetting adapter 12		1
Brake piston resetting adapter A	0715 55 216	1
Brake piston resetting adapter B		1
Brake piston resetting adapter C	0715 55 218	1
Brake piston resetting adapter D	0715 55 219	1
Brake piston resetting adapter E	0715 55 220	1
Brake piston resetting adapter F	0715 55 221	1

Designation	Art. no.	Quantity
Brake piston resetting adapter G	0715 55 222	1
Brake piston resetting adapter J	0715 55 225	1
Brake piston resetting adapter K		1
Brake piston resetting adapter K1		1
Brake piston resetting adapter K2	0715 55 228	1
Brake piston resetting adapter M	0715 55 229	1
Brake piston resetting adapter N	0715 55 230	1
Brake piston resetting adapter P		1
Brake piston resetting adapter Q	0715 55 232	1
Brake piston resetting adapter R	0715 55 233	1
Brake piston resetting adapter S	0715 55 234	1
Brake piston resetting adapter Z	0715 55 238	1
Brake piston resetting adapter T	0715 55 235	1
Brake piston resetting adapter V	0715 55 236	1
Brake piston resetting adapter IV	0715 55 239	1
Brake piston resetting adapter A1	0715 55 253	1
Brake piston resetting adapter B1	0715 55 250	1
Brake piston resetting adapter F1	0715 55 252	1
Brake piston resetting adapter G1	0715 55 251	1
Brake piston resetting adapter P1	0715 55 249	1
Brake piston resetting adapter R1	0715 55 254	1
Brake piston resetting locking tool H6	0715 55 223	1
Brake piston resetting locking tool H7	0715 55 224	1

MacPherson spring strut compressor set

Basic unit with four clamping plates for removing and mounting screw springs when replacing shock absorbers on MacPherson spring struts.

- Suitable for use with impact screwdrivers
- Die-forged, easily replaceable clamping plates
- Powder-coated clamping plates
- High clamping force of 18,000 N
- Special clamping plates for conical and spherical springs



Tension force	18000 N
Min./max. spring diameter	80-195 mm

Art. no. 0713 525 20

P. Qty.: 1

Contents for art. no. 0713 525 20		
Designation	Art. no.	Quantity
MacPherson spring strut compressor	0713 525 21	1
Clamping plate III Min./max. spring diameter 80-145 mm	0713 525 01	2
Clamping plate V Min./max. spring diameter 145-195 mm	0713 525 02	2

Tyre inflator

Portable device without hose connection - calibrated design

- Automatic refilling by means of filling socket with filling valve (counterpart)
- Can be attached on both sides
- Easy two-button operation
- Clear view of the scale
- Rubber buffer to protect the manometer



Min./max. pressure measuring range	0-10 bar
Pressure conditions for measuring accuracy	< 0.08 bar: 0-4 bar, < 0.16 bar: 4-10 bar, < 0.25 bar: > 10 bar
Max. working pressure	16 bar
Min./max. temperature conditions	-10 to 40 °C
Medium that can be measured	Air
Manometer diameter	160 mm
Hose length	800 mm
Connection thread	1/4 inch
Volumetric capacity	6 l
Product weight (per item)	6987 g
Material of the housing	Plastic

Art. no. 0715 93 92

P. Qty.: 1

EU type-approval



Analogue tyre inflator, conformity assessed

Precise measurements from well protected manometer

- Shock-absorbed connection nipple effectively cushions unwanted impact.
- Built-in metal filters sift out dirt particles without reducing air flow.
- Measuring device protected with integrated safety mechanisms.
- The large dial provides enough space for the scale chart.

Min./max. pressure measuring range	0-12 bar
Pressure conditions for measuring accuracy	< 0.08 bar: 0-4 bar, < 0.16 bar: 4-10 bar, < 0.25 bar: > 10 bar
Max. working pressure	16 bar
Min./max. temperature conditions	5 to 40 °C
Medium that can be measured	Air, Nitrogen
Manometer diameter	80 mm
Hose length	500 mm
Connection thread	M18 x 1.5
Product weight (per item)	1057.25 g

Art. no. 0715 54 05

P. Qty.: 1

Digital tyre inflator

Precise, fast digital display with test routine

- Reliable, precise pressure sensor delivers values to display in 0.2 seconds
- Test routine indicates whether all numeric segments are operable
- Compact, impact-protected design protects digital display and pressure sensor
- Universal lever for filling and draining
- Large, easy-to-read LCD display
- Extra-large hanging eye on housing
- Filling hose with quick-connect nipple
- Light, functional design



Min./max. pressure measuring range	0-12 bar
Pressure conditions for measuring accuracy	< 0.08 bar: 0-4 bar, < 0.16 bar: 4-10 bar, < 0.25 bar: > 10 bar
Max. working pressure	15 bar
Min./max. temperature conditions	-10 to 50 °C
Medium that can be measured	Air
Hose length	800 mm
Connection thread	1/4 inch
Product weight (per item)	556 g
Material of the housing	Rubber
IP protection class	IP 54
Pressure measuring accuracy	0.05 bar

Art. no. 0715 54 055

P. Qty.: 1

BGI (BG information) 884 recommends maintaining a safety distance of 2.5 m to protect against parts thrown off or the blast wave generated when a tyre bursts. For this purpose, the hose length from the push-fit nipple to the filling device must be at least 2.5 m.

Digital tyre inflator with calibration certificate

Issued for serial number

Min./max. pressure measuring range	0-12 bar
Pressure conditions for measuring accuracy	< 0.08 bar: 0-4 bar, < 0.16 bar: 4-10 bar, < 0.25 bar: > 10 bar
Max. working pressure	15 bar
Min./max. temperature conditions	10 to 50 °C
Medium that can be measured	Air, Nitrogen
Hose length	800 mm
Connection thread	1/4 inch
Product weight (per item)	560 g
Material of the housing	Rubber
IP protection class	IP 54
Pressure measuring accuracy	0.05 bar
Design	With conformity certificate to the serial number issued.



Art. no. 0715 54 058

P. Qty.: 1



Tyre bag

Protects luggage compartment and vehicle interior against dirt when transporting tyres

- Rolls
- White, oil and water-resistant PE film
- Particularly robust thanks to high material thickness



Width	700 mm
Roll width	720 mm
Number of tear-offs	100 PCS

Length	Art. no.	P. Qty.
1000 mm	0899 500 300	1
1200 mm	0899 500 302	1

Spare silicone hose

For collection bottle

- 1 m total length
- Inner diameter 5 mm, outer diameter 8 mm

Product weight (per item)	38 g
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Art. no. 0714 556 213

P. Qty.: 1



Vulcanising cement

High-strength. For self-vulcanising repair systems for tyre and hose repairs.

Contents	235 ml
Container	Can
Chemical basis	Naphtha
Colour	Beige
Density	0.74 g/cm ³
Shelf life from production	12 Month



Art. no. 0890 100 017

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Continuation **Vulcanising cement**

Excerpt from: § 36 German road traffic licensing regulations (StVZO) guidelines for assessing and repairing tyre damage to pneumatic tyres dated 8 February 2001

Combination repair kits

- Repair part, comprising hole filling and repair patch.

3. General requirements

3.1 Each tyre must be removed from the rim prior to repair work to assess the damage and perform the repairs. The exception is those tyres with damage that is clearly just external damage to the tyre...

3.4 The damaged area must be exposed and cleaned with an appropriate tool.

3.5 Damage to the tyre that was treated with emergency repair equipment cannot be repaired.

3.6 It is not permitted to insert a hose without rectifying the damage to the tyre.

4. Performing the repair work

As standard, the damaged duct is filled with raw rubber that is vulcanised using hot or warm vulcanisation. A repair patch is then positioned inside the tyre. A pre-vulcanised rubber body can be used in conjunction with a repair patch to fill the punctured hole caused by stitch damage to the running surface.

The following applies to:

Motorbike tyres

On motorbike tyres, puncture repairs are permitted for damaged areas up to a maximum of 6 mm using combination repair equipment. All tyre repairs outside of the running surface are not permitted on motorbike tyres.

Tyres on passenger cars and trailers

On running surfaces, puncture repairs are permitted for damaged areas up to a maximum of 6 mm using combination repair equipment. Rubber repairs are only permitted in the bead area if the reinforcing materials have not been affected.

C-tyres and tyres with a load-bearing capacity figure < 122 on commercial vehicles and their trailers

On running surfaces, puncture repairs are permitted for damaged areas up to a maximum of 6 mm using combination repair equipment. Rubber repairs are only permitted in the bead area if the reinforcing materials have not been affected.

Tyres with a load-bearing capacity figure ≥ 122 on commercial vehicles and their trailers

On running surfaces, puncture repairs are permitted for damaged areas up to a maximum of 10 mm using combination repair equipment. Rubber repairs are only permitted in the bead areas when the reinforcing materials (carcass or ply end) have not been affected.

Roll-head pry bar

Material: Chrome vanadium

Length	400 mm
Shaft diameter (Ø)	14 mm
Material	Chrome-vanadium steel



Art. no. 0715 74 46

P. Qty.: 1

Hose with quick-connect nipple

For manual tyre inflator

Connection thread	M18 x 1.5
Length	500 mm
Inner hose diameter	6 mm

Art. no. 0715 54 08

P. Qty.: 1



Filling station connector with handle

For manual tyre inflator

Length	350 mm
Suitable for hose internal diameter	6 mm

Art. no. 0715 54 07

P. Qty.: 1



Quick-connect nipple

For quick connection of the manual tyre inflator to the tyre valve.

- Fast sealing with a slight twist of the plug-in nipple

Suitable for hose internal diameter	6 mm
-------------------------------------	------

Art. no. 0715 54 061

P. Qty.: 1



Lever valve plug

For exceptionally high retention force when connecting the manual tyre inflator to the tyre valve.

- Turning the valve lever makes the valve plug particularly suitable for high-pressure operation.

Suitable for hose internal diameter	6 mm
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Art. no. 0715 54 06

P. Qty.: 1



Filling hose with quick-connect nipple

Length	800 mm
Design	With quick-action nipple
Colour	Black

Art. no. 0715 54 057

P. Qty.: 1



Tyre iron with plastic casing

- For damage-free tyre fitting on steel and aluminium rims
- Bolted and replaceable plastic casing

Length	500 mm
Design	Chrome vanadium steel, chrome-plated

Art. no. 0695 326 436

P. Qty.: 1



Tyre iron

Handy, robust and lightweight tyre iron made from chromium-vanadium

Design	Chrome-plated
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Length	Art. no.	P. Qty.
200 mm	0695 325 874	1/5
300 mm	0695 326 061	1/10
400 mm	0695 326 248	1/10
500 mm	0695 326 435	1/10
600 mm	0695 326 622	1/5

Tyre iron

- Material: Chrome vanadium
- Special curved shape for commercial vehicles

Length	600 mm
Design	Chrome vanadium steel, chrome-plated

Art. no. 0695 326 809

P. Qty.: 1



1/2 inch impact socket wrench insert

For gentle installation of alloy rims. Long version with colour coding system. Standard: DIN 3121/ISO 1174

- Version: forged, burnished
- Drive: 1/2 inch, hole for locking pin and groove for O-ring
- Tip: Hexagon, metric, Powerdriv
- Geometry: long
- Plastic sleeve
- Plastic stop inside the socket wrench insert
- Plastic sleeve with colour coding system



POWERDRIV

Drive	1/2 inch
Drive type	Internal square
Tip type	For outer hexagon
Length (L1)	85 mm
Socket wrench depth (t)	22 mm
Design	Forged
Material	Steel
Surface	Burnished
Standards	ISO 1174 DIN 3121

Width across flats	Socket wrench external diameter (D1)	Sleeve inside diameter (d2)	Sleeve outside diameter (d3)	Art. no.	P. Qty.
15 mm	30 mm	22.5 mm	24.8 mm	0714 130 15	1/10
17 mm	30 mm	24.4 mm	26.8 mm	0714 130 17	1/10
19 mm	30 mm	26.5 mm	28.8 mm	0714 130 19	1/10
21 mm	30 mm	28.4 mm	30.7 mm	0714 130 21	1/10
22 mm	32 mm	30 mm	32.6 mm	0714 130 22	1/5

1/2 inch impact socket wrench set

Delivered in a sturdy plastic box

Width across flats	17 x 19 x 21 mm
Number of pieces in assortment/set	3 PCS

Art. no. 0714 130 30

P. Qty.: 1



Contents for art. no. 0714 130 30		
Designation	Art. no.	Quantity
1/2 inch impact socket wrench insert 17 mm	0714 130 17	1
1/2 inch impact socket wrench insert 19 mm	0714 130 19	1
1/2 inch impact socket wrench insert 21 mm	0714 130 21	1

1/2 inch impact socket wrench insert power set

3-piece set comprising impact socket wrench inserts in sizes 17/19/21 with integral reinforcement ring for a longer service life

- Standard: DIN 3121/ISO 1174
- Drive: Hole for locking pin and groove for O-ring
- Geometry: long
- Reinforcement ring for long service life
- Replaceable plastic sleeve to protect aluminium rims
- Colour-coded socket wrenches



Width across flats	17 x 19 x 21 mm
Number of pieces in assortment/set	3 PCS

Art. no. 0714 134 30

P. Qty.: 1

1/2 inch impact socket wrench insert, extra long set

3 pieces Consisting of the impact socket wrench inserts SW 17/19/21 mm in extra long design.

Width across flats	17 x 19 x 21 mm
Number of pieces in assortment/set	3 PCS

Art. no. 0714 130 300

P. Qty.: 1



Cutting pliers

For plastic pipes up to Ø 22 mm

Max. cutting capacity in plastic hose	22 mm
Length	140 mm



Art. no. 0885 20 02

P. Qty.: 1

Spare blade

For cutting pliers



		Art. no.	P. Qty.
		0885 20 020	2
		0885 20 030	2
		0885 20 050	2

1/4-inch dynamometric screwdriver

Torque screwdriver for controlled clockwise tightening

- Trigger accuracy: $\pm 6\%$ of the set value according to DIN EN ISO 6789:2003, Type II, Class D
- Simple, fast setting of the torque scale without additional tools
- Soft component grip with 1/4-inch square mount at end of grip



Tip size	1/4 inch
Suitable for left-hand tightening	No
Suitable for right-hand tightening	Yes
Length	192 mm

Min./max. torque measuring range	Art. no.	P. Qty.
1-3.5 Nm	0714 71 91	1
4-9 Nm	0714 71 92	1

With calibration certificate and operating instructions, supplied in a plastic box

Tyre pressure monitoring system, tool set

Complete TPMS tool set for correct assembly of tyre-pressure sensors.

For almost all sensors available on the market

Customised tool set

High-precision torque tools

Cover the entire measuring range of 0.25 Nm and 1.0 - 9.0 Nm

Rubber seal tool

No seal damage thanks to gentle tool insert



Number of pieces in assortment/set	14 PCS
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Art. no. 0714 71 900

P. Qty.: 1

Continuation **Tyre pressure monitoring system, tool set**

Contents for art. no. 0714 71 900		
Designation	Art. no.	Quantity
T-handle with square drive		1
1/4" T-handle	0713 110 201	1
1/4" socket wrench insert 11 mm	0713 112 111	1
1/4" socket wrench insert 12 mm	0713 112 112	1
1/4-inch angled extension Length 25 mm	0713 118 100	1
Combination wrench, short type 10 mm; Length 140 mm	0713 301 10	1
Pin punch Width of tip 2 mm	0714 63 25	1
1/4-inch dynamometric screwdriver 1-3.5 Nm	0714 71 91	1
1/4-inch dynamometric screwdriver 4-9 Nm	0714 71 92	1
Torque valve tool	0714 71 95	1
1/4-inch socket wrench insert TX10	0715 113 10	1
1/4-inch socket wrench insert TX15	0715 113 15	1
1/4-inch socket wrench insert TX20	0715 113 20	1
Tyre pressure monitoring system, special tool for rubber seals	0715 54 022	1

Automatic coupling head

With valve

- The ball head is fitted with a valve, which opens when there is pressure on the seal (when coupling). The line is opened and air can flow. When releasing the connection, the line closes again.



Type description	Colour	Thread type x nominal diameter x pitch	Comparison number	Art. no.	P. Qty.
Brake	Yellow	M16 x 1.5	Wabco 952 200 222 0	0885 32 05	1/10
Brake	Yellow	M22 x 1.5	Wabco 452 200 212 0	0885 32 07	1/10
Stock	Red	M16 x 1.5	Wabco 952 200 221 0	0885 32 06	1/10
Stock	Red	M22 x 1.5	Wabco 452 200 211 0	0885 32 08	1/10

Coupling head Standard

- If a brake circuit fails or is defective (e.g. fracture of the line or of the connection), the trailer brake closes - braking is initiated
- Faulty or worn seals can be replaced
- Often used in conjunction with a shut-off valve



Type description	Colour	Thread type x nominal diameter x pitch	Comparison number	Art. no.	P. Qty.
Brake	Yellow	M16 x 1.5	Wabco 952 200 022 0	0885 32 01	1/10
Brake	Yellow	M22 x 1.5	Wabco 452 200 012 0	0885 32 03	1/10
Stock	Red	M16 x 1.5	Wabco 952 200 021 0	0885 32 02	1/10
Stock	Red	M22 x 1.5	Wabco 452 200 011 0	0885 32 04	1/10

Air spiral line, universal

Universal adapter coil system suitable for all vehicles

- Universal coil with adapter system as assortment
- 95% market coverage with 5 adapters
- Easy to connect thanks to connections with moveable union nut
- Longer service life thanks to pressed-in connections
- With weather-resistant plastic anti-kink protection
- Complete with plastic retaining eye for correct mounting of the spiral wire for journeys without trailer
- Colour coding (yellow, red) for black coils to prevent confusion when connecting supply and brake lines



Material	PA - Polyamide
Diameter	110 mm
Connection thread	M18 x 1.5

Working length	Number of windings	Colour	Colour of anti-kink protection	Art. no.	P. Qty.
3 m	16 PCS	Black	Red	0885 30 300	1
3 m	16 PCS	Black	Yellow	0885 30 301	1
3 m	16 PCS	Red	Black	0885 30 302	1
3 m	16 PCS	Yellow	Black	0885 30 303	1
4 m	20 PCS	Black	Red	0885 30 310	1
4 m	20 PCS	Black	Yellow	0885 30 311	1
4 m	20 PCS	Red	Black	0885 30 312	1
4 m	20 PCS	Yellow	Black	0885 30 313	1
4.5 m	22 PCS	Black	Red	0885 30 320	1
4.5 m	22 PCS	Black	Yellow	0885 30 321	1
4.5 m	22 PCS	Red	Black	0885 30 322	1
4.5 m	22 PCS	Yellow	Black	0885 30 323	1

Air line, spiral Compact coil

With a small diameter

- With weatherproof plastic, kink protected and colour-coded (yellow and red)



Material	Polyamide/polyurethane
Working length	4 m
Diameter	60 mm
Number of windings	32 PCS
Colour	Black
Connection thread	M18 x 1.5

Colour of anti-kink protection	Art. no.	P. Qty.
Red	0885 30 360	1
Yellow	0885 30 361	1

For Volvo, Scania, DAF and MAN utility vehicles only.

Brass support sleeve

For pneumatic brake systems in accordance with DIN 74292 to DIN 74326

Surface A2K

Silver-coloured, thick-film passivated (trivalent chromium), film thickness 8–12 µ



Max. working pressure	20 bar
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Suitable for pipe diameter	Connection thread (M)	Connection type	Art. no.	P. Qty.
6 x 1 mm			0884 280 403	10
8 x 1 mm			0884 280 605	10
12 x 1.5 mm	FT M12 x 1.5	Plug-in	0884 280 908	10
15 x 1.5 mm	M15	Plug-in	0884 281 211	10

Straight plug connector

For commercial vehicles

- Quick and easy pipe/hose installation and removal
- Reduced risk of leaks due to fewer components
- Corrosion-resistant brass design
- Saves money thanks to reduction in installation and repair times
- Complies with the international DIN, DOT and SAE regulations
- Operating medium: Compressed air
- Maximum operating pressure and hoses comply with DIN 74324
- Operating temperature: -40°C* to +100°C (* at temperatures below +2°C please observe the air quality)



Material	Brass
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Outer diameter of pipe (T)	Length (L)	Art. no.	P. Qty.
6 mm	35.6 mm	0885 01 6	5/10
8 mm	37.6 mm	0885 01 8	5/10
9 mm	44.1 mm	0885 01 9	5/10
10 mm	44.1 mm	0885 01 10	5/10
11 mm	46.1 mm	0885 01 11	5/10
12 mm	51.1 mm	0885 01 12	5/10
14 mm	50.2 mm	0885 01 14	5/10
15 mm	61.5 mm	0885 01 15	5/10
16 mm	61.5 mm	0885 01 16	5/10

- Screw connectors meet the requirements of DIN 74324
- Screw connectors meet the requirements of the Department of Transport Federal Motor Vehicle Safety Standard (DOT FMVSS 106) and the Society for Automotive Engineers (SAE J1131)
- Screw connectors are TÜV tested and approved for use in pneumatic brake systems
- on commercial vehicles

Above a certain length, pipes „vibrate“, irrespective of whether they are made of steel, copper or plastic. Therefore, all brake line piping (5–16 mm diameter) should be secured on the body or on the frame using pipe clamps, rubberised if possible, wherein the distance should be 1 m and must not exceed 1.20 m.

T-connector

For commercial vehicles

- Quick and easy pipe/hose installation and removal
- Reduced risk of leaks due to fewer components
- Corrosion-resistant brass design
- Saves money thanks to reduction in installation and repair times
- Complies with the international DIN, DOT and SAE regulations
- Operating medium: Compressed air
- Maximum operating pressure and hoses comply with DIN 74324
- Operating temperature: -40°C* to +100°C (* at temperatures below +2°C please observe the air quality)



Material	Brass
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Outer diameter of pipe (T)	Length (L)	Length 2 (L2)	Art. no.	P. Qty.
6 mm	42 mm		0885 02 6	5/10
8 mm	45.6 mm		0885 02 8	5/10
9 mm	54.2 mm	27.1 mm	0885 02 9	5
10 mm	54.2 mm		0885 02 10	5/10
12 mm	64.2 mm		0885 02 12	5/10
15 mm	77 mm		0885 02 15	5

- Screw connectors meet the requirements of DIN 74324
- Screw connectors meet the requirements of the Department of Transport Federal Motor Vehicle Safety Standard (DOT FMVSS 106) and the Society for Automotive Engineers (SAE J1131)
- Screw connectors are TÜV tested and approved for use in pneumatic brake systems
- on commercial vehicles

Above a certain length, pipes „vibrate“, irrespective of whether they are made of steel, copper or plastic. Therefore, all brake line piping (5–16 mm diameter) should be secured on the body or on the frame using pipe clamps, rubberised if possible, wherein the distance should be 1 m and must not exceed 1.20 m.

Plastic plug-in connectors

Straight passage connector for compressed air control lines

- Operating temperature: -20°C to +80°C
- Permissible operating pressure max. 20 bar



Max. working pressure	20 bar
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Outer diameter of pipe (D1)	Outer diameter (G)	Length (L)	Art. no.	P. Qty.
4 mm	8.5 mm	25 mm	0885 01 04	10
5 mm	13.5 mm	41.5 mm	0885 01 05	10
6 mm	10.5 mm	28.5 mm	0885 01 06	10
8 mm	13.5 mm	38 mm	0885 01 08	10

Above a certain length, pipes „vibrate“, irrespective of whether they are made of steel, copper or plastic. Therefore, all pipes should be secured on the body or on the frame using pipe clamps, rubberised if possible, wherein the distance should be 1 m and must not exceed 1.20 m.

Brake ring

Brass with rubber insert

Material	Brass
Design	Rubber ring



Internal diameter (d1)	Outer diameter (d2)	DIN	Nominal size of brake ring	Art. no.	P. Qty.
10 mm	16 mm		12 x 16 mm/10 x 14 mm	0464 12 16	100
12 mm	18 mm		14 x 18 mm/12 x 16 mm	0464 14 18	100
15 mm	22 mm		16 x 22 mm/15 x 19 mm	0464 16 22	100
17 mm	22 mm		18 x 22 mm/17 x 21 mm	0464 18 22	100
22 mm	27 mm	Similar to 7603	22 x 27 mm/20 x 25 mm	0464 22 27	100

Car brake conduit pipe

Piece goods on coil

Pipe-wall thickness	0.7 mm
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Diameter	Material	Surface	Coating thickness	Length	Art. no.	P. Qty.
4.75 mm	Copper-nickel			10 m	0889 047 53	10
4.75 mm	Steel	Polyvinyl fluoride	25 µm	5 m	0889 047 5	5
6 mm	Copper-nickel			10 m	0889 062	10
6 mm	Steel	Polyvinyl fluoride	25 µm	5 m	0889 06	5

- Always use the materials specified by the vehicle manufacturer.
- Mixing designs (e.g. steel polyamide with copper-nickel alloy) is not allowed!

Universal axle sleeve installation set, short

Repair time reduced by up to 50%

Installation without dismantling the cardan and axle joints

Resistant to oil and grease

Easy, cost-saving storage

Bellows with smooth inner surface

Scope of delivery:

- 1 universal axle sleeve
- 1 universal hose clamp, 7.0 x 178 mm
- 1 universal hose clamp, 7.0 x 368 mm
- 1 high-temperature joint grease



Outer diameter	80 mm
Outer diameter 2	20 mm
Length	128 mm
Included in delivery (Lieferumfang)	Universal axle boot, universal hose clamp 7.0x178 mm, universal hose clamp 7.0x368 mm, high-temperature joint grease

Art. no. 0820 550

P. Qty.: 1

Adjustable clamp

For neoprene bellows or other soft materials

- Clamp adjustable to several diameters
- Quick and easy axial or radial mounting



Width	7 mm
Material	Stainless steel

Length	Min. diameter	Max. diameter	Art. no.	P. Qty.
178 mm	25 mm	50 mm	0820 6 50	50
368 mm	40 mm	110 mm	0820 6 110	50

Steel adhesive weight for car aluminium rims

Fingerlift (protrusion on protective film) enables the protective film to be gripped and removed easily, even when wearing gloves.



- No cutting edges on the weight body
Individually detachable weights
- Powder coating
High level of corrosion protection

Weight of balance weight	60 g
Surface	Powder-coated
Suitable for rim type	Aluminium
Length	153 mm
Width	19 mm

Material	Colour	Product weight (per item)	Art. no.	P. Qty.
Steel	Black	58.54 g	0830 14 411	50
Steel/steel	Silver grey	59.45 g	0830 14 410	100

Zinc adhesive weight for car aluminium rims

For cut-off

With powder-coated surface and dark adhesive tape that is thermally stable up to 180 °C.



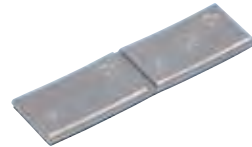
Material	Zinc
Surface	Powder-coated
Suitable for rim type	Aluminium
Colour	Silver grey
Max. temperature resistance	180 °C

Weight of balance weight	Length	Width	Product weight (per item)	Art. no.	P. Qty.
45 g	105 mm	15 mm	44.696 g	0830 14 700	100
45 g	130 mm	19 mm	45.3 g	0830 14 750	100
60 g	153 mm	19 mm	60 g	0830 14 730	100

Car zinc adhesive weight

From the original equipment for VW, Opel and Volvo

Material	Zinc
Surface	Powder-coated
Height	3 mm
Max. temperature resistance	180 °C



Weight of balance weight	Width	Product weight (per item)	Art. no.	P. Qty.
5 g	15 mm	4.92 g	0830 912 5	50
10 g	15 mm	10.04 g	0830 912 10	50
15 g	19 mm	14.94 g	0830 912 15	50

Weight of balance weight	Width	Product weight (per item)	Art. no.	P. Qty.
20 g	19 mm	20.36 g	0830 912 20	50
25 g	19 mm	25.2 g	0830 912 25	50
30 g	19 mm	30.144 g	0830 912 30	50
35 g	19 mm	35.34 g	0830 912 35	50
40 g	19 mm	40.24 g	0830 912 40	50
45 g	19 mm	45.794 g	0830 912 45	50
50 g	19 mm	49.288 g	0830 912 50	50
55 g	19 mm	55.688 g	0830 912 55	50
60 g	19 mm	58.72 g	0830 912 60	50

The weights are 3.8 mm thick (including adhesive tape) and 19 mm wide

Steel adhesive weight for cars

On a roll for cut-off

- With galvanized and additionally powder-coated surface and dark adhesive tape that is thermally stable up to 180°C
- Time savings, as no need to search for and sort out individual weights
- 1000 x 5 g segments (5 kg)



Weight of balance weight	5 g
Material	Steel/plastic
Surface	Powder-coated
Suitable for rim type	Aluminium
Length	12.75 m
Width	19 mm
Height	3.8 mm
Colour	Silver grey
Max. temperature resistance	180 °C
Product weight (per item)	5088 g

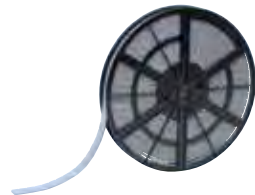
Art. no. 0830 14 415

P. Qty.: 1

Zinc adhesive weight for cars

On a roll for cut-off

- With powder-coated surface and dark adhesive tape that is thermally stable up to 180°C
- Time savings, as no need to search for and sort out individual weights
- 1000 x 5 g segments (5 kg)



Material	Zinc
Surface	Powder-coated
Suitable for rim type	Aluminium
Width	19 mm
Height	4 mm
Max. temperature resistance	180 °C
Product weight (per item)	5210.5 g

Continuation **Zinc adhesive weight for cars**

Art. no. 0830 14 735

P. Qty.: 1

Zinc impact balance weight for car aluminium rims

In bulk pack

- Type 62 Z
- Universal weight with silver-grey powder coating
- Proven track record



Material	Zinc
Surface	Powder-coated
Suitable for rim type	Aluminium
Colour	Silver grey

Weight of balance weight	Product weight (per item)	Art. no.	P. Qty.
5 g	5.392 g	0830 062 05	500
10 g	9.832 g	0830 062 10	500
15 g	14.768 g	0830 062 15	500
20 g	19.632 g	0830 062 20	250
25 g	24.668 g	0830 062 25	250
30 g	29.772 g	0830 062 30	250
35 g	34.755 g	0830 062 35	200
40 g	40.235 g	0830 062 40	200
45 g	45.125 g	0830 062 45	200
50 g	50.07 g	0830 062 50	100
55 g	55.28 g	0830 062 55	100
60 g	60.79 g	0830 062 60	100

A maximum of two hard blows should be applied for installation. Increasing the number of blows may damage the coating on the weights.

Zinc impact balance weight for car steel rims

With innovative geometry for installation that is even quicker and easier

Type 133 ZL

Universal application on almost all steel rims

thanks to installation groove

Clear, visual differentiation

possible for impact weights for car aluminium rims



Material	Zinc
Surface	Flake zinc silver
Suitable for rim type	Steel
Colour	Silver coloured

Weight of balance weight	Length	Product weight (per item)	Art. no.	P. Qty.
5 g	17 mm	5.105 g	0830 86 05	100
10 g	21 mm	9.85 g	0830 86 10	100
15 g	33 mm	14.982 g	0830 86 15	100
20 g	40 mm	19.452 g	0830 86 20	100
25 g	50 mm	24.909 g	0830 86 25	100
30 g	60 mm	29.559 g	0830 86 30	100
35 g	70 mm	34.308 g	0830 86 35	50
40 g	80 mm	39.42 g	0830 86 40	50
45 g	90 mm	44.228 g	0830 86 45	50
50 g	100 mm	49.252 g	0830 86 50	50
55 g	110 mm	54.732 g	0830 86 55	50
60 g	120 mm	58.018 g	0830 86 60	50

A maximum of two hard blows should be applied for installation. Increasing the number of blows may damage the coating on the weights.

Zinc safety spoke weight, Mercedes Benz

OEM quality

- Specifically developed to meet the vehicle manufacturer's requirements
- 5 and 10 g weights are manufactured from plastic (PP)



Colour	Silver grey
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Weight of balance weight	Material	Surface	Product weight (per item)	Art. no.	P. Qty.
5 g	PP - Polypropylene	Plain	2.092 g	0830 75 5	100
10 g	Zinc	Plain	6.68 g	0830 75 10	100
15 g	Zinc	Powder-coated	11.586 g	0830 75 15	100
20 g	Zinc	Powder-coated	17.32 g	0830 75 20	100
25 g	Zinc	Powder-coated	21.761 g	0830 75 25	100
30 g	Zinc	Powder-coated	26.53 g	0830 75 30	100
35 g	Zinc	Powder-coated	31.74 g	0830 75 35	100
40 g	Zinc	Powder-coated	35.929 g	0830 75 40	100
45 g	Zinc	Powder-coated	41.522 g	0830 75 45	50
50 g	Zinc	Powder-coated	46.4 g	0830 75 50	50
55 g	Zinc	Powder-coated	52.058 g	0830 75 55	50
60 g	Zinc	Powder-coated	56.658 g	0830 75 60	50

Safety spoke weights are supplied without springs. The springs must be ordered separately depending on the application (steel or aluminium rims).

Please note: 2-piece safety spoke weights are not approved on all aluminium rims. If adhesive weights are prescribed, we recommend the use of art. no. 0830 912...

Spring DC steel wheel

For safety spoke weights made from zinc for Mercedes-Benz steel rims, coated

Franken comparison no.: 75-2

Material	Spring steel
Surface	Powder-coated
Suitable for rim type	Steel
Colour	Black
Product weight (per item)	3.098 g



Art. no. 0830 75 02

P. Qty.: 100

Zinc impact balance weight for car steel rims

With black powder coating for black steel rims

Type 84 B

Universal application on almost all steel rims

thanks to the special shape of the weight.

Clear differentiation

possible for impact weights for car aluminium rims



Material	Zinc
Surface	Powder-coated
Suitable for rim type	Steel
Colour	Black

Weight of balance weight	Length	Product weight (per item)	Art. no.	P. Qty.
5 g	17 mm	4.96 g	0830 85 05	100
10 g	21 mm	10.06 g	0830 85 10	100
15 g	33 mm	14.86 g	0830 85 15	100
20 g	40 mm	19.54 g	0830 85 20	100
25 g	50 mm	24.84 g	0830 85 25	100
30 g	60 mm	29.84 g	0830 85 30	100
35 g	70 mm	36.28 g	0830 85 35	50
40 g	80 mm	39.28 g	0830 85 40	50
45 g	90 mm	45.68 g	0830 85 45	50
50 g	100 mm	51.04 g	0830 85 50	50

A maximum of two hard blows should be applied for installation. Increasing the number of blows may damage the coating on the weights.



Zinc impact balance weight for car steel rims

Universal weight with silver-grey powder coating

- Type 80 Z
- Proven track record

Suitable for rim type	Steel
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Weight of balance weight	Material	Surface	Colour	Product weight (per item)	Art. no.	P. Qty.
5 g	Spring steel	Zinc plated		4.849 g	0830 80 5	100
5 g	Zinc	Powder-coated	Silver grey	4.96 g	0830 80 05	100
10 g	Zinc	Powder-coated	Silver grey	10.72 g	0830 80 10	100
15 g	Zinc	Powder-coated	Silver grey	15.132 g	0830 80 15	100
20 g	Zinc	Powder-coated	Silver grey	20.49 g	0830 80 20	100
25 g	Zinc	Powder-coated	Silver grey	25.52 g	0830 80 25	100
30 g	Zinc	Powder-coated	Silver grey	30.46 g	0830 80 30	100
35 g	Zinc	Powder-coated	Silver grey	35.82 g	0830 80 35	100
40 g	Zinc	Powder-coated	Silver grey	39.91 g	0830 80 40	100
45 g	Zinc	Powder-coated	Silver grey	43.7 g	0830 80 45	50
50 g	Zinc	Powder-coated	Silver grey	51.04 g	0830 80 50	50
55 g	Zinc	Powder-coated	Silver grey	55.14 g	0830 80 55	50
60 g	Zinc	Powder-coated	Silver grey	60 g	0830 80 60	50

Zinc impact balance weight for car steel rims

In bulk pack

- Type 80 Z
- Universal weight with silver-grey powder coating
- Proven track record



Material	Zinc
Surface	Powder-coated
Suitable for rim type	Steel

Weight of balance weight	Colour	Product weight (per item)	Art. no.	P. Qty.
5 g	Silver grey	4.746 g	0830 080 05	500
10 g	Silver grey	10.184 g	0830 080 10	500
15 g	Silver grey	15.6 g	0830 080 15	500
20 g	Silver grey	19.388 g	0830 080 20	250
25 g	Silver grey	25.492 g	0830 080 25	250
30 g	Silver grey	30.876 g	0830 080 30	250
35 g	Silver grey	35.795 g	0830 080 35	200
40 g	Silver grey	40.835 g	0830 080 40	200
45 g	Silver grey	45.19 g	0830 080 45	200
50 g	Silver grey	49.76 g	0830 080 50	100
55 g	Signal grey	56.14 g	0830 080 55	100
60 g	Silver grey	60.09 g	0830 080 60	100

A maximum of two hard blows should be applied for installation. Increasing the number of blows may damage the coating on the weights.

Zinc impact balance weight for car aluminium rims

Universal weight with silver-grey powder coating

- Type 62 Z
- Proven track record



Surface	Powder-coated
Suitable for rim type	Aluminium
Colour	Silver grey

Weight of balance weight	Material	Product weight (per item)	Art. no.	P. Qty.
5 g	Spring steel	5 g	0830 62 5	100
5 g	Zinc	4.938 g	0830 62 05	100
10 g	Zinc	9.702 g	0830 62 10	100
15 g	Zinc	14.932 g	0830 62 15	100
20 g	Zinc	19.89 g	0830 62 20	100
25 g	Zinc	25 g	0830 62 25	100
30 g	Zinc	30.135 g	0830 62 30	100
35 g	Zinc	34.049 g	0830 62 35	100
40 g	Zinc	38.949 g	0830 62 40	100
45 g	Zinc	43.488 g	0830 62 45	50
50 g	Zinc	48.258 g	0830 62 50	50
55 g	Zinc	54.16 g	0830 62 55	50
60 g	Zinc	59.16 g	0830 62 60	50

A maximum of two hard blows should be applied for installation. Increasing the number of blows may damage the coating on the weights.

Zinc impact balance weight for car aluminium rims

Universal weight with silver-grey powder coating

Type 63

Material	Zinc
Surface	Powder-coated
Suitable for rim type	Aluminium
Colour	Silver grey



Weight of balance weight	Length	Product weight (per item)	Art. no.	P. Qty.
5 g	17 mm	5 g	0830 65 05	100
10 g		10 g	0830 65 10	100
15 g		15 g	0830 65 15	100
20 g		19.24 g	0830 65 20	100
25 g		25.14 g	0830 65 25	100
30 g		29.34 g	0830 65 30	100
35 g		34.48 g	0830 65 35	50
40 g		40.48 g	0830 65 40	50
45 g		44.48 g	0830 65 45	50
50 g		50.48 g	0830 65 50	50

A maximum of two hard blows should be applied for installation. Increasing the number of blows may damage the coating on the weights.

Steel adhesive weight for car aluminium rims

Fast removal from the vehicle rim leaving no residue

- No cutting edges on the weight body
- Special adhesive tape
- Powder coating



Weight of balance weight	60 g
Material	Steel/steel
Surface	Powder-coated
Suitable for rim type	Aluminium
Length	140 mm
Width	19 mm

Colour	Product weight (per item)	Art. no.	P. Qty.
Black	60.02 g	0830 14 431	100
Silver grey	60.48 g	0830 14 430	100

Zinc impact weight for Transit Type 164

Original Mercedes-Benz part

For steel rims on French vehicles as well as for steel rims on light HGVs where rim material is very thick, such as Ford Transit pre-2013 and VW Crafter



Material	Zinc
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Weight of balance weight	Length	Width	Height	Product weight (per item)	Art. no.	P. Qty.
5 g	17 mm	9 mm	11.5 mm	4.92 g	0830 164 5	100
10 g	17 mm	9 mm	12.2 mm	9.88 g	0830 164 10	100
15 g	25 mm	9 mm	12.2 mm	15.63 g	0830 164 15	100
20 g	33.9 mm	9 mm	12.2 mm	19.74 g	0830 164 20	100
25 g	43.1 mm	9 mm	12.2 mm	24.55 g	0830 164 25	100
30 g	52.2 mm	9 mm	12.2 mm	29.37 g	0830 164 30	100
35 g	61.4 mm	9 mm	12.2 mm	34.2 g	0830 164 35	50
40 g	70.6 mm	9 mm	12.2 mm	38.88 g	0830 164 40	50
45 g	80.1 mm	9 mm	12.2 mm	47.26 g	0830 164 45	50
50 g	89.7 mm	9 mm	12.2 mm	50.9 g	0830 164 50	50
55 g	98.7 mm	9 mm	12.2 mm	54.64 g	0830 164 550	50
60 g	107.6 mm	9 mm	12.2 mm	59.18 g	0830 164 60	50
65 g	76.7 mm	13 mm	14 mm	65 g	0830 164 65	25
70 g	82.6 mm	13 mm	14 mm	70 g	0830 164 70	25
75 g	88.5 mm	13 mm	14 mm	75 g	0830 164 75	25
80 g	94.4 mm	13 mm	14 mm	80 g	0830 164 80	25
85 g	100.4 mm	13 mm	14 mm	86 g	0830 164 85	25
90 g	106.3 mm	13 mm	14 mm	90 g	0830 164 90	25

Steel impact weight for Transit Type 187

Original part of Ford Transit and Ford Transit Custom from 05/2014



Weight of balance weight	Material	Length	Width	Height	Art. no.	P. Qty.
10 g	Iron	33.5 mm	11.5 mm	16 mm	0830 187 10	100
15 g	Iron	33.5 mm	11.5 mm	23.5 mm	0830 187 15	100
20 g	Iron	49.6 mm	11.5 mm	23.2 mm	0830 187 20	100
25 g	Iron	33.56 mm	8.3 mm	12.8 mm	0830 187 250	100
30 g	Iron	40.28 mm	8.3 mm	12.8 mm	0830 187 30	100
35 g	Iron	46.99 mm	8.3 mm	12.8 mm	0830 187 35	50
40 g	Iron	53.7 mm	8.3 mm	12.8 mm	0830 187 40	50
45 g	Iron	60.41 mm	8.3 mm	12.8 mm	0830 187 45	50
50 g	Iron	67.13 mm	8.3 mm	12.8 mm	0830 187 50	50
55 g	Zinc	73.84 mm	8.3 mm	12.8 mm	0830 187 55	50
60 g	Iron	82 mm	8.3 mm	12.8 mm	0830 187 60	50

Adhesive weights for car light metal rims

1000 steel adhesive weights on the roller for cutting off

- No need to search and sort out single weights
- Adhesive tape with fingerlift for rapid release of single weights
- Zinc plated and additionally powder-coated surface

Weight of balance weight	5 g
Material	Steel
Surface	Powder-coated
Suitable for rim type	Aluminium
Length	12.75 m
Width	19 mm
Height	3.8 mm
Colour	Black
Max. temperature resistance	180 °C
Design	Roll
Product weight (per item)	5 kg



Art. no. 0830 14 445

P. Qty.: 1

Tyre profile depth gauge

- Sturdy design
- Fast and precise measurement of the profile depth

Min./max. length measuring range	0-30 mm
Vernier scale	1/10 mm
Material	Brass
Product weight (per item)	44 g



Art. no. 0879 999

P. Qty.: 1

Car rubber valve snap-in

With laser-marked manufacture date on the valve stem

Manufactured in accordance with DIN 7780

100% leak tested by manufacturer

Example of laser-marked manufacturing date on valve body:

W4511 stands for Würth, calendar week 45 in 2011



Continuation **Car rubber valve snap-in**

Length (L)	Suitable for rim-hole diameter	Suitable for min. rim thickness	Suitable for max. rim thickness	Max. air pressure	Art. no.	P. Qty.
33 mm	11.3 mm	1.8 mm	4 mm	4.5 bar	0879 412	100
42.5 mm	11.3 mm	1.8 mm	4 mm	4.5 bar	0879 413	100
42.5 mm	15.7 mm				0879 415	100
48.5 mm	11.3 mm	1.8 mm	4 mm	4.5 bar	0879 414	100
61.5 mm	11.3 mm	1.8 mm	4 mm	4.5 bar	0879 418	100

When stored in accordance with DIN 7716, we recommend installing the rubber valves within 24 months of manufacture. It is essential to ensure correct installation with a suitable tool (valve mounting lever, art. no. PR01_071554_04) and sufficient lubrication (tyre mounting paste, art. no. PR01_08901241 or art. no. PR01_08901221)

Speed restriction:

- For tyres without inner tubes on cars, at speeds of >210 km/h (V, W, Y or ZR) metal valves (clamp-in) or valve supports should be used to restrict the valve deflection to a max. angle of 25°.
- In a few cases, the rim design already ensures that the max. valve deflection is not exceeded. (This must be checked in each individual case by the user).

Car rubber valve, snap-in eco

With laser-marked manufacture date on the valve stem



- Manufactured in line with E.T.R.T.O. (European Tyre and Rim Technical Organisation)
- Example of a lasered manufacturing date on valve body: 4511 stands for calendar week 45 in 2011
- Partial assembly (TM) saves time and money
- Additional seal created by nickel-plated brass valve cap with seal (MK)

Suitable for rim-hole diameter	11.3 mm
Suitable for min. rim thickness	1.8 mm
Suitable for max. rim thickness	4 mm
Max. air pressure	4.5 bar
Max. speed	210 km/h

Length (L)	Material	Art. no.	P. Qty.
42.5 mm		0879 041 33	1000
42.5 mm		0879 413 2	100
42.5 mm	Rubber	0879 041 3	100
48.5 mm		0879 041 43	1000
48.5 mm		0879 414 2	100
48.5 mm	Rubber	0879 041 4	100
56.5 mm		0879 414 0	100
61.5 mm		0879 041 83	1000
61.5 mm	Rubber	0879 041 8	100

When stored in accordance with DIN 7716, we recommend installing the rubber valves within 24 months of manufacture. It is essential to ensure correct installation using a suitable tool (valve mounting lever, art. no. PR01_071554_04) and sufficient lubrication (tyre mounting paste, art. no. PR01_08901241 or art. no. PR01_08901221)

Speed restriction:

- On tyres without inner tubes on cars driving at speeds of >210 km/h (V, W, Y or ZR), metal valves (clamp-in) or valve supports must be used to restrict valve deflection to a max. angle of 25°.
- In some cases, rim construction already ensures that the max. valve deflection is not exceeded. (This must be checked in each individual case by the user).

Transporter valve

High pressure load-bearing capacity - fits in almost every rim

Highly flexible sealing lip

- Reliable seal

Patented pressure disc with predetermined breaking point

- No special tools required for dismantling
- Prevention of rim damage

Combines the benefits of rubber and metal valves

- Increased pressure load (up to 7 bar)
- Savings of time and effort

Temperature resistant from -40°C to +130°C



Suitable for rim-hole diameter	11.3 mm
Suitable for min. rim thickness	1.8 mm
Suitable for max. rim thickness	4 mm
Max. air pressure	7 bar
Max. speed	210 km/h

Length (L)	Art. no.	P. Qty.
40 mm	0879 60 40	50
47 mm	0879 60 47	50
60 mm	0879 60 60	50

Universal car tyre valve

Suitable for all common LM wheels

Length (L)	42 mm
Suitable for rim-hole diameter	11.3 mm
Suitable for min. rim thickness	1.8 mm
Suitable for max. rim thickness	4 mm
Width across flats (SW)	11 mm
Material	Brass
Surface	Nickel plated
Min./max. recommended tightening torque	4-6 Nm
Material of the washer	PA - Polyamide



Art. no. 0879 563 1

P. Qty.: 10/100

Universal car tyre valve Eco

Suitable for all common LM wheels

With PA disc

Length (L)	42 mm
Suitable for rim-hole diameter	11.3 mm
Suitable for min. rim thickness	1.8 mm
Suitable for max. rim thickness	4 mm
Width across flats (SW)	11 mm
Material	Brass
Surface	Nickel plated



Art. no. 0879 563 10

P. Qty.: 100

Recommended tightening torque 4–6 Nm

Aluminium car tyre valve

Improved material compatibility for aluminium wheels

65% weight saving compared with conventional metal valves

Length (L)	42 mm
Suitable for rim-hole diameter	11.3 mm
Suitable for min. rim thickness	1.8 mm
Suitable for max. rim thickness	4 mm
Width across flats (SW)	11 mm
Material	Aluminium



Colour	Surface	Art. no.	P. Qty.
	Plain	0879 563 2	10
Black	Anodised	0879 563 25	10

Recommended tightening torque 3–5 Nm

Adhesive weight for trucks and buses with lightweight alloy rims

Balance counterweight for wheel

Material	Lead
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Weight of balance weight	Art. no.	P. Qty.
50 g	0832 551 50	10
100 g	0832 551 100	10
125 g	0832 551 125	10
150 g	0832 551 150	10
175 g	0832 551 175	10
250 g	0832 551 250	10

Car wheel nut

For Toyota

Thread type x nominal diameter x pitch (G)	M12 x 1.5
Material	Steel



Height (H)	Width across flats (SW)	Property class	Surface	Corresponds to original spare part number	Art. no.	P. Qty.
15 mm	19 mm	10	Zinc nickel	5114405	0362 122 15	50
15 mm	19 mm	10	Zinc plated	1470843	0362 120 15	50
16 mm	21 mm	8	Zinc plated yellow	060326161 MA103087 909420100783 51732885 90473457 4342386G00	0362 112 15	100

Observe tightening torques specified by the vehicle manufacturers.

Snow chain ICE Cargo

Pattern chain for use with medium to heavy trucks

- Diamond pattern chain
- Hardened, galvanized snow chain with D-shaped cross-section
- Tensioned with side chain and tightening lever
- Side rings simplify guiding the tensioning chain
- Approved and certified in line with Austrian standard 5119 and TÜV



Type description	Ice Cargo
Diameter	7.5 mm
Material	Steel

Size	Product weight (per item)	Art. no.	P. Qty.
295	14000 g	5215 029 580	1
315	14100 g	5215 031 570	1
315	15200 g	5215 031 580	1
385	16300 g	5215 038 565	1

- Maximum speed with snow chains 50 km/h
- Winter equipment requirements for trucks: Winter tires from 01/11 to 15/4.
- Snow chain requirements: From 01/11 to 15/4.

Snow chain ICE Cargo Profi

Individual cross connector for easy and light installation.

- Attachment system with interior side chain for reliable operation even in the toughest of conditions
- Diamond pattern chain
- D-shape, hardened, galvanized snow chain
- Tensioning with side chain and tightening lever
- Approved and certified in line with Austrian standard 5119 and TUV



Type description	Ice Cargo Profi
Diameter	7.5 mm
Material	Steel

Size	Product weight (per item)	Art. no.	P. Qty.
315	15200 g	5215 131 580	1
315	20000 g	5215 131 570	1
385	16300 g	5215 138 565	1

- Maximum speed with snow chains 50 km/h
- Winter equipment requirements for trucks: Winter tires from 01/11 to 15/4.
- Snow chain requirements: From 01/11 to 15/4.

Plastic extension for tyre valve

Length	115 mm
Comparison number	38.2605, 2190-115
Material	Plastic
Max. length	97.5 mm



Art. no. 0879 74

P. Qty.: 10

Tyre valve extension

Shatterproof and pressure-free for trucks, transporters and buses

- Pressure-free thanks to remote actuation
- Flexible and shatterproof thanks to a multi-layer design (can be used without rim clamps)
- No need to remove hub caps on single wheels
- Used by Daimler as an aftersale product



No damage caused by breaking off or wearing through and becoming porous when shatterproof and pressureless extensions are used

- Less tire wear and fuel consumption
- Lower risk of accidents
- Shorter repair times

Length	Art. no.	P. Qty.
75 mm	0879 66 75	10
105 mm	0879 66 105	10
145 mm	0879 66 145	10
185 mm	0879 66 185	10

Safety:

- For vehicles with hub caps, the hub caps must be removed in order to check the tyre pressure. This leads to the tyre pressure of such vehicles not being checked very often
- For vehicles with twin tyres, regular and safety-relevant pressure checking often cannot be performed on inner twin tires due to a broken plastic extension, loose hose extension or even missing valve extension. This results in a greater risk of accidents and increased tyre wear.

Costs:

Did you know that loss in pressure of just 0.5 bar in tyres driven 100,000 km results in an additional consumption of 875 litres and reduces the service life of tyres by more than a third?

Service life:

A deviation of just 0.6 bar from the ideal air pressure reduces the service life of tyres by 45%. In this case, the vehicle must have its tyres changed at a workshop almost twice as often as is actually necessary. If accidents occur due to insufficient tyre pressure, this translates to even longer downtimes.

Conclusion:

The new tyre valve extension solves the problems described here! They are extremely stable, flexible, shatterproof and can be used on almost any vehicle. Tyre pressure checking is streamlined as a result, which means they pay for themselves after just a few kilometres of driving.

Short valve insert

Resistant to high temperatures

Length	19 mm
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Art. no. 0879 44

P. Qty.: 100



Label sleeve For tyre tags

Suitable for storing wheels upright and on sides.

Colour	Transparent
Length	177 mm
Width	139 mm
Material	Plastic



Art. no. 0824 010 110

P. Qty.: 100

Insertion sleeves

For reinforcing tube walls if they are too thin.

Material	Brass
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Suitable for	Suitable for hose internal diameter	Art. no.	P. Qty.
Pipe diameter 4 x 0.85 mm	2.3 mm	0884 604 603	25/100/500
Pipe diameter 6 x 1.25 mm	3.5 mm	0884 606 613	25

Straight connector, insertable

For central lubrication unit

Material	Brass
Surface	Nickel plated



Suitable for hose external diameter	Art. no.	P. Qty.
4 mm	0884 604 110	10
6 mm	0884 606 110	10

The straight connectors for 4-mm and 6-mm pipe diameters are suitable for use in the low-pressure range only.

Freely rotatable joint, insertable

For central lubrication unit

- The screw-in threads are tapered and thus self-sealing.
- The size of screw-in thread depends on the lubrication point/manifold point.

Suitable for hose external diameter	6 mm
Material	Brass
Surface	Nickel plated



Connection thread (d2)	Art. no.	P. Qty.
M6 x 1 tapered	0884 600 113	10
M8 x 1 tapered	0884 600 114	10
M10 x 1 tapered	0884 600 115	10
R 1/8 inch tapered	0884 600 116	10

The rotary joints for 4-mm and 6-mm pipe diameters are suitable for use in the low-pressure range only.

Tyre repair system Pneusil

Quick and easy repair means the tyre can be re-used immediately

- Mushroom-shaped repair unit suitable for radial and diagonal tyres with or without tubes (tubeless)
- Can be used up to and including speed code „V“ (up to 240 km/h)
- The repair units are processed in conjunction with high-strength vulcanising cement
- Repair from the inside alone offers maximum levels of quality, reliability and safety



Type	Max. hole diameter	Shaft diameter	Disc diameter	Art. no.	P. Qty.
WP3	3 mm	4 mm	20 mm	0879 92 03	40
WP6	6 mm	7 mm	40 mm	0879 92 06	24
WP10	10 mm	12 mm	90 mm	0879 92 10	10

Please consider the legal instruction at the beginning of this chapter.

Continuing to drive with a flat tyre until the vehicle comes to a complete standstill can cause considerable damage to the structure of the tyre. Only specialist checking of the inner tyre can enable an assessment to be made as to whether the tyre can be repaired and, if so, with which repair system. The tyre must therefore always be removed from the rim - safety depends on this!

Pneusil repair set

Cabinet dimensions: 495 x 355 x 195 mm

Content:

- 40 Pneusil WP 3
- 48 Pneusil WP 6
- 1 HM cutter 3 mm
- 1 HSS cutter 6 mm
- 1 sanding block
- 1 press-on roller
- 1 vulcanising cement



Number of pieces in assortment/set	93 PCS
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Art. no. 0964 879

P. Qty.: 1

Contents for art. no. 0964 879		
Designation	Art. no.	Quantity
Tyre repair system Pneusil	0879 92 03	40
Tyre repair system Pneusil	0879 92 06	48
HM cutter	0879 93 03	1
HSS cutter	0879 93 06	1
Abrasive block	0879 93 20	1
Press-on roller	0879 93 30	1
Vulcanising cement	0890 100 017	1

Tyre pressure monitoring system EZ sensor® 2.0 with rubber valve

Programmable tyre pressure monitoring sensor, covers almost all original sensors

- Reduced purchasing cost and optimised storage
- Supports the position-dependent pressure value display in the vehicle, thus fully compatible with the latest OE sensor position determination
- Fulfils OEM requirements (developed according to the quality and functional standards of original equipment manufacturers)
- Developed and tested for the majority of aluminium and steel rims from OEMs and aftermarket



Electronic ID can be copied from an original sensor to the spare sensor in connection with iQ 50

No need for repeated learning-in on the vehicle in the case of complete wheels (winter tyre set)

Sensor can be programmed as often as required

Remote programming thanks to wheels that are already fitted using iQ 50, enabling a „neutral“ preparation of complete wheels

Valve angle	10 Degree
Material of the valve	Rubber
Suitable for valve-hole diameter	11.3 mm
Transmission frequency	433.92 MHz
Max. speed	210 km/h
Tightening torque – screw according to manufacturer's specifications incl. tolerance	1.4 Nm
Min./max. pressure measuring range	0-5.5 bar
Type of rechargeable battery/battery	Lithium
Number of rechargeable batteries/batteries	1 PCS
Rechargeable battery/battery permanently installed	Yes

Art. no. 0879 960 021

P. Qty.: 1



For each tyre change, use a new rubber valve and valve insert and screw, and keep to the specified tightening torques.

Works with the programming and diagnostics tool iQ 50 from WOW!.

Tyre pressure monitoring system EZ-Sensor® 2.0 with aluminium valve, fixed

Programmable tyre pressure monitoring sensor, covers almost all original sensors

- Reduced purchasing cost and optimised storage
- Supports the position-dependent pressure value display in the vehicle, thus fully compatible with the latest OE sensor position determination
- Fulfils OEM requirements (developed according to the quality and functional standards of original equipment manufacturers)
- Developed and tested for the majority of aluminium and steel rims from OEMs and aftermarket



Electronic ID can be copied from an original sensor to the spare sensor in connection with iQ 50

No need for repeated learning-in on the vehicle in the case of complete wheels (winter tyre set)

Sensor can be programmed as often as required

Remote programming thanks to wheels that are already fitted using iQ 50, enabling a „neutral“ preparation of complete wheels

Valve angle	10 Degree
Material of the valve	Aluminium
Suitable for valve-hole diameter	11.3 mm
Transmission frequency	433.92 MHz
Max. speed	250 km/h
Tightening torque – screw according to manufacturer's specifications incl. tolerance	1.4 Nm
Tightening torque – union nut according to manufacturer's specifications incl. tolerance	8 Nm
Min./max. pressure measuring range	0-7.5 bar
Type of rechargeable battery/battery	Lithium
Number of rechargeable batteries/batteries	1 PCS
Rechargeable battery/battery permanently installed	Yes

Art. no. 0879 960 022

P. Qty.: 1



For each tyre change, use a new rubber valve and valve insert and screw, and keep to the specified tightening torques.

Works with the programming and diagnostics tool iQ 50 from WOW!.

Tyre pressure monitoring system EZ-Sensor® 2.0 with aluminium valve, variable

Programmable tyre pressure monitoring sensor, covers almost all original sensors



- Reduced purchasing cost and optimised storage
- Supports the position-dependent pressure value display in the vehicle, thus fully compatible with the latest OE sensor position determination
- Fulfils OEM requirements (developed according to the quality and functional standards of original equipment manufacturers)
- Developed and tested for the majority of aluminium and steel rims from OEMs and aftermarket

Electronic ID can be copied from an original sensor to the spare sensor in connection with iQ 50

No need for repeated learning-in on the vehicle in the case of complete wheels (winter tyre set)

Sensor can be programmed as often as required

Remote programming thanks to wheels that are already fitted using iQ 50, enabling a „neutral“ preparation of complete wheels

Min. valve angle	0 Degree
Max. valve angle	40 Degree
Material of the valve	Aluminium
Suitable for valve-hole diameter	11.3 mm
Transmission frequency	433.92 MHz
Max. speed	300 km/h
Tightening torque – screw according to manufacturer's specifications incl. tolerance	0 Nm
Tightening torque – union nut according to manufacturer's specifications incl. tolerance	8 Nm
Min./max. pressure measuring range	0-7.5 bar
Type of rechargeable battery/battery	Lithium
Number of rechargeable batteries/batteries	1 PCS
Rechargeable battery/battery permanently installed	Yes

Art. no. 0879 960 023

P. Qty.: 1



For each tyre change, use a new rubber valve and valve insert and screw, and keep to the specified tightening torques.

Works with the programming and diagnostics tool iQ 50 from WOWI.

Tyre pressure monitoring system sensor sens.it RS3

Programmable tyre pressure monitoring sensor, covers almost all original sensors

- Reduced purchase cost and optimised storage
- Used in almost all steel and aluminium wheels thanks to patented ball joint design



Electronic ID can be copied from an original sensor to the sens.it sensor in connection with iQ 50

No need for repeated teach-in on the vehicle in the case of complete wheels (winter tyre set)

Sensor can be programmed as often as required

Remote programming thanks to wheels that are already fitted using iQ 50, enabling a „neutral“ preparation of complete wheels

Min. valve angle	12 Degree
Max. valve angle	40 Degree
Suitable for valve-hole diameter	11.3 mm
Transmission frequency	433.92 MHz
Max. speed	250 km/h
Tightening torque – screw according to manufacturer's specifications incl. tolerance	3.3 Nm
Tightening torque – union nut according to manufacturer's specifications incl. tolerance	3.3 Nm
Min./max. pressure measuring range	0-8 bar
Type of rechargeable battery/battery	Lithium
Number of rechargeable batteries/batteries	1 PCS
Rechargeable battery/battery permanently installed	Yes

Art. no. 0879 962 003

P. Qty.: 1



Sensor supplied without valve. For each tyre change, replace the valve and adhere to the manufacturer's specified tightening torques. Works with the programming and diagnostics tool iQ50 from WOW!

Valve for spare sensor (EZ sensor®) with metal valve

Material of the valve	Brass
Max. speed	250 km/h
Tightening torque – screw according to manufacturer's specifications incl. tolerance	1.4 Nm
Tightening torque – union nut according to manufacturer's specifications incl. tolerance	8 Nm
Included in delivery (Lieferumfang)	Tightening screw, valve body, union nut, sealing ring, valve cap, valve insert



Continuation **Valve for spare sensor (EZ sensor®) with metal valve**

Suitable for	Art. no.	P. Qty.
EZ-sensor with metal valve 10 degree	0879 961 002	10
EZ-sensor with metal valve 20 degree	0879 961 004	10

Valve for EZ sensor® 2.0 with aluminium valve

Material of the valve	Aluminium
Suitable for	EZ-sensor 2 with metal valve
Tightening torque – union nut according to manufacturer's specifications incl. tolerance	8 Nm



Max. speed	Tightening torque – screw according to manufacturer's specifications incl. tolerance	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
250 km/h	1.4 Nm	Tightening screw, valve body, union nut, sealing ring, valve cap, valve insert	0879 961 022	10
300 km/h	0 Nm	Valve body, union nut, sealing ring, valve cap, valve insert	0879 961 023	10

Aluminium valve

For sens.it sensor, RS3 433 MHz

Proven quality as used for original equipment.

Patented ball joint design

Allows this valve/sensor version to be used in almost all steel and aluminium wheels available on the market

Aluminium alloy with permanent corrosion protection

Additional anodised coating

Equivalent to today's original sensors in terms of functionality and quality



Material of the valve	Aluminium
Max. speed	250 km/h
Tightening torque – screw according to manufacturer's specifications incl. tolerance	3.3 Nm
Tightening torque – union nut according to manufacturer's specifications incl. tolerance	3.3 Nm
Included in delivery (Lieferumfang)	Valve body with seal, hex. nut, valve cap, M5 screw, mounting pin

Colour	Art. no.	P. Qty.
Silver, Aluminium coloured	0879 963 001	1
Black	0879 963 002	1



Vehicle battery charger

High-performance battery charger with active inverter technology. Expert 12/24 V - 35 A

- Powerful and compact battery charger with active inverter technology for use in workshops
- Automatic voltage detection
- Robust metal housing with rubber edge protection

Min. charging voltage	12 V/DC
Max. charging voltage	24 V/DC
Charging current	35 A
Min./max. rechargeable battery/battery capacity	45-200 Ah
Power rating	1120 W
Charging characteristics	IUoU
IP protection class	IP 40/IP 44
Length (battery charging cable with terminals)	5 m
Length x width x height	270 x 168 x 100 mm
Product weight (per item)	4217 g
Colour	Silver coloured

Art. no. 0510 955 604

P. Qty.: 1

Vehicle battery charger

Powerful battery charger with active inverter technology for use during diagnostics and software updates.
Professional 6/12/24 V - 35 A

- Powerful battery charger with active inverter technology for use in workshops during diagnostics and software updates.
- Animated LCD
- Automatic voltage detection



Min. charging voltage	6 V/DC
Max. charging voltage	24 V/DC
Charging current	35 A
Min./max. rechargeable battery/battery capacity	3-350 Ah
Charging characteristics	IUoU
IP protection class	IP 40/IP 44
Length (battery charging cable with terminals)	2.5 m
Cable cross section	10 mm ²
Length x width x height	270 x 168 x 100 mm
Product weight (per item)	3695 g

Art. no. 0510 955 607

P. Qty.: 1

Recommended charging technology and used by well-known automotive manufacturers: Porsche, Mercedes-Benz (cars+trucks), Hyundai, Opel/GM, Fiat Group, Renault trucks, Volvo trucks, Scania, DAF, MAN

Battery charger, 12 V, 100 A, 20–1200 Ah

Multi-function device for battery and vehicle electrical system voltage support, as well as for charging and recharging starter batteries without disconnecting from the vehicle electrical system voltage.

Suitable for vehicles with 12 V batteries

Motorcycles, passenger cars, vans, agricultural machinery, emergency vehicles, construction machinery

Revives severely discharged batteries

>2V (automatic SOS recovery)

Carries out automatic cell balancing



Frequency	50 Hz
Max. charging voltage	14.8 V/DC
Charging current	100 A
Min./max. rechargeable battery/battery capacity	20-1200 Ah
Power rating	1600 W
Rechargeable battery/battery designation	12 V lead-acid batteries (open, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+)
Charging characteristics	IUoU
IP protection class	IP 21
Cable length	2.5 m
Fully insulated charging terminals	Yes

Length (battery charging cable with terminals)	5 m
Cable cross section	16 mm ²
Product weight (per item)	8340 g
Colour	Silver coloured, Light grey, similar to RAL 7035
Spark protection	Yes
Reverse-polarity protection	Yes

Art. no. 0510 955 710

P. Qty.: 1

Charging curves

- 4 pre-programmed charging curves
- Own/vehicle manufacturers load curve can be configured and entered.

Battery charger, 12 V, 25 A, 30–500 Ah

Multi-function device for workshop use. Supports battery and vehicle electrical system, also for charging and recharging starter batteries without disconnecting from the vehicle electrical system

Suitable for vehicles with 12 V lead-acid batteries

For example: Motorcycles, passenger cars, vans, agricultural machinery, emergency vehicles, construction machinery

Revives severely discharged batteries with a residual voltage > 2 V

Removable rubberised mounting hook for flexible and safe use on the vehicle



Frequency	50 Hz
Power supply voltage	13.7 V
Min. charging voltage	2 V
Max. charging voltage	14.7 V
Charging current	25 A
Min./max. rechargeable battery/battery capacity	30-500 Ah
Power rating	412 W
Rechargeable battery/battery designation	12 V lead-acid batteries (open and maintenance-free, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+)
Charging characteristics	7-step fully automatic charging characteristic
IP protection class	IP 20
Cable length	2.5 m
Fully insulated charging terminals	Yes
Length (battery charging cable with terminals)	3 m
Cable cross section	5.3 mm ²
Length x width x height	53 x 98 x 202 mm
Product weight (per item)	2200 g
Colour	Traffic black RAL 9017
Reverse-polarity protection	Yes

Continuation **Battery charger, 12 V, 25 A, 30–500 Ah**

Art. no. 0510 955 750

P. Qty.: 1

Battery charger, 12 V, 32 A, 30–600 Ah BLG 12-32 Showroom

Multi-function device for battery and vehicle electrical system support, as well as for charging and recharging starter batteries without disconnecting from the vehicle electrical system. For the professional presentation of vehicle features in showroom mode.

Suitable for vehicles with 12 V lead-acid batteries

For example: Motorcycles, passenger cars, vans, agricultural machinery, emergency vehicles, construction machinery

Maximises the service life and performance of the battery

Fully-automatic, seven-stage charging cycle avoids battery sulphation and does not require monitoring

Fanless design allows noise-free presentation



Frequency	50 Hz
Power supply voltage	13.7 V
Min. charging voltage	2 V
Max. charging voltage	14.4 V
Charging current	32 A
Min./max. rechargeable battery/battery capacity	30-600 Ah
Power rating	560 W
Rechargeable battery/battery designation	12 V lead-acid batteries (open and maintenance-free, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+)
Charging characteristics	7-step fully automatic charging characteristic
IP protection class	IP 40
Cable length	5 m
Fully insulated charging terminals	Yes
Length (battery charging cable with terminals)	2.5 m
Cable cross section	8 mm ²
Length x width x height	227 x 125 x 62 mm
Product weight (per item)	1700 g
Colour	Traffic black RAL 9017
Reverse-polarity protection	Yes

Art. no. 0510 955 800

P. Qty.: 1

Battery charger, 12/24 V - 15 A, 10–255 Ah

Multi-function device for battery and vehicle electrical system support, as well as for charging and recharging starter batteries without disconnecting from the vehicle electrical system



- Automatic voltage detection
- Suitable for vehicles with 12-V and 24-V lithium and lead-acid batteries
- Charges batteries with a residual voltage of > 1.5 V at 12-V vehicle electrical system voltage and 3.0 V at 24-V vehicle electrical system voltage

Frequency	50 Hz
Charging voltage max. at 12 V	14.4 V
Charging voltage max. at 24 V	28.8 V
Charging current at 12 V	15 A
Charging current at 24 V	15 A
Min./max. rechargeable battery/battery capacity	10-255 Ah
Power rating	450 W
Rechargeable battery/battery designation	12 V lead-acid batteries (open and maintenance-free, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+), 12 V lithium ion battery (LiFePO ₄), 24 V lead-acid batteries (open, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+)
Charging characteristics	IUoU
IP protection class	IP 21
Cable length	2 m
Fully insulated charging terminals	Yes
Length (battery charging cable with terminals)	2 m
Cable cross section	1.5 mm ²
Length x width x height	115 x 180 x 70 mm
Product weight (per item)	8340 g
Colour	Traffic black RAL 9017
Spark protection	Yes
Reverse-polarity protection	Yes

Art. no. 0510 955 821

P. Qty.: 1

Battery charger 12/24 V–35 A, 10–655 Ah

Multi-function device for battery and vehicle electrical system support, as well as for charging and recharging starter batteries without disconnecting from the vehicle electrical system



- Automatic voltage detection
- Suitable for vehicles with 12-V and 24-V lithium and lead-acid batteries
- Charges batteries with a residual voltage of > 1.5 V at 12-V vehicle electrical system voltage and 3.0 V at 24-V vehicle electrical system voltage

Frequency	50 Hz
Charging voltage max. at 12 V	14.4 V
Charging voltage max. at 24 V	28.8 V
Charging current at 12 V	35 A
Charging current at 24 V	35 A
Min./max. rechargeable battery/battery capacity	10-655 Ah
Power rating	1000 W
Rechargeable battery/battery designation	12 V lead-acid batteries (open and maintenance-free, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+), 12 V lithium ion battery (LiFePO4), 24 V lead-acid batteries (open, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+)
Charging characteristics	IUoU
IP protection class	IP 21
Cable length	2 m
Fully insulated charging terminals	Yes
Length (battery charging cable with terminals)	2.5 m
Cable cross section	6 mm ²
Product weight (per item)	8340 g
Colour	Traffic black RAL 9017
Spark protection	Yes
Reverse-polarity protection	Yes

Art. no. 0510 955 841

P. Qty.: 1

Battery charger, 12/24 V–50 A, 10–850 Ah

Multi-function device for battery and vehicle electrical system support, as well as for charging and recharging starter batteries without disconnecting from the vehicle electrical system



- Suitable for vehicles with 12 and 24 V lithium and lead-acid batteries
- Automatic battery and battery voltage detection
- Multi-resonance converter technology for everyday professional workshop use, desulphation mode for refreshing sulphated batteries

Frequency	50 Hz
Charging voltage max. at 12 V	14.8 V
Charging voltage max. at 24 V	29.2 V
Charging current at 12 V	50 A
Charging current at 24 V	50 A
Min./max. rechargeable battery/battery capacity	10-850 Ah
Power rating	1600 W
Rechargeable battery/battery designation	12 V lead-acid batteries (open and maintenance-free, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+), 12 V lithium ion battery (LiFePO ₄), 24 V lead-acid batteries (open, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+)
Charging characteristics	IUoU
IP protection class	IP 21
Cable length	2 m
Fully insulated charging terminals	Yes
Length (battery charging cable with terminals)	5 m
Cable cross section	10 mm ²
Product weight (per item)	7099 g
Colour	Traffic black RAL 9017
Spark protection	Yes
Reverse-polarity protection	Yes

Art. no. 0510 955 850

P. Qty.: 1

Battery charger, 12/24 V–120 A, 20–1500 Ah

Multi-function device for battery and vehicle electrical system support, as well as for charging and recharging starter batteries without disconnecting from the vehicle electrical system



- Suitable for vehicles with 12 and 24 V lithium and lead-acid batteries
- Automatic battery and battery voltage detection
- Multi-resonance converter technology for everyday professional workshop use, desulphation mode for refreshing sulphated batteries

Frequency	50 Hz
Charging voltage max. at 12 V	14.8 V
Charging voltage max. at 24 V	29.2 V
Charging current at 12 V	120 A
Charging current at 24 V	60 A
Min./max. rechargeable battery/battery capacity	20-1500 Ah
Power rating	3300 W
Rechargeable battery/battery designation	12 V lead-acid batteries (open and maintenance-free, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+), 12 V lithium ion battery (LiFePO ₄), 24 V lead-acid batteries (open, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+)
Charging characteristics	IUoU
IP protection class	IP 21
Cable length	5 m
Fully insulated charging terminals	Yes
Length (battery charging cable with terminals)	5 m
Cable cross section	25 mm ²
Product weight (per item)	14991 g
Colour	Traffic black RAL 9017
Spark protection	Yes
Reverse-polarity protection	Yes

Art. no. 0510 955 870

P. Qty.: 1

Vehicle battery charger, 12/24 V 8 A Lithium/lead 10–240 Ah

Fully automatic battery charger for charging 12–24 V lead batteries and 12.8 V lithium batteries

- Compact and robust device with dust-proof, splash-proof and UV-resistant housing
- Includes repair mode to recover deeply discharged, sulphated or reduced capacity batteries
- Power supply function for disconnecting the battery from the vehicle without losing important configurations, automatic battery detection and selection of 8 charging modes



Min./max. input voltage	220-240 V
Frequency	50 Hz
Charging voltage max. at 12 V	14.7 V
Charging voltage max. at 24 V	29.4 V
Charging current at 12 V	7.5 A
Charging current at 24 V	3.75 A
Min./max. rechargeable battery/battery capacity	10-240 Ah
Power rating	105 W
Rechargeable battery/battery designation	12 V lithium ion battery (LiFePO ₄), 12 V lead-acid batteries (open, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+), 24 V lead-acid batteries (open, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+)
Charging characteristics	IUoU
IP protection class	IP 65
Cable length	1.8 m
Fully insulated charging terminals	Yes
Length (battery charging cable with terminals)	1.8 m
Cable cross section	1.3 mm ²
Length x width x height	234 x 104 x 64 mm
Product weight (per item)	1080 g
Colour	Black, Anthracite grey
Spark protection	Yes
Reverse-polarity protection	Yes
Approval mark	CE, GS certified safety

Art. no. 0510 955 908

P. Qty.: 1



- Wintering: Special 12 and 24-V charging mode in cold outdoor temperatures
- Storage, exhibition and vehicle handover: Automatic switching to trickle charging with pulsed maintenance charging currents when the battery is charged (12 and 24 V)
- Battery change: Power supply function for battery replacement without data loss

Vehicle battery charger, 12/24 V 15 A Lithium/lead 25-400 Ah

Fully automatic battery charger for charging 12-24 V lead batteries and 12.8 V lithium batteries



- Compact and robust device with dust-proof, splash-proof and UV-resistant housing
- Includes repair mode to recover deeply discharged, sulphated or reduced capacity batteries
- Jump start function for starting an engine with (deeply) discharged batteries

Min./max. input voltage	220-240 V
Frequency	50 Hz
Charging voltage max. at 12 V	14.7 V
Charging voltage max. at 24 V	29.4 V
Charging current at 12 V	15 A
Charging current at 24 V	7.5 A
Power supply voltage	13.6 V
Min./max. rechargeable battery/battery capacity	25-400 Ah
Power rating	200 W
Rechargeable battery/battery designation	12 V lithium ion battery (LiFePO ₄), 24 V lead-acid batteries (open, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+), 12 V lead-acid batteries (open, MF, calcium, VRLA, GEL, AGM fleece, EFB, EFB+)
Charging characteristics	IUoU
IP protection class	IP 44
Cable length	1.8 m
Fully insulated charging terminals	Yes
Length (battery charging cable with terminals)	1.8 m
Cable cross section	3.18 mm ²
Length x width x height	272 x 117 x 72 mm
Product weight (per item)	2164 g
Colour	Black, Anthracite grey
Spark protection	Yes
Reverse-polarity protection	Yes
Approval mark	CE, GS certified safety

Art. no. 0510 955 915

P. Qty.: 1



- Wintering: Special 12 and 24-V charging mode in cold outdoor temperatures
- Storage, exhibition and vehicle handover: Automatic switching to trickle charging with pulsed maintenance charging currents when the battery is charged (12 and 24 V)
- Battery change: Power supply function for battery replacement without data loss

Semi-automatic starter

For petrol and diesel engines up to 2200 cm³ displacement

- Correct polarity indication by LEDs and separate ON/OFF switch lever (semi-automatic)
- Protection against power surges
- Short circuit/overload protection
- Fully insulated, angled solid clamps with highly flexible fully rubberised lines
- Deenergised connection to and disconnection from the vehicle's power system
- LED battery status indicator



Nominal voltage	12 V/DC
Nominal current	600 A
Max. current	1500 A
Rechargeable battery/battery capacity	16 Ah
Wire cross section	35 mm ²
Suitable for max. cubic capacity	2200 cm ³
Cable length	120 cm
Material of the housing	Plastic
Weight	10 kg
Height	430 mm
Width	200 mm
Depth	230 mm

Art. no. 0772 121

P. Qty.: 1

Dekra-tested



Semi-automatic starter

For mobile, mains-independent jump starting of cars with a 12-V electrical system.

- Correct polarity indication by LEDs and separate ON/OFF switch lever (semi-automatic)
- Short circuit/overload protection, protection against power surges
- LED battery status indicator



Nominal voltage	12 V/DC
Nominal current	1200 A
Max. current	3100 A
Rechargeable battery/battery capacity	32 Ah
Wire cross section	35 mm ²
Cable length	120 cm
Material of the housing	Plastic
Weight	18 kg
Height	430 mm
Width	200 mm
Depth	230 mm

Art. no. 0772 122

P. Qty.: 1

Dekra-tested



Not for US trucks

Automatic jump starter

Automatic start function. Starting power not summoned until needed, which means greater starting power.

- For mobile, mains-independent jump starting of cars and light commercial vehicles with a 12-V or 24-V electrical system.
- Fully insulated, angled solid clamps with highly flexible fully rubberised lines
- Deenergised connection to and disconnection from the vehicle's power system



Type description	Jump starter
Min. nominal voltage	12 V/DC
Max. nominal voltage	24 V/DC
Nominal current	1400 A
Max. current	3100 A
Rechargeable battery/battery capacity	32 Ah
Rechargeable battery/battery permanently installed	Yes
Wire cross section	50 mm ²
Suitable for max. cubic capacity	4000 cm ³
Display	LED
Cable length	120 cm
Material of the housing	ABS
Weight	18 kg
Height	430 mm
Width	230 mm
Depth	230 mm

Art. no. 0772 122 42

P. Qty.: 1

Dekra-tested





Automatic jump starter

Automatic start function. Starting power not summoned until needed, which means greater starting power.

- For mobile, mains-independent jump starting of cars and light commercial vehicles with a 12-V or 24-V electrical system
- Automatic polarity reversal protection
- Automatic voltage selection 12 V/24 V (manual voltage selection also possible)

Dekra-tested

Type description	Jump starter
Min. nominal voltage	12 V/DC
Max. nominal voltage	24 V/DC
Rechargeable battery/battery capacity	64 Ah
Rechargeable battery/battery permanently installed	Yes
Wire cross section	50 mm ²
Suitable for max. cubic capacity	12000 cm ³
Display	LED
Cable length	140 cm
Material of the housing	ABS
Weight	38 kg
Height	1000 mm

Width	470 mm
Depth	400 mm

Art. no. 0772 122 44

P. Qty.: 1

Starter cable 25 mm²

Including overload protection

- Fully-insulated plastic clamps up to max. 350-A load
- For petrol engines up to max. 5500 cm³
- For diesel engines up to max. 3000 cm³
- Meets DIN
- With two start-safe boxes (protection against overvoltage, no reverse polarity protection)

Colour	Red, Black
Cable cross section	25 mm ²
Cable length	3.5 m
Max. current	350 A



Art. no. 0772 025 350

P. Qty.: 1

Please observe the enclosed operating instructions.

Starter cable 35 mm²

Including overload protection

- With two start-safe boxes in tough plastic housing
- For petrol engines up to max. 7000 cm³
- For diesel engines up to max. 4000 cm³
- Weight: 4.7 kg
- Fully insulated sheet steel clamps for loads up to max. 600 A
- Complies with DIN
- Comes in a hard-wearing, tear-resistant textile bag

Colour	Red, Black
Cable cross section	35 mm ²
Cable length	4.5 m
Max. current	600 A



Art. no. 0772 035 521

P. Qty.: 1

Please observe the enclosed operating instructions

Truck starter cable 50 mm²

Including overload protection

- With two start-safe boxes in tough plastic housing
- For all HGV engines
- Highly flexible individual lines

Colour	Red, Black
Cable cross section	50 mm ²
Cable length	5 m
Max. current	1000 A



Art. no. 0772 035 520

P. Qty.: 1

Please observe the enclosed operating instructions

Starter cable 35 mm²

Comes in a hard-wearing, tear-resistant textile bag

For petrol engines

up to max. 7000 cm³

For diesel engines

up to max. 4000 cm³

Weight: 4.7 kg

Fully insulated sheet metal clamps for loads up to max. 600 A

In line with DIN

Colour	Red, Black
Cable cross section	35 mm ²
Cable length	4.5 m
Max. current	600 A



Art. no. 0772 035 450

P. Qty.: 1

Please observe the enclosed operating instructions

Loading ramp

For vehicle lifting platforms

Material	Rubber
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Height	Product weight (per item)	Art. no.	P. Qty.
30 mm	13600 g	0715 544 139	1
40 mm	16900 g	0715 544 140	1
50 mm	22100 g	0715 544 141	1

Polyester fabric adhesive tape

Excellent ageing and chemical resistance

- Abrasion and tear resistant
- PVC-compatible

Width	19 mm
Thickness	0.27 mm
Min./max. temperature resistance	-40 to 150 °C
Length	25 m
Colour	Black
Min. longitudinal resistance to tearing	200 N/cm
Elongation at break	20 %
Backing material	Polyester
Adhesive base	Acrylate



Art. no. 0771 100 119

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Polyester fleece adhesive tape

Dampens noise

- High adhesive strength
- Ageing-resistant
- PVC-compatible
- Solvent-free

Width	19 mm
Thickness	0.5 mm
Min./max. temperature resistance	-40 to 105 °C
Length	10 m
Colour	Black
Min. longitudinal resistance to tearing	30 N/cm
Elongation at break	10 %
Backing material	Woven polyester fleece
Adhesive base	Synthetic natural rubber



Art. no. 0771 100 219

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Insulated corrugated pipe

Provides protection against heat, UV radiation, moisture and chemicals.

Resistant to alcohols, greases, mineral oils, diesel fuels and petrol

Colour	Black
Flammability	Self-extinguishing as per UL94 HB
Min./max. temperature conditions	-40 to 120 °C
Material	PA - Polyamide
Halogen-free	Yes
Ultraviolet resistance	Yes

Nominal width	Outer diameter	Internal diameter	Art. no.	P. Qty.
4.5 mm	7.1 mm	5 mm	0771 990 04	100
8.5 mm	11.7 mm	8.4 mm	0771 990 08	50
10 mm	13 mm	9.9 mm	0771 990 10	10/50
13 mm	15.8 mm	12.7 mm	0771 990 13	10/50
17 mm	21.2 mm	16.6 mm	0771 990 17	10/50
22 mm	25.4 mm	21.3 mm	0771 990 22	10/50
32 mm	38.4 mm	32.5 mm	0771 990 32	10/50

Insulated corrugated pipe, slit

Preassembled cable harnesses can be retrofitted in a quick and simple process.

Resistant to alcohols, greases, mineral oils, diesel fuels and petrol



Colour	Black
Design	Slitted
Flammability	Self-extinguishing as per UL94 HB
Min./max. temperature conditions	-40 to 120 °C
Material	PA - Polyamide
Halogen-free	Yes
Ultraviolet resistance	Yes

Nominal width	Outer diameter	Internal diameter	Art. no.	P. Qty.
4.5 mm	7.1 mm	5 mm	0771 990 004	100
8.5 mm	11.7 mm	8.4 mm	0771 990 008	50
10 mm	13 mm	9.9 mm	0771 990 010	10/50
13 mm	15.8 mm	12.7 mm	0771 990 013	10/50
17 mm	21.2 mm	16.6 mm	0771 990 017	10/50
22 mm	25.4 mm	21.3 mm	0771 990 022	10/50

Flexible electrical conduit WFKUS-EM-F-105-H0 Comfort XQ®+

With high-slide inner coating and plastic sheath

- PVC-free
- Time saved when pulling in or sliding in cables and lines
- Enables easy cable pulling, even over longer distances
- One-man installation
- Reduced costs thank to quicker installation times



Colour	Red
Design	Coated
Classification code for electrical conduit	33432
Load force at 5 cm	750 N
Impact resistance at 100 mm	2 kg
Min./max. temperature conditions	-25 to 105 °C
Material	Polyolefin
Flame-retardant	Yes
Halogen-free	Yes
Silicone-free	Yes
Ultraviolet resistance	No

Outer diameter	Internal diameter	Art. no.	P. Qty.
20 mm	13.8 mm	0975 259 720	50
25 mm	17.7 mm	0975 259 725	50
32 mm	23.7 mm	0975 259 732	25

VDE 0605 and DIN EN 61386-22

Continuation **Flexible electrical conduit WFKUS-EM-F-105-H0**

Comfort XQ®+



Film packaging for quicker removal.

Insulated closable corrugated pipe, slit

Preassembled cable harnesses can be retrofitted in a quick and simple process.

Precise overlap of the pipe slitting

- In contrast to the basic slit insulated corrugated pipe.
- No gaps at bends

Wires and conductors remain clean and protected

Resistant to alcohols, greases, mineral oils, diesel fuels and petrol



Colour	Black
Design	Slitted
Flammability	Self-extinguishing in accordance with UL94 V2
Min./max. temperature conditions	-40 to 105 °C
Material	PP - Polypropylene
Halogen-free	Yes
Ultraviolet resistance	Yes

Nominal width	Outer diameter	Internal diameter	Art. no.	P. Qty.
4.5 mm	7.1 mm	4.7 mm	0771 980 004	100
7.5 mm	10.1 mm	6.6 mm	0771 980 007	50
10 mm	13 mm	9.8 mm	0771 980 010	50
13 mm	15.8 mm	12.9 mm	0771 980 013	50
17 mm	21 mm	16.8 mm	0771 980 017	50
19 mm	24 mm	19 mm	0771 980 019	50

Y manifold for insulated corrugated pipe

Colour	Black
Min./max. temperature conditions	-40 to 135 °C
Material	PA - Polyamide



Type description	Diameter of manifold input (ØA)	Diameter of manifold outlet (B)	Diameter of manifold outlet 2 (C)	Art. no.	P. Qty.
13 - 10 - 10	12.4 mm	9.8 mm	9.8 mm	0771 991 300	10
13 - 13 - 10	12.4 mm	9.8 mm	12.4 mm	0771 991 330	10
17 - 10 - 10	16.3 mm	9.8 mm	9.8 mm	0771 991 700	10

Type description	Diameter of manifold input (ØA)	Diameter of manifold outlet (B)	Diameter of manifold outlet 2 (C)	Art. no.	P. Qty.
17 - 13 - 13	16.3 mm	12.4 mm	12.4 mm	0771 991 733	10
17 - 17 - 10	16.3 mm	9.8 mm	16.3 mm	0771 991 770	10
17 - 17 - 13	16.3 mm	16.3 mm	12.4 mm	0771 992 773	10

Not to ADR/GGVs

Plastic end grommet

For rigid electrical installation pipes

- Edge protection - no time-consuming deburring of the electrical conduits required

Min./max. temperature conditions	-40 to 60 °C
Material	LDPE - Low density polyethylene
Flame-retardant	Yes
Halogen-free	Yes



Suitable for pipe (EN)	Colour	Art. no.	P. Qty.
EN 16	Black	0975 265 716	100
EN 16	Light grey RAL 7035	0975 265 416	100
EN 20	Black	0975 265 720	100
EN 20	Light grey RAL 7035	0975 265 420	100
EN 25	Black	0975 265 725	100
EN 25	Light grey RAL 7035	0975 265 425	100
EN 32	Black	0975 265 732	50
EN 32	Light grey RAL 7035	0975 265 432	50
EN 40	Black	0975 265 740	50
EN 40	Light grey RAL 7035	0975 265 440	50
EN 50	Black	0975 265 750	25
EN 50	Light grey RAL 7035	0975 265 450	25
EN 63	Black	0975 265 763	20
EN 63	Light grey RAL 7035	0975 265 463	20

Chassis tie

Round head (outer diameter 25 mm) and hole centring (drill 11–12 mm)

- Can be released again if only tied loosely
- Can be closed on both sides as both sides are toothed
- Weather-resistant, suitable for use outdoors and in sunny locations



Width	7.6 mm
Length (L)	375 mm
Min./max. drill hole diameter	11-12 mm
Material	PA - Polyamide
Min./max. temperature resistance	-40 to 105 °C
Ultraviolet resistance	Yes
Colour	Black

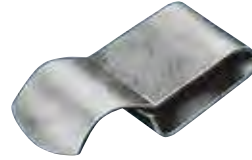
Continuation **Chassis tie**

Art. no. 0502 510

P. Qty.: 100/250

Chassis clamp

Width (B)	12 mm
Material	Spring steel
Surface	Zinc plated



Length 2 (L2)	Length (L1)	Grip length (A)	Thickness (s)	Height (H)	Art. no.	P. Qty.
28 mm	21 mm	15 mm	1 mm	3 mm	0505 28	100/300
43 mm	32 mm	21 mm	1.5 mm	5.5 mm	0505 40	100/300

Braided hose

Can be cut cold — no fraying, no special tool required

- Easy bundling of cables
- Good protection against friction

Colour	Black
Min./max. temperature resistance	-55 to 125 °C
Flammability	Self-extinguishing as per UL94
Material	PA - Polyamide
Halogen-free	Yes



Min./max. diameter	Art. no.	P. Qty.
4-10 mm	0771 500 030	20
10-14 mm	0771 490 012	15
14-24 mm	0771 480 016	15
18-26 mm	0771 470 020	10
26-36 mm	0771 460 030	10
32-44 mm	0771 450 040	5

Fabric shrink hose

Shrink rate 2:1

Tight and flexible

Perfect protection even for tight radii

- Very good heat protector/insulator
- Excellent protection against abrasion and rodents
- Excellent chemical resistance

Colour	Black
Min./max. temperature resistance	-40 to 150 °C



Flammability	Self-extinguishing as per UL94 HB
Material	PES - Polyester
Halogen-free	Yes

Diameter	Diameter (shrunk)	Art. no.	P. Qty.
12 mm	6 mm	0771 550 012	5
25 mm	12 mm	0771 560 025	5
30 mm	15 mm	0771 570 030	5
50 mm	25 mm	0771 590 050	4
70 mm	35 mm	0771 610 070	4

Visual anti-freeze, battery and Ad Blue tester

For reliable testing of coolant anti-freeze, battery acid and AD Blue in one unit

- Simple way to test display accuracy with distilled water
- Automatic temperature compensation between 10°C–30°C
- The exact measuring result is determined by the principle of optical refraction



Min. temperature conditions	-50 °C
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Art. no. 0704 510

P. Qty.: 1

Cooling system tester with inflatable sealing bladder

Universal application for pressure testing on radiator systems thanks to unique sealing system.

- Inflatable sealing bladder for very high coverage of radiator systems
- Universal applications for water-cooled engines
- Securing rings for testing on running engines



Min./max. recommended testing pressure	1-1.6 bar
Max. pressure of bladder	1.7 bar
Max. testing pressure	2 bar
Min./max. radiator opening	20-48 mm

Art. no. 0853 52

P. Qty.: 1

There is a risk of damaging the sealing bladder on extremely sharp-edged radiator necks. Check radiator neck for sharp edges before insertion.

Release tool

For connectors and housings with locking lug



Continuation Release tool



Contact gauge	Width of knife blade	Contact design	Art. no.	P. Qty.
0.63 mm, 1.6 mm	0.7 mm	MQS/Micro - Timer I and ABS housing	0713 558 201	1
0.8 mm	0.9 mm	Ducon	0713 558 221	1
1.5 mm	1.48 mm	LKS (locking lug in housing) with Ford	0713 558 241	1
1.5 mm, 2.8 mm	1.1 mm	Ducon	0713 558 222	1
1.6 mm	0.92 mm	Blade contacts with one locking lug (length of tool blade: approx. 20 mm)	0713 558 240	1
1.6 mm	1 mm	Blade contacts with one locking lug (length of tool blade: approx. 18 mm)	0713 558 202	1
2.8 mm, 5.8 mm	1.58 mm	Junior/Standard Timer, DFK	0713 558 212	1
2.8 mm, 5.8 mm	1.89 mm	Junior/Standard Timer, FASTIN-FASTON	0713 558 213	1
5.8 mm	2.72 mm	Power Quadlok, assorted	0713 558 214	1
6.3 mm	1.2 mm	Pit-Pod, push-on receptacle with one locking lug on the contact and one in the housing (see schematic diagram)	0713 558 230	1

Original Zebra release tools are developed in close cooperation with connector manufacturers and produced in the highest possible quality. This eliminates the risk of damaging housings or connectors and the associated costly downtime.

Release tool

For connectors with two symmetrically arranged locking lugs

- OEM quality
- Made in Germany



Contact gauge	Contact design	Art. no.	P. Qty.
1.5 mm	MCP, MAK	0713 558 321	1
1.5 mm, 2.8 mm	Ducon	0713 558 331	1
1.6 mm	Micro Timer II and III, MFK/MFS	0713 558 311	1
1.65 mm	E-95	0713 558 371	1
2.8 mm	MCP/sensor tab, MAK	0713 558 322	1
2.8 mm	SLK primary and secondary release	0713 558 343	1
2.8 mm	SLK primary release	0713 558 342	1
2.8 mm, 5.8 mm	Blade contacts with two locking lugs	0713 558 352	1
2.8 mm, 5.8 mm	Junior/Standard Power timer, MDK/DFK	0713 558 312	1
4.8 mm, 6.3 mm	Ducon	0713 558 333	1
4.8 mm, 6.3 mm	MCP, MAK	0713 558 323	1

Contact gauge	Contact design	Art. no.	P. Qty.
8 mm	BUP 8	0713 558 363	1
9.5 mm	Ducon	0713 558 334	1
9.5 mm	Maxi Power Timer, Maxi-DFK	0713 558 314	1
9.5 mm	MCP, MAK	0713 558 324	1

Original Zebra release tools are developed in close cooperation with connector manufacturers and produced in the highest possible quality. This eliminates the risk of damaging housings or connectors and the associated costly downtime.

Release tool, universal assortment

19 pieces in system case 4.4.2

Art. no. 5964 071 300

P. Qty.: 1



ORSY

Release tool, universal assortment

16 pieces in system case 4.4.2

System dimensions	4.4.2
-------------------	-------

Art. no. 5964 071 301

P. Qty.: 1



ORSY

Universal hook

**For the removal and insertion of seals and O-rings,
ideal for hard-to-reach places**

Material of the grip handle	2-component plastic
-----------------------------	---------------------



Length	Design	Material	Surface	Art. no.	P. Qty.
165 mm	90°	Stainless steel AISI 420	Uncoated	0715 55 342	1
165 mm	Cranked	Stainless steel AISI 420	Uncoated	0715 55 344	1
165 mm	Curved	Stainless steel AISI 420	Uncoated	0715 55 343	1
165 mm	Straight	Stainless steel AISI 420	Uncoated	0715 55 341	1

Continuation **Universal hook**

Length	Design	Material	Surface	Art. no.	P. Qty.
240 mm	90°	Chrome-vanadium steel	Chromed high-gloss satin finish	0715 55 332	1
240 mm	Cranked	Chrome-vanadium steel	Chromed high-gloss satin finish	0715 55 334	1
240 mm	Curved	Chrome-vanadium steel	Chromed high-gloss satin finish	0715 55 333	1
240 mm	Straight	Chrome-vanadium steel	Chromed high-gloss satin finish	0715 55 331	1

Universal hook assortment

4 pieces. For the removal and insertion of seals and O-rings, ideal for hard-to-reach places.

Number of pieces in assortment/set	4 PCS
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Material	Surface	Art. no.	P. Qty.
Chrome-vanadium steel	Chrome plated	0715 55 330	1
Stainless steel AISI 420	Uncoated	0715 55 340	1

Crimping pliers With integrated locator

TE Superseal 1.5 Series

- Crimping tool exclusively for processing cable connectors art. no. 055899579 - 055899584 in conjunction with single wire seals.
- Two crimping points: 0.35–0.5 mm² and 0.75–1.5 mm²



Connector type	TE Super Seal
Min./max. wire cross section	0.35-1.5 mm ²
Number of crimping points	2 PCS
Locator	Yes
Length (L)	190 mm
Material	Tool steel
Surface	Burnished
Material of the grip handle	Plastic

Art. no. 0714 107 130

P. Qty.: 1

Crimping tool compact with parallel loading

For insulated and non-insulated wire end ferrules

Min./max. wire cross section	0.14-16 mm ²
Number of crimping points	1 PCS
Design	Side insertion
Length (L)	176 mm
Material	Tool steel



Surface	Burnished
Material of the grip handle	2-component plastic

Type description	Profile shape	Art. no.	P. Qty.
16/4S Compact	Square	0714 107 142	1
16/6S Compact	Hexagon	0714 107 152	1



Crimping tool with parallel loading

For insulated and non-insulated wire end ferrules

- Automatic setting to the respective crimp diameter
- Ergonomically shaped 2-component handles
- Made in Germany

Number of crimping points	1 PCS
Design	Side insertion
Length (L)	180 mm
Material	Tool steel
Surface	Burnished
Material of the grip handle	2-component plastic

Type description	Min./max. wire cross section	Profile shape	Art. no.	P. Qty.
16/4S	0.08-16 mm ²	Square	0714 107 162	1
10/6S	0.08-10 mm ²	Hexagon	0714 107 171	1

Crimping tool with front loading

For insulated and non-insulated wire end ferrules

- Automatic setting to the respective crimp diameter
- Ergonomically shaped 2-component handles
- Made in Germany



Number of crimping points	1 PCS
Profile shape	Square
Length (L)	190 mm
Material	Tool steel
Surface	Burnished
Material of the grip handle	2-component plastic

Type description	Min./max. wire cross section	Design	Art. no.	P. Qty.
10/4F+S	0.08-10 mm ²	Front insertion, Side insertion	0714 107 181	1
16/4F	0.08-16 mm ²	Front insertion	0714 107 182	1

Crimping tool for uninsulated connectors

Premium manual crimping tool made in Germany

- Compact lightweight design
- With force stop function for reliable crimping (can be unlocked)
- High crimping force thanks to efficient transmission ratios
- Ergonomically shaped 2-component handles



Connector type	Uninsulated connectors
Min./max. wire cross section	0.5-10 mm ²
Number of crimping points	4 PCS
Locator	No
Length (L)	215 mm
Material	Tool steel
Surface	Burnished
Material of the grip handle	2-component plastic

Art. no. 0714 104 111

P. Qty.: 1

Crimping tool for wire end ferrules

Premium manual crimping tool made in Germany

- Compact lightweight design
- With force stop function for reliable crimping (can be unlocked)
- High crimping force thanks to efficient transmission ratios
- Ergonomically shaped 2-component handles
-



Connector type	Wire end ferrules
Locator	No
Length (L)	215 mm

Continuation **Crimping tool for wire end ferrules**

Material	Tool steel
Surface	Burnished
Material of the grip handle	2-component plastic

Min./max. wire cross section	Number of crimping points	Art. no.	P. Qty.
0.25-6 mm ²	5 PCS	0714 107 191	1
10-25 mm ²	3 PCS	0714 107 192	1
35-50 mm ²	2 PCS	0714 107 193	1



Crimping tool for insulated connectors

Premium manual crimping tool made in Germany

- Compact, lightweight design
- With force stop function for reliable crimping (unlockable)
- High crimping force due to efficient transmission ratios

Locator	No
Length (L)	215 mm
Material	Tool steel
Surface	Burnished
Material of the grip handle	2-component plastic

Connector type	Min./max. wire cross section	Number of crimping points	Art. no.	P. Qty.
Isolated crimp cable lugs	0.5-6 mm ²	3 PCS	0714 106 111	1
Isolated crimp cable lugs	10-16 mm ²	2 PCS	0714 106 112	1
Heat shrink crimp connectors	0.5-6 mm ²	3 PCS	0714 106 121	1

Crimping tool for uninsulated flat connectors

Premium manual crimping tool made in Germany

- Compact, lightweight design
- With force stop function for reliable crimping (unlockable)
- High crimping force due to efficient transmission ratios
- Ergonomically shaped 2-component handles



Locator	No
Length (L)	215 mm
Material	Tool steel
Surface	Burnished
Material of the grip handle	2-component plastic

Connector type	Min./max. wire cross section	Number of crimping points	Art. no.	P. Qty.
Uninsulated plug connectors	0.1-2.5 mm ²	4 PCS	0714 104 121	1
Uninsulated plug connectors	0.5-6 mm ²	3 PCS	0714 104 122	1
Rolled connectors	0.14-1.5 mm ²	3 PCS	0714 104 131	1
Modular plug	0.5-2.5 mm ²	4 PCS	0714 104 141	1

Crimping tool Qu 25

For uninsulated cable connectors

- Crimping of uninsulated cable connectors 0.5–2.5 mm²
- Shortening of screws M2.6–M5
- Stripping of cables 0.75–6.0 mm²
- Crimping of ignition line connectors
- Wire cutting function



Min./max. wire cross section	0.5-2.5 mm ²
Length (L)	225 mm
Material	Tool steel
Surface	Burnished
Material of the grip handle	2-component plastic

Art. no. 0714 101 121

P. Qty.: 1

Crimping tool QI 60

For insulated and uninsulated cable connectors

- Crimping of insulated and uninsulated cable connectors 0.5–6.0 mm²
- Shortening of screws M2.6–M5
- Stripping of cables 0.75–6.0 mm²



Min./max. wire cross section	0.5-6 mm ²
Length (L)	235 mm
Material	Tool steel

Surface	Burnished
Material of the grip handle	2-component plastic

Art. no. 0714 101 111

P. Qty.: 1

Crimping tool 360° insertion

For insulated and non-insulated wire end ferrules

- Made in Germany
- 360° pivoting crimp insert with 8 fixing positions
- Large range of cross sections without adjusting the pliers



Type description	16/4/360
Min./max. wire cross section	0.14-16 mm ²
Number of crimping points	1 PCS
Profile shape	Square
Design	360° insertion
Length (L)	190 mm
Material	Tool steel
Surface	Chrome plated
Material of the grip handle	2-component plastic

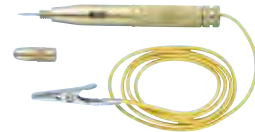
Art. no. 0714 107 183

P. Qty.: 1

Automatic test lamp

Heavy-duty brass design with test probe and protective cap

- With cable (750 mm) and crocodile clip
- Made in Germany



Min./max. voltage range DC	6-24 V/DC
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Art. no. 0695 002 24

P. Qty.: 1/10

Multi-function test lamp

Continuity test and polarity measurement

- Function test of components
- Short-circuit-proof

Min./max. voltage range DC	6-24 V/DC
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Art. no. 0715 53 08

P. Qty.: 1



Car tester

With voltage testing and polarity determination (+/-)

- Four LEDs for voltage and polarity display
- Built-in piercing probe facilitates testing on cables

Length	150 mm
Display	LED
Min./max. voltage range DC	6-48 V/DC
IP protection class	IP 20



Art. no. 0715 53 07

P. Qty.: 1



Not suitable for ABS and airbag

Insulated tapping clips for test leads

Suitable for cable diameters to Ø 4 mm

100% check of penetration depth with centrally-mounted control knob

- Minimum insulation damage
- One-handed operation with no rolling/twisting of the test leads

With 4 mm socket

Permits use of 4 mm test leads

Rated voltage <50 V

Test needle made from stainless steel

Connecting socket diameter	4 mm
Material	Plastic/metal
Max. nominal voltage	50 V/AC/DC



Art. no. 0715 531 011

P. Qty.: 1

Test tips, vehicle, for test leads

- Needle-shaped test tips from spring steel, suitable for making contacts at closed plug connectors from the rear (cable inlet) through the grommet or heat-shrink tubing, hence permitting testing in a connected state or when leads are in operation.
- Test tips are compatible with all 4-mm test leads
- Rated voltage 1000 V CAT II 10 A

Connecting socket diameter	4 mm
Max. nominal current	20 A
Max. nominal voltage	1000 V/AC/DC
Overvoltage protection category	CAT II/1000 V



Art. no. 0715 531 001

P. Qty.: 1

Spiral wire 7-pin 24V

With plastic connector

Increased protection against contamination and water ingress

thanks to moulded plastic connector

Complete with connector

- Wire cross sections: 6 x 1.0 mm², 1 x 1.5 mm²



Working length	3500 mm
Coil diameter	40 mm
Material	Polyurethane
Material of the plug connector	Plastic
Cable type	2 x 7-pin 24 V
Nominal voltage	24 V/DC

Design	ISO	Art. no.	P. Qty.
Type N	3731, 1185	0510 956 05	1
Type S	1185, 3731	0510 956 06	1

Complies with ISO 1185 or ISO 3731

Spiral wire 15-pin 24 V

Complete with connector

Nominal voltage	24 V/DC
ISO	12098



Working length	Coil diameter	Material	Art. no.	P. Qty.
4000 mm	60 mm	Polyurethane	0510 950 286	1
4500 mm	100 mm	PA - Polyamide	0510 950 285	1

ADR-approved

TÜV-certified

Complies with ISO 12098

Adaptor 15-pin to 2 x 7-pin Standard 24V

2 x 7-core spiral wire polyurethane (PU)
7-pin connector N and S-version, moulded plastic, watertight

9 crimp contacts on 15-pin end

Wire cross sections per spiral: 6 x 1.0 mm², 1 x 1.5 mm²

Connection

- On towing vehicle/trailer
 - 15-pin socket
 - 2x7-pin socket



Working length	4000 mm
ISO	12098

Art. no. 0510 950 280

P. Qty.: 1

Contact assignment according to ISO 12098

EBS spiral wire 7-pin 24V

For brake systems

Complete with connector

Cable type	2 x EBS 7-pole 24 V
Nominal voltage	24 V/DC
ISO	7638



Working length	Coil diameter	Material	Art. no.	P. Qty.
4000 mm	60 mm	Polyurethane	0510 950 71	1
4500 mm	100 mm	PA - Polyamide	0510 950 70	1

ADR-approved

TÜV-certified

Complies with ISO 7638

13-pin socket 12V

With cut-off contact for rear fog light

Delivery includes rubber base

13-pin system

- Bayonet connector system
- Operating temperature: -40°C to +85°C
- Current rating: max. 25 A (with 2.5 mm² wire)
- Marking of contacts complies with ISO 11446
- Screw contacts resistant to higher pulling loads



Material	Plastic
Contact design	Screw contact
Material of the contacts	Copper-zinc alloy
Max. current	25 A

IP protection class	IP 54
ISO	11446

Art. no. 0555 313 1

P. Qty.: 2

Complies with ISO 11446

Protection class IP 54

13-pin connector 12V

Threaded connection with rubber seal

Offers protection against water splashes and dirt

A threaded connection is suitable for 9.0 mm to 11.5 mm diameter cables

With bayonet connector system

Marking of contacts complies with ISO 11446

Screw contacts resistant to higher pulling loads

Operating temperature: -40°C to +85°C

Current rating: Max. 25 A (with 2.5 mm² wire)



Material	Plastic
Contact design	Screw contact
Material of the contacts	Copper-zinc alloy
Max. current	25 A
Min./max. cable diameter	9-11.5 mm
ISO	11446

Art. no. 0555 313 0

P. Qty.: 2

Complies with ISO 11446

Short adapter Mini 13-pin to 7-pin 12V

Simple, quick and clean solution

Lower weight burden from sockets and connectors

Connection

- 13-pin socket on towing vehicle
- 7-pin connector on trailer

Length	6 cm
Nominal voltage	12 V/DC
IP protection class	IP 54
ISO	1724, 11446



Art. no. 0555 313 4

P. Qty.: 1

Protection class in fitted state: IP 54

7-pin end complies with ISO 1724 respectively

13-pin end complies with ISO 11446 respectively

Only the functions 1 to 7 that comply with ISO 1724 or ISO 11446 can be connected

7-pin socket 12 V

With cut-off contact for rear fog light

Rear fog light is switched off on the towing vehicle as soon as a trailer is hitched up

7-pin system:

- The recess in the cover holds the connector in the socket
- Screw contacts resistant to higher pulling loads
- Operating temperature: -25°C to +75°C
- Marking of contacts complies with ISO1724
- Current rating: Max. 25 A (with 2.5 mm² wire)



Contact design	Screw contact
Material of the contacts	Copper-zinc alloy
ISO	1724

Material	Art. no.	P. Qty.
Aluminium	0555 305 118	5
Plastic	0555 405 118	5

Complies with ISO 1724 (N-version)

7-pin connector 12 V

Threaded connection with rubber seal provides protection against splash water and dirt

A threaded connection is suitable for 9.2 mm to 11.5 mm diameter cables

Aluminium version with cable pull load relief

7-pin system:

- The recess in the cover holds the connector in the socket
- Screw contacts resistant to higher pulling loads
- Operating temperature: -25°C to +75°C
- Marking of contacts complies with ISO1724
- Current rating: Max. 25 A (with 2.5 mm² wire)



Contact design	Screw contact
Material of the contacts	Copper-zinc alloy
ISO	1724

Material	Art. no.	P. Qty.
Aluminium	0555 305 517	5
Plastic	0555 405 517	5

Complies with ISO 1724 (N-version)

7-pin socket 24V

General data:

- N-version complies with ISO 1185
- S-version complies with ISO 3731
- Marking of contacts complies with ISO 1185 or ISO 3731
- Contact no. 1/31 as bush or pin prevents interchanging of N and S-version

Current rating max.: 25 A (with 2.5 mm² wire), 16 A (with 1.5 mm² wire)

Delivery includes rubber grommet



Material of the housing	Plastic
Material of the lid	Aluminium
Material of the contacts	Copper-zinc alloy
Nominal voltage	24 V/DC

Contact design	Design	Colour	Contact type number (1/31)	ISO	Art. no.	P. Qty.
Push-on contact	Type N	Black	Pin	1185	0555 306 287	1
Push-on contact	Type S	White	Sleeve	3731	0555 306 288	1
Screw contact	Type N	Black	Pin	1185	0555 506 411	1
Screw contact	Type S	White	Sleeve	3731	0555 506 412	1

7-pin connector 24 V

With additional pull load relief

- Marking of contacts as per ISO 1185 or ISO 3731
- Contact no. 1/31 as bush or pin prevents the interchanging of the N and S versions
- Grommets are suitable for cables from 9.5 mm² in diameter
- Current rating max.: 25 A (with 2.5 mm² wire), 16 A (with 1.5 mm² wire)



Contact design	Screw contact
Material of the contacts	Copper-zinc alloy
Nominal voltage	24 V/DC

Material of the housing	Design	Colour	Contact type number (1/31)	ISO	Art. no.	P. Qty.
Aluminium	Type N	Black	Sleeve	1185	0555 305 587	1
Aluminium	Type S	White	Pin	3731	0555 305 588	1
Plastic	Type N	Black	Sleeve	1185	0555 305 687	1
Plastic	Type S	White	Pin	3731	0555 305 688	1

Short adapter 15-pin to 2 x 7-pin 24V

**Contact assignment: 15-pin complies with ISO 12098
/ 7-pin complies with ISO 1185 and 3731**

Straight version

Connection

- On towing vehicle/trailer
 - 15-pin socket
 - 2x7-pin socket



Design	Straight
Length	155 mm
ISO	12098, 1185, 3731

Art. no. 0510 950 290

P. Qty.: 1

Standard cable connecting socket

Version with 4 inlets/outlets, complete with fittings

- Waterproofed housing
- Closing mechanism: 2 clamping bars
- Connection: 2 x cable grommets 1-hole, 2 x cable grommets 2-hole
- Fastening: 2 holes, 5.5 mm, axle spacing 90 mm



Material of the housing	Plastic
Material of the lid	Aluminium
Length	150 mm
Width	93 mm
Height	45 mm

Art. no. 0510 960 01

P. Qty.: 2

15-pin repair socket Easy 24V

Quick and easy installation

Contacts feature screw-type connection for easy attachment and release

No risk of interchanging

No additional instructions needed thanks to marking with standardised cable colours

Contact insert as complete component

- No loss of individual contacts
- No special tools needed for assembly and removal



Suitable for cable diameter	18 mm
Contact design	Screw contact
Design	Lamellar cap
Material of the contacts	Copper alloy
ISO	12098

Art. no. 0510 950 269

P. Qty.: 1

ADR-approved, TÜV-certified, complies with ISO 12098

The requirements according to ADR demand the use of wire end ferrules with screw contacts.

15-pin repair connector Easy 24V

Quick and easy installation

Contacts feature screw-type connection for easy attachment and release

No risk of interchanging

No additional instructions needed thanks to marking with standardised cable colours

Contact insert as complete component

- No loss of individual contacts
- No special tools needed for assembly and removal

Suitable for cable diameter	18 mm
Contact design	Screw contact
Design	Lamellar cap
Material of the contacts	Copper alloy
ISO	12098



Art. no. 0510 950 219

P. Qty.: 1

ADR-approved, TÜV-certified, complies with ISO 12098

The requirements according to ADR require the use of wire end ferrules with screw contacts.

ABS/EBS repair socket Easy 24V

For brake systems

Quick and easy installation

Contacts feature screw-type connection for easy attachment and release

No risk of interchanging

No additional instructions needed thanks to marking with standardised cable colours

Contact insert as complete component

- No loss of individual contacts
- No special tools needed for assembly and removal

Suitable for cable diameter	16 mm
Contact design	Screw contact
Design	Lamellar cap
Material of the contacts	Copper alloy
ISO	7638



Art. no. 0510 950 169

P. Qty.: 1

ADR-approved, TÜV-certified, complies with ISO 7638

Continuation **ABS/EBS repair socket Easy 24V**

The requirements according to ADR require the use of wire end ferrules with screw contacts.

ABS/EBS repair connector Easy 24V

For brake systems

Quick and easy installation

Contacts feature screw-type connection for easy attachment and release

No risk of interchanging

No additional instructions needed thanks to marking with standardised cable colours

Contact insert as complete component

- No loss of individual contacts
- No special tools needed for assembly and removal



Suitable for cable diameter	16 mm
Contact design	Screw contact
Design	Lamellar cap
Material of the contacts	Copper alloy
ISO	7638

Art. no. 0510 950 119

P. Qty.: 1

ADR-approved, TÜV-certified, complies with ISO 7638

The requirements according to ADR require the use of wire end ferrules with screw contacts.

ADR cable connecting socket

ADR-version with 16 inlets/outlets, complete with fittings

Housing material: water-resistant, plastic

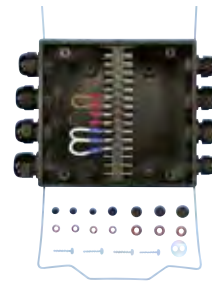
Connection: 10 PG 9 threaded connections, 5 PG13.5 threaded connections, 1 PG16 threaded connection (4 holes can be drilled wider from PG 9/PG13.5 to PG16)

Closing mechanism: 2 spring clips or 4 screws

Fastening: 4 holes 5.5 mm, axis distance 65/110 mm

Included:

- Sealing locks 4 x PG 9, 2 x PG 13.5, 1 x PG 16
- 1 multiple sealing insert
- 4 screws 4 x 20, A2



Material of the lid	Plastic
Material	Plastic
Length	167 mm
Width	157 mm
Height	99 mm
IP protection class	IP 69K

Art. no. 0510 961 16

P. Qty.: 1

Contact pin

With crimp connector

Material: Copper alloy



Wire cross section	Art. no.	P. Qty.
1.5 mm ²	0510 950 392	10
6 mm ²	0510 950 394	10

Contact socket

With crimp connector

Material: Copper alloy



Wire cross section	Art. no.	P. Qty.
1.5 mm ²	0510 950 396	10
2.5 mm ²	0510 950 397	10
6 mm ²	0510 950 398	10

Test box Combi 12V

Checking of trailer connectors and towing vehicle sockets

Overload protection

LED in centre of test box indicates whether test can be performed or whether there is an overload

Operating voltage

12 volt DC / 3 volt DC

Scope of delivery

- Test box with 4.5 m cable and combi-connector
- Short adapter for testing 7-pin trailer connectors
- Lithium button cell 3V CR 2032
- Supplied in practical storage case



Cable length	4.5 m
Min. working temperature	5 °C
Max. working temperature	40 °C
Min. nominal voltage	3 V/DC
Max. nominal voltage	12 V/DC

Continuation **Test box Combi 12V**

Art. no. 0555 772 123

P. Qty.: 1

Complies with ISO 1724, ISO 11446 and ISO 3732

Rubber seal for 7-pin sockets 12V

Material	Rubber
Max. grommet	8 mm

Art. no. 0555 281 061

P. Qty.: 5



Screw-type clamp for MAN

Property class	8.8
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Polarity type	Connection thread	Art. no.	P. Qty.
Minus	M10	0510 18	10
Plus	M12	0510 17	10

Screw-type clamp



Polarity type	Max. wire cross section	Art. no.	P. Qty.
Minus	50 mm ²	0510 2	10/25
Minus	50 mm ²	0510 3	10
Minus	70 mm ²	0510 6	10
Plus	50 mm ²	0510 1	10/25
Plus	50 mm ²	0510 4	10/25
Plus	70 mm ²	0510 7	10

Starter battery DURACELL® EXTREME AGM

Start/Stop specialist

- 3x cycle stability compared to starter batteries
- Entirely maintenance free
- Leak-proof
- Maximum start performance due to low internal resistance
- Maximum vibration resistance V3 (EN 50342-1)
- Installation possible up to max. 90° angle of inclination
- Product identification with UK number and EN/SAE cold cranking amps
- With handle (mG design)



Width	175 mm
Crate height	190 mm
Height	190 mm
Switching	0
Battery design	mG
Floor strip	B13
Terminal	1
Nominal voltage	12 V/DC

Supplier product designation	Type description	ETN number	Housing type	Rechargeable battery/battery capacity	Art. no.	P. Qty.
DE 70 AGM	UK 096 AGM/ SAB 652 AGM/DIN 570 01 AGM	570 901 072	L3	70 Ah	0511 103 001	1
DE 80 AGM	UK 110 AGM/ SAB 668 AGM/DIN 580 01 AGM	580 901 080	L4	80 Ah	0511 103 002	1
DE 92 AGM	UK 019 AGM/ SAB 658 AGM/DIN 592 01 AGM, 595 01 AGM	592 901 085	L5	92 Ah	0511 103 003	1

Starter battery DURACELL® EXTREME EFB

Start/Stop specialist

- 2x cycle stability compared to starter batteries
- Mat overlay on separator and special composition of active compound
- Maximum leak resistance and reliability
- Maximum vibration resistance V3 (EN 50342-1)
- Entirely maintenance free
- Product identification with UK number and EN/SAE cold cranking amps
- With handle and central degassing (mGGA design)



Width	175 mm
Crate height	190 mm
Height	190 mm
Switching	0

Continuation **Starter battery DURACELL® EXTREME EFB**

Battery design	mGGA
Floor strip	B13
Terminal	1
Nominal voltage	12 V/DC

Supplier product designation	Type description	ETN number	Housing type	Rechargeable battery/ battery capacity	Art. no.	P. Qty.
DE 60 EFB	UK 027 EFB/ SAB 646 EFB/ DIN 560 00 EFB	560 500 056	L2	60 Ah	0511 104 001	1
DE 70 EFB	UK 096 EFB/ SAB 652 EFB/ DIN 570 00 EFB	570 500 066	L3	70 Ah	0511 104 002	1

Starter battery DURACELL® ADVANCED

More power and maximum durability

- Optimised cold-start values, maximum starting power
- Entirely maintenance free
- Supports high on-board electrical system currents
- Maximum leak resistance, back ignition and ESD safety
- Vibration-proof thanks to ground bonding of electrodes
- Product identification with UK number and EN/SAE cold cranking amps
- With handle and central degassing (mGGA design)



Nominal voltage	12 V/DC
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Supplier product designation	Type description	ETN number	Housing type	Rechargeable battery/ battery capacity	Art. no.	P. Qty.
DA 40 B	UK 054 BH/ SAB 616H/ DIN 535 04 540 25	540 125 033	35NS	40 Ah	0511 102 001	1
DA 40	UK 054/SAB 616/DIN 535 20 540 26	540 126 033	35NS	40 Ah	0511 102 002	1
DA 40 L	UK 055/SAB 615/DIN 535 22 540 27	540 127 033	35NS	40 Ah	0511 102 003	1
DA 42	UK 202/SAB 617/DIN 540 08 542 08	542 108 039	L0	42 Ah	0511 102 004	1
DA 44	UK 063/SAB 618/DIN 536 46/53 540 45/63 544 09	544 109 042	LB1	44 Ah	0511 102 005	1
DA 45	UK 044/SAB 636B/DIN 545 23/84	545 023 039	45NS	45 Ah	0511 102 006	1
DA 45 L	UK 043/SAB 636C/DIN 545 24/51	545 024 039	45NS	45 Ah	0511 102 007	1

Supplier product designation	Type description	ETN number	Housing type	Rechargeable battery/ battery capacity	Art. no.	P. Qty.
DA 50	UK 012/SAB 612/DIN 544 59 545 59 550 03	550 103 045	L1	50 Ah	0511 102 008	1
DA 60	UK 005L/SAB 621/DIN 560 68 565 33	560 068 051	D23	60 Ah	0511 102 009	1
DA 60 L	UK 005R/SAB 622/DIN 560 69 565 34	560 069 051	D23	60 Ah	0511 102 010	1
DA 60 T	UK 075/SAB 628/DIN 54519 555 19 560 09 562 05	560 409 054	LB2	60 Ah	0511 102 011	1
DA 62 H	UK 027/SAB 646/DIN 555 59 562 19	562 019 055	L2	62 Ah	0511 102 012	1
DA 63 H	UK 027/SAB 646/DIN 555 59 562 19 563 40	563 040 060	L2	63 Ah	0511 102 013	1
DA 70	UK 068/SAB 639/DIN 560 48 570 29 580 09	570 029 060	D26	70 Ah	0511 102 014	1
DA 70 L	UK 069/SAB 638/DIN 560 49 570 24	570 024 060	D26	70 Ah	0511 102 015	1
DA 72	UK 100/SAB 651/DIN 563 18 564 20 566 13/18 570 44 571 13 572 09 574 05	572 409 066	LB3	72 Ah	0511 102 016	1
DA 74	UK 096/SAB 652/DIN 566 38 572 12 574 12	574 012 068	L3	74 Ah	0511 102 017	1
DA 80	UK 110/SAB 668/DIN 575 39 580 14/35/42	580 014 070	LB4	80 Ah	0511 102 018	1
DA 95	UK 249/SAB 650S/DIN 595 04 600 32	595 404 074	D31	95 Ah	0511 102 019	1
DA 95 L	UK 250/SAB 650R/DIN 595 05 600 33	595 405 074	D31	95 Ah	0511 102 020	1
DA 95 H	UK 019/SAB 658/DIN 588 27 595 21/33	595 033 078	L5	95 Ah	0511 102 021	1
DA 100	UK 019/SAB 658/DIN 588 27 595 21/33 600 40/44	600 040 082	L5	100 Ah	0511 102 022	1
DA 110	UK 020/SAB 658EX/DIN 610 42	610 042 085	L6	110 Ah	0511 102 023	1



Starter battery DURACELL® STARTER

Reliable and high-quality

- Reliable cold start behaviour
- 4-chamber flat lid with integrated backfire protection
- Completely maintenance-free
- Optimum price-quality ratio
- Product identification with UK no. and EN/SAE cold start current
- With handle and central degassing

Terminal	1
Nominal voltage	12 V/DC

Supplier product designation	Type description	ETN number	Housing type	Rechargeable battery/battery capacity	Art. no.	P. Qty.
DS 44	UK 063/SAB 619/DIN 544 09	544 109 036	LB1	44 Ah	0511 101 001	1
DS 45	UK 048/SAB 620/DIN 545 77	545 077 030	E2	45 Ah	0511 101 002	1
DS 45 H	UK 012/SAB 612/DIN 545 59	545 059 040	L1	45 Ah	0511 101 012	1
DS 45 L	UK 049/SAB 620L/DIN 545 79	545 079 030	E2	45 Ah	0511 101 003	1

Supplier product designation	Type description	ETN number	Housing type	Rechargeable battery/battery capacity	Art. no.	P. Qty.
DS 55	UK 065/SAB 628/DIN 555 19	555 119 045	LB2	55 Ah	0511 101 004	1
DS 60	UK 075/SAB 628/DIN 560 09 562 05	560 409 048	LB2	60 Ah	0511 101 005	1
DS 62	UK 027/SAB 646/DIN 562 19	562 019 051	L2	62 Ah	0511 101 006	1
DS 70	UK 027/SAB 651/DIN 566 13/18 570 44; 572 09	570 144 064	LB3	70 Ah	0511 101 007	1
DS 72	UK 096/SAB 652/DIN 572 12 574 12	572 012 066	L3	72 Ah	0511 101 008	1
DS 72 L	UK 086/SAB 657/DIN 572 33	572 033 066	L3	72 Ah	0511 101 009	1
DS 88	UK 017/SAB 654/DIN 585 15 588 20	588 120 066	LB5	88 Ah	0511 101 010	1
DS 95	UK 019/SAB 658/DIN 588 27 595 33	595 033 072	L5	95 Ah	0511 101 011	1

Flashing warning lamp, LED, round

LED warning lamp with 16 LEDs. Can be used as a universal all-purpose signal light.

Lithium ion long-life battery

Scope of delivery:

- 100 - 240 V AC charging adapter
- 12 - 24 V DC charging adapter
- USB cable and magnetic mount
- Art. no. 0827559000 red LEDs

9 different operating modes



Power rating	2.6 W
Rechargeable battery/battery designation	Li-Ion
Number of rechargeable batteries/batteries	1 PCS
Length x width x height	105 x 35 x 35 mm

Art. no. 0827 559 000

P. Qty.: 1

The device must not be tampered with. If the lamp is incorrectly assembled, this can affect its watertightness and damage the device.

Turn signal LED 24 V

Universal, with waterproof and dustproof diode block

Long service life

LED technology

Resistant to vibrations

Includes 12 cm cable



Length	136 mm
Width	113 mm
Height	20 mm
Drill hole	6.5 mm
Cable length	12 cm

Art. no. 0812 43 111

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

LED work light

- Far-ranging illumination
- Robust diffusing lens and die-cast aluminium housing

Form	Square
Lamp type	LED
Min./max. nominal voltage	10/50 V/DC
Luminous flux	1300 lm
Cable connection	With cable
Cable length	1.5 m
Power rating	15 W
Length	100 mm
Length x width x height	100 x 100 x 74 mm
Approval mark	ADR
IP protection class	IP 68



Art. no. 0812 45 321

P. Qty.: 1

LED work light MIDI 12V/36V

High-performance headlight with a compact design

Ideal for close-range illumination over a wide area

Up to approx. 50 metres

Outstanding protection against water and dirt

Form	Oval
Lamp type	LED
Min./max. nominal voltage	12/36 V/DC
Luminous flux	1800 lm
Design	Includes bracket and cable 0.5 m
Cable connection	With cable



Cable length	0,5 m
Power rating	20 W
Length	89 mm
Length x width x height	89 x 69 x 78 mm
Included in delivery (Lieferumfang)	Incl. bracket
Approval mark	ADR
IP protection class	IP 6K9K

Art. no. 0812 45 330

P. Qty.: 1

LED work light 4 high-powered LEDs

4 LED with 10 W high power CREE LEDs

- IP 67
- Power consumption: 3 A at 12 V, 1.5 A at 24 V
- Aluminium die-cast housing
- Polycarbonate lens
- 45° floodlight

Form	Square
Lamp type	LED
Min./max. nominal voltage	10/30 V/DC
Luminous flux	3600 lm
Cable connection	With cable
Cable length	0.3 m
Power rating	40 W
Length	110 mm
Length x width x height	110 x 110 x 164 mm
IP protection class	IP 67



Art. no. 0812 45 324

P. Qty.: 1

LED work light 5 high-powered LEDs

5 LED with 3 W power consumption

- IP 67
- Compact flat LED work light with sturdy metal housing
- 500 mm connecting cable

Form	Square
Lamp type	LED
Min./max. nominal voltage	9/32 V/DC
Luminous flux	1200 lm
Cable connection	With cable
Cable length	0.3 m
Power rating	15 W
Length	110 mm



Continuation **LED work light 5 high-powered LEDs**

Length x width x height	110 x 110 x 135 mm
IP protection class	IP 67

Art. no. 0812 45 326

P. Qty.: 1

Rotating/flashing light 12 V/24 V

Dome with bayonet mount

Lamp type	Bulb
Colour	Yellow
Min. nominal voltage	12 V/DC
Max. nominal voltage	24 V/DC



Cable connection	Max. speed	Diameter	Height	Art. no.	P. Qty.
3-screw mount		153 mm	179 mm	0812 42 0	1
Flexible pipe connection mount		149 mm	285 mm	0812 42 01	1
Magnetic mount and plug for cigarette lighter	80 km/h	155 mm	182 mm	0812 42 02	1

Without bulb fitting

Design with magnet attachment subject to speed restrictions

Double flashing beacon, 12 V/24 V

Including xenon lamp

- Dome with bayonet catch

Lamp type	Xenon
Colour	Yellow
Min. nominal voltage	12 V/DC
Max. nominal voltage	24 V/DC
Diameter	123 mm
IP protection class	IP 54



Cable connection	Max. speed	Height	Art. no.	P. Qty.
3-screw mount		154 mm	0812 42 050	1
Flexible pipe connection mount		178 mm	0812 42 051	1
Magnetic mount and plug for cigarette lighter	80 km/h	154 mm	0812 42 052	1

Design with magnet attachment subject to speed restrictions

LED rotating beacon 12V/30V

Extra flat design

10 light patterns

- Continuous light
- Single, double and triple flash
- Rotating, flashing, alternate flashing, all fast or slow

Lamp type	LED
Colour	Yellow
Cable connection	Flexible pipe connection mount
Min. nominal voltage	10 V/DC
Max. nominal voltage	30 V/DC
Diameter	147.2 mm
Height	170.9 mm
IP protection class	IP 66

Art. no. 0812 42 061

P. Qty.: 1

E-tested
R65 and EMC R10-tested



LED rotating beacon 12V/30V

Extra flat design

10 light patterns

- Continuous light
- Single, double and triple flash
- Rotating, flashing, alternate flashing, all fast or slow

Lamp type	LED
Colour	Yellow
Cable connection	3-screw mount
Min. nominal voltage	10 V/DC
Max. nominal voltage	30 V/DC
Diameter	147.2 mm
Height	75.7 mm
IP protection class	IP 67

Art. no. 0812 42 060

P. Qty.: 1

E-tested
R65 and EMC R10-tested



LED rotating beacon 12V/30V

Extra flat design

10 light patterns

- Single, double and triple flash
- Turning, flashing, alternating flash, fast or slow

Lamp type	LED
Colour	Yellow
Cable connection	Magnetic mount and plug for cigarette lighter
Max. speed	80 km/h
Min. nominal voltage	10 V/DC
Max. nominal voltage	30 V/DC
Diameter	147.2 mm
Height	76.9 mm
IP protection class	IP 67



Art. no. 0812 42 062

P. Qty.: 1

E-tested
R65 and EMC R10-tested

Design with magnet attachment subject to speed restrictions

LED contour light 12V/24V

Universal, with flexible pendulum holder

Design	With flexible pendulum holder
Lamp type	LED
Colour of light	Red/white
Cable connection	With cable
Cable length	1.75 m
Min./max. nominal voltage	12/24 V/DC
Power rating	1.5 W
Length	110 mm
Width	41 mm
Height	45 mm
Approval mark	ADR, ECE
IP protection class	IP 68



Art. no. 0812 42 341

P. Qty.: 2

LED contour light with 90° lamp arm 12V/24V

Universal

Top design with clear glass lens

With 3 LED functions:

- Position light
- Tail light
- Side marker light

LED unit fully coated with PUR

If the lens unit is damaged, no moisture penetrates into the contact area



Design	90° lamp arm
Lamp type	LED
Colour of light	Red/white/yellow
Cable connection	With cable
Cable length	1.75 m
Min./max. nominal voltage	12/24 V/DC
Power rating	4 W
Approval mark	ADR, ECE

Art. no. 0812 42 320

P. Qty.: 2

LED contour light with flexible assembly housing 12V/24V

Universal

Top design with clear glass lens

With 3 LED functions:

- Position light
- Tail light
- Side marker light

Fully PUR-coated LED unit

Protects the contact area from the ingress of moisture in the event of damage to the lens

Flexible lamp arm made from heat-resistant rubber material



Design	Flexible attachment housing
Lamp type	LED
Colour of light	Red/white/yellow
Cable connection	With cable
Cable length	1.75 m
Min./max. nominal voltage	12/24 V/DC
Power rating	4 W
Length	100 mm
Height	67 mm
Approval mark	ADR, ECE

Art. no. 0812 42 322

P. Qty.: 2

LED contour light with 90° lamp arm 24V

Universal

Fully PUR-coated LED unit

Protects the contact area from the ingress of moisture in the event of damage to the lens.

Flexible lamp arm made from heat-resistant rubber material



Design	90° lamp arm
Lamp type	LED
Colour of light	Red/white
Cable connection	With cable
Cable length	1.75 m
Nominal voltage	24 V/DC
Power rating	0.85 W
Length	182 mm
Width	46.2 mm
Height	159 mm
Approval mark	ADR, ECE
IP protection class	IP 68

Art. no. 0812 42 301

P. Qty.: 2

White side marked with „White“ inscription on lens.

The lens unit LED also fits the contour lights 081242 20, 081242 30 and 081242 40.

Container warning marking

Type II (reflective)

- Self-adhesive reflective film
- Processing temperature and storage temperature: from 15°C to maximum 30°C



Type description	Type II (reflective)
Width	141 mm
Length	705 mm
Adhesive system	Self-adhesive
Included in delivery (Lieferumfang)	Set consists of 4 right-pointing blanks and 4 left-pointing blanks
Colour	Red, White

Art. no. 0812 44 5

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Marking of containers compliant with Art. 32 (1) StVO (German law regarding obligation to traffic safety due to traffic obstruction) and with Art. 32 VwV StVO (III) (German law regarding requirement of exemption permit)



Vehicle warning marking

Type III (retro-reflective)

- Self-adhesive reflective film, can be removed
- Processing temperature: from 10°C to max. 30°C

Complies with DIN 30710

Type description	Type III (retro-reflective)
Length	9 m
Adhesive system	Self-adhesive
Included in delivery (Lieferumfang)	Set consists of 1 right-pointing roll and 1 left-pointing roll
Material	Reflective tape
Colour	Red, White

Width	Art. no.	P. Qty.
141 mm	0812 44 6	1
282 mm	0812 44 7	1

Please consider the legal instruction at the beginning of this chapter.

Night parking sign

Type III (retro-reflective)

Can be folded vertically and horizontally

Sign can be permanently attached to vehicle and opened out from centre or folded in as required using turn latch

With holes for attachment



Width	285 mm
Height	285 mm
Material	Aluminium
Colour	Red, White

Design	Art. no.	P. Qty.
Folded horizontally: front left-pointing, folded vertically: rear left-pointing	0812 20 1	1
Folded horizontally: rear left-pointing, folded vertically: front left-pointing	0812 20 11	1

Please consider the legal instruction at the beginning of this chapter.

Reflectors and markings may not be covered by the sign

Retro-reflective warning marking for fixed surfaces

Type III (retro-reflective)

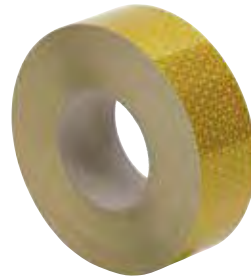
With ECE-approval, can be used without special permit

Complies with ECE 104

Self-adhesive

Very thin single-layer film:

- No damage from water, petrol or high pressure cleaner
- Can be bonded around corners without issue
- No separate sealing of edges necessary



Width	50 mm
Length	50 m

Colour	Art. no.	P. Qty.
Red	0812 44 73	1
White	0812 44 75	1
Yellow	0812 44 71	1

Please consider the legal instruction at the beginning of this chapter.

Retro-reflective warning marking for tarpaulins

Type III (retro-reflective)

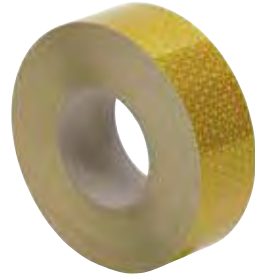
With ECE-approval, can be used without special permit

Complies with ECE 104

Self-adhesive

Very thin single-layer film:

- No damage from water, petrol or high pressure cleaner
- Can be bonded around corners without issue
- No separate sealing of edges necessary



Width	50 mm
Length	50 m

Colour	Art. no.	P. Qty.
Red	0812 44 740	1
White	0812 44 760	1
Yellow	0812 44 720	1

Please consider the legal instruction at the beginning of this chapter.

Warning flag

For platform lifts, type III (retro-reflective)

- Material: Flexible reflective material
- Easy replacement of warning flags with interchangeable holders

Width	250 mm
Height	400 mm
Material	Reflective fabric, flexible
Colour	Red, White



Design	Art. no.	P. Qty.
Left-pointing	0812 44 1	1
Right-pointing	0812 44 2	1

Please consider the legal instruction at the beginning of this chapter.

Contour marking 983 3M Diamond Grade

High-quality contour marking for permanent structures in accordance with UN ECE 104

- Microprismatic films
- Exceptionally good night-time visibility over long distances
- Bright and clear colours, both day and night
- Fluorescent yellow for 24-hour visibility
- Without aluminium coating, no corrosion possible
- Edge-sealed against dirt and damp
- Self-adhesive for simple use



Width	52 mm
Length	50 m

Continuation **Contour marking 983 3M Diamond Grade**

Colour	Art. no.	P. Qty.
Red	5M98 372 55	1
White	5M98 310 55	1
Yellow	5M98 371 55	1

Container reflective tape

Type III - RA2 structure C

Type description	Type III (reflective), microprismatic
Width	141 mm
Length	705 mm
Adhesive system	Self-adhesive
Material	Plastic
Colour	Red, White



Art. no. 0812 44 500

P. Qty.: 10

According to DIN 67520:2011-11 and DIN 6171:2003-08
BASt approval

Marking of containers compliant with Art. 32 (1) StVO (traffic safety obligation due to traffic obstruction) and with Art. 32 VwV StVO1 (III) (exemption permit required)

LED interior light

Universal

- Flat design
- Homogeneous illumination thanks to opal lens
- Switch with touch sensor



Length	305 mm
Width	44 mm
Height	15 mm
Cable length	0.3 m

Nominal voltage	Art. no.	P. Qty.
12 V/DC	0812 42 524	1
24 V/DC	0812 42 523	1

LED reversing light ECE R23 12V/24V

- Approved for side and rear assembly (in accordance with ECE R23)
- Insensitive to strong vibrations

Form	Square
Lamp type	LED



Luminous flux	1300 lm
Cable connection	With cable
Cable length	1.5 m
Min./max. nominal voltage	10/50 V/DC
Power rating	15 W
Length x width	100 x 100 mm
Approval mark	ADR, ECE
IP protection class	IP 68

Art. no. 0812 45 322

P. Qty.: 1

Turn signal and brake light bulb HD Longlife

For heavy-duty commercial vehicle applications

- Heavy-Duty Longlife signifies greater resistance to vibration, with a longer service life than conventional 24V bulbs. These bulbs have been developed to withstand extreme road conditions (vibrations) and have a longer service life.
- Longer service life and thereby reduced frequency of bulb replacement
- Hard wearing helix technology withstands extreme road conditions
- Extreme durability saves costs and prevents downtime
- Available for all light functions



Power rating	21 W
Nominal voltage	24 V/DC

Type description	Socket designation	Art. no.	P. Qty.
P21W HD Longlife	BA15d	0720 132 251	10
P21W HD Longlife	BA15s	0720 132 25	10
PY21W HD Longlife	BAU15s	0720 132 252	10

Turn signal and brake light bulb H21W

Economical bulb for light commercial vehicles 24V

Nominal voltage	24 V/DC
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Continuation **Turn signal and brake light bulb H21W**

Type description	Power rating	Socket designation	Art. no.	P. Qty.
18 W	18 W	BA15s	0720 131 2	10
H21W	21 W	BAY9s	0720 132 20	10
P21W	21 W	BA15s	0720 132 2	10
PY21W	21 W	BAU15s	0720 132 23	10

Brake/tail light bulb P21/5W

Economical bulb for light commercial vehicles 24V

Nominal voltage	24 V/DC
Power rating	21 W
Socket designation	BAY15d
Area of application for vehicle bulb	Turn signal lamp, Brake light, Backup lamp, Rear fog lamp

Art. no. 0720 134 2

P. Qty.: 10



Vehicle bulb Twin spare box

For HGVs and coaches/buses

Nominal voltage	24 V/DC
Length x width x height	200 x 95 x 60 mm



Type description	Included in delivery (Lieferumfang)	Art. no.	P. Qty.
Spare box H4/H4	2 x H4 2 x P21/5W, 2 x P21W, 2 x R5W, 1 x R10W, 1 x C5W, 1 x 10 watt festoon, 1 x W5W, 2 x T4W, ATO fuses (1 x 5 A, 2 x 7.5 A, 2 x 10 A, 2 x 15 A, 1 x 20 A)	0720 962 4	1
Spare box H7/H7	2 x H7 2 x P21/5W, 2 x P21W, 2 x R5W, 1 x R10W, 1 x C5W, 1 x 10 watt festoon, 1 x W5W, 2 x T4W, ATO fuses (1 x 5 A, 2 x 7.5 A, 2 x 10 A, 2 x 15 A, 1 x 20 A)	0720 962 7	1/10
Spare box H7/H7 LL HD	2 x H7 LL HD, 2 x P21/5W, 2 x P21W, 2 x R5W, 1 x R10W, 1 x C5W, 1 x 10 watt festoon, 1 x W5W, 2 x T4W, ATO fuses (1 x 5 A, 2 x 7.5 A, 2 x 10 A, 2 x 15 A, 1 x 20 A)	0720 962 701	1

Glass socket bulb

Economical bulb for light commercial vehicles 24V

Nominal voltage	24 V/DC
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Type description	Power rating	Socket designation	Art. no.	P. Qty.
	1.2 W	W2x4,6d	0720 160 2	10
	2 W	W2,1x9,5d	0720 165 539	10
W3W	3 W	W2,1x9,5d	0720 161 2	10
W5W	5 W	W2,1x9,5d	0720 162 2	10

Halogen bulb

Trusted OEM quality for standard applications

Nominal voltage	24 V/DC
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Type description	Socket designation	Power rating	Power of second spiral coil	Art. no.	P. Qty.
H1	P14s	70 W		0720 111 2	10
H3	PK22s	70 W		0720 112 2	10
H4	P43t	75 W	70 W	0720 110 2	10
H7	PX26d	70 W		0720 114 2	10

Halogen bulb Longlife +100%

For safety conscious drivers

Up to 100% more light on the road in the 50–75m range

- Keeps attention on the road during long trips
- Faster response times to obstacles, risks and signs

Lasts up to two times longer than a standard bulb

Longer change intervals

Nominal voltage	24 V/DC
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Continuation **Halogen bulb Longlife +100%**

Type description	Socket designation	Power rating	Power of second spiral coil	Art. no.	P. Qty.
H1 Longlife +100%	P14,5s	70 W		0720 111 21	10
H3 Longlife +100%	PK22s	70 W		0720 112 21	10
H4 Longlife +100%	P43t	75 W	70 W	0720 110 21	10
H7 Longlife +100%	PX26d	70 W		0720 114 21	10



Halogen bulb Heavy-Duty Longlife

For performance-orientated drivers

Hard wearing helix technology

- Greater resistance to vibration
- Suitable for extreme road conditions

Extremely durable

- Saves money and prevents downtime
- Longer change intervals

Greater resistance to vibration (heavy-duty)

Nominal voltage	24 V/DC
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Type description	Socket designation	Power rating	Power of second spiral coil	Art. no.	P. Qty.
H1 Heavy Duty Longlife	P14,5s	70 W		0720 111 25	10
H3 Heavy Duty Longlife	PK22s	70 W		0720 112 25	10
H4 Heavy Duty Longlife	P43t	75 W	70 W	0720 110 25	10
H7 Heavy Duty Longlife	PX26d	70 W		0720 114 25	10

Metal socket bulb HD Longlife

For heavy-duty commercial vehicle applications

- Heavy-Duty Longlife signifies greater resistance to vibration, with a longer service life than conventional 24V bulbs. These bulbs have been developed to withstand extreme road conditions (vibrations) and have a longer service life.
- Longer service life and thereby reduced frequency of bulb replacement
- Hard wearing helix technology withstands extreme road conditions
- Extreme durability saves costs and prevents downtime
- Available for all light functions



Nominal voltage	24 V/DC
Socket designation	BA15s

Type description	Power rating	Art. no.	P. Qty.
R5W HD Longlife	5 W	0720 140 25	10
R10W HD Longlife	10 W	0720 141 25	10

Metal socket bulb

Economical bulb for light commercial vehicles 24V

Nominal voltage	24 V/DC
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Type description	Power rating	Socket designation	Art. no.	P. Qty.
3 W	3 W	BA7s	0720 155 2	10
R5W	5 W	BA15d	0720 143 2	10
R5W	5 W	BA15s	0720 140 2	10
R10W	10 W	BA15s	0720 141 2	10

Festoon bulb

Economical bulb for light commercial vehicles 24V

Nominal voltage	24 V/DC
Contact length	3.5 mm



Type description	Power rating	Length (A)	Max. width of glass bulb	Socket designation	Art. no.	P. Qty.
	3 W	30 mm	6.3 mm	SV7-8	0720 177 2	10
	5 W	40 mm	11 mm	SV8,5-8	0720 172 2	10
	10 W	40 mm	11 mm	SV8,5-8	0720 173 2	10
	18 W	41 mm	15.5 mm	SV8,5-8	0720 175 2	10
C5W	5 W	35 mm	11 mm	SV8,5-8	0720 171 2	10

Parking light bulb

Economical bulb for light commercial vehicles 24V

Nominal voltage	24 V/DC
Socket designation	BA9s



Type description	Power rating	Art. no.	P. Qty.
	2 W	0720 151 2	10
T4W	4 W	0720 150 2	10

Turn signal and brake light bulb

Economical veh. bulb 12 volt

Nominal voltage	12 V/DC
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Type description	Power rating	Power of second spiral coil	Socket designation	Art. no.	P. Qty.
15 W	15 W		BA15s	0720 130 1	10
18/5W	18 W	5 W	BAY15d	0720 133 1	10
18 W	18 W		BA15s	0720 131 1	10
H21W	21 W		BAY9s	0720 132 10	10
P21/4W	21 W	4 W	BAZ15d	0720 134 11	10
P21/5W	21 W	5 W	BAY15d	0720 134 1	10
P21W	21 W		BA15s	0720 132 1	10
P27/7W	27 W		W2x4,6d	0720 164 11	10
PY21W	21 W		BAU15s	0720 138 3	10

Turn signal and brake light bulb P21W Daylight

For drivers who cover many miles and drivers who use daytime running lights

Lasts up to three times longer than a standard bulb
Longer change intervals

Type description	P21W Daylight
Nominal voltage	12 V/DC
Power rating	21 W
Socket designation	BA15s



Art. no. 0720 132 16

P. Qty.: 10

Small car bulb set

130 pieces

Art. no. 0988 000 248

P. Qty.: 1



Gas discharge light

For xenon-original driver (must be fitted ex works)

100% more light than halogen technology
Easier on the eyes

Higher colour temperatures compared with halogen technology
Arrive more comfortably and without feeling tired
due to improved illumination of the road

Testing voltage	13.5 V/DC
Power rating	35 W



Type description	Socket designation	Colour temperature	Art. no.	P. Qty.
D1S	PK32d-5	4100 K	0720 110 32	1
D2R	P32d-3	4000 K	0720 110 31	1
D2S	P32d-2	4100 K	0720 110 30	1

Operation only with suitable electronic ballast

Glass socket bulb

Trusted OEM quality for standard applications

Nominal voltage	12 V/DC
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Type description	Power rating	Socket designation	Art. no.	P. Qty.
	1.2 W	W2x4,6d	0720 160 1	10
W3W	3 W	W2,1x9,5d	0720 161 1	10
W5W	5 W	W2,1x9,5d	0720 150 11	10
W5W	5 W	W2,1x9,5d	0720 162 1	10
W10/2	2 W	W2,1x9,5d	0720 272 25	10
W16W	16 W	W2,1x9,5d	0720 162 11	10
W21/5W	21 W	W3x16q	0720 163 2	10
W21W	21 W	W3x16d	0720 163 1	10
WY5W	5 W	W2,1x9,5d	0720 271 2	10
WY21W	21 W	W3x16d	0720 163 12	10

Glass socket bulb Daylight

For drivers who cover many miles and drivers who use daytime running lights

Lasts up to three times longer than a standard bulb
Longer change intervals

Type description	W5W Daylight
Nominal voltage	12 V/DC
Power rating	5 W
Socket designation	W2,1x9,5d



Art. no. 0720 162 16

P. Qty.: 10

Halogen bulb

Trusted OEM quality for standard applications

Nominal voltage	12 V/DC
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Continuation **Halogen bulb**

Type description	Socket designation	Power rating	Power of second spiral coil	Art. no.	P. Qty.
H1	P14,5s	55 W		0720 111 1	10
H3	PK22s	55 W		0720 112 1	10
H4	P43t	60 W	55 W	0720 110 1	10
H7	PX26d	55 W		0720 114 1	10
H8	PGJ19-1	35 W		0720 118 008	10
H9	PGJ19-5	65 W		0720 118 009	10
H11	PGJ19-2	55 W		0720 118 011	10
Halogen 9005 HB3	P20d	60 W		0720 110 3	10
Halogen 9006 HB4	P22d	51 W		0720 110 4	10
HS1	PX43t	35 W	35 W	0720 110 185	10

Halogen bulb Vehicle xenon light Ultra

Blueish bright white light for xenon effect

Nominal voltage	12 V/DC
Colour temperature	4200 K



Type description	Socket designation	Power rating	Power of second spiral coil	Art. no.	P. Qty.
H4 xenon light Ultra	P43t	60 W	55 W	0720 110 152	2
H7 xenon light Ultra	PX26d	55 W		0720 114 152	2

Halogen bulb Ultralight +130%

Premium halogen bulb with up to +130% more luminance in an attractive double pack

- For active, safety-conscious drivers
- Very bright, white light
- Improved safety when driving
- Relaxed, fatigue-free driving
- Attractively packaged design for increased POS sales

Nominal voltage	12 V/DC
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Type description	Socket designation	Power rating	Power of second spiral coil	Art. no.	P. Qty.
H1 Ultralight + 130	P14,5s	55 W		0720 111 191	2
H4 Ultralight + 130%	P43t	60 W	55 W	0720 110 191	2
H7 Ultralight + 130	PX26d	55 W		0720 114 191	2

Halogen bulb +50%

For active, safety-conscious drivers

Up to 50% more light on the road in the 50–75m range

Faster response times to obstacles, risks and signs

Arrive more comfortably and without feeling tired

thanks to better illumination of the road

Nominal voltage	12 V/DC
Power rating	55 W



Type description	Socket designation	Art. no.	P. Qty.
H1 + 50%	P14,5s	0720 111 150	10
H7 + 50%	PX26d	0720 114 110	10



Halogen bulb Long-life

For drivers who cover many miles and drivers who use daytime running lights

Lasts up to two times longer than a standard bulb

Longer change intervals

Nominal voltage	12 V/DC
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Type description	Socket designation	Power rating	Power of second spiral coil	Art. no.	P. Qty.
H1 Longlife	P14,5s	55 W		0720 111 14	10
H4 Longlife	P43t	60 W	55 W	0720 110 18	10
H7 Longlife	PX26d	55 W		0720 114 12	10

Halogen bulb Daylight

For drivers who cover many miles and drivers who use daytime running lights

Lasts up to three times longer than a standard bulb
Longer change intervals

Type description	H7 Daylight
Nominal voltage	12 V/DC
Socket designation	PX26d
Power rating	55 W

Art. no. 0720 114 16

P. Qty.: 10



Halogen bulb Xenon light +50%

For drivers who value design but do not want to sacrifice active safety.

Up to 50% more light on the road in the 50–75m range

Faster response times to obstacles, risks and signs

Relaxed driving, free of fatigue

Blue-white light provides relief for eyes

Optimal design with silver cap

Ideal for clear glass headlights

Attractively packaged design for greater sales at the counter

Type description	H1 xenon light + 50%
Nominal voltage	12 V/DC
Socket designation	P14,5s
Power rating	55 W

Art. no. 0720 111 151

P. Qty.: 2



Halogen bulb Nightstar +90%

For active, safety-conscious drivers

- Up to 90% more light on the road in the 50–75m range
- White light provides relief for eyes
- Attractively packaged design for greater sales at the counter

Nominal voltage	12 V/DC
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Continuation **Halogen bulb Nightstar +90%**

Type description	Socket designation	Power rating	Power of second spiral coil	Art. no.	P. Qty.
H1 Nightstar plus 90	P14,5s	55 W		0720 111 190	2
H4 Nightstar plus 90	P43t	60 W	55 W	0720 110 190	2
H7 Nightstar plus 90	PX26d	55 W		0720 114 190	2

Halogen bulb

Proven quality

Nominal voltage	12 V/DC
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Type description	Socket designation	Power rating	Art. no.	P. Qty.
H16	PGJ19-2	19 W	0720 118 116	10
H27/2W	PGJ19-1	27 W	0720 118 128	10
HIR2	PX26d	55 W	0720 110 45	10

Metal socket bulb Daylight

For drivers who cover many miles and drivers who use daytime running lights

Lasts up to three times longer than a standard bulb
Longer change intervals

Nominal voltage	12 V/DC
Socket designation	BA15s



Type description	Power rating	Art. no.	P. Qty.
R5W Daylight	5 W	0720 140 16	10
R10W Daylight	10 W	0720 141 16	10

Metal socket bulb

Trusted OEM quality for standard applications

Nominal voltage	12 V/DC
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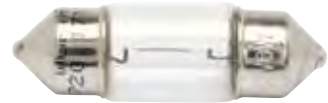


Type description	Power rating	Socket designation	Art. no.	P. Qty.
	2 W	BA7s	0720 155 1	10
R5W	5 W	BA15d	0720 143 1	10
R5W	5 W	BA15s	0720 140 1	10
R10W	10 W	BA15s	0720 141 1	10

Festoon bulb

Trusted OEM quality for standard applications

Nominal voltage	12 V/DC
Contact length	3.5 mm
Socket designation	SV8,5-8



Type description	Power rating	Length (A)	Max. width of glass bulb	Art. no.	P. Qty.
	6 W	31 mm	10.1 mm	0720 171 10	10
	10 W	31 mm	10.1 mm	0720 173 51	10
	10 W	40 mm	11 mm	0720 173 1	10
	15 W	41 mm	15.5 mm	0720 174 1	10
	18 W	41 mm	15.5 mm	0720 175 1	10
C5W	5 W	35 mm	11 mm	0720 171 1	10
C5W	5 W	40 mm	11 mm	0720 172 1	10

Parking light bulb

Trusted OEM quality for standard applications

Nominal voltage	12 V/DC
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Continuation **Parking light bulb**

Type description	Power rating	Socket designation	Art. no.	P. Qty.
	3 W	BA9s	0720 152 1	10
H6W	6 W	BAX9s	0720 150 3	10
T4W	4 W	BA9s	0720 150 1	10

Heat-shrink crimp connector push connector

Semi-transparent heat-shrink tubing

Straightforward visual monitoring of the connection

40% faster shrinking process

Saves time

Low shrinking temperature of +300 °C

Low risk of damage to connector and cable insulation



Nominal size of flat plug/push connector/blade connector	6.3 x 0.8 mm
Dielectric strength	30 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-55 to 125 °C
Min. shrinkage temperature	300 °C

Min./max. wire cross section	Colour	Art. no.	P. Qty.
0.5-1.5 mm ²	Red	0555 512 100	50/100
1.5-2.5 mm ²	Blue	0555 512 200	50/100
4-6 mm ²	Yellow	0555 512 400	50

RoHS-compliant

Avoid localised overheating of the heat-shrink tubing.

Heat-shrink cable connector HIGH-END push connector

Crystal Clear™ heat-shrink tubing for optimum visual monitoring of the connection.

40% faster shrinking process

Saves time

Low shrinking temperature of +300 °C

Low risk of damage to connector and cable insulation



Nominal size of flat plug/push connector/blade connector	6.3 x 0.8 mm
Dielectric strength	30 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-55 to 125 °C
Min. shrinkage temperature	300 °C

Min./max. wire cross section	Colour	Art. no.	P. Qty.
0.5-1.5 mm ²	Red	0555 612 100	50
1.5-2.5 mm ²	Blue	0555 612 200	50
4-6 mm ²	Yellow	0555 612 400	50

RoHS-compliant

Avoid localised overheating of the heat-shrink tubing.

Heat-shrink crimp blade connector

Semi-transparent heat-shrink tubing

Straightforward visual monitoring of the connection

40% faster shrinking process

Saves time

Low shrinking temperature of +300°C

Low risk of damage to connector and cable insulation



Nominal size of flat plug/push connector/blade connector	6.3 x 0.8 mm
Dielectric strength	30 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-55 to 125 °C
Min. shrinkage temperature	300 °C

Min./max. wire cross section	Colour	Art. no.	P. Qty.
0.5-1.5 mm ²	Red	0555 512 110	50/100
1.5-2.5 mm ²	Blue	0555 512 210	50/100
4-6 mm ²	Yellow	0555 512 410	50

RoHS-compliant

Avoid localised overheating of the heat-shrink tubing.

Heat-shrink cable connector HIGH-END blade connector

Crystal Clear™ heat-shrink tubing for optimum visual monitoring of the connection.

40% faster shrinking process

Saves time

Low shrinking temperature of +300°C

Low risk of damage to connector and cable insulation



Nominal size of flat plug/push connector/blade connector	6.3 x 0.8 mm
Dielectric strength	30 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-55 to 125 °C
Min. shrinkage temperature	300 °C

Min./max. wire cross section	Colour	Art. no.	P. Qty.
0.5-1.5 mm ²	Red	0555 612 110	50
1.5-2.5 mm ²	Blue	0555 612 210	50
4-6 mm ²	Yellow	0555 612 410	50

RoHS-compliant

Avoid localised overheating of the heat-shrink tubing.

Heat-shrink crimp ring connector

Semi-transparent heat shrink tubing allows for an easy visual inspection of the connection

- Saves time thanks to a 40 % faster shrinking process
- Low risk of damage to connector and cable insulation thanks to low shrinking temperature of +300 °C



Dielectric strength	30 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-55 to 125 °C
Min. shrinkage temperature	300 °C

Min./max. wire cross section	Colour	Flange hole	Art. no.	P. Qty.
0.5-1.5 mm ²	Red	M4	0555 511 104	50/100
0.5-1.5 mm ²	Red	M5	0555 511 105	50/100
0.5-1.5 mm ²	Red	M6	0555 511 106	50/100
0.5-1.5 mm ²	Red	M8	0555 511 108	50/100
0.5-1.5 mm ²	Red	M10	0555 511 110	50
1.5-2.5 mm ²	Blue	M4	0555 511 204	50/100
1.5-2.5 mm ²	Blue	M5	0555 511 205	50/100
1.5-2.5 mm ²	Blue	M6	0555 511 206	50/100
1.5-2.5 mm ²	Blue	M8	0555 511 208	50/100
1.5-2.5 mm ²	Blue	M10	0555 511 210	50
4-6 mm ²	Yellow	M4	0555 511 404	50
4-6 mm ²	Yellow	M5	0555 511 405	50
4-6 mm ²	Yellow	M6	0555 511 406	50
4-6 mm ²	Yellow	M8	0555 511 408	50
4-6 mm ²	Yellow	M10	0555 511 410	50

RoHS-compliant

Avoid localised overheating of the heat-shrink tubing.

Heat-shrink cable connector HIGH-END ring connector

Ring connector with inspection hole, Crystal Clear™ heat-shrink tubing for optimum visual monitoring of the connection.



Long-necked design

No impairment of contacts by the heat-shrink tubing

40% faster shrinking process

Saves time

Low shrinking temperature of +300 °C

Low risk of damage to connector and cable insulation

Dielectric strength	30 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-55 to 125 °C
Min. shrinkage temperature	300 °C

Min./max. wire cross section	Colour	Flange hole	Art. no.	P. Qty.
0.5-1.5 mm ²	Red	M4	0555 611 104	50
0.5-1.5 mm ²	Red	M5	0555 611 105	50
1.5-2.5 mm ²	Blue	M4	0555 611 204	50
1.5-2.5 mm ²	Blue	M5	0555 611 205	50
1.5-2.5 mm ²	Blue	M6	0555 611 206	50
1.5-2.5 mm ²	Blue	M8	0555 611 208	50
1.5-2.5 mm ²	Blue	M10	0555 611 210	50
4-6 mm ²	Yellow	M4	0555 611 404	50
4-6 mm ²	Yellow	M5	0555 611 405	50
4-6 mm ²	Yellow	M6	0555 611 406	50
4-6 mm ²	Yellow	M8	0555 611 408	50
4-6 mm ²	Yellow	M10	0555 611 410	50

RoHS-compliant

Avoid localised overheating of the heat-shrink tubing.

Heat-shrink crimp Y-branch connector butt connector

Branch connections from one to two wires with same wire cross section.

Transparent heat-shrink tubing

Straightforward visual monitoring of connection

Slimline design

Low space requirement

Shrinkage ratio of 4:1

Broad range of applications



Dielectric strength	20 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-55 to 110 °C
Min. shrinkage temperature	300 °C

Min./max. wire cross section	Wire cross section	Colour	Length	Art. no.	P. Qty.
0.35-0.5 mm ²		White, Red	44 mm	0555 616 0	25/100
0.75-1 mm ²		Red, Blue	48 mm	0555 616 1	25/100
1.5-2.5 mm ²		Blue, Yellow	55 mm	0555 616 2	25/50
	4 mm ²	Yellow, Red	60 mm	0555 616 4	25

RoHS-compliant

Avoid localised overheating of the heat-shrink tubing.

Heat-shrink cable connector HIGH-END butt connector

Connection sleeve with inspection holes, Crystal Clear™ heat-shrink tubing (except art. no. 05556100) for optimum visual monitoring of the connection.



- Time saved thanks to 40% faster shrinking process
- Low risk of damage to connector and cable insulation thanks to low shrinking temperature of +300°C
-

Dielectric strength	30 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-55 to 125 °C
Min. shrinkage temperature	300 °C

Min./max. wire cross section	Colour	Length	Art. no.	P. Qty.
0.2-0.5 mm ²	Transparent	25 mm	0555 610 0	50
0.5-1.5 mm ²	Red	38 mm	0555 610 1	50/100
1.5-2.5 mm ²	Blue	38 mm	0555 610 2	50/100
4-6 mm ²	Yellow	41 mm	0555 610 4	25/100

RoHS-compliant

Avoid localised overheating of the heat-shrink tubing.



Heat-shrink crimp butt connector

Dust-proof and damp-proof connections

- Semi-transparent heat-shrink tubing for straightforward visual monitoring of the connection
- Time saved thanks to 40% faster shrinking process
- Low risk of damage to connector and cable insulation thanks to low shrinking temperature of +300°C

RoHS-compliant

Dielectric strength	30 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-55 to 125 °C
Min. shrinkage temperature	300 °C

Min./max. wire cross section	Colour	Length	Art. no.	P. Qty.
0.2-0.5 mm ²	Transparent	30 mm	0555 510 0	50/100
0.5-1.5 mm ²	Red	35 mm	0555 510 1	50/100/300
1.5-2.5 mm ²	Blue	35 mm	0555 510 2	50/100/300
4-6 mm ²	Yellow	40 mm	0555 510 4	50/100

Solder cable lug

DIN 46211

Material	Brass
Surface	Tin plated



Min./max. wire cross section	Flange hole	Min./max. grommet	Material thickness	Length x width	Art. no.	P. Qty.
6.0-16 mm ²	M6	6.0-4.3 mm	1.2 mm	26.5 x 11 mm	0557 921 9	25/100
6.0-16 mm ²	M8	8.0-4.3 mm	1.2 mm	31.5 x 15 mm	0557 922 0	25/100
6.0-16 mm ²	M10	10.0-4.3 mm	1.2 mm	35.5 x 19 mm	0557 922 1	25/100
10.0-25 mm ²	M6	6.0-5.4 mm	1.5 mm	29.4 x 11 mm	0557 922 3	25/100
10.0-25 mm ²	M8	8.0-5.4 mm	1.5 mm	34.4 x 15 mm	0557 922 4	25/100
10.0-25 mm ²	M10	10.0-5.4 mm	1.5 mm	38.4 x 19 mm	0557 922 5	25/100
16.0-35 mm ²	M6	6.0-6.8 mm	1.8 mm	33.5 x 13 mm	0557 922 7	25/100
16.0-35 mm ²	M8	8.0-6.8 mm	1.8 mm	37.5 x 15 mm	0557 922 8	25/100
16.0-35 mm ²	M10	10.0-6.8 mm	1.8 mm	41.5 x 19 mm	0557 922 9	25/100
16.0-35 mm ²	M12	12.0-6.8 mm	1.8 mm	46 x 22 mm	0557 923 0	10/25
25.0-50 mm ²	M8	8.0-8.2 mm	2 mm	40.5 x 15 mm	0557 922 81	25/100
25.0-50 mm ²	M10	10.0-8.2 mm	2 mm	44.5 x 19 mm	0557 923 3	10/25
25.0-50 mm ²	M12	12.0-8.2 mm	2 mm	49 x 22 mm	0557 923 4	10/25
35.0-70 mm ²	M8	8.0-9.5 mm	2.5 mm	44.4 x 17 mm	0557 923 6	25/100
35.0-70 mm ²	M10	10.0-9.5 mm	2.5 mm	47.4 x 19 mm	0557 923 7	10/25
35.0-70 mm ²	M12	12.0-9.5 mm	2.5 mm	51.8 x 22 mm	0557 923 8	10/25
50.0-95 mm ²	M10	10.0-11.2 mm	3 mm	54.5 x 21 mm	0557 924 0	5/25
50.0-95 mm ²	M12	12.0-11.2 mm	3 mm	58 x 22 mm	0557 924 1	5/25
70.0-120 mm ²	M10	10.0-13.5 mm	3.5 mm	54.5 x 21 mm	0557 924 3	5/25
70.0-120 mm ²	M12	12.0-13.5 mm	3.5 mm	58 x 22 mm	0557 924 4	5/25

Heat-shrink solder connector HIGH-END butt connector

Double-walled 3M heat-shrink tubing for increased mechanical resistance and disruptive strength. Individual strands cannot penetrate through the heat-shrink tubing.



- Heat-shrinkable tubing is fully coated with adhesive
- Lead-free solder with greater surface tension
- Larger internal diameter of the heat-shrinkable tube

Dielectric strength	36 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-55 to 110 °C
Min. shrinkage temperature	500 °C

Min./max. wire cross section	Colour	Length	Art. no.	P. Qty.
0.35-0.75 mm ²	White	27.5 mm	0555 810 0	50/100
0.5-1.5 mm ²	Red	40.8 mm	0555 810 1	50/100
1.5-2.5 mm ²	Blue	40.8 mm	0555 810 2	50/100
4-6 mm ²	Yellow	40.8 mm	0555 810 4	25/50

RoHS-compliant, lead-free design

Avoid localised overheating of the heat-shrink tubing.

Heat-shrink solder branch connector end connector

Transparent heat-shrink tubing

Straightforward visual monitoring of the connection



Dielectric strength	2 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-40 to 125 °C
Min. shrinkage temperature	500 °C

Max. bundle diameter (Bündel-Ø max.)	Colour	Art. no.	P. Qty.
3.3 mm	Green	0555 924 10	25
4.5 mm	Red	0555 924 20	25
7 mm	Blue	0555 924 30	25
9 mm	Yellow	0555 924 40	25

Avoid localised overheating of the heat-shrink tubing.



Heat-shrink solder butt connector

Dust-proof and damp-proof connections

- Semi-transparent heat-shrink tubing for straightforward visual monitoring of the connection

Dielectric strength	2 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-55 to 125 °C
Min. shrinkage temperature	500 °C

Max. bundle diameter (Bündel-Ø max.)	Colour	Length	Art. no.	P. Qty.
1.7 mm	White	26 mm	0555 923 0	25/100
2.7 mm	Red	42 mm	0555 923 1	25/100
4.5 mm	Blue	42 mm	0555 923 2	25/100
6 mm	Yellow	42 mm	0555 923 3	25/50

Heat-shrink crimp and solder butt connector

The ultimate connection — crimping for mechanical reliability, welded for superior strength and conductivity.

- Crimp-fixed cable — one-person operation
- Lead-free tin solder with greater surface tension
- Double-walled 3M heat-shrink tubing with increased mechanical resistance and disruptive strength
- Connection sleeve with viewing holes, transparent heat-shrink tubing: Straightforward visual monitoring of the connection.



Dielectric strength	36 kV/mm
IP protection class	IP 67
Min./max. temperature conditions	-55 to 110 °C
Min. shrinkage temperature	500 °C

Min./max. wire cross section	Colour	Length	Art. no.	P. Qty.
0.35-0.75 mm ²	White	27.5 mm	0555 710 0	50
0.5-1.5 mm ²	Red	40.8 mm	0555 710 1	50
1.5-2.5 mm ²	Blue	40.8 mm	0555 710 2	50
4-6 mm ²	Yellow	40.8 mm	0555 710 4	25

RoHS-compliant, lead-free design

Avoid localised overheating of the heat-shrink tubing.

Resettable fuse ATO

For non-stop operation (fixed installation)

Colour-coded thermal trip switch

Easy to reset by hand

using red reset switch

No costly downtime

Eliminates need to change fuses in defective circuits



Max. nominal voltage	32 V/DC
Min./max. operating temperature	-40 to 85 °C
Surface of the contacts	Tin plated

Max. current	Colour	Art. no.	P. Qty.
5 A	Light brown	0731 100 105	3
7.5 A	Brown	0731 100 107	3
10 A	Red	0731 100 110	3
15 A	Blue	0731 100 115	3
20 A	Yellow	0731 100 120	3
25 A	White	0731 100 125	3
30 A	Light green	0731 100 130	3
40 A	Orange	0731 100 140	3

The reset button must not be blocked. Reset button and hand trigger may only be actuated in the de-energised state.

Flat blade fuse MINI Silver

Silver-coated version for better heat reflection

OEM quality

Max. nominal voltage	32 V/DC
Min./max. operating temperature	-40 to 125 °C
Surface of the contacts	Silver plated



Max. current	Colour	Art. no.	P. Qty.
2 A	Grey	0731 300 02	25/100
3 A	Violet	0731 300 03	25/100
4 A	Pink	0731 300 04	25/100
5 A	Brown	0731 300 05	25/100
7.5 A	Ochre brown	0731 300 075	25/100
10 A	Red	0731 300 10	25/100
15 A	Turquoise	0731 300 15	25/100
20 A	Yellow	0731 300 20	25/100
25 A	White	0731 300 25	25/100
30 A	Green	0731 300 30	25/100

ISO 8820-3

Flat blade fuse ATO

Max. nominal voltage	32 V/DC
Min./max. operating temperature	-40 to 125 °C
Surface of the contacts	Tin plated



Max. current	Colour	Art. no.	P. Qty.
1 A	Black	0731 001	25/100
2 A	Grey	0731 002	25/100
3 A	Violet	0731 003	25/100
4 A	Pink	0731 004	25/100
5 A	Brown	0731 005	25/100
7.5 A	Ochre brown	0731 007 5	25/100
10 A	Red	0731 010	25/100
15 A	Turquoise	0731 015	25/100
20 A	Yellow	0731 020	25/100
25 A	White	0731 025	25/100
30 A	Green	0731 030	25/100
35 A	Blue	0731 035	25/100
40 A	Orange	0731 040	25/100

ISO 8820-3

Flat blade fuse **MINI-FLP Silver**

Silver-coated version for better heat reflection

OEM quality

Max. nominal voltage	58 V/DC
Min./max. operating temperature	-40 to 125 °C



Max. current	Colour	Surface of the contacts	Art. no.	P. Qty.
2 A	Grey	Silver plated	0731 302 02	10
3 A	Violet	Tin plated	0731 302 03	10
4 A	Pink	Tin plated	0731 302 04	10
5 A	Brown	Silver plated	0731 302 05	10
7.5 A	Ochre brown	Silver plated	0731 302 07	10
10 A	Red	Silver plated	0731 302 10	10
15 A	Turquoise	Silver plated	0731 302 15	10
20 A	Yellow	Silver plated	0731 302 20	10
25 A	White	Silver plated	0731 302 25	10
30 A	Green	Silver plated	0731 302 30	10

Version 3A and 4A with tin-plated connector contacts

Flat blade fuse **MAXI Silver**

Silver-coated version for better heat reflection

OEM quality

Max. nominal voltage	32 V/DC
Min./max. operating temperature	-40 to 125 °C
Surface of the contacts	Silver plated



Max. current	Colour	Art. no.	P. Qty.
20 A	Yellow	0731 301 20	10
30 A	Green	0731 301 30	10
40 A	Orange	0731 301 40	10
50 A	Red	0731 301 50	10
60 A	Blue	0731 301 60	10
70 A	Brown	0731 301 70	10
80 A	White	0731 301 80	10

ISO 8820-3:2002(E)

Resettable fuse ATO

For non-stop operation (fixed installation) and fault finding (diagnostics)

Thermal trip switch with colour-coded trip lever and black reset switch

Easy to reset by hand

using black reset switch

No costly downtime

Eliminates need to change fuses in defective circuits



Max. nominal voltage	28 V/DC
Min./max. operating temperature	-40 to 85 °C
Surface of the contacts	Tin plated

Max. current	Colour	Art. no.	P. Qty.
3 A	Violet	0731 100 003	2
4 A	Pink	0731 100 004	2
5 A	Light brown	0731 100 005	2
7.5 A	Brown	0731 100 007	2
10 A	Red	0731 100 010	2
15 A	Blue	0731 100 015	2
20 A	Yellow	0731 100 020	2
25 A	White	0731 100 025	2

The reset button must not be blocked. Reset button and hand trigger may only be actuated in the de-energised state.

Flat blade fuse ATO set

12 pieces

Art. no. 0731 100

P. Qty.: 1



Contents for art. no. 0731 100		
Designation	Art. no.	Quantity
Flat blade fuse ATO Brown	0731 005	1
Flat blade fuse ATO Ochre brown	0731 007 5	1
Flat blade fuse ATO Red	0731 010	2
Flat blade fuse ATO Turquoise	0731 015	2
Flat blade fuse ATO Yellow	0731 020	2
Flat blade fuse ATO White	0731 025	1
Flat blade fuse ATO Green	0731 030	1

ISO 8820-3

Flat blade fuse MICRO 2/MICRO 3 SILVER assortment

185 pieces in system case 4.4.1

System dimensions	4.4.1
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Art. no. 5964 073 106

P. Qty.: 1



ORSY

Fuse holder for flat blade fuses ATO

- Version with water splash protection
- Self-extinguishing



Design	Max. current	Cable cross section	Cable length	IP protection class	Art. no.	P. Qty.
ATO	20 A	1.3 mm ²	90 mm	IP 67	0555 976	10
ATO	30 A	3.3 mm ²	90 mm	IP 67	0555 974	10
MICRO2	30 A	3.3 mm ²	140 mm	IP 54	0555 400 02	10
MINI	30 A	3.3 mm ²	95 mm	IP 67	0555 400 01	10

Fuse holder for flat blade fuses ATO

For direct cable clamping

Max. current	20 A
Min./max. wire cross section	0.75-2 mm ²



Art. no. 0555 972

P. Qty.: 25

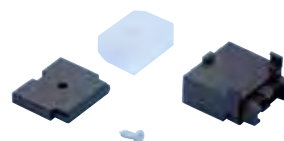
The amperage specifications are application guidelines for use of our fuses art. sub-no. 0731 and, in particular, depend on the chosen fuse manufacturer, temperature, installation etc.

Fuse holder for flat blade fuses ATO

Holder can be arranged in rows

Housing with wall bracket

Max. current	30 A
Nominal size of flat plug/push connector/blade connector	6.3 x 0.8 mm



Art. no. 0555 973

P. Qty.: 25

Fuse holder for screw-fit fuses MIDI

With improved contact protection

Tongue and groove principle

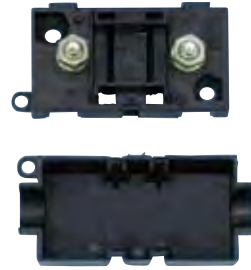
Extendable push-fit system (e.g. trailer, motorhome/caravan, HGV etc.)

With improved contact protection

Also suitable for strip fuses

Art. no. 0731 309 001

P. Qty.: 2



Fuse holder for screw-fit fuses MEGA

With improved contact protection

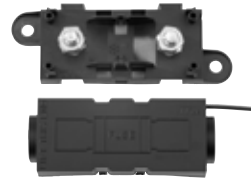
Tongue and groove principle

Extendable push-fit system (e.g. trailer, motorhome/caravan, HGV etc.)

With improved contact protection

Art. no. 0731 310 001

P. Qty.: 1



Fuse holder for flat blade fuses

For connection of auxiliary consumers

Extension element to accommodate an additional fuse for connecting an auxiliary consumer in an existing fuse socket

Optimum protection

Protection of connected consumer by auxiliary fuse



Max. current	10 A
Min./max. wire cross section	1.5-2.5 mm ²
Cable cross section	1.5 mm ²
Cable length	130 mm

Type description	Installation height	Art. no.	P. Qty.
MINI	17 mm	0555 970 001	5
ATO	22 mm	0555 970 002	5
MICRO2	16 mm	0555 970 003	5
MINI-FLP	13 mm	0555 970 004	5
MICRO3	16 mm	0555 970 005	5

Fuse holder for flat blade fuses MAXI

Stackable

Max. current	60 A
Installation height	67 mm



Art. no. 0555 400 001

P. Qty.: 1

Thread lock MIDI

Plastic casing prevents sparking when triggering fuse

Plastic sheath

Sparks caused by triggering of the fuse are avoided

Max. nominal voltage	32 V/DC
Min./max. operating temperature	-40 to 125 °C
Length	41 mm
Width	10 mm
Diameter of hole	5.5 mm
Material of the housing	PA - Polyamide
Material	Copper
Surface	Zinc plated



Max. current	Identification colour	Art. no.	P. Qty.
40 A	Green	0731 309 040	5
50 A	Red	0731 309 050	5
60 A	Yellow	0731 309 060	5
80 A	White	0731 309 080	5
100 A	Blue	0731 309 100	5

ISO 8820-5

Thread lock MEGA

Plastic casing prevents sparking when triggering fuse

Plastic sheath

Sparks caused by triggering of the fuse are avoided

Max. nominal voltage	32 V/DC
Min./max. operating temperature	-40 to 125 °C
Length	68 mm
Width	16 mm
Diameter of hole	8.6 mm
Material of the housing	PA - Polyamide
Material	Copper
Surface	Plain



Max. current	Identification colour	Art. no.	P. Qty.
100 A	Yellow	0731 310 100	5
125 A	Green	0731 310 125	5
150 A	Red	0731 310 150	5
175 A	White	0731 310 175	5
200 A	Blue	0731 310 200	5

Continuation Thread lock MEGA

Max. current	Identification colour	Art. no.	P. Qty.
225 A	Brown	0731 310 225	5
250 A	Rosy	0731 310 250	5
300 A	Grey	0731 310 300	5

ISO 8820-5

Plug-in fuse OTO-JM

OEM quality

Max. nominal voltage	32 V/DC
Min./max. operating temperature	-40 to 120 °C
Height x width x depth	15 x 10.7 x 7.7 mm



Max. current	Colour	Art. no.	P. Qty.
15 A	Grey	0731 204 15	10
20 A	Light blue	0731 204 20	10
25 A	White	0731 204 25	10
30 A	Pink	0731 204 30	10
40 A	Green	0731 204 40	10

Littelfuse designation: MCASE+™ cartridge fuses

Branch connector detachable

For branch connections in any position required

Extremely easy to use

Crimping tool for insulated cable connectors are all that are needed

Nominal size of flat plug/push connector/blade connector	6.3 x 0.8 mm
Max. nominal voltage	300 V/DC
Max. temperature conditions	105 °C
Material	Plastic



Min./max. wire cross section	Colour	Art. no.	P. Qty.
0.5-1.5 mm²	Red	0555 951 1	50/100
1.5-2.5 mm²	Blue	0555 952 1	50/100
4-6 mm²	Yellow	0555 953 1	50/100

Branch connector non-detachable

For branch connections in any position required

Simple to use

Only combination pliers required

Max. nominal voltage	600 V/DC
Max. temperature conditions	105 °C



Min./max. wire cross section	Connection type	Colour	Art. no.	P. Qty.
	Continuity 4 mm ² , branch 1.5 mm ²	Brown	0555 562 1	50/100
0.5-1.5 mm ²		Red	0555 557	50/100
0.75-2.5 mm ²		White	0555 564 1	50/100
1-2.5 mm ²		Blue	0555 564	50/100
4-6 mm ²		Yellow	0555 562	50/100

Branch connector detachable

For branch connections in any position required

Easy to use

Combination pliers are all that are needed

Max. nominal voltage	300 V/DC
Max. temperature conditions	105 °C



Min./max. wire cross section	Wire cross section	Colour	Art. no.	P. Qty.
0.5-0.75 mm ²		Red	0555 951	50/100
0.75-2.5 mm ²		Blue	0555 952	50/100
	4 mm ²	Yellow	0555 953	50/100

Blade terminal splitter

Plug width	6.3 mm
Max. nominal voltage	300 V/AC
Max. temperature conditions	75 °C



Connection type	Length x width	Art. no.	P. Qty.
1st end: 1 connection, 2nd end: 2 connections	54 x 21 mm	0555 11	10/100
1st end: 2 connections, 2nd end: 2 connections	50 x 20.5 mm	0555 12	10/100

Butt connector with crimp connection

Length	18 mm
Material	Bronze
Surface	Tin plated



Min./max. wire cross section	Art. no.	P. Qty.
0.2-0.35 mm ²	0558 516 0	100
0.5-1 mm ²	0558 516 1	100
1.5-2.5 mm ²	0558 516 2	100

Positive Lock blade receptacle

Design	Unsealed
Nominal size of flat plug/push connector/blade connector	6.3 x 0.8 mm



Min./max. wire cross section	Material	Surface	Art. no.	P. Qty.
0.5-1.5 mm ²	Brass	Tin plated	0558 160 77	100
1.5-2.5 mm ²	Bronze	Silver plated	0558 160 71	50
2.5-4 mm ²	Brass	Tin plated	0558 160 78	100
4.0-6 mm ²	Brass	Tin plated	0558 160 79	100



Blade receptacle

Uninsulated

Design	Unsealed
Material	Brass

Min./max. wire cross section	Nominal size of flat plug/push connector/ blade connector	Number of locking lugs	Retaining-lug diameter (Ø)	Surface	Art. no.	P. Qty.
0.5-1.5 mm ²	7.7 x 0.8 mm	1 PCS		Plain	0558 502 0	50
0.5-1 mm ²	2.8 x 0.5 mm			Plain	0558 502 9	100
0.5-1 mm ²	2.8 x 0.5 mm			Tin plated	0558 992 2	100
0.5-1 mm ²	2.8 x 0.5 mm	1 PCS		Plain	0558 601 0	100
0.5-1 mm ²	2.8 x 0.5 mm	1 PCS		Tin plated	0558 995 5	100
0.5-1 mm ²	2.8 x 0.8 mm			Tin plated	0558 992 3	100
0.5-1 mm ²	6.3 x 0.8 mm		1.4 mm	Plain	0558 504 0	100
0.5-1 mm ²	6.3 x 0.8 mm		1.4 mm	Tin plated	0558 991 9	100
0.5-1 mm ²	6.3 x 0.8 mm	1 PCS		Silver plated	0558 992 45	100
0.5-1 mm ²	6.3 x 0.8 mm	1 PCS		Tin plated	0558 991 6	100
1.0-1.5 mm ²	2.8 x 0.5 mm	1 PCS		Plain	0558 603 21	100
1.5-2.5 mm ²	4.8 x 0.5 mm		1.3 mm	Tin plated	0558 992 1	100
1.5-2.5 mm ²	4.8 x 0.8 mm		1.3 mm	Plain	0558 531 2	100
1.5-2.5 mm ²	4.8 x 0.8 mm	1 PCS		Plain	0558 631 2	100
1.5-2.5 mm ²	6.3 x 0.8 mm		1.4 mm	Plain	0558 450 40	100

Continuation **Blade receptacle**

Min./max. wire cross section	Nominal size of flat plug/push connector/blade connector	Number of locking lugs	Retaining-lug diameter (Ø)	Surface	Art. no.	P. Qty.
1.5-2.5 mm ²	6.3 x 0.8 mm		1.4 mm	Plain	0558 929	100/500
1.5-2.5 mm ²	6.3 x 0.8 mm		1.4 mm	Silver plated	0558 992 5	100
1.5-2.5 mm ²	6.3 x 0.8 mm	1 PCS	1.4 mm	Plain	0558 603 2	100/300/500
1.5-2.5 mm ²	6.3 x 0.8 mm	1 PCS	1.6 mm	Silver plated	0558 992 8	100
1.5-2.5 mm ²	6.3 x 0.8 mm	1 PCS	1.6 mm	Tin plated	0558 991 7	100
4.0-6 mm ²	6.3 x 0.8 mm		1.4 mm	Plain	0558 504 7	100
4.0-6 mm ²	6.3 x 0.8 mm		1.4 mm	Silver plated	0558 992 6	100
4.0-6 mm ²	6.3 x 0.8 mm	1 PCS	1.6 mm	Tin plated	0558 996 2	100
4.0-6 mm ²	9.5 x 1.2 mm		1.6 mm	Plain	0558 526 6	50
4.0-6 mm ²	9.5 x 1.2 mm	1 PCS		Tin plated	0558 526 7	50

Connector system GSK

Design	Unsealed
Max. current	40 A
Number of electrical poles	1 PCS
Material	Copper-chrome-silicone-titanium
Material of the spring	Stainless steel



Min./max. wire cross section	Art. no.	P. Qty.
1.5-2.5 mm ²	0558 719 102	25
2.5-4 mm ²	0558 719 103	25

Blade connector

Uninsulated

Design	Unsealed
Material	Brass



Min./max. wire cross section	Nominal size of flat plug/push connector/blade connector	Number of locking lugs	Diameter of hole	Surface	Art. no.	P. Qty.
0.5-2 mm ²	6 x 0.8 mm		2 mm	Tin plated	0558 190 26	100
0.5-1 mm ²	2.8 x 0.8 mm		1.2 mm	Plain	0558 514 4	100
0.5-1 mm ²	6.3 x 0.8 mm		1.65 mm	Plain	0558 513 5	100
0.5-1 mm ²	6.3 x 0.8 mm	1 PCS	1.65 mm	Tin plated	0558 996 0	100
0.8-2.5 mm ²	6.3 x 0.8 mm	1 PCS	1.65 mm	Silver plated	0558 993 7	100
1-1.5 mm ²	2.8 x 0.5 mm	1 PCS	1.2 mm	Plain	0558 505 41	100
1.5-2.5 mm ²	6.3 x 0.8 mm		1.65 mm	Plain	0558 501 9	100
1.5-2.5 mm ²	6.3 x 0.8 mm	1 PCS		Plain	0558 505 4	100/300
1.5-2.5 mm ²	6.3 x 0.8 mm	1 PCS		Tin plated	0558 991 8	100

Min./max. wire cross section	Nominal size of flat plug/push connector/blade connector	Number of locking lugs	Diameter of hole	Surface	Art. no.	P. Qty.
1.5-2.5 mm ²	6.3 x 0.8 mm	1 PCS	1.65 mm	Silver plated	0558 993 5	100
4.0-6 mm ²	6.3 x 0.8 mm	1 PCS	1.65 mm	Tin plated	0558 996 3	100
4-6 mm ²	6.3 x 0.8 mm	1 PCS		Silver plated	0558 993 4	100

Flat connector contact MCP 2.8

Nominal size of flat plug/push connector/blade connector	2.8 x 0.8 mm
Number of locking lugs	2 PCS
Material	Copper-nickel-silicone



Design	Min./max. wire cross section	Seal diameter	Surface	Art. no.	P. Qty.
Sealed	0.2-0.35 mm ²	3.4 mm	Silver plated	0558 198 015	50
Sealed	0.2-0.35 mm ²	3.4 mm	Tin plated	0558 198 005	50
Sealed	0.5-1 mm ²	3.4 mm	Silver plated	0558 198 016	50
Sealed	0.5-1 mm ²	3.4 mm	Tin plated	0558 198 006	50
Sealed	1.5-2.5 mm ²	3.4 mm	Silver plated	0558 198 017	50
Sealed	1.5-2.5 mm ²	3.4 mm	Tin plated	0558 198 007	50
Unsealed	0.2-0.35 mm ²		Silver plated	0558 198 011	50
Unsealed	0.2-0.35 mm ²		Tin plated	0558 198 001	50
Unsealed	0.5-1 mm ²		Silver plated	0558 198 012	50
Unsealed	0.5-1 mm ²		Tin plated	0558 198 002	50
Unsealed	1.5-2.5 mm ²		Silver plated	0558 198 013	50
Unsealed	1.5-2.5 mm ²		Tin plated	0558 198 003	50

Flat conn. cont. Junior Timer (JT) 2.8

Design	Unsealed
Nominal size of flat plug/push connector/blade connector	2.8 x 0.8 mm
Number of locking lugs	1 PCS
Material	Bronze
Surface	Tin plated



Min./max. wire cross section	Min./max. diameter of insulation	Art. no.	P. Qty.
0.5-1.5 mm ²	2.0-3 mm	0558 990 9	50/100
0.5-1 mm ²	1.5-2.1 mm	0558 996 7	50/100
1.5-2.5 mm ²	3.0-4.3 mm	0558 996 9	50/100

Flat connector contact Junior Power Timer (JPT) 2.8

Nominal size of flat plug/push connector/blade connector	2.8 x 0.8 mm
Number of locking lugs	2 PCS



Continuation **Flat connector contact Junior Power Timer (JPT) 2.8**

Design	Min./max. wire cross section	Min./max. diameter of insulation	Seal diameter	Material	Art. no.	P. Qty.
Sealed	0.5-1 mm ²	1.4-2.7 mm	3.4 mm	Bronze	0558 190 15	50/100
Sealed	0.5-1 mm ²	1.4-2.1 mm	3.4 mm	Bronze	0558 190 1	25/100
Sealed	1.5-2.5 mm ²	2.0-3 mm	3.4 mm	Bronze	0558 190 85	50/100
Unsealed	0.5-1 mm ²	1.4-2.3 mm		Copper-tin/ chromium-nickel	0558 991 15	50/100
Unsealed	0.5-1 mm ²	1.4-2.1 mm		Bronze	0558 190 2	25/100
Unsealed	0.5-1 mm ²	1.4-2.1 mm		Bronze	0558 190 151	50/100
Unsealed	1.5-2.5 mm ²	2.1-3.1 mm		Copper-tin/ chromium-nickel	0558 991 16	50/100

Flat connector contact Standard Power Timer(SPT) 4.8/5.8

Nominal size of flat plug/push connector/blade connector	4.8 x 0.8 mm, 5.8 x 0.8 mm
Number of locking lugs	2 PCS
Surface	Tin plated



Design	Min./max. wire cross section	Min./max. diameter of insulation	Seal diameter	Material	Art. no.	P. Qty.
Sealed	1.5-2.5 mm ²	2.2-3.7 mm	6 mm	Copper-iron	0558 190 11	50
Unsealed	0.5-1 mm ²	1.4-2.1 mm		Copper-iron	0558 190 18	50
Unsealed	1.5-2.5 mm ²	2.1-2.9 mm		Bronze	0558 997 23	50

Flat connector contact MINI MIC SRS 1.5

Design	Sealed
Nominal size of flat plug/push connector/blade connector	1.5 mm
Seal diameter	3.4 mm
Material	Bronze
Surface	Tin plated



Min./max. wire cross section	Min./max. diameter of insulation	Art. no.	P. Qty.
0.35-0.5 mm ²	1.2-1.6 mm	0558 995 80	100
0.75-1.5 mm ²	1.7-2.4 mm	0558 995 82	100
1.5-2.5 mm ²	2.2-3.3 mm	0558 995 84	100

Flat connector contact Micro Timer (MT II+III) 1.6

Nominal size of flat plug/push connector/blade connector	1.6 x 0.6 mm
Number of locking lugs	2 PCS



Design	Min./max. wire cross section	Min./max. diameter of insulation	Seal diameter	Material	Art. no.	P. Qty.
Sealed	0.5-1 mm ²	1.4-2.1 mm	2.6 mm	Copper-iron	0558 190 20	50/100
Unsealed	0.2-0.5 mm ²	1.15-1.6 mm		Copper-iron	0558 190 92	50/100
Unsealed	0.5-1 mm ²	1.4-2.1 mm		Bronze	0558 190 9	25/100
Unsealed	0.5-1 mm ²	1.4-2.1 mm		Copper-iron	0558 190 13	50/100

Double flat spring contact DFK 2 4.8/6.3

Design	Unsealed
Nominal size of flat plug/push connector/blade connector	4.8 x 0.8 mm, 6.3 x 0.8 mm
Number of locking lugs	2 PCS
Material	Brass
Surface	Tin plated



Min./max. wire cross section	Art. no.	P. Qty.
0.5-1 mm ²	0558 991 00	100
1.5-2.5 mm ²	0558 991 01	100
2.5-4 mm ²	0558 991 05	100
4.0-6 mm ²	0558 991 03	100

Flat connector Junior Power Timer (JPT) 2.8

Nominal size of flat plug/push connector/blade connector	2.8 x 0.8 mm
Number of locking lugs	2 PCS



Design	Min./max. wire cross section	Min./max. diameter of insulation	Seal diameter	Material	Art. no.	P. Qty.
Sealed	0.5-1 mm ²	1.4-2.7 mm	3.4 mm	Bronze	0558 190 83	25/100
Sealed	0.5-1 mm ²	1.4-2.7 mm	3.4 mm	Copper-iron	0558 190 16	50/100
Sealed	1.5-2.5 mm ²	2.2-3 mm	3.4 mm	Copper-iron	0558 190 86	50/100
Unsealed	0.5-1 mm ²	1.4-2.1 mm		Bronze	0558 190 8	25/100
Unsealed	0.5-1 mm ²	1.4-2.1 mm		Bronze	0558 190 82	50/100
Unsealed	0.5-1 mm ²	1.4-2.1 mm		Copper-iron	0558 190 81	50/100
Unsealed	1.5-2.5 mm ²	2.2-3 mm		Copper-iron	0558 190 84	50/100

Flat connector MINI MIC SRS 1.5

Design	Sealed
Nominal size of flat plug/push connector/blade connector	1.5 x 0.8 mm
Seal diameter	3.4 mm
Material	Brass
Surface	Tin plated



Min./max. wire cross section	Min./max. diameter of insulation	Art. no.	P. Qty.
0.35-0.5 mm ²	1.2-1.6 mm	0558 995 79	100
0.75-1.5 mm ²	1.7-2.4 mm	0558 995 81	100
1.5-2.5 mm ²	2.2-3.3 mm	0558 995 83	100

Flat connector Fastin-Faston 2.8

Design	Unsealed
Nominal size of flat plug/push connector/blade connector	2.8 x 0.8 mm
Number of locking lugs	1 PCS
Material	Bronze
Surface	Tin plated



Min./max. wire cross section	Min./max. diameter of insulation	Art. no.	P. Qty.
0.5-1 mm ²	1.4-2.3 mm	0558 995 70	100
1.5-2.5 mm ²	2.3-3.5 mm	0558 995 71	100

Socket contact Micro Quadlok System (MQS) 0.63

Uninsulated

Stud diameter	0.63 mm
Number of locking lugs	1 PCS
Material	Copper-nickel-silicone



Design	Min./max. wire cross section	Seal diameter	Surface	Art. no.	P. Qty.
Sealed	0.25-0.5 mm ²	2.6 mm	Gold plated	0558 190 224	100
Sealed	0.25-0.5 mm ²	2.6 mm	Tin plated	0558 190 223	100
Sealed	0.5-0.75 mm ²	2.6 mm	Gold plated	0558 190 222	100
Sealed	0.5-0.75 mm ²	2.6 mm	Tin plated	0558 190 22	50/100
Unsealed	0.25-0.5 mm ²		Gold plated	0558 190 234	100
Unsealed	0.25-0.5 mm ²		Tin plated	0558 190 233	100
Unsealed	0.5-0.75 mm ²		Gold plated	0558 190 232	100
Unsealed	0.5-0.75 mm ²		Tin plated	0558 190 23	50/100

Socket contact ELO 0.63

Design	Unsealed
Min./max. wire cross section	0.35-0.5 mm ²
Stud diameter	0.63 mm
Number of locking lugs	1 PCS
Material	Bronze



Surface	Art. no.	P. Qty.
Gold plated	0558 171 003	50
Tin plated	0558 171 002	100

Pin contact Micro Quadlok System (MQS) 0.63

Uninsulated

Stud diameter	0.63 mm
Number of locking lugs	1 PCS
Material	Copper-nickel-silicone



Design	Min./max. wire cross section	Seal diameter	Surface	Art. no.	P. Qty.
Sealed	0.25-0.5 mm ²	2.6 mm	Gold plated	0558 190 604	100
Sealed	0.25-0.5 mm ²	2.6 mm	Tin plated	0558 190 603	100
Sealed	0.5-0.75 mm ²	2.6 mm	Gold plated	0558 190 602	100
Sealed	0.5-0.75 mm ²	2.6 mm	Tin plated	0558 190 60	50/100
Unsealed	0.25-0.5 mm ²		Gold plated	0558 190 704	100
Unsealed	0.25-0.5 mm ²		Tin plated	0558 190 703	100
Unsealed	0.5-0.75 mm ²		Gold plated	0558 190 702	100
Unsealed	0.5-0.75 mm ²		Tin plated	0558 190 70	50/100

Single wire seal (SEAL)

For non-insulated cable connectors



Seal diameter (C)	Min./max. diameter of insulation (A)	Suitable for hole diameter	Collar diameter (F)	Length	Art. no.	P. Qty.
2.6 mm	1.2-2.1 mm	3.6 mm	3.9 mm	7.6 mm	0558 991 403	100
2.9 mm	1.7-2.1 mm	4 mm	4.5 mm	7 mm	0558 991 404	100
2.9 mm	1.9-2.5 mm	4 mm	4.5 mm	7 mm	0558 991 405	100
3.4 mm	1.2-2.1 mm	5.15 mm	5.65 mm	7.5 mm	0558 991 406	100
3.4 mm	1.4-2.1 mm	5.4 mm	6 mm	7.5 mm	0558 991 408	100
3.4 mm	1.7-2.4 mm	5.15 mm	6.1 mm	7.8 mm	0558 991 41	100
3.4 mm	1.9-3 mm	5.15 mm	5.65 mm	7.5 mm	0558 991 407	100
3.4 mm	2.2-3 mm	5.4 mm	6 mm	7.5 mm	0558 991 409	100
3.4 mm	2.5-3.3 mm	5.15 mm	6.1 mm	7.8 mm	0558 991 42	100
4.25 mm	1.2-2.1 mm	6.7 mm	7.25 mm	7.5 mm	0558 991 410	100
4.25 mm	1.9-3 mm	6.7 mm	7.25 mm	7.5 mm	0558 991 411	100
6 mm	1.2-2.1 mm	8.2 mm	9 mm	7.5 mm	0558 991 412	100
6 mm	1.9-3 mm	8.2 mm	9 mm	7.5 mm	0558 991 413	100
6 mm	2.7-3.7 mm	8.2 mm	9 mm	7.5 mm	0558 991 414	100
6 mm	3.4-4.4 mm	8.2 mm	9 mm	7.5 mm	0558 991 415	100

Waterproof pin housing

TE Superseal 1.5 Series

Contact gauge	1.5 mm
Min./max. wire cross section	0.35-2.5 mm ²
IP protection class	IP 67
Max. nominal voltage	24 V/DC
Max. current	14 A
Min./max. temperature conditions	-40 to 125 °C



Continuation **Waterproof pin housing**

Material	PA - Polyamide
Colour	Black

Number of electrical poles	Art. no.	P. Qty.
1 PCS	0555 102 1	4/10
2 PCS	0555 102 2	4/10
3 PCS	0555 102 3	4/10
4 PCS	0555 102 4	4/10
5 PCS	0555 102 5	4/10
6 PCS	0555 102 6	4/10

Complies with IEC 529 and DIN 40050 IP 67

Waterproof socket housing

TE Superseal 1.5 Series

Contact gauge	1.5 mm
Min./max. wire cross section	0.35-2.5 mm ²
IP protection class	IP 67
Max. nominal voltage	24 V/DC
Max. current	14 A
Min./max. temperature conditions	-40 to 125 °C
Material	PA - Polyamide
Colour	Black



Number of electrical poles	Art. no.	P. Qty.
1 PCS	0555 103 1	4/10
2 PCS	0555 103 2	4/10
3 PCS	0555 103 3	4/10
4 PCS	0555 103 4	4/10
5 PCS	0555 103 5	4/10
6 PCS	0555 103 6	4/10

Complies with IEC 529 and DIN 40050 IP 67

Multiple plug housing for blade connector 6.3 x 0.8 mm

Contact gauge	6.3 mm
Min./max. wire cross section	0.5-6 mm ²
IP protection class	IP 20
Max. nominal voltage	250 V/AC/DC
Max. current	25 A
Min./max. temperature conditions	-40 to 80 °C
Material	PA - Polyamide
Colour	Natural



Number of electrical poles	Arrangement of contacts to each other	Art. no.	P. Qty.
1 PCS	90° angle	0555 100 1	25
2 PCS	At 90° angle to each other	0555 100 22	25
2 PCS	Both parallel	0555 100 2	25
3 PCS	Two parallel, one at 90° angle to each other	0555 100 3	25
4 PCS	Every two parallel	0555 100 4	25
6 PCS	Every two parallel	0555 100 6	25
8 PCS	Every two parallel	0555 100 8	25

Multiple plug housing for push connector 6.3 x 0.8 mm

Contact gauge	6.3 mm
Min./max. wire cross section	0.5-6 mm ²
IP protection class	IP 20
Max. nominal voltage	250 V/AC/DC
Max. current	25 A
Min./max. temperature conditions	-40 to 80 °C
Material	PA - Polyamide
Colour	Natural



Number of electrical poles	Arrangement of contacts to each other	Art. no.	P. Qty.
1 PCS	90° angle	0555 100 11	25
2 PCS	At 90° angle to each other	0555 100 23	25
2 PCS	Both parallel	0555 100 21	25
3 PCS	Two parallel, one at 90° angle to each other	0555 100 31	25
4 PCS	Every two parallel	0555 100 41	25
6 PCS	Every two parallel	0555 100 61	25
8 PCS	Every two parallel	0555 100 81	25



Vehicle line FLRY

On plastic reel for ORSY® 10 roll system

- Premium quality with 99.9% copper content
- Rated voltage: $U \sim = 50 \text{ V}$, $U_- = 60 \text{ V}$
- PVC external sheath
- Free of silicone, cadmium and lead

Complies with DIN/ISO 6722

Min./max. temperature conditions	-40 to 85 °C
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Wire cross section	Colour	Outer diameter	Art. no.	P. Qty.
0.35 mm ²	Black	1.25 mm	0770 035	100
0.35 mm ²	Black, Red	1.25 mm	0770 035 55	100
0.35 mm ²	Black, White	1.25 mm	0770 035 54	100
0.35 mm ²	Black, Yellow	1.25 mm	0770 035 65	100
0.35 mm ²	Blue	1.25 mm	0770 035 2	100
0.35 mm ²	Blue, Red	1.25 mm	0770 035 60	100
0.35 mm ²	Blue, White	1.25 mm	0770 035 58	100
0.35 mm ²	Brown	1.25 mm	0770 035 9	100
0.35 mm ²	Green	1.25 mm	0770 035 4	100
0.35 mm ²	Green, Yellow	1.25 mm	0770 035 73	100
0.35 mm ²	Grey	1.25 mm	0770 035 5	100
0.35 mm ²	Grey, Red	1.25 mm	0770 035 52	100
0.35 mm ²	Red	1.25 mm	0770 035 1	100

Wire cross section	Colour	Outer diameter	Art. no.	P. Qty.
0.35 mm ²	Red, White	1.25 mm	0770 035 69	100
0.35 mm ²	Red, Yellow	1.25 mm	0770 035 51	100
0.35 mm ²	Violet	1.25 mm	0770 035 7	100
0.35 mm ²	White	1.25 mm	0770 035 42	100
0.35 mm ²	White, Red	1.25 mm	0770 035 573	100
0.35 mm ²	Yellow	1.25 mm	0770 035 3	100
0.35 mm ²	Yellow, Green	1.25 mm	0770 035 57	100
0.5 mm ²	Black	1.5 mm	0770 050	100
0.5 mm ²	Black, Red	1.5 mm	0770 050 55	100
0.5 mm ²	Black, White	1.5 mm	0770 050 54	100
0.5 mm ²	Black, Yellow	1.5 mm	0770 050 65	100
0.5 mm ²	Blue	1.5 mm	0770 050 2	100
0.5 mm ²	Blue, Red	1.5 mm	0770 050 60	100
0.5 mm ²	Blue, White	1.5 mm	0770 050 58	100
0.5 mm ²	Brown	1.5 mm	0770 050 9	100
0.5 mm ²	Green	1.5 mm	0770 050 4	100
0.5 mm ²	Green, Yellow	1.5 mm	0770 050 73	100
0.5 mm ²	Grey	1.5 mm	0770 050 5	100
0.5 mm ²	Grey, Red	1.5 mm	0770 050 52	100
0.5 mm ²	Red	1.5 mm	0770 050 1	100
0.5 mm ²	Red, White	1.5 mm	0770 050 69	100
0.5 mm ²	Red, Yellow	1.5 mm	0770 050 51	100
0.5 mm ²	Violet	1.5 mm	0770 050 7	100
0.5 mm ²	White	1.5 mm	0770 050 42	100
0.5 mm ²	White, Red	1.5 mm	0770 050 573	100
0.5 mm ²	Yellow	1.5 mm	0770 050 3	100
0.5 mm ²	Yellow, Green	1.5 mm	0770 050 57	100
0.75 mm ²	Black	1.8 mm	0770 075	100
0.75 mm ²	Black, Green	1.8 mm	0770 075 50	100
0.75 mm ²	Black, Red	1.8 mm	0770 075 49	100
0.75 mm ²	Black, White	1.8 mm	0770 075 48	100
0.75 mm ²	Black, Yellow	1.8 mm	0770 075 93	100
0.75 mm ²	Blue	1.8 mm	0770 075 2	100
0.75 mm ²	Blue, Black	1.8 mm	0770 075 61	100
0.75 mm ²	Blue, Green	1.8 mm	0770 075 94	100
0.75 mm ²	Blue, Red	1.8 mm	0770 075 60	100
0.75 mm ²	Blue, White	1.8 mm	0770 075 58	100
0.75 mm ²	Brown	1.8 mm	0770 075 9	100
0.75 mm ²	Brown, White	1.8 mm	0770 075 92	100
0.75 mm ²	Green	1.8 mm	0770 075 4	100
0.75 mm ²	Green, Red	1.8 mm	0770 075 72	100
0.75 mm ²	Green, Yellow	1.8 mm	0770 075 5	100
0.75 mm ²	Grey	1.8 mm	0770 075 41	100
0.75 mm ²	Grey, Black	1.8 mm	0770 075 47	100
0.75 mm ²	Grey, Green	1.8 mm	0770 075 95	100
0.75 mm ²	Grey, Red	1.8 mm	0770 075 46	100
0.75 mm ²	Red	1.8 mm	0770 075 1	100
0.75 mm ²	Red, Blue	1.8 mm	0770 075 91	100
0.75 mm ²	Red, Grey	1.8 mm	0770 075 70	100
0.75 mm ²	Red, White	1.8 mm	0770 075 69	100
0.75 mm ²	Red, Yellow	1.8 mm	0770 075 45	100
0.75 mm ²	Violet	1.8 mm	0770 075 43	100
0.75 mm ²	Violet, Black	1.8 mm	0770 075 62	100
0.75 mm ²	White	1.8 mm	0770 075 42	100
0.75 mm ²	White, Red	1.8 mm	0770 075 573	100

Continuation **Vehicle line FLRY**

Wire cross section	Colour	Outer diameter	Art. no.	P. Qty.
0.75 mm ²	Yellow	1.8 mm	0770 075 3	100
0.75 mm ²	Yellow, Blue	1.8 mm	0770 075 571	100
0.75 mm ²	Yellow, Green	1.8 mm	0770 075 51	100
1 mm ²	Black	2 mm	0770 10	100
1 mm ²	Black, Green	2 mm	0770 090 56	100
1 mm ²	Black, Red	2 mm	0770 090 55	100
1 mm ²	Black, White	2 mm	0770 090 54	100
1 mm ²	Black, Yellow	2 mm	0770 090 65	100
1 mm ²	Blue	2 mm	0770 090 2	100
1 mm ²	Blue, Black	2 mm	0770 091 2	100
1 mm ²	Blue, Green	2 mm	0770 090 59	100
1 mm ²	Blue, Red	2 mm	0770 090 60	100
1 mm ²	Blue, White	2 mm	0770 090 58	100
1 mm ²	Brown	2 mm	0770 090 9	100
1 mm ²	Brown, White	2 mm	0770 090 76	100
1 mm ²	Green	2 mm	0770 090 4	100
1 mm ²	Green, Red	2 mm	0770 090 72	100
1 mm ²	Green, Yellow	2 mm	0770 090 5	100
1 mm ²	Grey	2 mm	0770 091 1	100
1 mm ²	Grey, Black	2 mm	0770 091 3	100
1 mm ²	Grey, Green	2 mm	0770 091 5	100
1 mm ²	Grey, Red	2 mm	0770 091 4	100
1 mm ²	Red	2 mm	0770 090 1	100
1 mm ²	Red, Blue	2 mm	0770 090 91	100
1 mm ²	Red, Grey	2 mm	0770 090 70	100
1 mm ²	Red, White	2 mm	0770 090 69	100
1 mm ²	Red, Yellow	2 mm	0770 090 51	100
1 mm ²	Violet	2 mm	0770 090 7	100
1 mm ²	Violet, Black	2 mm	0770 090 62	100
1 mm ²	White	2 mm	0770 091 0	100
1 mm ²	White, Red	2 mm	0770 090 573	100
1 mm ²	Yellow	2 mm	0770 090 3	100
1 mm ²	Yellow, Blue	2 mm	0770 090 571	100
1 mm ²	Yellow, Green	2 mm	0770 091 6	100
1.5 mm ²	Black	2.3 mm	0770 100	100
1.5 mm ²	Black, Green	2.3 mm	0770 104 56	100
1.5 mm ²	Black, Red	2.3 mm	0770 104 55	100
1.5 mm ²	Black, White	2.3 mm	0770 104 54	100
1.5 mm ²	Black, Yellow	2.3 mm	0770 104 65	100
1.5 mm ²	Blue	2.3 mm	0770 102	100
1.5 mm ²	Blue, Black	2.3 mm	0770 104 61	100
1.5 mm ²	Blue, Green	2.3 mm	0770 104 59	100
1.5 mm ²	Blue, Red	2.3 mm	0770 104 60	100
1.5 mm ²	Blue, White	2.3 mm	0770 104 58	100
1.5 mm ²	Brown	2.3 mm	0770 104 0	100
1.5 mm ²	Brown, White	2.3 mm	0770 104 76	100
1.5 mm ²	Green	2.3 mm	0770 104	100
1.5 mm ²	Green, Red	2.3 mm	0770 104 72	100
1.5 mm ²	Green, Yellow	2.3 mm	0770 104 73	100
1.5 mm ²	Grey	2.3 mm	0770 104 1	100
1.5 mm ²	Grey, Black	2.3 mm	0770 104 53	100
1.5 mm ²	Grey, Green	2.3 mm	0770 104 71	100
1.5 mm ²	Grey, Red	2.3 mm	0770 104 52	100

Wire cross section	Colour	Outer diameter	Art. no.	P. Qty.
1.5 mm ²	Red	2.3 mm	0770 101	100
1.5 mm ²	Red, Blue	2.3 mm	0770 104 91	100
1.5 mm ²	Red, Grey	2.3 mm	0770 104 70	100
1.5 mm ²	Red, White	2.3 mm	0770 104 69	100
1.5 mm ²	Red, Yellow	2.3 mm	0770 104 51	100
1.5 mm ²	Violet	2.3 mm	0770 102 0	100
1.5 mm ²	Violet, Black	2.3 mm	0770 104 62	100
1.5 mm ²	White	2.3 mm	0770 104 2	100
1.5 mm ²	White, Red	2.3 mm	0770 104 573	100
1.5 mm ²	Yellow	2.3 mm	0770 103	100
1.5 mm ²	Yellow, Blue	2.3 mm	0770 104 571	100
1.5 mm ²	Yellow, Green	2.3 mm	0770 104 57	100
2.5 mm ²	Black	2.9 mm	0770 105	50
2.5 mm ²	Blue	2.9 mm	0770 107	50
2.5 mm ²	Brown	2.9 mm	0770 109 9	50
2.5 mm ²	Green	2.9 mm	0770 109	50
2.5 mm ²	Green, Yellow	2.9 mm	0770 109 90	50
2.5 mm ²	Grey	2.9 mm	0770 109 1	50
2.5 mm ²	Red	2.9 mm	0770 106	50
2.5 mm ²	Violet	2.9 mm	0770 107 0	50
2.5 mm ²	White	2.9 mm	0770 109 2	50
2.5 mm ²	White, Red	2.9 mm	0770 109 92	50
2.5 mm ²	Yellow	2.9 mm	0770 108	50
4 mm ²	Black	3.5 mm	0770 110	25
4 mm ²	Brown	3.5 mm	0770 110 9	25
4 mm ²	Red	3.5 mm	0770 110 0	25
4 mm ²	Yellow	3.5 mm	0770 110 00	25

Vehicle line FLY

Packaged goods

- Nominal voltage: U ~ = 50 V, U- = 60 V
- PVC external sheath
- Free of silicone, cadmium and lead

Min./max. temperature conditions	-40 to 70 °C
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Wire cross section	Colour	Outer diameter	Art. no.	P. Qty.
6 mm ²	Black	4.7 mm	0770 111	25
6 mm ²	Blue	4.7 mm	0770 111 00	25
6 mm ²	Brown	4.7 mm	0770 111 9	25
6 mm ²	Red	4.7 mm	0770 111 0	25
10 mm ²	Black	6.3 mm	0770 111 2	50
10 mm ²	Brown	6.3 mm	0770 111 22	50
10 mm ²	Red	6.3 mm	0770 111 21	50
16 mm ²	Black	7 mm	0770 111 3	50

Continuation **Vehicle line FLY**

Wire cross section	Colour	Outer diameter	Art. no.	P. Qty.
16 mm ²	Red	7 mm	0770 111 301	50
25 mm ²	Black	8.9 mm	0770 112	25
25 mm ²	Red	8.9 mm	0770 112 301	25
35 mm ²	Black	10.2 mm	0770 113	25
35 mm ²	Red	10.2 mm	0770 113 301	25
50 mm ²	Black	12 mm	0770 113 5	25
50 mm ²	Red	12 mm	0770 113 501	25
70 mm ²	Black	14.4 mm	0770 113 7	25
70 mm ²	Red	14.4 mm	0770 113 701	25

Complies with DIN/ISO 6722

Vehicle line single core, double insulated FLRYY

On plastic reel for ORSY® 10 roll system

- PVC external sheath, black
- Rated voltage: U ~ = 50 V, U- = 60 V
- Free of silicone, cadmium and lead



Number of strands	1 PCS
Colour	Red
Min./max. temperature conditions	-40 to 70 °C

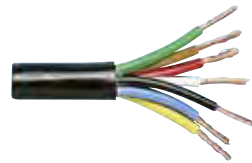
Wire cross section	Nominal cable cross section	Outer diameter	Art. no.	P. Qty.
1.5 mm ²	1 x 1.5 mm ²	3.6 mm	0770 201	50
2.5 mm ²	1 x 2.5 mm ²	4.2 mm	0770 204	25

Complies with DIN/ISO 6722

Vehicle line round cable (hose line) FLRYY

Packaged goods

- Nominal voltage: U ~ = 50 V, U- = 60 V
- PVC external sheath, black
- Free of silicone, cadmium and lead



Nominal cable cross section	Colour	Outer diameter	Min./max. temperature conditions	Art. no.	P. Qty.
2 x 0.35 mm ²	Black, White	4.3 mm	-40 to 70 °C	0770 127	50
2 x 0.5 mm ²	Black, White	4.4 mm	-40 to 70 °C	0770 126	50
2 x 0.75 mm ²	Black, White	4.8 mm	-40 to 70 °C	0770 121	50
2 x 1 mm ²	Black, White	5.2 mm	-40 to 70 °C	0770 122	50
2 x 1.5 mm ²	Black, White	6.2 mm	-40 to 70 °C	0770 120	50
3 x 0.75 mm ²	Brown, Black, White	5.1 mm	-40 to 70 °C	0770 129	50
3 x 1 mm ²	Brown, Black, White	5.7 mm	-40 to 70 °C	0770 128	50
3 x 1.5 mm ²	Brown, Black, White	6.7 mm	-40 to 70 °C	0770 116	50

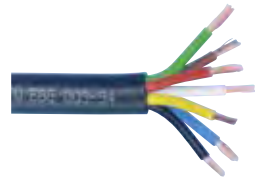
Nominal cable cross section	Colour	Outer diameter	Min./max. temperature conditions	Art. no.	P. Qty.
4 x 1.5 mm ²	Brown, Yellow, Black, White	7.3 mm	-40 to 70 °C	0770 119	50
5 x 1 mm ²	Brown, Grey, Green, Red, White	7.5 mm	-40 to 85 °C	0770 118 005	50
5 x 1.5 mm ²	Brown, Yellow, Green, Black, White	8.1 mm	-40 to 70 °C	0770 117	50
6 x 1.5 mm ² , 1 x 2.5 mm ²	Blue, Brown, Yellow, Green, Red, Black, White	9.6 mm	-40 to 70 °C	0770 118 1	50
7 x 1 mm ²	Blue, Brown, Yellow, Green, Red, Black, White	8.1 mm	-40 to 70 °C	0770 118 0	50
7 x 1.5 mm ²	Blue, Brown, Yellow, Green, Red, Black, White	9.1 mm	-40 to 70 °C	0770 118	50
8 x 1.5 mm ²	Blue, Brown, Yellow, Green, Red, Black, Violet, White	10.8 mm	-40 to 70 °C	0770 123	50
13 x 1.5 mm ²	Blue, White, Brown, Yellow, Grey, Green, Orange, Red, Black, Violet	13 mm	-40 to 70 °C	0770 124	50

Complies with DIN/ISO 6722

Hose line FLRY 11 Y

Packaged goods

- Nominal voltage: $U \sim = 50 \text{ V}$, $U - = 60 \text{ V}$
- Core insulation on PVC-basis
- Internal sheath on special PVC-basis
- External sheath made from special polyurethane, colour: black
- UV-resistant and also largely resistant to oil, inclement weather and chemicals



Min./max. temperature conditions	-40 to 85 °C
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Number of strands	Nominal cable cross section	Colour	Outer diameter	Art. no.	P. Qty.
7 PCS	2 x 4 mm ² , 3 x 1.5 mm ² , 1 x (2 x 1.5 mm ²) with data pair, ABS/EBS cable	Black, White, Yellow, Brown, Red, Grey	12.1 mm	0770 118 007	50
15 PCS	10 x 1.5 mm ² , 3 x 2.5 mm ² , 1 x (2 x 1.5 mm ²) with data pair (24 V)	Blue, White, Brown, Yellow, Grey, Green, Orange, Rosy, Red, Black	14.4 mm	0770 118 015	50

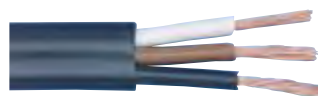
Complies with ISO 4141, Parts 1, 2 and 4 and DIN/ISO 6722-1 to 4

ADR-approved

TÜV-certified (TÜ.EGG.003-94)

Vehicle line flat cable FLRYY

- Nominal voltage: $U \sim = 50 \text{ V}$, $U_- = 60 \text{ V}$
- PVC external sheath, black
- Free of silicone, cadmium and lead



Min./max. temperature conditions	-40 to 70 °C
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Nominal cable cross section	Colour	Width x thickness	Design	Art. no.	P. Qty.
2 x 0.75 mm ²	Red, Black	5.5 x 3.5 mm	Bundle	0770 202 075	100
2 x 1 mm ²	Red, Black	5.3 x 3.6 mm	Coil	0770 202 010	50
2 x 1.5 mm ²	Red, Black	6.2 x 3.8 mm	Bundle	0770 202 1	100
2 x 1.5 mm ²	Red, Black	6.2 x 3.8 mm	Coil	0770 202	25
2 x 2.5 mm ²	Red, Black	7.4 x 4.4 mm	Bundle	0770 203 1	100
2 x 2.5 mm ²	Red, Black	7.4 x 4.4 mm	Coil	0770 203	15
3 x 0.75 mm ²	Brown, Black, White	7.5 x 3.5 mm	Bundle	0770 203 075	50
3 x 1 mm ²	Brown, Black, White	8.3 x 3.8 mm	Bundle	0770 203 100	50
3 x 1.5 mm ²	Brown, Black, White	8.7 x 3.8 mm	Bundle	0770 205	50

Complies with DIN/ISO 6722

Highly flexible line H07V-K

PVC external sheath

Min./max. nominal voltage	450/750 V/DC
Min./max. temperature conditions	-30 to 70 °C

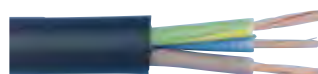


Wire cross section	Colour	Art. no.	P. Qty.
25 mm ²	Black	0770 772 625	1
25 mm ²	Red	0770 772 125	1
35 mm ²	Black	0770 772 635	1
35 mm ²	Red	0770 772 135	1

Rubber hose line H07RN-F

Packaged goods

- Resistant to oil, petrol and UV rays
- Fine core Cu conductor compliant with VDE 0295, conductor category 5
- Neoprene external sheath, colour: black



Min./max. nominal voltage	450/750 V/AC
Min./max. temperature conditions	-25 to 60 °C
Ultraviolet resistance	Yes

Nominal cable cross section	Colour	Art. no.	P. Qty.
3G 1.5 mm ²	Green, Yellow, Blue, Brown	0770 116 5	50
7 x 1.5 mm ²	Green, Yellow, Black with white numerics	0770 118 6	50

Silicon lead SIFF

Highly flexible, superfine single wire

- Conductor: Tin-plated CU strand (CuSn)
- Insulation: Silicon E12 in accordance with VDE 0282 Part 1
- Increased heat resistance
- Halogen-free
- Does not help fire spread
- Resistant to a wide range of oils, alcohols and other chemical media



Min./max. temperature conditions	-35 to 180 °C
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Wire cross section	Colour	Number of cords x diameter of cord	Outer diameter	Art. no.	P. Qty.
0.5 mm ²	Black	256 x 0.05 mm	1.7 mm	0770 260 050	10
0.75 mm ²	Black	384 x 0.05 mm	2.1 mm	0770 260 075	10
1.5 mm ²	Black	392 x 0.07 mm	2.4 mm	0770 260 150	10
2.5 mm ²	Black	651 x 0.07 mm	3.3 mm	0770 260 250	5
4 mm ²	Black	1050 x 0.07 mm	4.2 mm	0770 260 400	5
0.5 mm ²	Red	256 x 0.05 mm	1.7 mm	0770 261 050	10
0.75 mm ²	Red	384 x 0.05 mm	2.1 mm	0770 261 075	10
1.5 mm ²	Red	392 x 0.07 mm	2.4 mm	0770 261 150	10
2.5 mm ²	Brown	651 x 0.07 mm	3.3 mm	0770 261 250	5
4 mm ²	Red	1050 x 0.07 mm	4.2 mm	0770 261 400	5
0.5 mm ²	Yellow	256 x 0.05 mm	1.7 mm	0770 262 050	10
0.75 mm ²	Yellow	384 x 0.05 mm	2.1 mm	0770 262 075	10
1.5 mm ²	Yellow	392 x 0.07 mm	2.4 mm	0770 262 150	10

According to EN 60228 / VDE 0295 cl. 6

Silicon lead SIFF assortment

90 pieces in system box 4.4.1

- Highly flexible, superfine single wire
- Conductor: Tin-plated CU strand (CuSn)
- Insulation: Silicon E12 in accordance with VDE 0282 Part 1
- Increased heat resistance
- Halogen-free
- Does not help fire spread
- Resistant to a wide range of oils, alcohols and other chemical media



System dimensions	4.4.1
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ORSY

Art. no. 5964 077 026

P. Qty.: 1

According to EN 60228 / VDE 0295 cl. 6

Body Sealing Plugs

For sealing or closing off holes

- Good resistance to corrosion, weathering, ageing, ozone and oils as well as petrol and solvent splashes
- Closed on one side
- Silicone-free



Silicone-free	Yes
Colour	Black

Drill hole	Installation thickness (h1)	Material	Art. no.	P. Qty.
8 mm	2 mm	Plastic	0561 18 0	100
18 mm	2 mm	Rubber	0561 518	25/100
20 mm	2 mm	Rubber	0561 520	25/100
22 mm	2 mm	Rubber	0561 522	25/100
25 mm	3 mm	Rubber	0561 525	25/100
28 mm	3 mm	Rubber	0561 528	25/100
30 mm	3 mm	Rubber	0561 668 1	25/100

Body Sealing Plugs

For sealing or closing off holes

Good resistance

against corrosion, weathering, ageing, ozone, oil, splashes of gasoline and solvents

Closed on one side

Silicone-free



Installation thickness (h1)	2 mm
Silicone-free	Yes
Material	Rubber
Colour	Black

Drill hole	Art. no.	P. Qty.
6 mm	0561 16	50/100
8 mm	0561 18	50/100
10 mm	0561 110	50/100
12 mm	0561 112	50/100
14 mm	0561 114	50/100
18 mm	0561 116	50/100

Cable entry plate

Ideal for use in tight spaces. High packing density in a very small space.

- Significant reduction in working time compared with conventional systems
- Space saving of over 50% compared with conventional cable glands



Suitable for min./max. wall thickness	1.5-2 mm
IP protection class	IP 66

Length x width x height	147.5 x 59.5 x 16.8 mm
Min./max. temperature conditions	-30 to 100 °C
Colour	Black
Material	PA 66 GF25 V-0 - Polyamide
Material of the sealing ring	Ethylene propylene diene terpolymer rubber EPDM
Halogen-free	No
Silicone-free	No

Number of openings suitable for pipe diameter	Art. no.	P. Qty.
12 x 8.0-12 mm	0967 703 001	5
16 x 3.0-6.5 mm, 4 x 5.0-9.2 mm, 2 x 8.0-12.5 mm	0967 703 002	5
6 x 3.0-6.5 mm, 4 x 5.0-9.2 mm, 4 x 9.6-15.9 mm	0967 703 003	5
23 x 4.1-8.1 mm	0967 703 004	5
17 x 5.0-9.2 mm	0967 703 005	5
29 x 3.0-6.5 mm	0967 703 006	5

Loudspeaker cable

On plastic reel for ORSY® 10 roll system

Material of the cable	PVC-coated
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Nominal cable cross section	Colour	Art. no.	P. Qty.
2 x 0.75 mm ²	Brown, Red	0770 300	50
2 x 1.5 mm ²	Brown, Red	0770 115	50
2 x 1.5 mm ²	Transparent	0770 501	25
2 x 2.5 mm ²	Transparent	0770 502	25
2 x 4 mm ²	Transparent	0770 503	25
4 x 0.75 mm ²	Red, Black, Blue, White	0770 400	25
4 x 1.5 mm ²	Blue, White, Red, Black	0770 350	20

USB car charger, 2.4 A

Car quick charger with 2 USB connections for charging USB devices

- Universal rapid charge function, compatible with Apple, Samsung, HTC, Sony etc.
- Intelligent charge control, automatic detection of maximum possible charge current
- Charges as quickly as the original charger

Material	Plastic
Product weight (per item)	21 g
Length	48 mm
Width	25 mm



Art. no. 0837 900 103

P. Qty.: 1

USB data and charging cable 2in1 Micro and USB Type-C connector

High-quality cable with robust finish enables the synchronization and charging with up to 480 Mbps.

- Fast charging function
- Aluminium cable head with load relief



Material	Plastic
Product weight (per item)	57 g
Length	120 cm

Art. no. 0837 900 107

P. Qty.: 1

USB data and charging cable 2in1 Micro and Apple connector

High-quality cable with robust finish enables the synchronization and charging with up to 480 Mbps.

- Fast charging function
- Aluminium cable head with load relief



Material	Product weight (per item)	Length	Colour	Art. no.	P. Qty.
Plastic	40 g	120 cm		0837 900 106	1
Thermoplastic elastomer	46 g	2 m	Black	0837 900 108	1

Starter battery DURACELL® PROFESSIONAL HD

Robust power pack for commercial vehicles

- Starts engine reliably and supplies sufficient power to on-board electrical system
- Easy to maintain with visible electrolyte marking and practical screw connection
- Robust design
- Heavy duty: Cycle and vibration-proof (EN 50342-1 classification E3/V3)
- Pocket separators to prevent short circuits
- Product identification with UK number and EN/SAE cold cranking amps
- With handle (mG design)



Battery design	mG
Floor strip	B00
Terminal	1
Nominal voltage	12 V/DC

Supplier product designation	Type description	ETN number	Housing type	Rechargeable battery/ battery capacity	Art. no.	P. Qty.
DP 110	UK 663/DIN 605 28 610 47	610 047 072	Compact	110 Ah	0511 201 001	1
DP 110 L	UK 664/DIN 605 27 610 48	610 048 072	Compact	110 Ah	0511 201 002	1
DP 140	UK 637/SAB 683/DIN 620 34 640 35	640 035 076	A	140 Ah	0511 201 003	1
DP 180	UK 629/SAB 696/DIN 670 43 680 08/32	680 032 095	B	180 Ah	0511 201 004	1
DP 225	UK 632/SAB 688/DIN 700 27 725 11	725 011 105	C	225 Ah	0511 201 005	1

Starter battery DURACELL® PROFESSIONAL SHD

Robust power pack with highest safety standards for commercial vehicles

- Starts engine reliably and supplies sufficient power to on-board electrical system
- Maximum safety thanks to central degassing, back ignition protection and safety screw connection
- Super heavy duty: Extra cycle and vibration-proof (EN 50342-1 classification E4/V3)
- Enhanced leak protection on types 145, 180 and 225 Ah
- Entirely maintenance free
- Product identification with UK number and EN/SAE cold cranking amps
- With handle, central degassing and back ignition protection (mGGARZS design)



Switching	3
Battery design	mGGARZS
Floor strip	B00
Terminal	1
Nominal voltage	12 V/DC

Supplier product designation	Type description	ETN number	Housing type	Rechargeable battery/ battery capacity	Art. no.	P. Qty.
DP 145 SHD	UK 637 SHD/ SAB 685/DIN 620 34 640 35 645 03	645 103 080	A	145 Ah	0511 202 003	1
DP 180 SHD	UK 629 SHD/ SAB 696/DIN 670 43 680 08/32	680 108 100	B	180 Ah	0511 202 005	1
DP 225 SHD	UK 632 SHD/ DIN 700 27 725 03/11	725 103 115	C	225 Ah	0511 202 006	1

Tachograph disc for EC tachographs

Approved for all EC tachographs

Approved for use throughout the EU

Manufactured in accordance with DIN ISO 9001

Automatic discs can be evaluated electronically

Rotogravure printing method

Clear contours

Abrasion resistant

No damage to tachograph due to soiling

E1 numbers of new tachograph models are automatically updated on the tachograph discs



Type description	Moto Meter number	Comparison number	E1 number	Art. no.	P. Qty.
100 EC = 100 km/h combination disc	517.601.0001 664.910.1480	100-24 EC 4K	03/04/07/08/09/10/11/12/15/18/21/22/23/26/29/30/31/32/35/36/37/40/41/44/45/46/47/48/53/54/55/56/57/58/59/60/63/64/65/66/67/68/69/70/72/73/74/75/78/79/80/81/82/83	0850 031 00	100
125 EC = 125 km/h combination disc	517.601.2506	125-24 EC 4K	03/04/07/08/09/10/11/12/15/18/21/22/23/26/29/30/31/32/35/36/37/40/41/44/45/46/47/48/53/54/55/56/57/58/59/60/63/64/65/66/67/68/69/70/72/73/74/75/78/79/80/81/82/83	0850 061 25	100/5000
125 EC = 125 km/h, automatic/electronic	517.601.2505	125-24/2 EC 4B	23/26/31/32/37/40/45/46/55/56/57/60/63/64/69/70/72/73/74/75/78/79/82/83	0850 021 25	100
140 EC = 140 km/h combination disc	517.601.4001	140-24 EC 4K	37/40/41/44/45/46/47/48/53/54/55/56/57/60/63/64/66/67/69/70/72/73/74/75/82/83	0850 071 40	100
180 EC = 180 km/h automatic	517.601.8001	180-24 EC 4B	57/60/72/73/82/83	0850 091 80	100

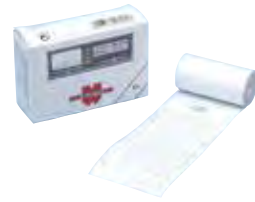
Should an accident evaluation be necessary, please observe the following:

Send the disc together with a brief note, the customer address etc. to the PCM department in Künzelsau, Germany.

Thermal paper

For digital tachographs:

- High-quality thermal paper in accordance with EC Regulation 432/2004, Annex 1B
- For all approved digital tachographs
- Approved by various commercial vehicle manufacturers and monitoring device manufacturers
- Coreless winding to protect the inside of the tachograph and avoid additional waste
- Roll end mark on last 50 cm
- Each roll is individually sealed in a special film
- Under normal storage conditions, the paper can be read and printed on for 10 years
- High level of resistance



Outer diameter	28 mm
Width	57.5 mm
Length	8 m
Max. temperature resistance	90 °C

Art. no. 0850 100 300

P. Qty.: 3



PE seat protector on roll

Suitable for use with airbags

- White, oil and water-resistant PE film
- Optimal material thickness for elasticity in all directions, thanks to film thickness of 13 μm (0.013 mm)
- Exact perforation ensures high tear-off quality

Length x width	1300 x 790 mm
Number of tear-offs	500 PCS
Material	PE - Polyethylene
Roll width	620 mm
Weight of roll	10 kg
Colour	White

Art. no. 0899 500 01

P. Qty.: 1

Seat protector, nylon

Robust and reusable

- Suitable for all standard vehicle types
- PU-coated special nylon fabric
- Repels water, oil and grease
- Integrated elastic band for a perfect fit
- Reinforced with fabric hem all round
- Suspension eyelet
- Washable up to 40°C

Length x width	1450 x 760 mm
Material	Nylon (polyamide)

Art. no. 0899 500 010

P. Qty.: 1



Seat protector, synthetic leather

Robust and reusable

- Suitable for all standard vehicle types
- Hard-wearing, high-quality synthetic leather
- Headrest shape for ideal fit
- Fully hemmed
- Washable up to 40°C

Length x width	1430 x 590 mm
Material	Faux leather
Colour	Black

Art. no. 0899 500 015

P. Qty.: 1



Crepe floor mats

Particularly tear-resistant

- Particularly high resistance to tearing, made from 100% recycled paper
- Protects footwell from dirt

Length x width	500 x 350 mm
Number of tear-offs	500 PCS

Art. no. 0899 500 031

P. Qty.: 1



Adhesive film for steering wheel protection

With red interchangeable handle

- One roll is sufficient for approx. 215 steering wheels
- Continuous film suitable for all steering wheel types
- Material: PE adhesive film, transparent
- Material thickness: 14 µm
- Dimensions: 300 m x 140 mm (L x W)



Length	300 m
Material	PE - Polyethylene

Art. no. 0899 500 025

P. Qty.: 1

Adhesive film for steering wheel protection

- One roll is sufficient for approx. 215 steering wheels
- Continuous film suitable for all steering wheel types
- Material: PE adhesive film, transparent
- Material thickness of the adhesive film: 14 µm
- Dimensions of the adhesive film (L x W): 300 m x 140 mm



Length	300 m
Width	140 mm
Material	PE - Polyethylene

Art. no. 0899 500 026

P. Qty.: 1

PE steering wheel protector on roll

Flexible and non-slip

- White, oil and water-resistant PE film
- Optimal durability and flexibility thanks to high material thickness of 39 µm (0.039 mm)
- One roll is sufficient for approx. 500 steering wheels
- Exact perforation ensures high tear-off quality
- Dust-proof thanks to practical dispenser carton



Length	310 mm
Width	150 mm
Material	PE - Polyethylene

Art. no. 0899 500 02

P. Qty.: 1

Nylon steering wheel protector

Elasticated around the outside for a perfect fit

- PU-coated special nylon fabric
- Repels water, oil and grease
- Reinforced with extra material
- Washable up to 40°C

Width	100 mm
Material	Nylon (polyamide)
Oil-repellent	Yes
Water-repellent	Yes



Art. no. 0899 500 020

P. Qty.: 1

Vehicle interior protection set

5-piece vehicle interior protection set consisting of seat protector, foot mat, protective film for steering wheel, gearstick and handbrake

- All required protectors on a single tear-off segment
- Simple to plan material requirements, as only one item; saves storage space and makes dispenser systems unnecessary
- Suitable for most car interiors
- Helps mechanics meet the required quality standards
- All protectors are dust-protected in a dispenser box (L x W x H mm: 720 x 170 x 170)
- Seat protector and floor mat provide protection against oil, dirt and water
- The multi-layer film is especially slip-resistant and adherent
- Highly expandable film, adapts flexibly to the contours
- Transparent material allows symbol recognition



Roll width	720 mm
Roll diameter	160 mm
Number of tear-offs	200 PCS
Number of pieces in assortment/set	1000 PCS

Art. no. 0899 500 051

P. Qty.: 1

Vehicle interior protection set

5-piece protector set for vehicle interiors

- All necessary protectors are packed in a dust-proof polythene bag
- Easy logistics as comprises just one item; saves on storage space and dispensing systems
- Suitable for most passenger car interiors



Number of tear-off units/set	100 PCS
Number of pieces in assortment/set	500 PCS

Art. no. 0899 500 054

P. Qty.: 1

Tap

Metal tap with 3/4 inch connection for 60-l metal drum

Material	Metal
Product weight (per item)	299 g

Art. no. 0891 302 06

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



3/4-inch tap

Plastic tap with 3/4-inch connection for 60-l metal drum

Material	Plastic
Product weight (per item)	47 g

Art. no. 0891 302 07

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Tap

For 20-litre plastic canister

Product weight (per item)	1 g
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Art. no. 0997 368 031

P. Qty.: 1



Plastic funnel

With removable sieve

- Oil and fuel resistant
- Food safe
- Robust plastic material

Material	Plastic
Colour	Red



Liquid volume	Diameter (Ø)	Product weight (per item)	Art. no.	P. Qty.
1100 ml	160 mm	135 g	0891 410 5	1
1200 ml	160 mm	102.5 g	0891 410 3	1
1200 ml	160 mm	122 g	0891 410 4	1
2000 ml		162.85 g	0891 410 2	1
4000 ml		233 g	0891 410 1	1

Please consider the legal instruction at the beginning of this chapter.

Plastic funnel set

4 pieces

- Oil and fuel resistant
- Food safe
- Removable sieve
- Robust plastic material

Includes:

- 1x plastic funnel Ø 50, h=60 mm
- 1x plastic funnel Ø 70, h=75 mm
- 1x plastic funnel Ø 90, h=90 mm
- 1x plastic funnel Ø 115, h=100 mm



Material	Plastic
Number of pieces	4 PCS
Colour	Red
Product weight (per item)	72 g

Art. no. 0891 410 010

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Oil filler funnel set

7 pcs. For easy filling of engine oil without overflow

- Quick-change system with 5 different adapters for all common vehicles, such as VW Golf
- Easy filling even in hard-to-reach places thanks to the angled adapter and extension included in the scope of delivery
- Plastic funnel with 1-L capacity

Liquid volume	1 l
Material	Aluminium
Number of pieces	7 PCS
Colour	Aluminium (base material)
Diameter (Ø)	100 mm
Product weight (per item)	3 kg



Art. no. 0891 410 10

P. Qty.: 1

Measuring jug

With 10 ml increment scale

- Resistant to acids and chemicals
- Ideal for transferring oil, coolant, screenwash etc.

Material	Plastic
Colour	White
Resistance against	Oil, Acid



Contents	Scale	Art. no.	P. Qty.
1 l	Scale: 10 ml	0705 800 050	1
2 l	Scale: 20 ml	0705 800 100	1
5 l	Scale: 100 ml	0705 800 500	1

Please consider the legal instruction at the beginning of this chapter.

Measuring cups

With pouring spout

- Acid and oil-resistant
- Ideally suited for transferring oil, coolant, screenwash, etc.

Material	HDPE - High density polyethylene
Colour	White
Resistance against	Oil, Acid



Contents	Scale	Art. no.	P. Qty.
0.5 l	Scale: 0.25 l	0891 400 05	1
1 l	Scale: 0.25 l	0891 400 1	1
2 l	Scale: 0.5 l	0891 400 2	1
3 l	Scale: 0.5 l	0891 400 3	1

Please consider the legal instruction at the beginning of this chapter.



360° Pump spray bottle

Special suction system allows 360° spraying for reliable overhead, diagonal or vertical operation

- Easy to open owing to surface-feel elements
- Ergonomic, robust spray atomiser with long handle
- Customisable label

Contents	1 l
----------	-----

Art. no. 0891 503 360

P. Qty.: 1

Pump spray bottle ECO

Produced from renewable raw material cane sugar

- Environmentally friendly
- Ergonomic, sturdy spray atomiser with long handle
- Label for individual identification
- Good stability due to conical shape

Contents	1 l
----------	-----

Art. no. 0891 503 300

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.



Pump spray bottle Perfect Foam

Ideal for applying cleaning foam for vehicle and commercial car cleaning

- Effective foam that effectively dissolves and easily removes dirt, insects and tough road grime
- 3 foam inserts ensure different consistency and variable levels of foaming – from viscous to thin liquid
- Ideal for alkaline cleaners

Contents	1.5 l
----------	-------

Art. no. 0891 503 021

P. Qty.: 1



360° Spray bottle

Solvent-resistant suction system enables 360° spraying action

- Special suction system enables 360° spraying action
- Sealable control nozzle up to 15 bar piston pressure
- Transparent, shatter-proof 0.5 litre container
- Gauge in 100 ml graduations

Contents	500 ml
Material	Polypropylene/polyethylene
Colour	Transparent, matt

Art. no. 0891 502 360

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Suitable for mineral, alkaline, base and oily Würth products. Not suitable for resin remover, acetone cleaner and 1A parts and assembly cleaner.



Spray bottle

For user-friendly application of liquids

- Natural-coloured, shatter-proof container
- Gauge in 100 ml and 200 ml graduations

Customisable label

- Space for labelling the filled liquid
- Extra fields for safety instructions



Contents	500 ml
Material	PE - Polyethylene
Colour	Natural

Art. no. 0891 502 002

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Fuel canister, steel, 20 litres

Fuel canisters for transporting petrol and diesel

- UN-approved fuel canister for the safe transport of specific dangerous goods, e.g. fuel and oil for construction machinery and small vehicles, etc.
- TUV type-tested label, safety and regular production monitoring
- Wall thickness 0.9 mm in accordance with to DIN 7274



Material	Steel
Contents	20 l
Width	345 mm
Length	165 mm
Height	468 mm
Resistance against	Fuel
Volumetric capacity	20 l

Colour	Art. no.	P. Qty.
Flame red RAL 3000	0891 420 721	1
Olive green RAL 6003	0891 420 722	1

Please consider the legal instruction at the beginning of this chapter.



- Caution: Check the seal for leaks after every refuelling application or before transport!
- Observe the marking for transport of the fuel canister. See note
- The seal in the canister cover is a wear part and must be replaced regularly.
Seals can be found under art. no. 0891420744 in PU 5.
- When transporting canisters containing fuel, follow the provisions of the GHS and ADR regulations where necessary, and attach the legally required labelling to the canister.

Our safety adhesive labels can be used for this; see art. no. 0891420740.

Fuel canister, 5 l

With two discharge pipes for petrol and diesel

- Suitable for E10
- Spout for diesel vehicles integrated into the body of the canister (black)
- Child-safe, certified safety lock



Material	HDPE - High density polyethylene
Colour	Black, Red
Contents	5 l
Width	147 mm
Length	265 mm
Height	247 mm
Resistance against	Fuel

Art. no. 0824 010 067

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

TÜV-tested manufacture

The discharge pipes are suitable for vehicles with misfuelling protection guard and thus meet all current requirements.

Spout with flexible metal pipe

For pouring fuel and fuel mixtures from the 20-litre steel fuel canister

For safely pouring fuel from the fuel canister and even refuelling of construction machinery and small vehicles. Using the right spout, avoid incorrect refuelling.



Material	Metal
Length	380 mm

Product weight (per item)	Art. no.	P. Qty.
33 g	0891 420 741	1
34 g	0891 420 742	1

PLEASE NOTE!!! At the start and at the end of the refuelling, a small amount of fuel may escape from the vent at the outlet!

- The spouts can be attached easily to the canister. There are already holes in the canister for the retaining clip supplied with the spout.
Caution: Canister not included in the scope of delivery.
- The seal in the cap of the spout is a wear part and must be replaced from time to time. Seals can be found in art. no. 0891420745 in PU 5.
- Please always follow the appliance manufacturer's instructions when refuelling. Never refuel a hot appliance or while the engine is still running.

Plastic workshop oiler

Ergonomic polyethylene oil container

- Virtually complete draining due to moving suction tube
- Double-action brass pump with ball valve
- Pump unit enables metered droplet outlet

Material	PE - Polyethylene
----------	-------------------



Contents	Max. external diameter	Art. no.	P. Qty.
0.2 l	76 mm	0695 555 324	1
0.3 l	85 mm	0695 555 325	1

Please consider the legal instruction at the beginning of this chapter.

Metal workshop oiler

Ergonomic zinc diecast oil container

- Virtually complete draining due to moving suction tube
- Double-action brass pump with ball valve
- Pump unit enables metered droplet outlet

Material	Die-cast zinc
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Contents	Max. external diameter	Art. no.	P. Qty.
0.2 l	76 mm	0695 555 401	1
0.3 l	85 mm	0695 555 402	1

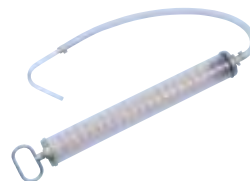
Please consider the legal instruction at the beginning of this chapter.

Manual dispensing pump

For oils, cleaners, brake fluids and liquids

- Manual pump with transparent PVC cylinder
- Ascending and descending graduations in 50-ml increments

Material	PVC - Polyvinyl chloride
Pump length	550 mm
Hose length	750 mm
Product weight (per item)	953 g
Contents	1 l



Art. no. 0695 555 406

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Not suitable for explosive liquids or acids

EVAPO® vehicle A/C cleaner Clean

Hygienic vehicle air-conditioning unit cleaning agent dispensed by an ultrasonic misting device (EVAPO-mat®).

Effectively eliminates and prevents offensive odours and allergic reactions caused by bacteria and fungi.

Chemical basis	Water and cationic polymer
Smell/fragrance	Neutral
Colour	Colourless
Density	1 g/cm ³



Contents	Weight of content	Art. no.	P. Qty.
100 ml	100 g	0893 139 2	6
1000 ml	1000 mg	0893 139 101	1/6

Please consider the legal instruction at the beginning of this chapter.

Preventive and regular use is required for keeping air-conditioning unit odour-free over the long term (at least 1–2 times per year). EVAPO Clean may only be applied with EVAPO®mat.

Take care when using biocidal products. Always read the label and product information before use.

EVAPO® vehicle A/C cleaner Fresh

Fast-acting odour absorber for use in the EVAPO® mat system.

Reliable odour elimination

- The aerosol is ideal for reaching hard-to-reach areas
- Does not leave any traces behind on windows or interior
- 100 ml is sufficient for one application
- Diffuses a pleasant, fresh citrus scent

Chemical basis	Water tenside
Smell/fragrance	Lemon
Colour	Colourless
Density	1 g/cm ³



Contents	Weight of content	Art. no.	P. Qty.
100 ml	100 g	0893 139 3	6
1000 ml	1000 g	0893 139 100	1/6

Please consider the legal instruction at the beginning of this chapter.

EVAPO®fresh may only be applied with EVAPO®mat.

Air-conditioning system cleaner

Easily cleans all cooling devices and air-conditioning systems in buildings of soot, dust, grease and oil, thereby providing longer service life and lower energy consumption.

Excellent cleaning performance

Thanks to its excellent creeping properties, it also reaches inaccessible areas.

High degree of material compatibility

As no AOX or silicone are used.

Longer service life

As the system is cleaned of dust, dirt, soot and oil.



Contents	1000 ml
Smell/fragrance	Neutral
Colour	Yellowish
pH value	13
Ratio of ingredients	1:1
AOX-free	Yes
Silicone-free	Yes
Water-soluble	Yes

Art. no. 0893 117 500

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

In providing this information, we want to ensure you receive the best advice based on our experience and the tests we perform. Preliminary testing is required!

A/C leakage stop additive

For preventative use, to seal slightly perished and brittle O-rings in R134a air-conditioning units.

TCP reduces wear

- Longer compressor service life
- Improves the compressor service life
- Reduces noises developing in the compressor
- (Tri-cresyl-phosphate) Additive specifically developed for vehicle air-conditioning compressors for reducing mechanical wear (friction) in the compressor (piston etc.)

Compatible with PAG and ester oil



Contents	30 ml
----------	-------

Art. no. 0892 764 500

P. Qty.: 6

Please consider the legal instruction at the beginning of this chapter.

Not suitable for sealing leaks on metallic components (evaporator, compressor, condenser etc.).

AC leakage stop plus

Preventive use for sealing micro-leaks on metal and rubber components, and for locating leaks in R134a and R1234yf vehicle air-conditioning systems

- Can be mixed with mineral, ester and PAG oils
- Supports lubrication of the compressor and prolongs service life
- The UV dye which is contained enables leak detection with the help of a conventional UV light

Contents	60 ml
Container	Can

Art. no. 0892 764 776

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

Do not attach the can to the high-pressure side of the air-conditioning circuit, as this could cause the container to explode, which may result in personal injury.





Air-conditioning refrigerant R134 a

Accessories for maintaining, servicing and retrofitting R134a vehicle air-conditioning systems

- Design-tested, refillable and stable reusable bottle
- High stand-up collar and bleeder valve with 3/4 inch male thread
- Colourless, odourless and tasteless
- Non-toxic
- Non-inflammable or non-explosive

Weight of content	12 kg
-------------------	-------

Art. no. 0892 764 001

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Air-conditioning refrigerant R1234yf

Accessories for maintaining, servicing and retrofitting R1234yf vehicle air-conditioning systems.

- Colourless, odourless and tasteless
- Non-toxic
- Design-tested, refillable and stable reusable bottle
- High stand-up collar and bleeder valve with 3/4" male thread

Weight of content	5 kg
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Art. no. 0892 123 405

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Flammable gases, category 1; pressurised gases, liquefied gas



A/C leak detection additive

Fluorescent additive for locating leaks in R134a climate systems without climate service device.

- Air-conditioning service unit not required to perform a service
Portable

Contents	7.5 ml
----------	--------

Art. no. 0892 764 010

P. Qty.: 6

Please consider the legal instruction at the beginning of this chapter.

Adapter art. no. 0764000114 can only be used with a 134a coupling.



A/C leak detection additive

Fluorescent additive for localising leaks in R 134a air-conditioning systems without air conditioning service units.

Air-conditioning service unit not required to perform a service

Portable

Contents	1.8 ml
----------	--------

Art. no. 0892 764 011

P. Qty.: 6

Please consider the legal instruction at the beginning of this chapter.

If the special filling adapter is mounted, no pressure is displayed on the service unit pressure gauge. Remove the adapter to measure the high pressure.

Adapter art. no. 0764000111 and art. no. 0764000112 can only be used with a 134a coupling.



Premium UV leak detection additive

Fluorescent additive for localising leaks in R134a and R1234yf air-conditioning systems in accordance with SAE J2297

- Sufficient for 32 applications in a car or 16 applications in a lorry
- Compatible with PAG and ester oil
- High proportion of fluorescent ingredients
- Does not damage O-rings and seals

Contents	240 ml
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Art. no. 0892 764 034

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Only insert the leak detection additive into the air-conditioning system via the red fresh oil tank coupling.



Basic UV leak detection additive

Fluorescent additive for locating leaks in R134a and R1234yf air-conditioning systems

- Sufficient for 32 applications in a car or 16 applications in a lorry
- Compatible with PAG and ester oil
- High proportion of fluorescent ingredients
- Does not damage O-rings and seals

Contents	240 ml
----------	--------

Art. no. 0892 764 134

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Only insert the leak detection additive into the air-conditioning system via the red fresh oil tank coupling.





Air conditioning disinfectant spray

Special cleaner to clean and disinfect vehicle air conditioning systems

- Disinfects, cleans and protects
- Extra-long hose with special nozzle for direct application to the air-conditioning unit heat exchanger
- pH value: 5.0

Contents	300 ml
Weight of content	265 g
Chemical basis	Isopropanol
Smell/fragrance	Alcohol
Colour	Colourless
Bio-degradable	No

Art. no. 0893 764 10

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

PAG oil 100

PAG polyalkylene glycol air-conditioning compressor oil for vehicle air-conditioning systems using R134a refrigerant

- Good mixing properties
- Optimum lubrication effect
- High degree of wear protection
- Very hydrophobic
- Ensures thermal stability

Contents	250 ml
Viscosity/consistency	Liquid

Art. no. 0892 764 026

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Do not mix with other air-conditioning compressor oils. Store so the oil is protected from moisture. Avoid storing in open containers.



POE oil POE 100

Special POE (polyester) air-conditioning compressor oil for vehicle air-conditioning systems using R134a/ R1234yf refrigerants and electric air-conditioning compressors (hybrid, start/stop, electric)

Excellent resistance to potential electric creepage currents in high-voltage air-conditioning systems
Highly hydrophobic

- Not conductive
- Electrical components are not affected

Excellent smoothness, thereby protecting the compressor from wear

Contents	210 ml
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Art. no. 0892 764 045

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.

- Do not mix with other air-conditioner compressor oils
- Store such that the oil is protected from moisture
- Use up the open can quickly and do not store for long periods



Multi-range compressor oil Pro

High-value synthetic oil with additive specifically tailored for use in air-conditioning compressor technology

- Compatible with following refrigerants: R 23, R 125, R 134a, R 227, R 413a, R 407c, R 410a, R 404a, R 507, R 744.
- Mixable with PAG oil and ester oil
- Excellent lubricating effect

Contents	1000 ml
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Art. no. 0892 764 123

P. Qty.: 1/6

Please consider the legal instruction at the beginning of this chapter.



Thread extractor set

25 pcs.

- For broken-off screws and bolts from 6–16 mm or 1/4 to 5/8 inches
- Complete set, also comprises necessary twist drills
- Specially profiled extractor pins enlarge the stud bolt only slightly
- Scope of delivery: Guide sleeves, spiral drills, extractor pins and nuts, operating instructions, high-quality plastic box

Product weight (per item)	682 g
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Art. no. 0690 14

P. Qty.: 1



Screw extractor assortment

5 pieces. For removing snapped off screws or stud bolts.

- Chromium vanadium, forged
- Supplied in plastic case

Number of pieces in assortment/set	5 PCS
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Art. no. 0695 684 353

P. Qty.: 1



Contents for art. no. 0695 684 353		
Designation	Art. no.	Quantity
Screw extractor Suitable for screw 1/8 inch - 1/4 inch M3 - M6	0695 347 940	1
Screw extractor Suitable for screw 1/4 inch - 5/16 inch M6 - M8	0695 348 127	1
Screw extractor Suitable for screw 5/16 inch - 7/16 inch M8 - M11	0695 348 314	1
Screw extractor Suitable for screw 7/16 inch - 9/16 inch M11 - M14	0695 348 501	1
Screw extractor Suitable for screw 9/16 inch - 3/4 inch M14 - M18	0695 348 688	1

Screw extractor assortment

6 pieces. For removing snapped off screws or stud bolts.

Chrome vanadium, forged

Supplied in plastic case

Contents: 6 pcs.

- 6 screw extractors
Sizes 1, 2, 3, 4, 5 and 6 (M3–M24)



Number of pieces in assortment/set	6 PCS
Included in delivery (Lieferumfang)	Size 6 screwdriver (M18–24)

Art. no. 0695 684 540

P. Qty.: 1

Contents for art. no. 0695 684 540		
Designation	Art. no.	Quantity
Screw extractor Size=1	0695 347 940	1
Screw extractor Size=2	0695 348 127	1
Screw extractor Size=3	0695 348 314	1
Screw extractor Size=4	0695 348 501	1
Screw extractor Size=5	0695 348 688	1

Stud extractor assortment

4 pieces. For driving in and extracting stud bolts with and without threads in seconds.

- Bolts undamaged by welding on auxiliary materials (nuts etc.) or using pliers
- Securing with nuts unnecessary
- Grips securely from 10 mm bolt length
- A tool without wear parts
- Supplied in painted metal case with plastic insert



Product weight (per item)	1138 g
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Art. no. 0690 421 1

P. Qty.: 1

Pulling tabs combination assortment

Adapter for PinPuller, Minilifter, Dent Lifter and Maxi-lifter to remove dents without damaging the paint-work



Form	Spherical, Round
Colour	Red

Included in delivery (Lieferumfang)	Art. no.	P. Qty.
5 x 16 mm diameter, 5 x 27 mm diameter	0691 500 154	10
5 x 21 mm diameter, 5 x 32 mm diameter	0691 500 155	10

PinPuller® power set, fully equipped

The PinPuller® power set is fully equipped and contains the most important tools for accident repair

- For universal use
- Unique pin electrode for professional reforming of wheel arches
- Set contains essential tools for accident repairs
- Trimmer for rapid and precise refilling of pin electrodes



Product weight (per item)	6054 g
---------------------------	--------

Art. no. 0691 500 379

P. Qty.: 1

Antifreeze tester for coolant

For ethanediol (ethylene glycol) and water mixtures, with the exception of G13

- The pendulum indicator renders holding upright non-essential as with conventional devices.
- Automatic temperature correction
- Direct, simple reading of freezing point for all coolant temperatures.



Min. temperature conditions	-40 °C
Suction volume	52 cm³
Length	155 mm

Art. no. 0853 600 1

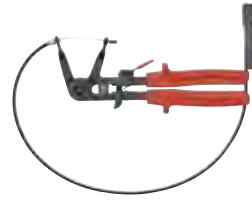
P. Qty.: 1

The measurement chamber must be completely filled with fluid and be entirely bubble-free. This is achieved by tapping on the housing.

Flexible spring band clamp pliers

Pliers with Bowden cable and tensioning slide for hard-to-reach places in engine compartment

- Flexible Bowden cable mechanism for ideal working conditions even in extremely cramped spaces.
- The tensioning slide can also be guided to the desired position using only the Bowden cable.
- Using the micro-lock, the spring band clamp can be gradually opened without over-expanding it in the process.
- The micro-lock holds the clamp in the open position without the application of force.
- The improved tensioning slide with its integrated tensioning spring keeps the slide and the pull cable pre-tensioned.
- The clamping holder at the handle end of the pliers fixes the Bowden cable in place and simplifies storage



Min./max. clamp diameter (D)	18-54 mm
Clamp width	12 mm, 15 mm
Bowden-cable length	600 mm

Art. no. 0714 577 112

P. Qty.: 1

Spring band clamp pliers

Pliers with rotating clamping jaws and locking mechanism

- Rotating clamping jaws enable universal alignment of the clamp in tight spaces.
- The locking mechanism holds the clamp in the open position without the application of force.
- Special safety jaws prevent the tensioned clamps from sliding out.
- Extra long design for convenient pre-tensioning of clamps
- Special steel construction with PVC handle casing



Length (L)	270 mm
Min./max. clamp diameter (D)	18-54 mm

Clamp width	Art. no.	P. Qty.
12 mm	0714 577 110	1
12 mm, 15 mm	0714 577 111	1

Radiator bleeder

For rapid filling of cooling system with coolant without air pockets

- Rubber cone covers radiator openings Ø 17 – 50 mm
- The simple design of the device requires only a few work steps
- The process of filling with coolant is performed in seconds and without air pockets owing to the vacuum created in the cooling system
- Problematic air pockets in the cooling system are avoided by vacuum filling



Technical data:

- Operating pressure: 6 – 12 bar
- Compressed-air connection: 1/4 inch
- Rubber cone: Ø 17 – 50 mm

Scope of delivery:

- Radiator bleeder with rubber cone
- Water hose with sieve
- Storage bag with operating instructions

Min./max. pressure	6-12 bar
Min./max. diameter	17-50 mm
Connection thread	1/4 inch

Art. no. 0714 55 18

P. Qty.: 1

Valve setting blade

For testing and setting engine valves and for measuring gaps in guides, bearings, pistons etc.

- Designated colours for easy identification of the respective blades
- Gauge blades with easily readable dimensions



Sheet width	12.7 mm
Sheet length	45 mm
Length	104 mm

Blade thickness	Colour	Art. no.	P. Qty.
0.05 mm	Light blue (bright blue)	0713 51 20	5
0.08 mm	Dark green	0713 51 21	5
0.1 mm	Purple	0713 51 22	5
0.15 mm	White	0713 51 23	5
0.2 mm	Blue	0713 51 24	5
0.25 mm	Grey	0713 51 25	5
0.3 mm	Yellow	0713 51 26	5
0.35 mm	Light green	0713 51 27	5
0.4 mm	Red	0713 51 28	5
0.45 mm	Black	0713 51 29	5
0.5 mm	Beige	0713 51 30	5
0.55 mm	Wine red	0713 51 31	5
0.6 mm	Brown	0713 51 32	5

Oil filter ratchet wrench

For simple and rapid replacement of oil filter using ratchet principle

A ratchet effect is generated on the oil filter by the toothed, hinged jaws

Minimum angle of rotation of just 5° allows you to work in extremely confined spaces

Adjustment aid automatically indicates the optimum pre-tension

So you always use the ideal ratchet setting

Ergonomically shaped handle

Fatigue-free working



Max. clamping width	106 mm
Product weight (per item)	323 g

Art. no. 0714 57 14

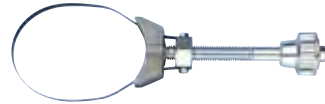
P. Qty.: 1

Tensioning strap repairs only possible at factory

Oil filter wrench

- Used predominantly on French vehicles
- Also suitable for use on construction vehicles such as tracked loaders

Max. clamping width	110 mm
Product weight (per item)	317 g



Art. no. 0714 57 12

P. Qty.: 1

Strap wrench

For rapid placement and opening of oil filter



Max. clamping width	Product weight (per item)	Art. no.	P. Qty.
100 mm	281 g	0715 57 21	1
200 mm	327.5 g	0715 57 20	1

Spark plug brush

Wooden handle and crimped brass wire bristles for cleaning spark plug electrodes and contacts.

Length	145 mm
Material of the grip handle	Wood



Art. no. 0715 51 58

P. Qty.: 1

1/2 inch spark plug socket wrench insert

- Attachment: Permanent magnet
- Design: chrome-plated, matt
- Drive: 1/2 inch, ball catch groove
- Drive: Hexagonal



Length (L1)	80 mm
External drive	WS1/2
Socket wrench depth (t)	9 mm

Width across flats	Width across flats in inches	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Product weight (per item)	Art. no.	P. Qty.
16 mm	5/8 inch	22 mm	22 mm	122.5 g	0715 51 47	1/10
18 mm	11/16 inch	25 mm	25 mm	166.2 g	0715 51 48	1/10
20.8 mm	13/16 inch	27 mm	26 mm	161.2 g	0715 51 49	1/10

3/8 inch spark plug socket wrench insert

- Attachment: Permanent magnet
- Design: chrome-plated, matt
- Drive: 3/8 inch, ball catch groove
- Drive: Hexagonal



Length (L1)	80 mm
External drive	WS3/8

Width across flats	Width across flats in inches	Socket wrench external diameter (D1)	Socket wrench external diameter 2 (D2)	Socket wrench depth (t)	Art. no.	P. Qty.
16 mm	5/8 inch	22 mm	21 mm	9 mm	0715 51 50	1/10
18 mm	11/16 inch	25 mm	25 mm	9 mm	0715 51 51	1/10
20.8 mm	13/16 inch	27 mm	25 mm	10 mm	0715 51 52	1/10

3/8 inch spark plug socket wrench insert

Attachment: ring magnet

Design: chrome-plated, polished

Drive: 3/8 inch, ball catch groove, and hexagon head size 17

Output: bi-hexagon

For spark plugs with hexagon or bi-hexagon drive

Application: e.g. spark plugs for Peugeot and Citroën



Width across flats	14 mm
Length (L1)	70 mm

Continuation **3/8 inch spark plug socket wrench insert**

Socket wrench external diameter (D1)	19 mm
External drive	WS3/8
Socket wrench external diameter 2 (D2)	18 mm
Socket wrench depth (t)	11 mm
Product weight (per item)	88 g

Art. no. 0715 51 537

P. Qty.: 1

Telescopic rod

With telescopic mirror

- Extendible telescopic shaft
- Telescopic rod with spring-tensioned double joint (twist-proof)
- The glass mirror panels are exchangeable via M3 male thread
- No clouding of the mirrors, as with polished „metal mirrors“
- Mirror glass is securely protected by the stainless-steel mount



Diameter of mirror	30 mm
Min./max. length	295-735 mm

Art. no. 0715 35 70

P. Qty.: 1

Glass mirror panel

For telescopic rod

- The mirrors are exchangeable via M3 male thread
- No clouding of the mirrors, as with polished „metal mirrors“
- Mirror glass is securely protected by the stainless-steel mount



Form	Length	Diameter of mirror	Length of mirror	Width of mirror	Art. no.	P. Qty.
Rectangular	98 mm		43 mm	65 mm	0715 35 765	1
Round	63 mm	30 mm			0715 35 730	1
Round	83 mm	50 mm			0715 35 750	1

Inspection tool set

6-piece in rolled tool bag

Number of pieces in assortment/set	6 PCS
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Art. no. 0715 35 900

P. Qty.: 1

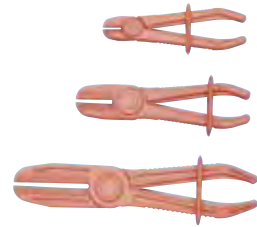


Contents for art. no. 0715 35 900		
Designation	Art. no.	Quantity
Telescopic magnet	0715 34 96	1
Magnetic lifter with plastic handle	0715 35 35	1
Telescopic rod	0715 35 70	1
Glass mirror panel	0715 35 765	1
Claw gripper, flexible, with plastic handle	0715 35 80	1
High-end power LED torch, W1		1

Hose pinch-off pliers set

For flexible hoses and lines without metal fabric

- For quick pinching off of water hoses, oil and fuel lines
- Locking mechanism holds the pliers in the desired clamping position
- Rounded clamping jaws prevent unintentional damage to lines
- Fibreglass reinforced plastic construction in striking red signal colour



Number of pieces in assortment/set	3 PCS
Product weight (per item)	279 g

Art. no. 0714 601 931

P. Qty.: 1

Contents for art. no. 0714 601 931		
Designation	Art. no.	Quantity
Pinch-off pliers 5-14 mm	0714 601 912	1
Pinch-off pliers 13-19 mm	0714 601 919	1
Pinch-off pliers 19-57 mm	0714 601 956	1



Infrared laser thermometer

For contact-free measurement of surface temperatures, with integrated laser pointer

- Ergonomic, practical and suitable for use anywhere
- Thanks to the two-point laser beam, the measuring point can be focused even more precisely
- With integrated display lighting

Min./max. temperature measuring range	-50 to 650 °C
Thermometer measuring cone	12:1
Nominal voltage	9 V/DC
Min./max. spectral range	8-14 µm
Reaction time	150 ms
Automatic switch-off	5 s
Rechargeable battery/battery designation	9 V block; PP3; F22

Art. no. 0715 53 110

P. Qty.: 1

Video endoscope PRO Dual

For perfect examination and documentation in inaccessible places via video recording and/or imaging

- 4.9 mm dual camera with 90° front and side view and two dimmable and luminous mini LEDs
- Live observation via the TFT colour display or recording straight to the SD card in the multifunctional console; JPG image format and NTSC or PAL video format
- Probes with scratch-proof sapphire glass for high image quality and to protect the camera lens



Width	72 mm
Height	200 mm
Min./max. temperature conditions	0 to 55 °C
Type of rechargeable battery/battery	Lithium
Product weight (per item)	2332 g

Art. no. 0715 53 757

P. Qty.: 1

Endoscope probe

For endoscope

Angle	0 Degree
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Diameter	Cable length	Art. no.	P. Qty.
3.9 mm	1 m	0715 53 775	1
5.5 mm	1 m	0715 53 762	1
5.5 mm	1 m	0715 53 776	1
5.5 mm	3 m	0715 53 777	1
5.5 mm	10 m	0715 53 778	1

Endoscope camera probe Dual

4.9 mm dual camera with 90° front and side view

- Perfect inspection and documentation of inaccessible areas
- Optimal image quality thanks to two dimmable and bright mini LEDs
- Probe with scratch-resistant sapphire glass to protect the camera lens and ensure high image quality



Diameter	4.9 mm
Angle	90 Degree
Cable length	100 cm
Material	Plastic

Continuation **Endoscope camera probe Dual**

Art. no. 0715 53 760

P. Qty.: 1

Endoscope video probe One Way

4.5 mm camera with front view and can be rotated up to 180°

- Perfect inspection and documentation of inaccessible areas
- Optimal image quality thanks to five dimmable and bright mini LEDs
- Probe with scratch-resistant sapphire glass to protect the camera lens and ensure high image quality



Diameter	4.5 mm
Angle	180 Degree
Cable length	186 cm
Material	Plastic

Art. no. 0715 53 759

P. Qty.: 1

Can only be used together with the Video, endoscope PRO and Video endoscope PRO Dual

Gas detector

For detecting and localising leaks in gas pipes

- Measuring range: 10 ppm to vol. 1%
- Extremely simple operation
- Compact and rugged housing



Display	5-step LED
Min./max. temperature conditions	0 to 40 °C
Width	45 mm
Height	25 mm
Length	140 mm
Gooseneck length	180 mm

Art. no. 0715 53 260

P. Qty.: 1

The device must not be used to assess gas concentrations. It is used solely to locate areas of gas build-up.

Not ex-protected!

Storage temperature: -10°C to +50°C

Precision feeler gauge

For measuring slots and gaps, and for checking play on slide guides, bearings, pistons etc.

- Conical gauge blades with easily readable dimensions
- Gauge blades stored in a high-quality plastic sheath
- Clamping screw for securing the gauge blades



Sheet width	12.7 mm
Sheet length	100 mm
Length	105 mm

Colour	Number of sheets	Min./max. blade thickness	List of blade thicknesses	Art. no.	P. Qty.
Blue	13 PCS	0.05-1 mm	0.05 mm, 0.1 mm, 0.15 mm, 0.2 mm, 0.25 mm, 0.3 mm, 0.4 mm, 0.5 mm, 0.6 mm, 0.7 mm, 0.8 mm, 0.9 mm, 1 mm	0713 51 41	1
Green	20 PCS	0.05-1 mm	0.05 mm, 0.1 mm, 0.15 mm, 0.2 mm, 0.25 mm, 0.3 mm, 0.35 mm, 0.4 mm, 0.45 mm, 0.5 mm, 0.55 mm, 0.6 mm, 0.65 mm, 0.7 mm, 0.75 mm, 0.8 mm, 0.85 mm, 0.9 mm, 0.95 mm, 1 mm	0713 51 42	1
Red	21 PCS	0.1-0.5 mm	0.1 mm, 0.12 mm, 0.14 mm, 0.16 mm, 0.18 mm, 0.2 mm, 0.22 mm, 0.24 mm, 0.26 mm, 0.28 mm, 0.3 mm, 0.32 mm, 0.34 mm, 0.36 mm, 0.38 mm, 0.4 mm, 0.42 mm, 0.44 mm, 0.46 mm, 0.48 mm, 0.5 mm	0713 51 43	1

U-bolt clamp U-bolt clamp, universal

Sheet metal part with strengthening struts and threaded shackle with nuts, galvanized, consisting of:

Threaded shackle, fully assembled



Diameter	Diameter in inches	Thread type	Thread diameter	Material	Art. no.	P. Qty.
					0883 14	25
28 mm	1-1/8 in	Metric thread	8 mm	Steel	0883 2	10
32 mm	1-1/4 in	Metric thread	8 mm	Steel	0883 3	10
36 mm	1-3/8 in	Metric thread	8 mm	Steel	0883 4	10
38 mm	1-1/2 in	Metric thread	8 mm	Steel	0883 5	10
42 mm	1-5/8 in	Metric thread	8 mm	Steel	0883 6	10
45 mm	1-3/4 in	Metric thread	10 mm	Steel	0883 104 5	10

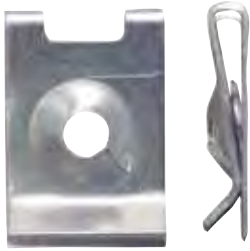
Continuation **U-bolt clamp U-bolt clamp, universal**

Diameter	Diameter in inches	Thread type	Thread diameter	Material	Art. no.	P. Qty.
48 mm	1-7/8 in	Metric thread	8 mm	Steel	0883 8	10
48 mm	1-7/8 in	Metric thread	10 mm	Steel	0883 104 8	10
50 mm	2 in	Metric thread	8 mm	Steel	0883 85	10
50 mm	2 in	Metric thread	50 mm	Steel	0883 105 0	10
52 mm	2-1/16 in	Metric thread	8 mm	Steel	0883 9	10
52 mm	2-1/16 in	Metric thread	10 mm	Steel	0883 105 2	10
54 mm	2-1/8 in	Metric thread	8 mm	Steel	0883 10	10
54 mm	2-1/8 in	Metric thread	10 mm	Steel	0883 105 4	10
58 mm	2-1/4 in	Metric thread	8 mm	Steel	0883 11	10
60 mm	2-3/8 in	Metric thread	8 mm	Steel	0883 12	10
60 mm	2-3/8 in	Metric thread	10 mm	Steel	0883 106 0	10
65 mm	2-1/2 in	Metric thread	8 mm	Steel	0883 13	10

Sheet metal nut Type 1

- Quick and secure connection of two or more components
- Easy assembly and disassembly
- Tolerance compensation and blind mounting possible

Form	A
Material	Spring steel CK 67



Suitable for screw	Min./max. attachment thickness	Length (L)	Width (B)	Distance between centre of hole and edge (C)	Art. no.	P. Qty.
Diameter 2.9 mm	0.5-1.5 mm	13 mm	11 mm	6 mm	0500 119 56	100
Diameter 2.9 mm	0.7-1.6 mm	9.9 mm	8 mm	4.6 mm	0500 131 74	100
Diameter 3.5 mm	0.5-1.7 mm	16.5 mm	11 mm	7.2 mm	0500 121 9	100/500
Diameter 3.9 mm	0.5-1.7 mm	16.5 mm	11 mm	7.5 mm	0500 113 46	50/100/300
Diameter 3.9 mm	1-3 mm	16 mm	11 mm	7 mm	0500 113 47	100/300
Diameter 4.2 mm	0.5-1.7 mm	16.5 mm	11 mm	7.5 mm	0500 113 62	100/500
Diameter 4.2 mm	1.2-2 mm	12.7 mm	11 mm	5.8 mm	0500 116 67	100
Diameter 4.2 mm	2-2.5 mm	12.5 mm	11 mm	5.5 mm	0500 136 29	100
Diameter 4.8 mm	0.5-1.7 mm	16.5 mm	11 mm	7.5 mm	0500 115 22	100/500
Diameter 4.8 mm	0.5-1.7 mm	16.7 mm	11 mm	7.5 mm	0500 133 84	100
Diameter 4.8 mm	0.5-1.7 mm	25 mm	11 mm	16 mm	0500 132 19	50/100
Diameter 4.8 mm	0.6-1.7 mm	14.7 mm	11 mm	7.2 mm	0500 131 33	100
Diameter 4.8 mm	0.7-2 mm	16 mm	14.5 mm	9 mm	0500 113 65	100/300
Diameter 4.8 mm	1.7-2.3 mm	16.5 mm	11 mm	7.2 mm	0500 139 56	100
Diameter 4.8 mm	2.5-3.7 mm	19 mm	12.5 mm	8.5 mm	0500 136 05	50
Diameter 4.8 mm	2.5-3.5 mm	16.5 mm	11 mm	7.2 mm	0501 101 647	100
Diameter 4.8 mm	2.5-3.5 mm	16.5 mm	11.5 mm	7.2 mm	0501 105 073	100
Diameter 4.9 mm	0.75-1.5 mm	16.5 mm	11 mm	7.2 mm	0500 113 21	100/500
Diameter 5.5 mm	1.25-2 mm	20.8 mm	13 mm	10.7 mm	0500 115 77	100/500
Diameter 5.5 mm	3-4 mm	23.7 mm	16 mm	12 mm	0500 138 06	50

Suitable for screw	Min./max. attachment thickness	Length (L)	Width (B)	Distance between centre of hole and edge (C)	Art. no.	P. Qty.
Diameter 6.3 mm	0.7-1.5 mm	24.8 mm	16 mm	10.5 mm	0500 114 27	100/500
Diameter 6.3 mm	0.85-1.7 mm	16.8 mm	16 mm	7.5 mm	0500 114 04	100
Diameter 6.3 mm	3-4 mm	23.7 mm	16 mm	12 mm	0501 103 020	100
Diameter 6.5 mm	0.7-1.5 mm	24.8 mm	16 mm	13 mm	0500 113 69	100/500
Diameter 8 mm	1.25-2 mm	22.8 mm	18 mm	11 mm	0500 117 61	50

Sheet metal nut Type 3

Large leg distance

- Quick and secure connection of two or more components
- Easy assembly and disassembly
- Tolerance compensation and blind mounting possible

Material	Spring steel CK 67
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Form	Suitable for screw	Min./max. attachment thickness	Length (L)	Width (B)	Art. no.	P. Qty.
A	Diameter 3.5 mm	0.5-1.5 mm	13 mm	11 mm	0500 136 24	100
A	Diameter 4.8 mm	0.85-1.7 mm	19.7 mm	16 mm	0500 114 70	50/100
B	Diameter 3.5 mm	1.2-1.7 mm	9.3 mm	8 mm	0500 136 58	100
B	Diameter 3.9 mm	1.5-3 mm	16 mm	11 mm	0501 105 109	100
B	Diameter 3.9 mm	2.5-3 mm	9.2 mm	11 mm	0500 137 04	100
B	Diameter 4.2 mm	1.75-2.75 mm	22 mm	11 mm	0500 132 51	100
B	Diameter 4.2 mm	3-4 mm	15.5 mm	11 mm	0500 117 45	100/300
B	Diameter 4.8 mm	0.5-2.5 mm	28 mm	15 mm	0501 104 068	100
B	Diameter 4.8 mm	2.5-5 mm	20 mm	15 mm	0501 104 067	100
B	Diameter 4.8 mm	5-6 mm	22.6 mm	16 mm	0500 135 76	100
B	Diameter 5.5 mm	3-4 mm	16.2 mm	14.5 mm	0500 136 37	100

Sheet metal nut Type 6

With threaded shank, for challenging connections

- Quick and secure connection of two or more components
- Easy assembly and disassembly
- Tolerance compensation and blind mounting possible
- High tightening torque



Form	I
Material	Unalloyed steel, C45

Suitable for screw thread	Suitable for screw	Min./max. attachment thickness	Length (L)	Width (B)	Art. no.	P. Qty.
M5	M5	0.8-4.3 mm	16.6 mm	15 mm	0501 105 083	25
M5	M5	0.8-4.3 mm	20.4 mm	15 mm	0501 103 052	100
M5	M5	0.8-4.3 mm	20.4 mm	15 mm	0501 104 120	100
M5	M5	0.8-4.3 mm	20.4 mm	15 mm	0501 106 075	50
M5	M5	2-4.3 mm	20.4 mm	15 mm	0500 535 25	50
M6	M6	0.5-4.8 mm	23.6 mm	16 mm	0501 104 119	100
M6	M6	0.5-4 mm	18 mm	16 mm	0501 106 061	50
M6	M6	0.5-4 mm	23.6 mm	16 mm	0500 533 12	50/100
M6	M6	0.5-4 mm	23.6 mm	16 mm	0501 101 646	100
M6	M6	0.7-4 mm	23.8 mm	16 mm	0500 408 0	25
M8	M8	0.8-4 mm	27.5 mm	18 mm	0501 102 005	100
M8	M8	0.8-4 mm	27.5 mm	18 mm	0501 102 026	10

Plastic expanding rivet Type 1



Min./max. drill hole diameter	Min./max. attachment thickness	Head diameter (B)	Head height (C)	Length of expanding mandrel (D)	Art. no.	P. Qty.
2-6 mm	2-6 mm	13 mm	2 mm	10 mm	0500 718	25/1000
3-3.6 mm	0.8-4.5 mm	4.8 mm	1.5 mm	6.2 mm	0500 126 94	50
3.8-4 mm	2.5-5 mm	8 mm	2 mm	7 mm	0500 124 78	50
4-4.2 mm	2-6 mm	8 mm	1 mm	8.5 mm	0501 121 118	100
5.0-5.5 mm	3-8 mm	10 mm	2 mm	6.2 mm	0500 523 14	50/1000
5-5.7 mm	1.5-5 mm	10 mm	2 mm	7.5 mm	0500 128 54	25
5-5.2 mm	1.5-5 mm	10 mm	2 mm	7.5 mm	0500 124 28	50
5-5.2 mm	2.5-8 mm	10 mm	2 mm	11.4 mm	0500 126 96	25/500
5.5-6.4 mm	2.5-7 mm	16 mm	2 mm	11 mm	0501 103 035	25/500
5.7-6.5 mm	5-11 mm	9 mm	2 mm	16 mm	0500 554 00	50
5.9-7.1 mm	2-8 mm	10 mm	2 mm	12 mm	0500 127 10	50
5.9-7.1 mm	2-8 mm	10 mm	2 mm	12 mm	0501 101 652	100

Min./max. drill hole diameter	Min./max. attachment thickness	Head diameter (B)	Head height (C)	Length of expanding mandrel (D)	Art. no.	P. Qty.
6-6.2 mm	7.5-8.6 mm	16 mm	2.5 mm	14.5 mm	0500 141 42	25
7-7.2 mm	4-7 mm	18 mm	2.5 mm	16.5 mm	0501 104 122	100
7.9-8.5 mm	4-7 mm	16 mm	2 mm	12 mm	0501 101 000	100/1000
8-8.8 mm	5.5-10 mm	19 mm	2.5 mm	15 mm	0501 104 123	50
8-8.6 mm	5.5-10 mm	13 mm	3 mm	15 mm	0501 104 038	50
8-8.6 mm	5.5-10 mm	19 mm	2.5 mm	15 mm	0501 103 068	50
8-8.4 mm	4-8 mm	22 mm	3 mm	13 mm	0501 101 628	25
8-8.2 mm	3.4-5 mm	12.5 mm	1 mm	11.4 mm	0500 937 7	100
8-8.2 mm	4.5-6 mm	18 mm	2.5 mm	10 mm	0500 148 02	25
8-8 mm	0.7-2 mm	16 mm	2 mm	10.5 mm	0501 103 015	50

Please consider the legal instruction at the beginning of this chapter.

Plastic expanding rivet Type 3

Base similar to a pine tree clip

Straightforward fitting and removal

Manual fitting also possible

High retention force and a secure fit in the component



Min./max. drill hole diameter	Min./max. attachment thickness	Head diameter (B)	Head height (C)	Length of expanding mandrel (D)	Art. no.	P. Qty.
6-6.2 mm	2-10 mm	15 mm	3.5 mm	13 mm	0501 105 064	50
6-6.2 mm	2-10 mm	20 mm	3.5 mm	17 mm	0501 105 078	50
6-6.2 mm	7-15 mm	15 mm	3.5 mm	12 mm	0501 105 065	50
6-6.2 mm	7-15 mm	20 mm	3.5 mm	15 mm	0501 103 017	25
6.5-6.7 mm	2.8-11 mm	20 mm	6.5 mm	15 mm	0501 105 035	50
8-8.2 mm	3-10 mm	20 mm	3.3 mm		0500 201 404	25
8-8 mm	2-5 mm	20 mm	3.7 mm	10 mm	0501 101 629	50
8-8 mm	2-5 mm	20 mm	3.7 mm	16 mm	0501 104 070	100

Plastic expanding rivet Type 4

- Simple fitting and removal
- High retention force and a secure fit in the component



Continuation **Plastic expanding rivet Type 4**

Min./max. drill hole diameter	Min./max. attachment thickness	Head diameter (B)	Head height (C)	Length of expanding mandrel (D)	Art. no.	P. Qty.
4.55-5.15 mm	3-8 mm	15 mm	3.5 mm	16.5 mm	0501 121 120	25
5-5.2 mm	1.25-3.75 mm	10 mm	2.2 mm	11 mm	0501 104 129	25
5.9-6.1 mm	4.4-5.8 mm	16 mm	3 mm	11.5 mm	0501 103 065	25
6-6 mm	1-2.5 mm	20 mm	2.5 mm	12 mm	0501 105 016	50
6.5-6.5 mm	3.8-6 mm	22 mm	3 mm	15 mm	0501 121 121	25
7.8-8.8 mm	0.8-9.5 mm	17 mm	3.5 mm	10.5 mm	0501 105 117	100
8-8.2 mm	2-4.5 mm	20 mm	2.6 mm	7 mm	0500 40	50
8-8.2 mm	3.5-7 mm	20 mm	6 mm	10.7 mm	0501 121 117	50
8.05-8.3 mm	2-7.5 mm	20 mm	3.2 mm	11.4 mm	0501 121 190	50
8.5-9 mm	4.5-4.5 mm	12 mm	2.5 mm		0500 919 2	50

Clip remover

For gently releasing clamps and clips.

- Short design for easily accessible clips
- Long design for inaccessible clips that are located well inside panelling
- Nickel-plated blade made from chromium-vanadium steel
- 2-component handle



Blade opening	12 mm
Blade opening (back)	7 mm

Blade length	Design	Art. no.	P. Qty.
120 mm	Short	0714 34 53	1
300 mm	Long	0714 34 54	1

Hose connector

- Resistant to petrol, diesel, oil, wash water, brake fluid, anti-Free-ze etc.
- Various dimensions and designs made from acetal resin



Material	Polyoxymethylene
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Internal diameter (D2)	Hose connection diameter (D1)	Length (L1)	Art. no.	P. Qty.
2.5 mm	3 mm	25 mm	0500 250 1	25
2.7 mm	4 mm	35 mm	0500 250 2	25
3 mm	5 mm	45 mm	0500 250 3	25
4 mm	6 mm	49 mm	0500 250 4	25
5.6 mm	8 mm	56 mm	0500 250 5	10
7 mm	10 mm	63 mm	0500 250 6	10

T-hose connector

- Resistant to petrol, diesel, oil, wash water, brake fluid, Glysantin etc.
- Various dimensions and designs made from acetal resin



Material	Polyoxymethylene
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Internal diameter (D2)	Hose connection diameter (D1)	Length (L1)	Art. no.	P. Qty.
2.5 mm	3 mm	25 mm	0500 250 18	25
2.5 mm	3 mm	25 mm	0500 250 28	25
2.5 mm	4 mm	35 mm	0500 250 19	25
2.7 mm	4 mm	35 mm	0500 250 29	25
3 mm	5 mm	42 mm	0500 250 30	25
4 mm	6 mm	50 mm	0500 250 31	25
5.6 mm	8 mm	58 mm	0500 250 33	10
7 mm	10 mm	62.5 mm	0500 250 34	10



Repair hose line FPM/ECO/AR/ECO

With low permeation for fuel-carrying applications

- Extremely low fuel permeability
- Excellent heat resistance
- Highly flexible
- Complies with the EU End-of-Life Vehicles Directive
- Material: FPM/ECO/AR/ECO (Type 3E) in accordance with DIN 73379-1

Colour	Black
Max. working pressure	6 bar
Testing pressure	20 bar
Min. temperature resistance	-40 °C
Max. temperature resistance	125 °C
Conditions for temperature resistance/temperature conditions	brief resistance, 72 hours (over entire service life)
Max. short-term temperature resistance	150 °C

Internal diameter (ID)	Outer diameter (AD)	Length	Art. no.	P. Qty.
3.5 mm	9.5 mm	15 m	0895 513 595	15
4.5 mm	10 mm	15 m	0895 514 510	15
5 mm	11 mm	15 m	0895 515 011	15
5.5 mm	11.5 mm	15 m	0895 515 511	15
7.3 mm	13.5 mm	10 m	0895 517 313	10

Internal diameter (ID)	Outer diameter (AD)	Length	Art. no.	P. Qty.
9.3 mm	15.3 mm	10 m	0895 519 315	10
14 mm	22 mm	5 m	0895 511 422	5
17 mm	24 mm	5 m	0895 511 735	5

Washer system hose

Flexible and transparent

Material: PVC with special interior coating

Resistant to fuel vapours



Material	Polyvinyl chloride - PVC with special interior coating
Max. temperature resistance	65 °C
Max. working pressure	2.5 bar

Internal diameter	Outer diameter	Length	Colour	Type description	Art. no.	P. Qty.
4 mm	6 mm	15 m	Transparent	On spool for ORSY 10 dispenser system	0895 84	15
4.5 mm	6.5 mm	15 m	Black	On spool for ORSY 10 dispenser system	0895 845 65	15
5 mm	7.4 mm	15 m	Transparent	On spool for ORSY 10 dispenser system	0895 85	15
6 mm	8.4 mm	15 m	Transparent	On spool for ORSY 10 dispenser system	0895 86	15
7 mm	10 mm	15 m	Transparent	On spool for ORSY 10 dispenser system	0895 87	15
8 mm	11 mm	15 m	Transparent	On spool for ORSY 10 dispenser system	0895 88	15
10 mm	14 mm	20 m	Transparent	Hose as bundled goods (not for ORSY 10 dispenser system)	0895 810	20
12 mm	16 mm	20 m	Transparent	Hose as bundled goods (not for ORSY 10 dispenser system)	0895 812	20

Vacuum hose

Resistant to fuel vapours, oil, diesel (without bio-additives) and ozone

- Made of synthetic rubber
- Short-term peak temperature of up to max. +150°C
- Stored on coil for ORSY10 dispenser system



Continuation **Vacuum hose**

Min. temperature conditions	-35 °C
Max. temperature conditions	110 °C

Type description	Internal diameter (ID)	Outer diameter (AD)	Colour	Length	Art. no.	P. Qty.
ECO	2.5 mm	6 mm	Black	10 m	0895 823 30	10
ECO	3.3 mm	6.8 mm	Black	10 m	0895 823 31	10
ECO	3.5 mm	8 mm	Black	15 m	0895 823 5	15
ECO	3.7 mm	6.5 mm	Black	10 m	0895 823 6	10
ECO	4.5 mm	9 mm	Black, Red	10 m	0895 824 54	10
ECO with twine netting	3.5 mm	7.5 mm	Black, White, Grey	10 m	0895 813 51	10
Nitrile rubber	5 mm	10 mm	Black	10 m	0895 823 7	10

Not suitable as diesel return line or as fuel-carrying hose or pressure hose! Must not be used as an oil or diesel line!

Repair hose line, NBR/CR

With medium permeation for non-fuel-carrying applications

- Material: NBR/CR
- Medium permeation of fuel vapours
- Oil and acid-resistant outer elastomer layer for protection against abrasion, ozone and weathering
- Medium heat resistance
- Complies with EU End-of-life Vehicles Directive
- Flexible



Colour	Black
Min. temperature conditions	-35 °C
Max. temperature conditions	90 °C
Max. working pressure	10 bar
Testing pressure	20 bar

Internal diameter (ID)	Outer diameter (AD)	Length	Art. no.	P. Qty.
3.5 mm	9.5 mm	15 m	0895 503 530	15
4 mm	10 mm	15 m	0895 504 030	15
4.5 mm	10.5 mm	15 m	0895 504 530	15
5.5 mm	11.5 mm	15 m	0895 505 530	15
7.3 mm	13.3 mm	10 m	0895 507 330	10
7.5 mm	13.5 mm	10 m	0895 507 530	10
8 mm	14 mm	10 m	0895 508 030	10
9 mm	15 mm	10 m	0895 509 030	10
9.3 mm	15.3 mm	10 m	0895 509 330	10
10 mm	16 mm	5 m	0895 501 030	5
11.5 mm	18.5 mm	5 m	0895 501 135	5
12 mm	19 mm	5 m	0895 501 235	5
14 mm	22 mm	5 m	0895 501 440	5

Due to the addition of renewable raw materials in commercially available petrol and diesel fuels and increasingly high operating temperature ranges, Type 2A hoses are not recommended for use in fuel-carrying applications in motor vehicles. Observe the manufacturer's specifications.

Please note that the manufacturer's specifications must be complied with with regard to the operating temperature for high-performance engines subject to high temperatures.

For production-related reasons, the hoses are not always delivered in one piece. For 15 m max. 3 pieces, for 10 m max. 2 pieces.

Not suitable:

- For use in fuel-carrying applications
- For use in fuel tanks
- For gear and engine oils

Repair hose line, NBR/textile

For non-fuel-carrying applications

- On coil for ORSY 10 roll-off system
- Hose made from synthetic rubber (NBR) with vulcanised-on outer twine braiding
- Limited heat resistance
- Flexible
- Complies with EU End-of-life Vehicles Directive



Type description	On spool for ORSY® 10 dispenser system,
Colour	Black
Min. temperature conditions	-20 °C
Max. temperature conditions	70 °C
Material of inner core layer	Synthetic rubber NBR
Material of the outer weave	Rubber/meshwork
Max. working pressure	10 bar
Testing pressure	20 bar

Internal diameter (ID)	Outer diameter (AD)	Length	Art. no.	P. Qty.
3.2 mm	7 mm	15 m	0895 813 2	15
3.5 mm	7.5 mm	15 m	0895 813 5	15
4.5 mm	9.5 mm	15 m	0895 814 5	15
5 mm	10 mm	15 m	0895 815 0	15
5.5 mm	10.5 mm	15 m	0895 815 5	15
7 mm	12 mm	15 m	0895 817 0	15
7.5 mm	12.5 mm	15 m	0895 817 5	15
9 mm	14 mm	10 m	0895 819 0	10
9.5 mm	15 mm	10 m	0895 895 151	10

Please note that the manufacturer's specifications must be complied with with regard to the operating temperature for high-performance engines subject to high temperatures.

Not suitable:

- For use in fuel-carrying motor vehicle applications
- For use in fuel tanks
- For gear and engine oils

Rubber blade refills, flat, cars

For cars with flat-blade technology

- Wiping quality and service life is virtually the same as that of original wipers
- Optimal addition to any windscreen wiper assortment
- Immediate coverage of almost all new vehicles launched (provided blades are interchangeable)



Length	750 mm
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Art. no. 0848 175 0

P. Qty.: 20

Rubber edge REFILLS

For car frame windscreen wiper

- New-generation click-on system
- Wiping quality and service life virtually the same as that of original wipers
- High resistance to heat and acids
- Environmentally friendly
- Industrial package with European hole
- Mounting instructions and corresponding template included
- Optimal addition to any windscreen wiper assortment
- Quick and easy installation
- Immediate coverage of virtually all new vehicles launched
- Saves a lot of time
- No need to search for and organise „exotic“ wipers
- Minimal stock-keeping required
- No unsaleable items



Profile thickness	6.3 mm
Ultraviolet resistance	Yes
Material	Rubber plastic

Length	Art. no.	P. Qty.
610 mm	0848 106 10	40
750 mm	0848 147 50	20

Cut off the refill after guiding it into the wiper frame with an excess length of approx. 1.5 cm. Never press back the bow claws, as this prevents the rubber profile from being able to run in the guide, and therefore negatively affects the wiping pattern.

Standard car windscreen wiper

With premounted multi-adapter

- Resealable individual packaging
- Refillable (replacement rubber wiper blade)



Robust metal bar system

- High resistance to weathering
- Quiet wiper blade properties on the windscreen
- Stainless steel pin joints in plastic casing
- Individual joints connected via stainless steel rivets

Scope of delivery

1x windscreen wiper with profile edge protection including preinstalled multi-adapter and 9 x 3 U-clip adapter for high market coverage

Length	Length in inches	Art. no.	P. Qty.
280 mm	11 in	0848 070 280	1/10
300 mm	12 in	0848 070 300	1/10
325 mm	13 in	0848 070 325	1/10
350 mm	14 in	0848 070 350	1/10
380 mm	15 in	0848 070 380	1/10
400 mm	16 in	0848 070 400	1/10
425 mm	17 in	0848 070 425	1/10
450 mm	18 in	0848 070 450	1/10
475 mm	19 in	0848 070 475	1/10
500 mm	20 in	0848 070 500	1/10
525 mm	21 in	0848 070 525	1/10
550 mm	22 in	0848 070 550	1/10
600 mm	24 in	0848 070 600	1/10
650 mm	26 in	0848 070 650	1/10
700 mm	28 in	0848 070 700	1/10

Seat protector, truck

Extra-strong protective cover made from PE to protect the truck seat cover during repair work.

- Extremely non-slip inner
- No sticking to clothes thanks to smooth top side
- Form-welded
- Suitable for long-term repairs and multiple use



Length x width	1570 x 785 mm
Number of tear-offs	200 PCS
Material	PE - Polyethylene
Roll width	780 mm
Weight of roll	9000 g

Art. no. 0899 500 60

P. Qty.: 1

Vehicle interior protection set 4in1

4 pieces. Consists of a seat protector, a floor mat, a steering wheel and a gear lever protector.

- Suitable for most passenger car interiors
- Seat protector: Optimal material thickness for high tear resistance and elasticity
- Floor mat: Absorbent paper and coated underside, protection against oil, dirt and water



Number of tear-off units/set	100 PCS
Number of pieces in assortment/set	400 PCS

Art. no. 0899 500 045

P. Qty.: 100

Crepe floor mat, truck

Robust footwell protector made from crepe to protect the truck floor mat during repair work.

- Optimum protection of the vehicle floor from dirt, oil and wet
- With steering column cut-out (centred at 500 mm side: width 10.5 cm and depth 17 cm)

Length x width	500 x 500 mm
Number of tear-offs	200 PCS



Art. no. 0899 500 61

P. Qty.: 1

LED digital thermometer

With contact sensor

Product weight (per item)	114 g
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Art. no. 0764 000 013

P. Qty.: 1



Please also note the test procedures described in the Environmental Manual volumes 1, 2 and 3.

Nitrogen pressure reducer

- Tests for leaks in air-conditioning system using the noise created by nitrogen escaping from the leak at high pressure (up to 15 bar)
- Setting range from 0 to 35 bar; can also be used for flushing

Product weight (per item)	2129 g
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Art. no. 0764 000 560

P. Qty.: 1

Only use on drained air conditioning systems!



Universal valve



Product weight (per item)	Art. no.	P. Qty.
0.6 g	0764 000 324	5
1.8 g	0764 000 322	5
1.83 g	0764 000 055	10
2.8 g	0764 000 325	5
3 g	0764 000 323	5

Removal adapter set R134a

For 12 kg R134a reusable refrigerant bottles

Product weight (per item)	121 g
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Art. no. 0764 000 003

P. Qty.: 1



Removal adapter set R1234YF

For 5.6 kg R1234YF reusable refrigerant bottles

Includes:

- Seal
- Valve insert

Product weight (per item)	45 g
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Art. no. 0764 000 812

P. Qty.: 1



Quick-release service coupling

With SAE outer thread



Pressure system	Product weight (per item)	Art. no.	P. Qty.
High pressure	132 g	0764 000 160	1
High pressure	156 g	0764 000 154	1
Low pressure	145 g	0764 000 165	1
Low pressure	167 g	0764 000 153	1

Hose pack for pressure testing valve

For vehicles with R1234YF refrigerant

Includes:

- Low pressure service hose
- High pressure service hose
- Quick-release service coupling for low pressure (M12 x 1.5)
- Quick-release service coupling for high pressure (M12 x 1.5)



Type of refrigerant	HFO1234YF
Length	1.2 m
Product weight (per item)	752 g

Art. no. 0764 000 804

P. Qty.: 1

Adapter for high/low pressure service connection

The straight quick-action coupling for refrigerants R134a and R1234yf offers easier access to high/low-pressure service connections that are difficult to access due to plastic covers.



Length	122 mm
Diameter	25 mm
Product weight (per item)	154 g

Pressure system	Type of refrigerant	Art. no.	P. Qty.
High pressure	R-1234yf	0764 000 126	1
High pressure	R134a	0764 000 121	1
Low pressure	R-1234yf	0764 000 127	1
Low pressure	R134a	0764 000 125	1

O-ring

For car air conditioning



Material thickness	Internal diameter	Material	Shore A hardness	Art. no.	P. Qty.
				0764 000 512	5
		Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 504	6
		Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 506	6
		Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 520	10
		Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 521	10
		Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 522	6
		Hydrogenated acrylonitrile buta-diene rubber	75	0764 000 510	5
		Hydrogenated acrylonitrile buta-diene rubber	75	0764 000 511	5
		Hydrogenated acrylonitrile buta-diene rubber	75	0764 000 513	5
1.33 mm	4.47 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 540	20
1.42 mm	4.7 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 294	20
1.5 mm	7 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 047	10
1.6 mm	13.1 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 282	20
1.6 mm	15.88 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 313	20
1.62 mm	18.72 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 539	20
1.63 mm	6 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 295	20
1.7 mm	6.6 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 502	20
1.75 mm	16 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 336	20
1.78 mm	6.4 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 507	20

Continuation **O-ring**

Material thickness	Internal diameter	Material	Shore A hardness	Art. no.	P. Qty.
1.78 mm	6.75 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 508	20
1.78 mm	7.65 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 042	10
1.78 mm	8.75 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 515	20
1.78 mm	9.25 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 046	10
1.78 mm	10.82 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 043	10
1.78 mm	11.11 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 516	20
1.78 mm	14 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 044	10
1.78 mm	14 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 527	20
1.78 mm	15.6 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 183	20
1.78 mm	17.17 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 045	10
1.78 mm	20.35 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 167	10
1.8 mm	7 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 271	20
1.83 mm	8.92 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 173	20
1.87 mm	6.8 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 270	20
1.88 mm	9.6 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 301	20
1.88 mm	12.01 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 292	20
1.88 mm	14.81 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 293	20
1.9 mm	6.8 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 534	20
1.9 mm	7.8 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 541	20
1.9 mm	7.85 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 526	20
1.9 mm	8.8 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 537	20
2 mm	6.6 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 277	20

Material thickness	Internal diameter	Material	Shore A hardness	Art. no.	P. Qty.
2 mm	7.5 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 191	20
2 mm	9 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 273	20
2 mm	10 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 056	10
2 mm	14 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 193	20
2 mm	16.5 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 519	20
2 mm	17 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 194	20
2.03 mm	19.69 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 311	20
2.3 mm	9.25 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 176	20
2.4 mm	13.5 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 509	20
2.4 mm	13.8 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 536	20
2.4 mm	14.3 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 517	20
2.4 mm	17.8 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 542	20
2.4 mm	20 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 285	20
2.43 mm	16.5 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 334	10
2.46 mm	19.18 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 299	20
2.5 mm	9.5 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 523	20
2.5 mm	10 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 274	20
2.5 mm	11 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 501	20
2.5 mm	13 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 518	20
2.5 mm	13.7 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 524	20
2.5 mm	16.2 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 532	20
2.51 mm	13.94 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 312	20
2.62 mm	13.94 mm	Hydrogenated acrylonitrile buta-diene rubber	70	0764 000 181	20

Continuation **O-ring**

Material thickness	Internal diameter	Material	Shore A hardness	Art. no.	P. Qty.
2.62 mm	15.54 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 538	20
2.62 mm	17.12 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 184	20
2.62 mm	21.89 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 187	20
2.62 mm	23.47 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 168	20
2.64 mm	23.04 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 288	20
2.7 mm	6.65 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 531	20
3 mm	15 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 048	10
3.53 mm	13.87 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 180	20
3.53 mm	20.22 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 166	20
3.53 mm	21.82 mm	Hydrogenated acrylonitrile butadiene rubber	70	0764 000 290	20

O-ring assortment

310 pieces For cargo/commercial vehicles

Zawartość: 310 sztuk

Number of pieces in assortment/set	310 PCS
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Art. no. 5964 764 035

P. Qty.: 1



ORSY

O-ring assortment Universal

165 pieces Includes all the essential O-rings and sealing rings, and the most common valve inserts used in vehicles, air-conditioning service devices and service hoses.

- Green colour coding, may be yellow in some individual cases, to prevent confusion
- Resistant to refrigerant

Contents: 165 pieces

- 80 o-rings R134a
- 10 o-rings, pressure switches, male thread
- 20 o-rings for pressure switches, female thread
- 2 seals for service hoses
- 2 seals for quick-release couplings, R134a
- 12 seals for filling hoses
- 10 seals for WIGAM hoses
- 10 o-rings, 6-6/16"
- 4 o-rings for compressors
- 10 Schrader valves, R134a
- 5 Schrader valves, R134a/Japan



ORSY

Number of pieces in assortment/set	165 PCS
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Art. no. 5964 764 004

P. Qty.: 1

The valve inserts must be replaced at each air conditioning service or when maintenance work is carried out on an air conditioning system. This is because debris from the compressor or other components may build up in the valve inserts as a result of activities such as draining and refilling, and this can cause leaks. Please use our range of protective caps and valve inserts when carrying out this type of work.



Self-adhesive protective film SK 50

For protecting and covering delicate surfaces.

Application is clean, quick and easy

- Self-adhesive
- No scratches or damage to surfaces when applying the film
- Easy to remove the film without leaving any adhesive residue
- Recyclable (environmentally friendly disposal)

Reliable protection

Largely resistant to chemical influences, mechanical damage and moisture.

Length	100 m
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Width	Art. no.	P. Qty.
500 mm	0818 500 050	1/4
1000 mm	0818 500 100	1/2

Please consider the legal instruction at the beginning of this chapter.

Self-adhesive protective film SK 80

For protecting and covering delicate surfaces.

Application is clean, quick and easy

- Self-adhesive
- No scratches or damage to surfaces when applying the film
- Easy to remove the film without leaving any adhesive residue
- Recyclable (environmentally friendly disposal)

Reliable protection

Largely resistant to chemical influences, mechanical damage and moisture.



Length	100 m
Width	500 mm

Art. no. 0818 800 050

P. Qty.: 1/4

Please consider the legal instruction at the beginning of this chapter.

The films are not intended for long-term protection of surfaces beyond the specified protection period. They are intended for indoor and outdoor use and must be removed once the specified application time has passed. Films are not suitable for use in large-scale forming processes. We assume no liability for incorrect use and any damage that occurs as a result of incorrect use. We recommend that preliminary tests be performed in all cases.

Never remove the film using a jerky motion (pull-off angle below 90°). Cannot be used for copper and brass. Not suitable for laser-cutting technology. UV-resistant. Max. storage period: 12 months.

Maximum application time on the object: 6 weeks.

Paintwork protection film Mask light

Light, bright and transparent micropore density standard cover film.

- Excellent paint adhesion
- Transparent for easy detection of contours during cutting
- Easy to cut
- Micropore density
- Statically charged



Material	PE - Polyethylene
Width x length	4 m x 200 m
Length	200 m
Width	4 m
Foil thickness	10 µm

Art. no. 0818 103 400

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

When using Würth Mask Light, ensure that the surface to be masked is fully dry. Würth Mask Light is not suitable for application on wet surfaces.

Mask Plus paintwork protection film

Light grey transparent, micro pore density premium cover film that prevents paint marks being left on the vehicle even with some residual moisture.



- Excellent paint adhesion
- Transparent for easy detection of contours during cutting
- Easy to cut
- Tear-proof and highly flexible
- Micropore density
- Statically charged
- Temperature-resistant up to 125°C

Material	PE - Polyethylene
Foil thickness	16 µm

Width x length	Design	Length	Width	Art. no.	P. Qty.
4 m x 6 m	Hood	6 m	4 m	0818 107 640	1
4 m x 150 m	Roles ware	150 m	4 m	0818 107 400	1
5 m x 120 m	Roles ware	120 m	5 m	0818 107 500	1
6 m x 100 m	Roles ware	100 m	6 m	0818 107 600	1

Please consider the legal instruction at the beginning of this chapter.

Parking sensor cover sensor mask

Material	Plastic
Width x length	18 mm x 18 mm
Length	18 mm
Width	18 mm
Foil thickness	80 µm



Art. no. 0818 108 018

P. Qty.: 1

Film knife

With specially coated blade

The foil knife is equipped with a specially coated blade for a long service life and high cutting speeds.



Material	Plastic
Colour	Red

Art. no. 0818 105 103

P. Qty.: 5

Please consider the legal instruction at the beginning of this chapter.

Film dispenser

For simple handling of paintwork protective film

- Large tyres for problem-free manoeuvring in the paint workshop
- Optimal, pull-based mechanism and highly robust construction with deflection pulley; in combination with paintwork protection film Mask Plus or Mask Light, facilitates complete masking of a vehicle by just one person.
- Simple to cut off cover film with specially fitted U-profile rail



Material	Metal
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Design	Colour	Art. no.	P. Qty.
Dispenser box	Silver	0891 818 107	1
Roll	Blue	0891 818 106	1

Please consider the legal instruction at the beginning of this chapter.

Masking paper Light

Specially sealed reinforced paper for covering vehicle bodywork and components.

Specially sealed

Reduces the penetration of clear varnishes and water-based paint and coating systems.

Minimum disposal costs

Highly adaptable

Paper can be easily moulded over corners and edges.

Can be used in all commercially available dispensers

- Sleeve diameter: 5 cm
- Roll diameter: approx. 18 cm



Length	300 m
Coating weight per m ²	48 g

Width	Art. no.	P. Qty.
20 cm	0899 700 820	1
60 cm	0899 700 860	1
90 cm	0899 700 890	1
120 cm	0899 700 892	1
150 cm	0899 700 895	1

Please consider the legal instruction at the beginning of this chapter.

Non-slip covering

Versatile non-slip mat to prevent falling and slipping accidents

- For keeping floors clean with no risk of slipping
- Simple, quick and clean to apply
- Durable and wear-resistant
- Self-adhesive
- Easy to clean
- Non-slip mineral-oil grain



Colour	Black
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Length	Width	Art. no.	P. Qty.
3 m	0.15 m	0894 301 015	1
3 m	0.3 m	0894 301 030	1
6 m	0.1 m	0894 301 010	1
9 m	0.05 m	0894 301 005	1

Please consider the legal instruction at the beginning of this chapter.

Paint protection film

Protects against expensive paint damage caused by parking dents, scratches on door steps or loading edges from loading/unloading as well as protecting against rust caused by stone chips.

Paintwork protection film – polyurethane-based

- Resistant to scratches, stone chips and wear (prevents corrosion from forming)
- High degree of transparency, i.e. not immediately visible after bonding
- Good resistance to UV



Simple self-assembly and disassembly

Backing material	Polyurethane film
Adhesive base	Acrylate
Colour	Transparent
Material of the cover	Adhesive-repellent paper
Foil thickness	200 µm
Min./max. temperature resistance	-40 to 110 °C
Max. short-term temperature resistance	135 °C

Length	Width	Art. no.	P. Qty.
2 m	15 cm	0894 101 150	1
6 m	30 cm	0894 101 030	1
10 m	10 cm	0894 101 010	1
10 m	15 cm	0894 101 015	1
10 m	20 cm	0894 101 020	1

Please consider the legal instruction at the beginning of this chapter.

Please note that the paint protection film must only be used in conjunction with Würth assembly fluid. Only when this liquid is used can optimum assembly, a permanent hold and residue-free removal be guaranteed.

Optimum bonding of the film with the surface is reached after approx. 48 hours. Until this point, do not attempt to adhere anything or expose the glued paint protection film to major stresses (such as car wash facilities, steam jets etc.).

Textured design film

Visual highlight on shaped areas of vehicle and provides optimum protection against corrosion of exposed painted areas in daily use



- For all smooth, grease-free surfaces – also for creating design features
- Extremely resistant protection against stone chips, tar splashes, insect residue etc.
- Permanent grip (car-wash-proof).
- Resistant to heat and cold
- Non-slip and sound absorbing
- Easy attachment and removal

Backing material	PVC
Material of the cover	Adhesive-repellent paper
Colour	Black, structured
Length	10 m
Min./max. temperature resistance	-40 to 110 °C

Width	Art. no.	P. Qty.
10 cm	0894 201 010	1
15 cm	0894 201 015	1

Please consider the legal instruction at the beginning of this chapter.

Please note: Optimum bonding of the film with the substrate is reached after approx. 48 hours. Until this point, do not attempt to adhere anything or expose the glued textured design film to major stresses (such as car wash facilities, steam jets etc.).

Assembly fluid

For the paint protection film

Contents	500 ml
Chemical basis	Water and alcohol
Density	1 g/cm ³
Shelf life from production	24 Month

Art. no. 0893 455

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.



Masking tape Soft Mask easy

Self-adhesive special sealing tape with fine-pore polyester foam for paint work.



- For use on bodywork and on moving parts
- Simple adjustment by closing the door
- Repeated masking not necessary. Simply press down to prevent the primer from showing through during subsequent painting
- Concealed adhesive strip prevents paint sticking to the adhesive and fibres on the paint edges
- Extremely absorbent polyester foam for high paint absorption
- Narrow tape width

Colour	White
Length	50 m
Width	20 mm

Art. no. 0818 300 050

P. Qty.: 1

Please consider the legal instruction at the beginning of this chapter.

Sensor pad

Silicon pads for re-using rain and light sensors when replacing the windscreen.



- Optically connects the old rain sensor or light sensor to the front windscreen without any bubbles forming
- Insensitive to grease, dust and fingerprints

Type description	Included in delivery (Lieferumfang)	Length	Width	Art. no.	P. Qty.
Sensor pad type 1	5 x pads	27 mm	27 mm	0890 025 029	1
Sensor pad type 2-1	5 x pads	33.5 mm	27 mm	0890 025 030	1
Sensor pad type 7/10	1 x pad	50 mm	37 mm	0890 025 031	1
Sensor pad type 18/19/20	5 x pads	32 mm	32 mm	0890 025 032	1
Sensor pad type H1	5 x pads	44 mm	44 mm	0890 025 033	1
Sensor pad type H2	5 x pads	44 mm	44 mm	0890 025 034	1
Sensor pad type 20/24	5 x pads	31 mm	31 mm	0890 025 035	1

To prevent bubbles from forming when attaching the pads (except art. no.: 0890025031) we recommend wetting the pads slightly with water. Sensor pad type 7/ 10 (art. no.: 0890025031) must not be moistened.

Sensor pad set

26 pieces. Silicon pads for re-using rain and light sensors when replacing the windscreen.

- Optically connects the old rain sensor or light sensor to the front windscreen without any bubbles forming
- Insensitive to grease, dust and fingerprints



Included in delivery (Lieferumfang)	6 x sensor types
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Art. no. 0890 025 027

P. Qty.: 1

To prevent bubbles from forming when attaching the sensors, we recommend wetting the pads slightly with water.

Mould release agent

For thermoplastics and thermosetting plastics

- Can be used up to +120°C
- Greatly reduces rejects
- Physiologically safe
- Washes off easily
- Subsequent treatment of injection moulded parts such as printing, painting and metallising etc. is possible
- Slight deformation of injection-moulded part
- Silicone-free



Contents	400 ml
Colour	Colourless
Smell/fragrance	Characteristic
Chemical basis	Mineral oil
Shelf life from production	24 Month

Art. no. 0890 50

P. Qty.: 1/12

Please consider the legal instruction at the beginning of this chapter.

Dent lifter set

Dent removal system with glue technology

- By attaching the glue tabs, shallow dents and dings can be removed from different materials and surfaces.
- Five different pulling tabs included in set for lifting small, large, round and long dings and dents. Tabs can be reused.
- The dent lifter set includes all necessary tools and aids to perform repairs, excluding electrical devices.



Product weight (per item)	6032 g
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Art. no. 0691 500 111

P. Qty.: 1

Pulling adapter

Adapter for PinPuller, Minilifter, Dent Lifter and Maxi-lifter to remove dents without damaging the paint-work

Colour	Red
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Diameter	Form	Range of applications	Length	Width	Art. no.	P. Qty.
	Rectangular	Especially for angular dents, e.g. door blow dents	32 mm	16 mm	0691 500 164	10
16 mm	Spherical, Round	For very small dents, e.g. remaining dent residues			0691 500 160	10
21 mm	Spherical, Round	Small dents, for example typical hail dents			0691 500 161	10
27 mm	Spherical, Round	For larger hail dents			0691 500 162	10
32 mm	Spherical, Round	To bring forward dents for the extractor lever			0691 500 163	10

Dent removal system PinPuller® Set

All-purpose dent removal system with welding and gluing accessories for bare steel and painted surfaces

- Contains all necessary tools for welding-based and adhesive-based repair systems
- Minimal heat generation means that sensitive components can be worked on as well
- Easily remove bonded pulling tabs by spraying on adhesive remover

Contents: 30 pieces

- 1 PinPuller with feet
- 1 PinPuller electrode, 3x
- 1 PinPuller electrode, 5x
- 1 copper electrode
- 1 short screwdriver, 1.2 x 6.5 mm
- 1 electrode file
- 1 each of plastic wedge, plastic knock down, gloves – size 9, acetone cleaner 250 ml, adhesive remover 150 ml, 1 Minilifter pulling piece
- 2 each of ball tabs (red) 5 x 16 mm Ø; 5 x 27 mm Ø; 5 x 21 mm Ø and 5 x 32 mm Ø
- 10 brown glue sticks, high-strength, 12 mm Ø



Product weight (per item)	4107 g
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Art. no. 5964 691 169

P. Qty.: 1

The PinPuller set is a component of the SmileREPAIR system.

Slide hammer

For dent lifter and PinPuller adhesive tabs

Length	460 mm
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Art. no. 0691 500 112

P. Qty.: 1

Wiggle wire

For welding onto steel bodywork for 3x claws and Bi-Puller

Wiggle wire enables you to pull at multiple pulling points simultaneously

Typical peak stresses do not occur which prevents sheet metal from tearing and bumps from forming.



Length	360 mm
Wire diameter	2 mm
Product weight (per item)	12.7 g

Art. no. 0691 500 147

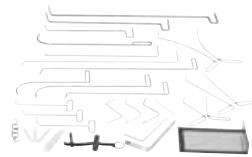
P. Qty.: 50

Total length 360 mm x 50 pcs. = 18 m. Wire thickness: 2 mm

Bodywork lever set 32 pcs.

Professional dent removal system for removing dents from vehicle bodywork without damaging paint.

- Versatile
- Method recognized or required by insurance companies and appraisers
- The dent removal assortment includes the most important bodywork levers for professional dent repair
- Almost all the bodywork levers are made of hardened tool steel



Scope of delivery

- 25 bodywork levers
- 1 support chain
- 3 plastic knock down tools
- 1 assembly wedge
- 1 glass protection panel
- 1 high-quality carrying case
- 1 instruction manual

Number of pieces in assortment/set	32 PCS
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Continuation **Bodywork lever set 32 pcs.**

Art. no. 0691 500 300

P. Qty.: 1

Universal lever

Length	395 mm
Shaft diameter (Ø)	19 mm
Material	Steel



Art. no. 0715 74 47

P. Qty.: 1

Bodywork file blade

- Flat
- Double-sided, radial milled

File blade length (L1)	350 mm
Hole distance (L2)	325 mm
Width (B1)	35 mm



Design	Teeth per unit of length	Art. no.	P. Qty.
Radial coarse	9 PCS/Inch	0714 61 71	1
Radial medium	12 PCS/Inch	0714 61 72	1

Bodywork repair tools Planishing set

For heavy bodywork pressing tasks

Weight: 36 kg

Max. pressure: 10 tonnes

Contents: 15 pieces

- 1 each of spreader, hand pump with hose, pressure cylinder with 155 mm stroke, fluted pressure piece, pressure piece prism attachment, pressure piece wedge attachment, piston rod attachment, cylinder attachment, baseplate, 380 mm extension pipe, 530 mm extension pipe, 659 mm extension pipe, 2-piece pipe connection, rubber cap, metal case



Included in delivery (Lieferumfang)	Fluted pressure piece, pressure piece prism attachment, pressure piece wedge attachment, piston rod attachment, cylinder attachment, base plate, 380 mm ext. pipe, 530 mm ext. pipe, 659 mm ext. pipe, 2 x piece pipe connection, rubber cap, metal case
Product weight (per item)	36000 g

Art. no. 0715 740 100

P. Qty.: 1

Suction lifter

Vacuum indicator and two rigid heads

- Vacuum gauge for safe working
- Suitable for briefly holding sandblasted panes
- Large ergonomic handle



Diameter	120 mm
Load capacity	50 kg

Art. no. 0714 58 047

P. Qty.: 1



Vacuum lifter

With vacuum pump and vacuum indicator in practical storage case

- Integrated vacuum pump and large suction disc diameter
- Vacuum control by means of marking ring
- Padded, non-slip handle
- Ergonomic holding area due to large reach-through height

Diameter	210 mm
Load capacity	120 kg

Art. no. 0714 58 045

P. Qty.: 1

Suction lifter

With three mobile heads

- High load capacity and flexibility thanks to three mobile suction heads
- Suitable for transporting curved panels
- Ergonomic holding area due to large reach-through height

Diameter	120 mm
Load capacity	70 kg



Art. no. 0715 58 02

P. Qty.: 1

Vacuum lifter

Two mobile heads

Also for transporting curved windscreens

such as e.g. vehicle windscreens

Windscreens can be secured using belts

thanks to slots in handles

Diameter	120 mm
Elongated hole length	30 mm
Load capacity	45 kg

Art. no. 0714 58 20

P. Qty.: 1

Suction lifter

With two rigid heads

- Stable and robust construction
- For materials with smooth and gas-tight surfaces such as glass, plastic sheeting, sheet metal, marble, tiles etc.

Diameter	120 mm
Load capacity	60 kg

Art. no. 0714 58 043

P. Qty.: 1

Vacuum lifter with one head

For fast and effective work

due to use of just one suction head

Ideal for objects on which there is only space for a single suction disc

Diameter	120 mm
Load capacity	30 kg

Art. no. 0715 58 01

P. Qty.: 1



Vacuum lifter

One-handed operation

- One-handed operation and quick-locking system
- Suitable for delicate items
- Low suction head diameter for holding smaller items

Diameter	70 mm
Load capacity	8 kg

Art. no. 0715 58 015

P. Qty.: 1



Windscreen removal set

9 pieces For easy and cost-effective removal of glued windscreens in passenger and commercial vehicles.

- Removal tool with suction system, cutting cord and mounting hook allows operation by only one person.
- The use of cutting cord and protector means that the inner panelling does not need to be removed.
- Thanks to the robust cutting cord, it can also be used with narrow clearance dimensions

Number of pieces in assortment/set	9 PCS
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Art. no. 0714 58 230

P. Qty.: 1



Pulling handle

For cutting wire

Art. no. 0714 58 23

P. Qty.: 1



Wire anchor

Long version

Wire anchor with knurled screw

Art. no. 0714 58 24

P. Qty.: 1



Stainless steel cutting wire

Extremely smooth surface, cuts more easily through adhesive bead

In handy plastic dispenser roll

Width	0.6 mm
Height	0.6 mm
Form	Square-cut
Length	50 m
Material	Stainless steel
Edge radius	0.1 mm

Art. no. 0891 656

P. Qty.: 1



Special steel cutting wire

Particularly strong cutting wire

On conventional spool

Width	0.6 mm
Height	0.6 mm
Form	Square-cut
Length	50 m
Material	Steel
Edge radius	0.08 mm

Art. no. 0714 58 281

P. Qty.: 1



Special steel cutting wire

Excellent flexibility with high tensile strength, particularly suitable for hard-to-reach areas

In handy plastic dispenser roll

Width	0.6 mm
Height	0.6 mm
Form	Square-cut
Length	50 m
Material	Steel
Edge radius	0.08 mm

Art. no. 0714 58 282

P. Qty.: 1



Round cutting wire

Braided for high cutting capacity despite lack of cutting edges

Secured on plastic spool

Form	Round
Length	22.5 m
Wire diameter	0.8 mm
Material	Steel



Art. no. 0714 58 28

P. Qty.: 1



Windscreen cutting line

For damage-free removal of vehicle windows with particularly narrow gaps.

- Extremely tear-resistant cutting thread for use in tight corners and in particularly narrow gaps
- Thanks to its round cross section, cutting injuries are virtually unheard of
- Can be used 2-4 times
- If the thread tears, it can be knotted to continue working

Form	Roll
Material	PE - Polyethylene

Min. tensile force	Length	Colour	Cord thickness	Art. no.	P. Qty.
1600 N	65 m	Orange	0.8 mm	0714 58 284	1
1800 N	25 m	Red	0.85 mm	0714 58 283	1
1850 N	65 m	Red	1.1 mm	0714 58 240	1

Combination workbench

For passenger vehicle and commercial vehicle wind-screens and assembly parts

- Cross tubing covered in soft, hard-wearing padding.
- Collapsible and height-adjustable from 0.8 to 1 m
- Robust tubular steel frame, powder coated



Length	1150 mm
Width	500 mm
Min./max. height	0.8-1 m
Max. load capacity	40 kg
Material	Steel

Art. no. 0714 58 261

P. Qty.: 1

Knife blade, straight



Cutting edge length	Art. no.	P. Qty.
26 mm	0696 512 1	2
91 mm	0696 517 6	2

Conversion of Fein part numbers to Würth part numbers.

The three digits after 639 03 ... in original Fein numbers are crucial, or the three-digit number punched into the knives.

If the number begins with 0, e.g. 095, the 0 is replaced with a 5 and the result is given the prefix 0696. In this instance, for example, the Würth item no. would be 0696 595.

If the number begins with 1 or 2, e.g. 126, a 5 is inserted before the 1 or 2 and the result is given the prefix 0696. In this instance, for example, the Würth art. no. would be 0696 512 6.

Knife blade, straight, long



Cutting edge length	Art. no.	P. Qty.
27 mm	0696 517 4	2
45 mm	0696 516 8	2
55 mm	0696 512 3	2

Cutting edge length	Art. no.	P. Qty.
80 mm	0696 517 1	2
85 mm	0696 512 5	2
110 mm	0696 519 4	2

Conversion of Fein part numbers to Würth part numbers.

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If the number begins with 1 or 2, e.g. 126, a 5 is inserted before the 1 or 2 and the result is given the prefix 0696. In this instance, for example, the Würth art. no. would be 0696 512 6.

Knife blade U-shaped



Cutting edge length	Art. no.	P. Qty.
18 mm	0696 587	2
22 mm	0696 511 5	2
24 mm	0696 576	2
28 mm	0696 516 3	2
32 mm	0696 511 4	2
32 mm	0696 514 7	2
32 mm	0696 519 1	2
36 mm	0696 579	2
38 mm	0696 521 2	2
40 mm	0696 511 0	2
40 mm	0696 515 6	2
45 mm	0696 515 4	2
52 mm	0696 515 3	2
60 mm	0696 510 1	2
60 mm	0696 510 7	2
60 mm	0696 515 7	2
95 mm	0696 511 1	2

Conversion of Fein part numbers to Würth part numbers.

The three digits after 639 03 ... in original Fein numbers are crucial, or the three-digit number punched into the knives.

If the number starts with „0“, e.g. 095, a „5“ is used instead of the „0“.

If the number starts with „1“ or „2“, e.g. 126, a „5“ is inserted in front of the „1“ or „2“.

Knife blade, L-shaped, toothed



Cutting edge length	Art. no.	P. Qty.
19 mm	0696 520 8	2
25.4 mm	0696 520 7	2
38 mm	0696 520 9	2

Conversion of Fein part numbers to Würth part numbers.

The three digits after 639 03 ... in original Fein numbers are crucial, or the three-digit number punched into the knives.

If the number begins with 0, e.g. 095, the 0 is replaced with a 5 and the result is given the prefix 0696. In this instance, for example, the Würth item no. would be 0696 595.

If the number begins with 1 or 2, e.g. 126, a 5 is inserted before the 1 or 2 and the result is given the prefix 0696. In this instance, for example, the Würth art. no. would be 0696 512 6.

Knife blade, straight, long, toothed

Cutting edge length	85 mm
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Art. no. 0696 581

P. Qty.: 2



Conversion of Fein part numbers to Würth part numbers.

The three digits after 639 03 ... in original Fein numbers are crucial, or the three-digit number punched into the knives.

If the number begins with 0, e.g. 095, the 0 is replaced with a 5 and the result is given the prefix 0696. In this instance, for example, the Würth item no. would be 0696 595.

If the number begins with 1 or 2, e.g. 126, a 5 is inserted before the 1 or 2 and the result is given the prefix 0696. In this instance, for example, the Würth art. no. would be 0696 512 6.

Rubber disc for vacuum lifter

Includes toggle and bolts

Diameter	120 mm
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		Art. no.	P. Qty.
		0714 58 041	1
		0714 58 044	1

Mounting wedge

For simple and rapid detachment of e.g. door paneling, sealing plugs and protective caps of hollow hinge pins

Material: Plastic

Prevents damage to paintwork

Length	270 mm
Width	22 mm
Height	8 mm
Material	Plastic



Art. no. 0714 58 31

P. Qty.: 1/10

Assembly wedge set

For removing interior panelling and lifting sealing lips

- Fibreglass-reinforced plastic for high strength

4 different assembly wedges for

- Levering cutting wire in behind sealing lips
- Detaching panelling and covers
- Lifting sealing lips
- Lifting clips



Number of pieces in assortment/set	Art. no.	P. Qty.
	0714 58 216	1
	0714 58 247	1
	0714 58 248	1
4 PCS	0714 58 246	1

Assembly wedge set

12 piece set for disassembling internal panelling and fastening elements.

- Slim yet tough construction
- Offers the right mounting wedge for just about any issue
- Includes high-quality tool roll



Number of pieces in assortment/set	12 PCS
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Art. no. 0714 58 245

P. Qty.: 1

Plastic trim wedge

For all work on trim strips and rubber seals

- For all work on trim strips and rubber seals
- Wedge shape also suitable for aligning vehicle doors
- Special plastic prevents damage to paintwork



Length (L)	200 mm
Height	25 mm

Width	Art. no.	P. Qty.
32 mm	0714 58 32	1
60 mm	0714 58 321	1

Seal scraper

Vanadium special steel, chrome-plated

Scraper width	25 mm
Blade length	150 mm
Length	260 mm
Material of the grip handle	Plastic
Material	Chrome-vanadium steel



Art. no. 0714 34 51

P. Qty.: 1/10

Blade scraper

With ergonomic, slip-free 2-component handle

- Includes 6 scraper blades
- Robust stainless steel blade holder
- Removable blade protector



Length	180 mm
Scraper width	40 mm
Material of the grip handle	2-component plastic
Material	Stainless steel A2, 1.4310
Product weight (per item)	109 g

Art. no. 0714 663 35

P. Qty.: 1



Coating thickness gauge Combi

Fully electronic coating thickness measuring instrument for determining coatings (e.g. paintwork, corrosion protection coating thicknesses)

Measuring range (FE/N Fe)

0–3000 μm (μm /mils switching)

Measuring time increment

Individual measurement: 600 ms

Measurement display

From 0.0–999 in μm , from 1000 μm in mm

Display	LCD
Measuring accuracy in %	3 %
Error of measurement for length (+/-)	+/- 2 μm
Min./max. temperature conditions	0 to 50 °C
Length	100 mm
Width	60 mm

Art. no. 0715 53 790

P. Qty.: 1

Clip remover

For gentle removal of clips on internal trims.

Blade length	165 mm
Blade opening	16 mm
Length	280 mm



Art. no. 0714 34 52

P. Qty.: 1/10

Sound-absorbing lining

For sound absorption, temperature insulation and visual improvement on engine and luggage compartment hoods, doors, etc.

- Polyurethane soft foam mats
- Colour: Foam: grey; top layer: Black
- With an enclosed, highly elastic polyurethane top layer on one side
- Self-adhesive
- Resistant to water, salt water, engine oil, fuels, solvents, etc.
- Impermeable to air and most liquids
- High adhesive strength
- Temperature resistant -30°C to $+80^{\circ}\text{C}$ (1 hour at $+180^{\circ}\text{C}$)



Length x width x thickness	1000 x 500 x 11 mm
Number of pieces	2 PCS
Colour	Anthracite

Art. no. 0890 100 065

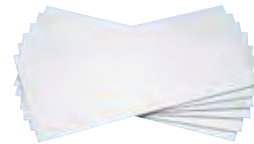
P. Qty.: 2

The foam's fire properties meet standard FMVSS 302

Sound-absorbing plate

Prevents vibration noise in the interior caused by vibrating body parts, such as the wheel arch, cardan tunnel, floor group, doors and other side parts.

- Heavy-duty bitumen plate with polypropylene coating, self-adhesive
- High adhesive strength
- Virtually unbreakable
- Resistant to water, weak acids, alkaline solutions, etc.
- Temperature resistant -30°C to $+80^{\circ}\text{C}$ (1 hour at $+180^{\circ}\text{C}$)



Length x width x thickness	550 x 250 x 2 mm
Number of pieces	6 PCS
Colour	Light grey (bright grey)

Art. no. 0890 100 060

P. Qty.: 1

Self-adhesive fusible layer

For repair work, sound insulation and sound deadening on car floor panels

- Protects the car interior from vibration noises and airborne noise
- Very good plasticity once heated
- Use on panels with severe deformation, surface embossing or beading
- 1 packaging unit covers 4 panels



Length x width x thickness	1000 x 500 x 2.8 mm
Number of pieces	4 PCS
Colour	Black (base material)

Art. no. 0890 100 070

P. Qty.: 1

Tarpaulin repair system 10-piece patch set

Mobile, self-adhesive repair system for defective truck tarps, tents, covers etc.

- Simple and professional repair
- Mobile application
- Costs optimised
- UV-resistant
- Resistant to washing brushes
- Processing temperature: -15°C to +40°C
- Temperature resistance: -40°C to +70°C
- Contents:



Length	210 mm
Width	500 mm

Colour	Art. no.	P. Qty.
Emerald green, similar to RAL 6001	0880 806 001	1
Flame red, similar to RAL 3000	0880 803 000	1
Jet black, similar to RAL 9005	0880 809 005	1
Light blue, similar to RAL 5012	0880 805 012	1
Light grey, similar to RAL 7035	0880 807 035	1
Silver coloured	0880 800 161	1
Ultramarine blue, similar to RAL 5002	0880 805 002	1
White	0880 800 290	1
Zinc yellow, similar to RAL 1018	0880 801 018	1

Please consider the legal instruction at the beginning of this chapter.

The patch cannot be pulled off and corrected after application!

All colours are similar to RAL, 161 and 290 are manufacturer's specifications

Tarpaulin repair system Plaster kit

32 pieces Mobile, self-adhesive repair system for defective truck tarps, tents, covers etc.



- Ready-to-use patches with high bonding strength in a range of colours
- Simple and professional repair with little time required
- Repair times, unnecessary downtimes, and workshop visits are reduced
- Eliminates damage claims due to freight damage
- UV-resistant
- Resistant to washing brushes

Scope of delivery

- 3 patches 300 x 200 mm
- 3 patches 200 x 200 mm
- 4 patches 300 x 100 mm
- 4 patches 200 x 100 mm
- 6 patches 100 x 100 mm
- 6 patches 200 x 50 mm
- 6 patches 100 x 50 mm

Included in delivery (Lieferumfang)	3 plasters 300x200 mm, 3 plasters 200x200 mm, 4 plasters 300x100 mm, 4 plasters 200x100 mm, 6 plasters 100x100 mm, 6 plasters 200x50 mm, 6 plasters 100x50 mm,
Number of pieces in assortment/set	32 PCS
Min./max. temperature resistance	-40 to 70 °C
Min. processing temperature	-15 °C

Colour	Art. no.	P. Qty.
Deep orange, similar to RAL 2011	0880 602 011	1
Emerald green, similar to RAL 6001	0880 606 001	1
Flame red, similar to RAL 3000	0880 603 000	1
Ivory, similar to RAL 1014	0880 601 014	1
Jet black, similar to RAL 9005	0880 609 005	1
Light blue, similar to RAL 5012	0880 605 012	1
Light grey, similar to RAL 7035	0880 607 035	1
Pure orange, similar to RAL 2004	0880 602 004	1
Silver coloured	0880 600 161	1
Ultramarine blue, similar to RAL 5002	0880 605 002	1
White	0880 600 290	1
Zinc yellow, similar to RAL 1018	0880 601 018	1

Please consider the legal instruction at the beginning of this chapter.

Multifunction spotter Spot 4500 SN2

The ideal unit for dent removal work

- Fast dent removal from outside with slide hammer puller
- Allows welding of stud bolts, T-pins, discs and corrugated wire
- With carbon or copper electrodes, sheet steel can be drawn-in and smoothed
- Large application range thanks to extra-long pistol cable
- Virtually all accessory parts for dent-removal available on the market can be used with this device



Scope of delivery

- Multifunction dent-removing device
- Cart with storage tray
- Multifunction pistol with 2500-mm cable length
- Earthing cable with terminal, 2500-mm cable length
- For dent removal, spot welding, pulling in sheet metal
- Range of accessories for dent removal
- Slide hammer puller

Nominal voltage	400 V/DC
Frequency	50 Hz
Power rating	5 kW
Conditions for power rating	at 100% action time
Power (welding)	20 kW
Main fuse	16 A slow
IP protection class	IP 21
Secondary-current short circuit	4.5 kA/AC/DC
Max. current	0.63 kA/AC/DC
Length	44 cm
Width	14 cm
Height	23 cm
Heat class	F
Cable cross section	7.5 mm ²
Number of phases	1 PCS
Secondary voltage	5.6 V/DC
Control current connection socket	XLR
Product weight (per item)	31000 g

Art. no. 0691 500 270

P. Qty.: 1

Welding unit PinPuller-Spot with LCD display

Universal welding unit for all dent-removal work on steel bodywork.

- LCD display for simple status indication with a selection of pre-set programs
- Precise setting of welding time and welding current and reproducible results
- Corrosion protection virtually preserved
- Tools are always ready to use
- Simple and flexible
- Also suitable for tools without trigger button



Nominal voltage	230 V/AC
Frequency	50 Hz
Power rating	2 kVA
Conditions for power rating	at 50% duty cycle
Main fuse	16 A slow
IP protection class	IP 21
Secondary-current short circuit	1600 A
Length	320 mm
Width	180 mm
Height	285 mm
Number of phases	1 PCS
Secondary voltage	7 V/AC
Control current connection socket	Renk, XLR
Connecting socket diameter	13 mm
Product weight (per item)	15407 g

Art. no. 0691 500 299

P. Qty.: 1



Complete printed Classic number plate holder

Printed in several colours or with raised printing

Germany's best-selling number plate holder

Often only the bar needs to be replaced (at low cost). Bars available separately

Easy to use

Robust design

Long-lasting advertising effect thanks to high degree of stability and long service life.

Meets EU directive (EEC 74/483)

Design	Complete, base plate and strip
Printed strip width x printed strip height	400 x 13 mm
Material	Plastic

Colours of print	Suitable for number-plate size	Minimum order quantity	Minimum order quantity note	Width	Art. no.	P. Qty.
1-coloured	520 x 110 mm	1 PCS	PU = 100 pieces, including print costs and layout	525 mm	0826 964	1
1-coloured white	460 x 110 mm	100 PCS		469 mm	0826 31	1
1-coloured white	520 x 110 mm	100 PCS		525 mm	0826 11	1
2-coloured	460 x 110 mm	100 PCS		469 mm	0826 32	1
2-coloured	520 x 110 mm	100 PCS		525 mm	0826 12	1
3-coloured	460 x 110 mm	100 PCS		469 mm	0826 33	1

Colours of print	Suitable for number-plate size	Minimum order quantity	Minimum order quantity note	Width	Art. no.	P. Qty.
3-coloured	520 x 110 mm	100 PCS		525 mm	0826 13	1
4-coloured	460 x 110 mm	100 PCS		469 mm	0826 34	1
4-coloured	520 x 110 mm	100 PCS		525 mm	0826 14	1
5-coloured	520 x 110 mm	100 PCS		525 mm	0826 15	1
6-coloured	520 x 110 mm	100 PCS		525 mm	0826 16	1
7-coloured	520 x 110 mm	100 PCS		525 mm	0826 17	1
8-coloured	520 x 110 mm	100 PCS		525 mm	0826 18	1
Raised, chrome	460 x 110 mm	300 PCS		469 mm	0826 23 02	1
Raised, chrome	520 x 110 mm	300 PCS		525 mm	0826 21 02	1
Raised, gold	460 x 110 mm	300 PCS		469 mm	0826 23 04	1
Raised, gold	520 x 110 mm	300 PCS		525 mm	0826 21 04	1
Raised, white	460 x 110 mm	300 PCS		469 mm	0826 23 01	1
Raised, white	520 x 110 mm	300 PCS		525 mm	0826 21 01	1
Silver negative	460 x 110 mm	100 PCS		469 mm	0826 31 01	1
Silver negative	520 x 110 mm	100 PCS		525 mm	0826 11 01	1
Silver positive	460 x 110 mm	100 PCS		469 mm	0826 31 03	1
Silver positive	520 x 110 mm	100 PCS		525 mm	0826 11 03	1
Special post imprint	520 x 110 mm	2 PCS		525 mm	0826 767 8	1

Contents for art. no. 0826 11		
Designation	Art. no.	Quantity
Base plate Classic	0826 100	1
Strip for number plate holder Classic, printed	0826 100 101	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 11 01		
Designation	Art. no.	Quantity
Base plate Classic	0826 100	1
Strip for number plate holder Classic, printed	0826 100 201	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 11 03		
Designation	Art. no.	Quantity
Base plate Classic	0826 100	1
Strip for number plate holder Classic, printed	0826 100 300	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 12		
Designation	Art. no.	Quantity
Base plate Classic	0826 100	1
Strip for number plate holder Classic, printed	0826 100 102	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 13		
Designation	Art. no.	Quantity
Base plate Classic	0826 100	1
Strip for number plate holder Classic, printed	0826 100 103	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 14		
Designation	Art. no.	Quantity
Base plate Classic	0826 100	1
Strip for number plate holder Classic, printed	0826 100 104	1
Additional print costs of NPH Classic/Circo/motorcycle plates		

Continuation **Complete printed Classic number plate holder**

Contents for art. no. 0826 15		
Designation	Art. no.	Quantity
Base plate Classic	0826 100	1
Strip for number plate holder Classic, printed	0826 100 105	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 16		
Designation	Art. no.	Quantity
Base plate Classic	0826 100	1
Strip for number plate holder Classic, printed	0826 100 106	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 17		
Designation	Art. no.	Quantity
Base plate Classic	0826 100	1
Strip for number plate holder Classic, printed	0826 100 107	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 18		
Designation	Art. no.	Quantity
Base plate Classic	0826 100	1
Strip for number plate holder Classic, printed	0826 100 108	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 21 01		
Designation	Art. no.	Quantity
Strip for number plate holder Circo, printed	0826 020 100	1
Base plate Classic	0826 100	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 21 02		
Designation	Art. no.	Quantity
Strip for number plate holder Circo, printed	0826 020 200	1
Base plate Classic	0826 100	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 21 04		
Designation	Art. no.	Quantity
Strip for number plate holder Circo, printed	0826 020 400	1
Base plate Classic	0826 100	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 23 01		
Designation	Art. no.	Quantity
Strip for number plate holder Circo, printed	0826 020 100	1
Base plate Classic	0826 300	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 23 02		
Designation	Art. no.	Quantity
Strip for number plate holder Circo, printed	0826 020 200	1
Base plate Classic	0826 300	1
Additional print costs of NPH Classic/Circo/motorcycle plates		

Contents for art. no. 0826 23 04		
Designation	Art. no.	Quantity
Strip for number plate holder Circo, printed	0826 020 400	1
Base plate Classic	0826 300	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 31		
Designation	Art. no.	Quantity
Strip for number plate holder Classic, printed	0826 100 101	1
Base plate Classic	0826 300	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 31 01		
Designation	Art. no.	Quantity
Strip for number plate holder Classic, printed	0826 100 201	1
Base plate Classic	0826 300	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 31 03		
Designation	Art. no.	Quantity
Strip for number plate holder Classic, printed	0826 100 300	1
Base plate Classic	0826 300	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 32		
Designation	Art. no.	Quantity
Strip for number plate holder Classic, printed	0826 100 102	1
Base plate Classic	0826 300	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 33		
Designation	Art. no.	Quantity
Strip for number plate holder Classic, printed	0826 100 103	1
Base plate Classic	0826 300	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 34		
Designation	Art. no.	Quantity
Strip for number plate holder Classic, printed	0826 100 104	1
Base plate Classic	0826 300	1
Additional print costs of NPH Classic/Circo/motorcycle plates		
Contents for art. no. 0826 767 8		
Designation	Art. no.	Quantity
Base plate Classic	0826 100	1
Contents for art. no. 0826 964		
Designation	Art. no.	Quantity
Complete printed Classic number plate holder	0826 11	100
Additional print costs of NPH Classic/Circo/motorcycle plates		1
Additional print costs of NPH Classic/Circo/motorcycle plates		1

Strip for quick-mount number plate holder Twin-Fixx, printed

Multi-colour or raised text

Easy to use

Robust design

Long-lasting advertising effect thanks to high degree of stability and long service life

Large printing area

Provides ideal opportunities for optimum advertising

www.classicmercadesservice.com

Design	Strip
Printed strip width x printed strip height	460 x 13 mm
Width	465 mm
Height	23 mm
Material	Plastic

Colours of print	Minimum order quantity	Art. no.	P. Qty.
1-coloured white	100 PCS	0824 010 101	1
2-coloured	100 PCS	0824 010 102	1
3-coloured	100 PCS	0824 010 103	1
4-coloured	100 PCS	0824 010 104	1
5-coloured	100 PCS	0824 010 105	1
6-coloured	100 PCS	0824 010 106	1
7-coloured	100 PCS	0824 010 107	1
8-coloured	100 PCS	0824 010 108	1
Raised, chrome	300 PCS	0824 020 200	1
Raised, white	300 PCS	0824 020 100	1
Silver negative	100 PCS	0824 010 201	1
Silver positive	100 PCS	0824 010 301	1

Meets EU directive (EEC 74/483)

Number plate holder Klapp-Fix, printed

One-piece system with a fold-out frame

With customised printing

Particularly harmonious and appealing design

Long-lasting advertising effect thanks to

high degree of stability and long service life



Design	Printed
Suitable for number-plate size	520 x 110 mm
Printed strip width x printed strip height	480 x 11.5 mm
Width	530 mm
Height	131 mm
Material	PP - Polypropylene

Colours of print	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
1-coloured	1 PCS	PU = 100 pieces, including print costs and layout	0825 964	1
1-coloured white	100 PCS		0825 61	1
2-coloured	100 PCS		0825 62	1

Colours of print	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
3-coloured	100 PCS		0825 63	1
4-coloured	100 PCS		0825 64	1
5-coloured	100 PCS		0825 65	1
Silver negative	100 PCS		0825 60	1
Silver positive	100 PCS		0825 61 03	1

Contents for art. no. 0825 964			
Designation	Art. no.	Quantity	
Number plate holder Klapp-Fix, printed	0825 61	100	
Klapp-Fix key	0825 990	1	
Additional print costs for NPH Klapp-Fixx		1	
Additional print costs for NPH Klapp-Fixx		1	

Meets EU directive (EEC 74/483)

Number plate holder Printed Klapp-Fix Plus

One-piece system with a fold-out frame

With customised printing

Klapp-Fix Plus features a larger printing area

Particularly harmonious and appealing design

Long-lasting advertising effect thanks to

high degree of stability and long service life



Design	Printed
Suitable for number-plate size	520 x 110 mm
Printed strip width x printed strip height	480 x 13 mm
Width	532 mm
Height	134 mm
Material	PP - Polypropylene

Colours of print	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
1-coloured	1 PCS	PU = 100 pieces, including print costs and layout	0825 964 0	1
1-coloured white	100 PCS		0825 061	1
2-coloured	100 PCS		0825 062	1
3-coloured	100 PCS		0825 063	1
4-coloured	100 PCS		0825 064	1
5-coloured	100 PCS		0825 065	1
Silver negative	100 PCS		0825 060	1
Silver positive	100 PCS		0825 061 03	1

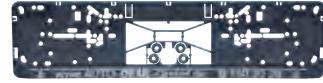
Contents for art. no. 0825 964 0		
Designation	Art. no.	Quantity
Number plate holder Printed Klapp-Fix Plus	0825 061	100
Klapp-Fix key	0825 990	1
Additional print costs for NPH Klapp-Fixx		1
Additional print costs for NPH Klapp-Fixx		1

Meets EU directive (EEC 74/483)

Complete printed Clipster number plate holder

Ideal if mounting space on vehicle is tight

Printed in several colours or with raised printing
High-quality system with flexible interchangeable bar



Also fits round vehicle contours

Easy to use

Bar attached from the front

Robust design

Long-lasting advertising effect thanks to high degree of stability and long service life

Large printing area

Provides ideal opportunities for optimum advertising

Design	Complete, base plate and strip
Suitable for number-plate size	520 x 110 mm
Printed strip width x printed strip height	460 x 12 mm
Width	520 mm
Height	136 mm
Material	Plastic

Colours of print	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
1-coloured	1 PCS	PU = 20 pieces, including print costs and layout	0824 964 20	1
1-coloured	1 PCS	PU = 100 pieces, including print costs and layout	0824 964	1
1-coloured white	100 PCS		0824 11	1
2-coloured	100 PCS		0824 12	1
3-coloured	100 PCS		0824 13	1
4-coloured	100 PCS		0824 14	1
5-coloured	100 PCS		0824 15	1
6-coloured	100 PCS		0824 16	1
7-coloured	100 PCS		0824 17	1
8-coloured	100 PCS		0824 18	1
Raised, chrome	500 PCS		0824 21 02	1
Raised, white	500 PCS		0824 21 01	1
Silver negative	100 PCS		0824 11 01	1
Silver positive	100 PCS		0824 11 03	1

Contents for art. no. 0824 11		
Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	1
Strip for number plate holder Clipster, printed	0824 100 101	1
Contents for art. no. 0824 11 01		
Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	1
Strip for number plate holder Clipster, printed	0824 100 201	1
Contents for art. no. 0824 11 03		
Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	1
Strip for number plate holder Clipster, printed	0824 100 301	1

Contents for art. no. 0824 12

Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	1
Strip for number plate holder Clipster, printed	0824 100 102	1

Contents for art. no. 0824 13

Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	1
Strip for number plate holder Clipster, printed	0824 100 103	1

Contents for art. no. 0824 14

Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	1
Strip for number plate holder Clipster, printed	0824 100 104	1

Contents for art. no. 0824 15

Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	1
Strip for number plate holder Clipster, printed	0824 100 105	1

Contents for art. no. 0824 16

Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	1
Strip for number plate holder Clipster, printed	0824 100 106	1

Contents for art. no. 0824 17

Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	1
Strip for number plate holder Clipster, printed	0824 100 107	1

Contents for art. no. 0824 18

Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	1
Strip for number plate holder Clipster, printed	0824 100 108	1

Contents for art. no. 0824 21 01

Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	1
Strip for number plate holder Clipster, printed	0824 200 100	1

Contents for art. no. 0824 21 02

Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	1
Strip for number plate holder Clipster, printed	0824 200 200	1

Contents for art. no. 0824 964

Designation	Art. no.	Quantity
Complete printed Clipster number plate holder	0824 11	100
Additional print costs for NPH Clipster		1
Additional print costs for NPH Clipster		1

Contents for art. no. 0824 964 20

Designation	Art. no.	Quantity
Base plate for number plate holder Clipster	0824 100	20
Strip for number plate holder Clipster, printed	0824 100 101	20
Additional print costs for NPH Clipster		1
Additional print costs for NPH Clipster		1

Meets EU directive (EEC 74/483)

Complete printed Twin-Fixx number plate holder

With four red rubber inserts

Printed in several colours or with raised printing
High-quality system with flexible interchangeable bar

Particularly harmonious and appealing design

Also fits round vehicle contours

Easy to use

Robust design

Long-lasting advertising effect thanks to high degree of stability and long service life

Large printing area

Provides ideal opportunities for optimum advertising



Design	Complete, base plate and strip
Suitable for number-plate size	520 x 110 mm
Printed strip width x printed strip height	460 x 13 mm
Width	530 mm
Height	136 mm
Material	Plastic

Colours of print	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
1-coloured	1 PCS	PU = 100 pieces, including print costs and layout	0824 964 0	1
1-coloured white	100 PCS		0824 011	1
2-coloured	100 PCS		0824 012	1
3-coloured	100 PCS		0824 013	1
4-coloured	100 PCS		0824 014	1
5-coloured	100 PCS		0824 015	1
6-coloured	100 PCS		0824 016	1
7-coloured	100 PCS		0824 017	1
8-coloured	100 PCS		0824 018	1
Raised, chrome	300 PCS		0824 021 02	1
Raised, white	300 PCS		0824 021 01	1
Silver negative	100 PCS		0824 011 01	1
Silver positive	100 PCS		0824 011 03	1

Contents for art. no. 0824 011		
Designation	Art. no.	Quantity
Base plate for number plate holder Twin-Fixx	0824 010 0	1
Strip for quick-mount number plate holder Twin-Fixx, printed	0824 010 101	1
Contents for art. no. 0824 011 01		
Designation	Art. no.	Quantity
Base plate for number plate holder Twin-Fixx	0824 010 0	1
Strip for quick-mount number plate holder Twin-Fixx, printed	0824 010 201	1
Contents for art. no. 0824 011 03		
Designation	Art. no.	Quantity
Base plate for number plate holder Twin-Fixx	0824 010 0	1
Strip for quick-mount number plate holder Twin-Fixx, printed	0824 010 301	1

Contents for art. no. 0824 012		
Designation	Art. no.	Quantity
Base plate for number plate holder Twin-Fixx	0824 010 0	1
Strip for quick-mount number plate holder Twin-Fixx, printed	0824 010 102	1
Contents for art. no. 0824 013		
Designation	Art. no.	Quantity
Base plate for number plate holder Twin-Fixx	0824 010 0	1
Strip for quick-mount number plate holder Twin-Fixx, printed	0824 010 103	1
Contents for art. no. 0824 014		
Designation	Art. no.	Quantity
Base plate for number plate holder Twin-Fixx	0824 010 0	1
Strip for quick-mount number plate holder Twin-Fixx, printed	0824 010 104	1
Contents for art. no. 0824 015		
Designation	Art. no.	Quantity
Base plate for number plate holder Twin-Fixx	0824 010 0	1
Strip for quick-mount number plate holder Twin-Fixx, printed	0824 010 105	1
Contents for art. no. 0824 016		
Designation	Art. no.	Quantity
Base plate for number plate holder Twin-Fixx	0824 010 0	1
Strip for quick-mount number plate holder Twin-Fixx, printed	0824 010 106	1
Contents for art. no. 0824 017		
Designation	Art. no.	Quantity
Base plate for number plate holder Twin-Fixx	0824 010 0	1
Strip for quick-mount number plate holder Twin-Fixx, printed	0824 010 107	1
Contents for art. no. 0824 018		
Designation	Art. no.	Quantity
Base plate for number plate holder Twin-Fixx	0824 010 0	1
Strip for quick-mount number plate holder Twin-Fixx, printed	0824 010 108	1
Contents for art. no. 0824 021 01		
Designation	Art. no.	Quantity
Base plate for number plate holder Twin-Fixx	0824 010 0	1
Strip for quick-mount number plate holder Twin-Fixx, printed	0824 020 100	1
Contents for art. no. 0824 021 02		
Designation	Art. no.	Quantity
Base plate for number plate holder Twin-Fixx	0824 010 0	1
Strip for quick-mount number plate holder Twin-Fixx, printed	0824 020 200	1
Contents for art. no. 0824 964 0		
Designation	Art. no.	Quantity
Complete printed Twin-Fixx number plate holder	0824 011	100
Additional print costs for NPH Twin-Fixx		1
Additional print costs for NPH Twin-Fixx		1

Meets EU directive (EEC 74/483)

Complete printed Circo number plate holder

Heavily curved version

Printed in several colours or with raised printing

Fits rounded vehicle contours very well

Easy to use

Robust design

Long-lasting advertising effect thanks to high degree of stability and long service life

CIRCO is a modified „Classic“ quick-mount number plate holder



Design	Complete, base plate and strip
Suitable for number-plate size	520 x 110 mm
Printed strip width x printed strip height	400 x 12 mm
Width	525 mm
Height	130 mm
Material	Plastic

Colours of print	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
1-coloured	1 PCS	PU = 100 pieces, including print costs and layout	0826 964 0	1
1-coloured white	100 PCS		0826 011	1
2-coloured	100 PCS		0826 012	1
3-coloured	100 PCS		0826 013	1
4-coloured	100 PCS		0826 014	1
5-coloured	100 PCS		0826 015	1
6-coloured	100 PCS		0826 016	1
7-coloured	100 PCS		0826 017	1
8-coloured	100 PCS		0826 018	1
Raised, chrome	300 PCS		0826 021 02	1
Raised, gold	300 PCS		0826 021 04	1
Raised, white	300 PCS		0826 021 01	1
Silver negative	100 PCS		0826 011 01	1
Silver positive	100 PCS		0826 011 03	1

Contents for art. no. 0826 011		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 010 101	1
Contents for art. no. 0826 011 01		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 010 201	1
Contents for art. no. 0826 011 03		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 010 301	1
Contents for art. no. 0826 012		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 010 102	1

Contents for art. no. 0826 013		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 010 103	1
Contents for art. no. 0826 014		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 010 104	1
Contents for art. no. 0826 015		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 010 105	1
Contents for art. no. 0826 016		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 010 106	1
Contents for art. no. 0826 017		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 010 107	1
Contents for art. no. 0826 018		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 010 108	1
Contents for art. no. 0826 021 01		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 020 100	1
Contents for art. no. 0826 021 02		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 020 200	1
Contents for art. no. 0826 021 04		
Designation	Art. no.	Quantity
Base plate for number plate holder Circo	0826 010 0	1
Strip for number plate holder Circo, printed	0826 020 400	1
Contents for art. no. 0826 964 0		
Designation	Art. no.	Quantity
Complete printed Circo number plate holder	0826 011	100
Additional print costs of NPH Classic/Circo/motorcycle plates		1
Additional print costs of NPH Classic/Circo/motorcycle plates		1

Meets EU directive (EEC 74/483)

Colours of print	Minimum order quantity	Art. no.	P. Qty.
1-coloured white	100 PCS	0824 100 101	1
2-coloured	100 PCS	0824 100 102	1
3-coloured	100 PCS	0824 100 103	1
4-coloured	100 PCS	0824 100 104	1
5-coloured	100 PCS	0824 100 105	1
6-coloured	100 PCS	0824 100 106	1
7-coloured	100 PCS	0824 100 107	1
8-coloured	100 PCS	0824 100 108	1
Raised, chrome	500 PCS	0824 200 200	1
Raised, white	500 PCS	0824 200 100	1
Silver negative	100 PCS	0824 100 201	1
Silver positive	100 PCS	0824 100 301	1

Meets EU directive (EEC 74/483)

Strip for number plate holder Classic, printed

Multi-colour or raised text

Easy to use

Robust design

Long-lasting advertising effect thanks to high degree of stability and long service life

KFZ P.Rauber Merchweiler ☎ 06825 890674

Design	Strip
Suitable for base-plate width	460 mm/490 mm/520 mm
Minimum order quantity	100 PCS
Printed strip width x printed strip height	400 x 12 mm
Width	410 mm
Height	21.5 mm
Material	Plastic

Colours of print	Art. no.	P. Qty.
1-coloured white	0826 100 101	1
2-coloured	0826 100 102	1
3-coloured	0826 100 103	1
4-coloured	0826 100 104	1
5-coloured	0826 100 105	1
6-coloured	0826 100 106	1
7-coloured	0826 100 107	1
8-coloured	0826 100 108	1
Silver negative	0826 100 201	1
Silver positive	0826 100 300	1

Meets EU directive (EEC 74/483)

The strips are compatible and also fit on Circo base plates.

Number plate holder, basixx completely printed

Design	Complete, base plate and strip
Suitable for number-plate size	520 x 110 mm
Printed strip width x printed strip height	500 x 16 mm
Width	525 mm
Height	133 mm
Material	Plastic



Colours of print	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
1-coloured	1 PCS	PU = 200 pieces, including print costs and layout	0825 964 011	1
1-coloured	1 PCS	PU = 500 pieces, including print costs and layout	0825 964 511	1
1-coloured white	200 PCS		0825 011	100
2-coloured	200 PCS		0825 012	100
3-coloured	200 PCS		0825 013	100
4-coloured	200 PCS		0825 014	100
Digital print	200 PCS		0825 015	100
Silver negative	200 PCS		0825 011 01	100
Silver positive	200 PCS		0825 011 03	100

Base plate Classic

For licence plate mounting

- Easy to use
- Robust design
- Highly stable and durable



Design	Base plate
Height	124 mm
Material	Plastic
Colour	Black

Suitable for number-plate size	Width	Art. no.	P. Qty.
460 x 110 mm	470 mm	0826 300	1
520 x 110 mm	525 mm	0826 100	1/50

Meets EU directive (EEC 74/483)

Base plate for number plate holder Clipster

Ideal if mounting space on vehicle is tight as the strip clips on from the front

Also fits rounded vehicle contours

Robust design

High stability and long-lasting durability



Design	Base plate
Suitable for number-plate size	520 x 110 mm
Height	129 mm
Width	529 mm
Material	PP - Polypropylene
Colour	Black

Art. no. 0824 100

P. Qty.: 1/100

Meets EU directive (EEC 74/483)

Unprinted Klapp-Fix number plate holder

One-piece system with a fold-out frame

Harmonious and appealing design

Design	Unprinted
Suitable for number-plate size	520 x 110 mm
Height	131 mm
Width	530 mm
Material	PP - Polypropylene
Colour	Black



Art. no. 0825 6

P. Qty.: 1/50

Meets EU directive (EEC 74/483)

Please use key (art. no. 0825 990) to open

Complete unprinted Clipster number plate holder

Ideal if mounting space on vehicle is tight

High-quality system with flexible interchangeable bar

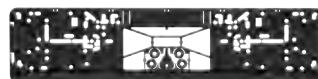
Also fits rounded vehicle contours

Easy to use

Bar attached from the front

Robust design

High stability and long-lasting durability



Design	Complete, base plate and strip
Suitable for number-plate size	520 x 110 mm
Height	129 mm

Continuation **Complete unprinted Clipster number plate holder**

Width	525 mm
Material	PP - Polypropylene
Colour	Black

Art. no. 0824 1

P. Qty.: 1/100

Meets EU directive (EEC 74/483)

Complete unprinted Classic number plate holder

- Easy to use
- Robust design ensures excellent stability and durability
- Base plate available in two lengths: 520 mm, 460 mm. Please specify when ordering



Design	Complete, base plate and strip
Height	124 mm
Material	Plastic
Colour	Black

Suitable for number-plate size	Width	Art. no.	P. Qty.
460 x 110 mm	469 mm	0826 3	1/50
520 x 110 mm	525 mm	0826 1	1/50

Meets EU directive (EEC 74/483)

The strips are compatible and fit on all Classic and Circo base plates.

Complete unprinted Circo number plate holder

Heavily curved version

Fits rounded vehicle contours very well

Easy to use

Robust design

High stability and long-lasting durability

CIRCO is a modified „Classic“ quick-mount number plate holder



Design	Complete, base plate and strip
Suitable for number-plate size	520 x 110 mm
Height	124 mm
Width	525 mm
Material	Plastic
Colour	Black

Art. no. 0826 001

P. Qty.: 1/50

Meets EU directive (EEC 74/483)

The strips are compatible and fit on all Classic base plates.

Base plate for number plate holder Circo

Heavily curved version

Fits rounded vehicle contours very well

Easy to use

Robust design

High stability and long-lasting durability

CIRCO is a modified „Classic“ quick-mount number plate holder



Design	Base plate
Suitable for number-plate size	520 x 110 mm
Height	124 mm
Width	525 mm
Material	PP - Polypropylene
Colour	Black

Art. no. 0826 010 0

P. Qty.: 1

Meets EU directive (EEC 74/483)

Quick-mount NPH screw

Ideal time-saving screw for attaching number plate holders

Head with pressed-on washer

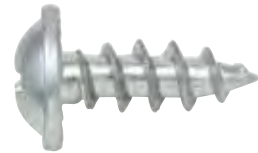
Large contact surface

Galvanised thick-film passivation with seal

400 h salt spray test, meets automotive industry requirements, high corrosion protection

Teeth under head

High stripping torque



Head diameter	8 mm
Material	Steel
Nominal diameter	4.8 mm
Internal drive	H2
Head type	Button head

Length	Art. no.	P. Qty.
13 mm	0826 748 13	100/300
16 mm	0826 748 16	100/300
25 mm	0826 748 25	100/300

Damper for number plate holders

Rubber damper for retrofitting to all popular number plate holders to prevent rattling noise

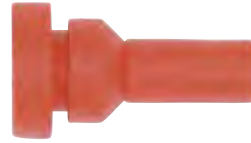
Customised contents and adaptation to the intended purpose (vehicle type, combination of letters on the number plate)

Prevents rattling noise and damage to the vehicle

Acts as a cushion between the number plate and the holder and between the holder and vehicle body.

Insertion aid with predetermined breaking point

Quick, easy and accurate positioning



Length	17 mm
Head diameter	0.9 mm
Material	Rubber

Art. no. 0826 715 200

P. Qty.: 300

Quick-mount NPH clip

Adapter allowing attaching red number plates to easily be attached to number plate holders

- Quick and easy changing of temporary number plates
- No additional assembly materials or tools required



Material	Plastic
Included in delivery (Lieferumfang)	2 x quick-action license plate holder clips and 4 x screws

Art. no. 0826 715 100

P. Qty.: 2

If the vehicle's rear number plate mounting point is too narrow, it may be sensible to screw the clip to the red number plate upside down. It is then attached to the vehicle from the top downward.

Mobile phone holder with magnet

Material	Plastics - Polyamide PA
Product weight (per item)	72 g
Length	57 mm
Width	40 mm
Colour	Black



Art. no. 0837 900 110

P. Qty.: 1

Key fob Label

Heavy-duty, hard-wearing nylon material combined with real cowhide

- With embroidered brand patch
- Hot stamping in the leather
- Durable advertisement that does not fade



Material	Nylon/cowhide leather
Printed strip width x printed strip height	20 x 20 mm

Number of embossed sides	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
1 PCS	1 PCS	PU = 100 pieces, embossing stamp and layout	0824 964 501	1
1 PCS	100 PCS		0824 501 001	1
2 PCS	100 PCS		0824 501 002	1

Please consider the legal instruction at the beginning of this chapter.

Assorted selections possible (please state when placing your order)

Key fob Italy

Rugged, hard-wearing nylon combined with real cowhide.

- Hot stamping in the leather
- Durable advertisement that does not fade



Material	Nylon/cowhide leather
Printed strip width x printed strip height	20 x 20 mm

Colour	Number of embossed sides	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
Black	1 PCS	100 PCS		0824 500 001	1
Black	2 PCS	100 PCS		0824 500 002	1
Green	1 PCS	100 PCS		0824 500 051	1
Green	2 PCS	100 PCS		0824 500 052	1
Grey	1 PCS	100 PCS		0824 500 061	1
Grey	2 PCS	100 PCS		0824 500 062	1
Light blue (bright blue)	1 PCS	100 PCS		0824 500 021	1
Light blue (bright blue)	2 PCS	100 PCS		0824 500 022	1
Navy blue	1 PCS	100 PCS		0824 500 031	1
Navy blue	2 PCS	100 PCS		0824 500 032	1
Optional	1 PCS	1 PCS	PU = 100 pieces, embossing stamp and layout	0824 964 500	1
Pink	1 PCS	100 PCS		0824 500 071	1
Pink	2 PCS	100 PCS		0824 500 072	1
Red	1 PCS	100 PCS		0824 500 041	1
Red	2 PCS	100 PCS		0824 500 042	1
Yellow	1 PCS	100 PCS		0824 500 011	1
Yellow	2 PCS	100 PCS		0824 500 012	1

Assorted selections possible (please state when placing your order)

Mud flap for rear apron

With special bayonet mount including securing rail

- Single-piece truck mud flap including securing rail
- Reduced risk of breakage and tearing thanks to the free pendulum motion
- Dimensionally stable
- Can be printed with one to three colours



Length x width x thickness	2400 x 380 x 3 mm
Minimum order quantity	30 PCS
Material	PVC - Polyvinyl chloride
Min./max. temperature resistance	-20 to 80 °C

Design	Colours of print	Printed strip width x printed strip height	Art. no.	P. Qty.
Without traffic logos (black)	1-coloured white	1550/2400 x 290 mm	0824 811 001	1
Without traffic logos (black)	2-coloured	1550/2400 x 290 mm	0824 811 002	1
Without traffic logos (black)	3-coloured	1550/2400 x 290 mm	0824 811 003	1
With traffic logos	1-coloured white	1200/1550 x 290 mm	0824 811 011	1
With traffic logos	2-coloured	1200/1550 x 290 mm	0824 811 012	1
With traffic logos	3-coloured	1200/1550 x 290 mm	0824 811 013	1

3 different tool and print sizes available, providing a unique and easily legible means of advertising.

Printed advertising plate

Customised, up to four colours or digitally printed

- Top print quality for professional advertising



Printed strip width x printed strip height	520 x 112 mm
Material	PS - Polystyrene
Suitable for base-plate width	520 mm

Colour	Colours of print	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
Black	1-coloured	1 PCS	PU = 100 pieces, including print costs and layout	0826 964 701	1
Black	1-coloured	100 PCS		0826 000 701	1
Black	2-coloured	100 PCS		0826 000 702	1
Black	3-coloured	100 PCS		0826 000 703	1
Black	4-coloured	100 PCS		0826 000 704	1
Black	Digital print	100 PCS		0826 000 705	1
White	2-coloured	100 PCS		0826 000 802	1
White	3-coloured	100 PCS		0826 000 803	1
White	4-coloured	100 PCS		0826 000 804	1

Contents for art. no. 0826 964 701

Designation	Art. no.	Quantity
Printed advertising plate	0826 000 701	100
Film production/change costs for digital printing on advertising plate		1
Film production/change costs for digital printing on advertising plate		1

Order protector with rip-tape fastening

With reinforced key pocket on reverse side

- Cord is supplied loose
- Tear guard at the corners of the clear plastic film



Sealing type	Hook and loop fastener
Material	Carton
Suitable for	DIN A4
Width	233 mm
Height	330 mm
Width x height x thickness	233 x 330 x 0.4 mm

Colour	Product weight (per item)	Art. no.	P. Qty.
Grey	223 g	0824 010 000	10
Black	227.2 g	0824 010 001	10
Blue	228 g	0824 010 002	10
Yellow	229 g	0824 010 003	10
Red	228.3 g	0824 010 004	10
Green	228.9 g	0824 010 005	10
Purple	229.1 g	0824 030 013	10

Order protector with magnetic fastening

Solid design with reinforced key pocket on the back

- Cord is supplied loose
- Tear guard at the corners of the clear plastic film



Sealing type	Magnetic lock
Material	Carton
Suitable for	DIN A4
Width	233 mm
Height	330 mm
Width x height x thickness	233 x 330 x 0.4 mm

Colour	Product weight (per item)	Art. no.	P. Qty.
Black	227.9 g	0824 010 008	10
Blue	281.7 g	0824 010 009	10
Green	281.7 g	0824 010 043	10
Red	281.7 g	0824 010 010	10

Open tool bag

Robust open bag for tools and materials

- Full plastic base
- Insert pockets inside and out
- Padded carry handle
- Detach the shoulder strap and use as a tool belt



Length x width x height	440 x 250 x 360 mm
Material	PES - Polyester
Colour	Black, Grey
Max. load capacity	15 kg
Product weight (per item)	2300 g
Min./max. length of shoulder belt	850-1400 mm

Art. no. 0715 930 222

P. Qty.: 1

Order protector with rip-tape and hinge

With extra-wide elastic pleat

- Additional side closure for quick use
- Solid design with reinforced key pocket on back
- Cord is supplied loose
- Tear-resistant material at the corners of the clear film



Sealing type	Rip-tape fastening with fold
Material	Carton
Suitable for	DIN A4
Width	233 mm
Height	330 mm
Width x height x thickness	233 x 330 x 0.4 mm

Colour	Product weight (per item)	Art. no.	P. Qty.
Grey	233.5 g	0824 030 006	10
Blue	234.5 g	0824 030 007	10
Red	233.5 g	0824 030 008	10
Green	234 g	0824 030 009	10
Yellow	236.5 g	0824 030 010	10
Black	234.5 g	0824 030 011	10

Customer service sticker

Informs and reminds vehicle owner of the next workshop visit

- For recording work completed
- Non-fading, petrol, oil, water and heat-resistant
- Made from self-adhesive foil
- In clear and practical dispenser box



Length	40 mm
Width	60 mm
Material	PE - Polyethylene
Colour	Blue, White

Type description	Art. no.	P. Qty.
Air-conditioning customer service	0824 010 045	1
Brake fluid	0824 010 039	1
Caution! Gears	0824 010 036	1
Frost protection	0824 010 038	1
Next inspection	0824 010 037	1

Ice scraper with glove

Protects hands from unpleasant cold and wet when scraping ice

Quick ice removal from windows

Large scraping surface (10 cm)

Also suitable for bigger hands

Wide glove opening

Snug and warm

Inner lining made of fleece

Outer material made of robust nylon



Type description	With glove
Colour	Black, White
Handle colour	Black
Length	385 mm
Min./max. width	10-180 mm
Material	Plastics - Polyamide PA
Length of scraping edge	10 cm
Material of the handle	Plastic

Art. no. 0824 605 000

P. Qty.: 10

Parking disc with ice scraper

With tyre tread gauge and shopping trolley chip

- Very stable design
- One shopping trolley chip with a tyre tread gauge on the rear side
- Meets requirements of German Road Vehicle Registration Regulation (StVZO)



Design	Unprinted
Type description	With ice scraper, shopping trolley chip and tyre tread gauge
Material	Plastic
Colour	White, Blue
Length	158 mm
Width	120 mm

Art. no. 0824 602 000

P. Qty.: 10

Negro driving licence wallet

Made of black nylon and synthetic leather

- Inner lining
- With two net compartments



Colour	Black
Colours of print	1-coloured silver
Printed strip width x printed strip height	35 x 60 mm
Material	Nylon/PU imitation leather

Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
1 PCS	PU = 100 pieces, including print costs and layout	0824 964 522	1
100 PCS		0824 522 001	1

Contents for art. no. 0824 964 522		
Designation	Art. no.	Quantity
Negro driving licence wallet	0824 522 001	100
Promotion film production/alteration costs Layout creation		1
Promotion film production/alteration costs Machine set-up		1

Driving licence wallet Classic

High-quality black leather

- Inner material: Lavish nylon liner matched to the colour of the leather, with transparent pockets

Colour	Black
Colours of print	1-coloured silver
Printed strip width x printed strip height	40 x 60 mm
Material	Leather



Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
1 PCS	PU = 100 pieces, including print costs and layout	0824 964 523	1
100 PCS		0824 523 003	1

Contents for art. no. 0824 964 523			
Designation	Art. no.	Quantity	
Driving licence wallet Classic	0824 523 003	100	
Promotion film production/alteration costs Layout creation		1	
Promotion film production/alteration costs Machine set-up		1	

Velour driving licence wallet

Made of elegant velour material in four colours

- With two transparent side pockets
- Soft velour material as an eye-catcher draws attention to your advertising

Printed strip width x printed strip height	60 x 80 mm
Material	Velour



Colour	Colours of print	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
Black	1-coloured silver	100 PCS		0824 520 031	1
Blue	1-coloured silver	100 PCS		0824 520 011	1
Claret	1-coloured silver	100 PCS		0824 520 021	1
Grey	1-coloured	100 PCS		0824 520 001	1
Optional	1-coloured	1 PCS	PU = 100 pieces, including print costs and layout	0824 964 520	1

Contents for art. no. 0824 964 520		
Designation	Art. no.	Quantity
Promotion film production/alteration costs Layout creation		1
Promotion film production/alteration costs Machine set-up		1

Unprinted car first aid bag, one piece

First-aid materials in accordance with DIN 13164-2014

- Parts that need to be replaced are packaged individually and can easily be replaced upon expiry.
- Bag made of nylon fabric
- Long hook and loop strap on the back for securing in the car



Length	220 mm
Width	65 mm
Height	146 mm
DIN	13164

Colour	Art. no.	P. Qty.
Black	0824 401 010	10
Blue	0824 401 030	10
Red	0824 401 020	10



Unprinted car first aid bag, three pieces

First-aid materials in accordance with DIN 13164-2014

- Parts that need to be replaced are packaged individually and can easily be replaced upon expiry.
- Small European warning triangle, tested in accordance with EC directive
- DIN EN ISO 20471 warning vest (orange) with velcro closure and two reflective strips

Length	446 mm
Width	60 mm
Height	146 mm
DIN	13164
EN standard	471

Colour	Art. no.	P. Qty.
Black	0824 403 010	10
Blue	0824 403 030	10
Red	0824 403 020	10

Contents for art. no. 0824 403 010		
Designation	Art. no.	Quantity
Warning triangle Mini	0824 010 024	1
Refill kit for first aid bags	0824 403 000	1
High-vis vest	0899 078	1

Continuation **Unprinted car first aid bag, three pieces**

Contents for art. no. 0824 403 020		
Designation	Art. no.	Quantity
Warning triangle Mini	0824 010 024	1
Refill kit for first aid bags	0824 403 000	1
High-vis vest	0899 078	1
Contents for art. no. 0824 403 030		
Designation	Art. no.	Quantity
Warning triangle Mini	0824 010 024	1
Refill kit for first aid bags	0824 403 000	1
High-vis vest	0899 078	1

Printed car first aid bag, one piece

First aid materials in accordance with DIN 13164-2014

The components that need to be replaced are packaged individually and can easily be replaced upon expiry.

Nylon fabric bag

Long rip-tape strip on rear for securing in the vehicle

Low minimum order quantity

- Low quantities of item held in stock, so therefore low tied-up capital requirements
- Can be used up to expiration dates of first aid materials



Colours of print	1-coloured white
Minimum order quantity/note	4 PCS/PU = 10 pieces, minimum order quantity = 4 x 10 pieces
Printed strip width x printed strip height	165 x 45 mm
Length x width x height	220 x 65 x 146 mm
DIN	13164

Colour	Art. no.	P. Qty.
Black	0824 401 011	10
Blue	0824 401 031	10
Red	0824 401 021	10

Printed car first aid bag, three pieces

- Dressing material in accordance with DIN 13164-2014
- Bag made from nylon fabric
- Long Velcro fastener on the reverse for a firm hold in the vehicle
- Small Euro warning triangle, tested according to EC guidelines
- Safety vest to DIN ISO 20471: 2013 (orange) with Velcro fastener and two reflective strips
- Low minimum order quantity



Colours of print	1-coloured white
Minimum order quantity/note	4 PCS/PU = 10 pieces, minimum order quantity = 4 x 10 pieces

Printed strip width x printed strip height	165 x 45 mm
Length x width x height	446 x 60 x 146 mm
DIN	13164

Colour	Art. no.	P. Qty.
Black	0824 403 011	10
Blue	0824 403 031	10
Red	0824 403 021	10

Folding metre rule, internal hinges

Inside hinges

- Does not bend and always lies straight during measuring
- Folding rule can be used as a ruler – larger advertising surface



Material	Wood
Colour	White
Max. length measuring range	2 m
Length of link (pivot point)	200 mm
Accuracy class	III
Number of chain links	10 PCS

Length (folded up) x width (folded up) x height	Angle markings on joints	Material of joints	Design	Art. no.	P. Qty.
220 x 16 x 34 mm		Steel	Inside hinges, Without locking function at 90°	0825 802 000	10
220 x 16 x 36 mm	90 Degree	Hardened steel	Inside hinges, With locking function at 90°	0825 800 000	10

EEC type approval, accuracy class III

Folding metre rule, internal hinges

Inside hinges

Wooden rule, 2 m

Does not bend and always lies straight when measuring

Suitable for one-colour or multi-colour digital printing to suit customer requirements

Any information can be printed, including images

Internal hinges

Folding metre rule can be used as a ruler – larger advertising surface

Standard angle impression on 2nd joint

No additional goniometer required



Printed strip width x printed strip height	242 x 39 mm
Material	Wood
Number of chain links	10 PCS

Continuation **Folding metre rule, internal hinges**

Colours of print	Material of joints	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
1-coloured	Hardened steel	1 PCS	PU = 150 pieces, including print costs and layout	0825 964 801	1
1-coloured	Hardened steel	150 PCS		0825 800 001	1
1-coloured	Plastic	1 PCS	PU = 150 pieces, including print costs and layout	0825 964 841	1
1-coloured	Plastic	150 PCS		0825 804 001	1
1-coloured	Steel	1 PCS	PU = 150 pieces, including print costs and layout	0825 964 081	1
1-coloured	Steel	150 PCS		0825 802 001	1
Multicolour	Hardened steel	1 PCS	PU = 150 pieces, including print costs and layout	0825 964 802	1
Multicolour	Hardened steel	150 PCS		0825 800 002	1
Multicolour	Plastic	1 PCS	PU = 150 pieces, including print costs and layout	0825 964 842	1
Multicolour	Plastic	150 PCS		0825 804 002	1
Multicolour	Steel	1 PCS	PU = 150 pieces, including print costs and layout	0825 964 082	1
Multicolour	Steel	150 PCS		0825 802 002	1

Contents for art. no. 0825 964 081

Designation	Art. no.	Quantity
Film production/alteration costs		1
Film production/alteration costs		1
Folding metre rule, internal hinges	0825 802 001	150

Contents for art. no. 0825 964 082

Designation	Art. no.	Quantity
Film production/alteration costs		1
Film production/alteration costs		1
Folding metre rule, internal hinges	0825 802 002	150

Contents for art. no. 0825 964 801

Designation	Art. no.	Quantity
Folding metre rule, internal hinges	0825 800 001	150
Film production/alteration costs		1
Film production/alteration costs		1

Contents for art. no. 0825 964 802

Designation	Art. no.	Quantity
Folding metre rule, internal hinges	0825 800 002	150
Film production/alteration costs		1
Film production/alteration costs		1

Contents for art. no. 0825 964 841

Designation	Art. no.	Quantity
Film production/alteration costs		1
Film production/alteration costs		1
Folding metre rule, internal hinges	0825 804 001	150

Contents for art. no. 0825 964 842		
Designation	Art. no.	Quantity
Film production/alteration costs		1
Film production/alteration costs		1
Folding metre rule, internal hinges	0825 804 002	150

EEC type approval, accuracy class III

Ballpoint pen Royal

Refillable ballpoint pen

- Attractive and modern design
- Chrome-plated metal clip
- High-quality metal casing
- Equipped with a high-capacity blue ink reservoir



Printed strip width x printed strip height	45 x 7 mm
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Colour	Colours of print	Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
Black	1-coloured silver	100 PCS		0824 707 003	1
Blue	1-coloured silver	100 PCS		0824 707 004	1
Green	1-coloured silver	100 PCS		0824 707 005	1
Optional	1-coloured	1 PCS	PU = 100 pieces, including print costs and layout	0824 964 707	1
Red	1-coloured silver	100 PCS		0824 707 001	1
White	1-coloured black	100 PCS		0824 707 002	1

Wooden umbrella

With automatic opening system

Strap with Velcro fastener

Sturdy

With strong metal spokes

Wide range of colours

Available in 12 different colours

Possibility of silver or black printing on one section

Print area: Width: 170 - 280 x height 210 mm



Stave material	Metal
Material of the grip handle	Plastic
Length	83 cm
Design of the handle	Curved

Colour	Art. no.	P. Qty.
Yellow	0824 340 001	12
Orange	0824 340 002	12
Red	0824 340 003	12
Green	0824 340 004	12
Optional	0824 964 345	1

Continuation **Wooden umbrella**

Contents for art. no. 0824 964 345		
Designation	Art. no.	Quantity
Additional printing costs umbrella Layout creation		1
Additional printing costs umbrella Machine set-up		1

Led pocket torch

Colour	Black
Material of the housing	Plastic
Colours of print	1-coloured silver
Printed strip width x printed strip height	40 x 20 mm



Minimum order quantity	Minimum order quantity note	Art. no.	P. Qty.
1 PCS	PU = 50 pieces, including print costs and layout	0824 964 310	1
50 PCS		0824 310 001	1

Ice scraper with brush

Broad range of uses

- The snow broom has a 75 mm wide scraper blade and a water wiper edge
- Available in four different colours



Type description	With broom
Colour	Blue, Red, Yellow, Green
Length	31.5 cm
Min./max. width	3.2-13 cm
Material	Plastic
Length of rubber lip	7.5 cm
Length of scraping edge	7.5 cm
Length of bristles	3 cm
Material of the handle	Plastic

Art. no. 0824 105 12

P. Qty.: 10

No advertising space

Ice scraper with handle Hobby

With stable edge for effortless removal of ice

- Neutral; no print
- Handle made of soft, non-slip plastic

Type description	Hobby
Colour	Red, Blue, Yellow
Handle colour	Grey
Length	184 mm
Min./max. width	27-75 mm
Material	Plastic
Length of scraping edge	7.7 cm



Art. no. 0824 601 000

P. Qty.: 10

Supplied in assorted colours: red, yellow and blue

Base plate for number plate holder Twin-Fixx

With four red rubber inserts

Harmonious and appealing design

Also fits rounded vehicle contours

Easy to use

Robust design

Highly stable and durable



Design	Base plate
Suitable for number-plate size	520 x 110 mm
Height	136 mm
Width	530 mm
Material	PP - Polypropylene
Colour	Black, Red

Art. no. 0824 010 0

P. Qty.: 1/100

Meets EU directive (EEC 74/483)

Rattling noises and damage to the vehicle are permanently avoided, as both the inserted number plate and the Twin-Fixx are cushioned against the vehicle body.

Disposable PP hard film key fob

Environmentally friendly PP hard film

Available in 6 different colours

Permits clearly-arranged and organised working in the workshop

Can be marked easily and quickly with ball point or felt pen

In practical dispenser box



Continuation **Disposable PP hard film key fob**

Length	80 mm
Width	35 mm
Material	PP - Polypropylene

Colour	Art. no.	P. Qty.
Blue	0824 010 012	100
Green	0824 010 015	100
Grey	0824 010 011	100
Red	0824 010 014	100
Violet	0824 010 016	100
Yellow	0824 010 013	100

Price sheet holder

High-quality polycarbonate, so break-proof and heat-resistant at high temperatures inside the vehicle

Quick and easy to fit

Simply slots in behind the window

Protects the presented data

Non-fading, clearly legible vehicle details



Colour	Transparent
Material	Polycarbonate - PC
Height	305 mm
Width	210 mm

Art. no. 0824 010 030

P. Qty.: 5

Cotton bag for wheel bolts, unprinted

Strong design with double pull cord

- Environmentally friendly thanks to reusability
- No more annoying searching

Colour	Black
Length	200 mm
Width	150 mm
Material	Cotton



Art. no. 0824 010 023

P. Qty.: 50

Customised printing available for the plain cotton bag for orders of 100 units or more.

Wheel/tyre tag loops

Quick and clear assignment of tyre set to vehicle.

Large label (approx. 15 x 10.5 cm)

Excellent legibility, clearly laid out

Inserted label is protected against moisture

Wheel can even be cleaned with high-pressure cleaner with tag attached

Tag can be reused several times

One tag for winter and summer tyres



Colour	Black, White, Transparent
Material	Paper/plastic

Length	Art. no.	P. Qty.
80 cm	0824 010 020	100
110 cm	0824 010 019	50

Warning triangle Mini

Extremely small and practical

Especially light and space-saving

Fits into narrow gaps

Colour	Red
Length	425 mm
Width	30 mm
Height	47 mm
Material	Plastic



Art. no. 0824 010 024

P. Qty.: 10

Tested in line with EC directive

Tyre/wheel ID sticker

- Very good sticking properties on the tyre surface structure thanks to special adhesive
- Aluminium-coated reverse side prevents substances in the tyre from penetrating the label/migrating to the surface
- Label suitable for use with ballpoint pens and permanent markers
- Universal label; pre-printed for use on any tyre, FL/FR/RL/RR

Colour	Black, White
Length	120 mm
Width	80 mm
Material	PE - Polyethylene



Art. no. 0824 010 034

P. Qty.: 100

Inspection tag

Clearly laid out important maintenance and safety notes for the vehicle owner

- Easy to label
- With stamp field on rear
- For recording completed work
- Made of sturdy 250 g/m² cardboard
- Includes winding wire

Length	100 mm
Width	65 mm
Material	Paper

Art. no. 0824 010 032

P. Qty.: 100



Replacement loop for tyre tag

Colour	Black
Width	1.7 cm
Material	Paper/plastic



Length	Art. no.	P. Qty.
80 cm	0824 010 027	100
110 cm	0824 010 028	50

Petrol/cooling water can

With angled neck

- Resistant to oil, diesel, petrol and diluted acids
- With two handles for secure hold
- Narrow spout for filling e.g. windscreen washer fluid containers on vehicles

Colour	Dark grey
Contents	8.5 l
Material	PE - Polyethylene
Length x width x height	639 x 167 x 316 mm



Art. no. 0824 010 066

P. Qty.: 1

Workshop scheduler, five rows

For DIN A4 order protector sleeves or DIN A4 clip-boards

- Professional organisation tool for staff planning, scheduling and order documentation
- Timeless modern design with a robust finish
- Easy installation incl. **fastening material**



Material	Polypropylene - wood
Colour	Grey, Light grey RAL 7035
Width	1580 mm
Depth	76 mm
Insertion depth	210 mm

Number of rails	Height	Art. no.	P. Qty.
6 PCS	900 mm	0824 010 094	1
10 PCS	1282 mm	0824 010 095	1
15 PCS	1757 mm	0824 010 096	1

Supplied without name plates and order protectors

Workshop scheduler, one row

For DIN A4 order protector sleeves or DIN A4 clip-boards

- Professional organisation tool for staff planning, scheduling and order documentation
- Deviations from schedule are immediately identifiable
- Timeless, modern and robust design
- Easy to mount, includes fixings



Number of rails	10 PCS
Number of rows	1 PCS
Width	315 mm
Insertion depth	210 mm

Material	Colour	Height	Depth	Art. no.	P. Qty.
Metal	Blue, Grey	1278 mm	74 mm	0824 010 088	1
Metal	Grey,	1278 mm	74 mm	0824 010 089	1
Metal	Red, Grey	1278 mm	74 mm	0824 010 087	1
Polypropylene - wood	Grey, light grey RAL 7035	1282 mm	76 mm	0824 010 099	1

Supplied without name plates or order sleeves

Workshop scheduler, two rows

For DIN A4 order protector sleeves or DIN A4 clipboards

- Professional organisation tool for staff planning, scheduling and order documentation
- Schedule deviations can be immediately identified
- Easy installation incl. fastening material



Number of rows	2 PCS
Width	554 mm
Insertion depth	210 mm

Material	Colour	Number of rails	Height	Depth	Art. no.	P. Qty.
Metal	Blue, Grey	10 PCS	1278 mm	74 mm	0824 010 091	1
Metal	Grey	10 PCS	1278 mm	74 mm	0824 010 092	1
Metal	Red, Grey	10 PCS	1278 mm	74 mm	0824 010 090	1
Polypropylene - wood	Grey, Light grey RAL 7035	10 PCS	1282 mm	76 mm	0824 010 097	1
Polypropylene - wood	Grey, Light grey RAL 7035	15 PCS	1757 mm	76 mm	0824 010 098	1

Supplied without name plates or order sleeves

Wall-mounted key cabinet

Sheet metal thickness up to 1.2 mm, powder-coated

- Cylinder lock as standard
- Removable hook rows which can be relocated
- Holes in rear panel for wall mounting
- Delivery includes fastening material



Thickness	1.2 mm
Material	Sheet steel
Colour	Grey

Design	Type description	Height x width x depth	Art. no.	P. Qty.
With divider	86 key	360 x 235 x 110 mm	0824 010 083	1
With divider	108 key	360 x 270 x 110 mm	0824 010 084	1
With divider	160 key	420 x 300 x 130 mm	0824 010 085	1
With divider	200 key	520 x 300 x 130 mm	0824 010 086	1
Without divider	22 key	250 x 170 x 50 mm	0824 010 080	1
Without divider	35 key	300 x 200 x 60 mm	0824 010 081	1
Without divider	50 key	360 x 235 x 60 mm	0824 010 082	1

Key fobs not included.

Advertising stand Window stand

Size: 640 x 540 x 1750 mm

Art. no. 5995 400 001

P. Qty.: 1



WÜRTH

Total Range 2023/2024

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