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BRINKO®

powered by haupa®

HAUPA W1254HB | 1400/EN

PEFC

brinko.de

Main catalogue 2025 | 2026

catalogue to go

Tradition meets the future

HAUPA and BRINKO combine their strengths to jointly offer innovative solutions for electrical and sanitary applications.

The Haupa GmbH & Co. KG „Tools and Cable Connection Technology for Electricians“ and Brinko GmbH „Tools and Camera Inspection Systems for Sanitary“ have merged retroactively as of January 1, 2024, and now operate under the name HAUPA GmbH.

This enables us to optimally leverage our synergies and efficiently accompany the transformation in the electrical and sanitary industries. The HAUPA brand, founded in 1961, and the BRINKO brand, established in 1860, will maintain their familiar external representations. Together, we look forward to a successful future where we can work even more efficiently and meet your requirements with innovative solutions.

QUALITY and SAFETY are hugely important to us!

Our product portfolio includes high-quality system tools and certified cable connection technology for the electrical trade and industry, as well as a wide range of basic tools for professional use in electrical engineering. In addition, we produce and market high-quality tools for the sanitary sector. The quality of our products is our top priority at HAUPA. To ensure this, we conduct continuous quality controls in-house.

In recent years, our range has expanded significantly. To serve and satisfy our customers beyond electrical engineering, we are constantly working to add new tools and accessories to our product offering. This allows us to act as a central point of contact in various fields related to electrical trade and sanitary topics.

Logistics and shipping

Thanks to our modern warehouse in Remscheid, we always have a large proportion of our products in stock. Our experienced logistics team strives to ensure that our goods usually make their way to the customer on the day of the order. Customer satisfaction, your trust and on-time delivery are our most important goals!

Competent contact person

We personally take care of the questions and problems of our customers. When you get in touch with us, you can be sure that we will help you. Our on-site employees are professionals in the field, and some have worked as electrical engineers themselves, making them the perfect contact person for you.

If you are not sure which materials you can process with which tool, we would be delighted to help - and answer all other questions, too!

Sales exclusively through specialized wholesalers

Our products are available exclusively through the relevant specialized wholesalers. A strong partnership is very important to us.

Quality tools and connection technology for the electrical trade and electrical industry

Tradition and innovation for over 60 years

HAUPA stands for hand tools of the highest quality and safety for electrical engineers as well as for high-quality, certified cable connection and crimping technology. When developing our products, we always focus on the **HAUPAplus** - the additional benefit, the special advantage for our customers. It is our passion to create and offer reliable, safe and attractive products.

Jens-Ole Paas
CEO

Our aim is to enable users to carry out their tasks more efficiently, safely and easily, so that the results meet the requirements of their organisations. Today, our range comprises more than 7,000 products available in over 50 countries worldwide. We have been on a continuous growth path since our foundation.

What drives us? Our endeavour to develop products with the highest precision that offer users real added value. Our many years of experience, tradition, innovative strength and reliability make us a strong partner in the fields of tools and cable connection technology. With the acquisition of BRINKO in 2020, we have expanded our product range by 1,000 items in the field of sanitary tools. This opens up new perspectives for the entire plumbing and electrical wholesale trade. Both companies - HAUPA and BRINKO - are traditional, family-run companies. BRINKO has been firmly rooted in Remscheid since 1860.

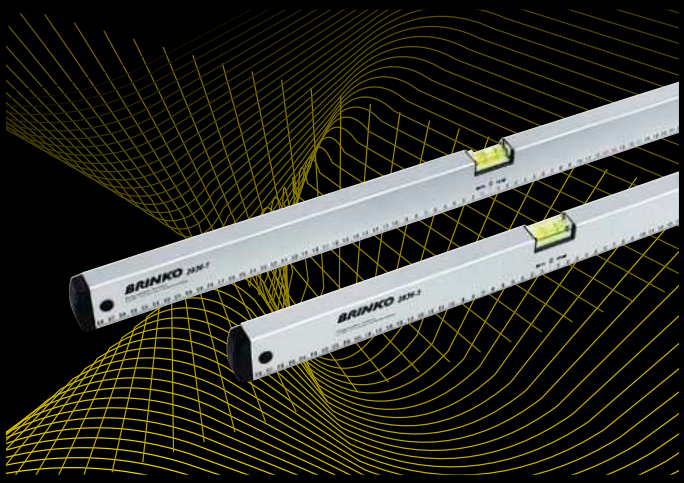
In this HAUPA general catalogue you will find our complete product portfolio for electrical and sanitary technology. We are convinced that our products will convince you and hope you enjoy browsing through the catalogue.

Jens-Ole Paas and the entire
HAUPA team

Sustainability

We recognise that our products, activities and decisions have a direct and indirect impact on social structures, the economy and the environment. We understand sustainability as the pursuit of a balance between economic goals, social responsibility and an ecological equilibrium. Our aim is to produce high-quality tools, cable connection and crimping technology for the electrical and sanitary trades as well as for industry, while ensuring a future worth living for present and future generations.

Content BRINKO



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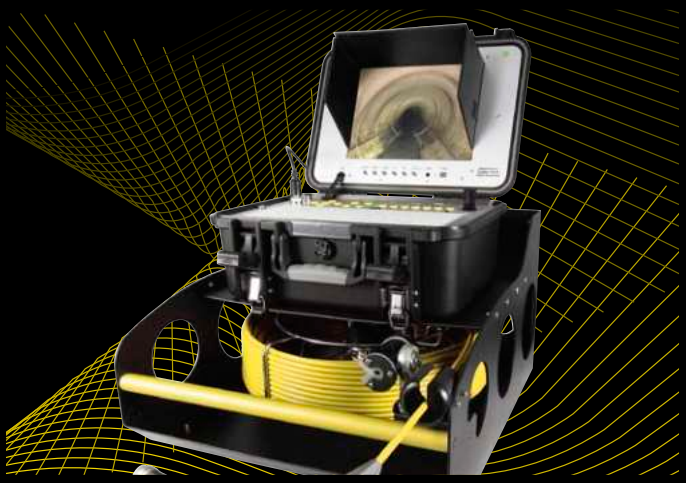

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Pliers

BRINKO®
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Pipe Pliers

Pipe pliers 90°

- Chrome vanadium steel, forged
- finger pinch protection

Art. no.	⟷	⌀	⌀"	kg	PU
618/1	310	0 - 49	1	0,771	1
618/11/2	425	0 - 65	1 1/2	1,320	1
618/2	540	0 - 84	2	2,600	1
618/3	685	0 - 120	3	4,100	1
618/4	815	0 - 135	4	5,650	1

Corner pipe pliers

- Chrome vanadium steel, forged
- special hardened teeth
- S-opening, polished
- finger pinch protection

Art. no.	⟷	⌀	⌀"	kg	PU
619/1/2	245	0 - 39	1/2	0,442	1
619/1 ✸	320	0 - 49	1	0,828	1
619/11/2 ✸	440	0 - 68	1 1/2	1,440	1
619/2	560	0 - 85	2	2,384	1
619/3	675	0 - 120	3	2,700	1

Pipe pliers set

Consisting of:
1 corner pipe pliers 1“ Art. no. 619/1
1 corner pipe pliers 1 1/2“ Art. no. 619/11/2
1 water pump pliers 240 mm Art. no. 685/240

- corner pipe pliers with S-opening and finger pinch protection
- special hardened teeth

Art. no.	set	kg	PU
9001	3	2,581	1

Chain pipe wrench

- Chrome vanadium steel, bright nickel-plated
- length 320 mm
- pipes 3/4 – 4“
- replacement chain Art. no. 623-1

Art. no.	⟷	⌀	⌀"	kg	PU
623/3/4-4	320	30 - 100	4	0,940	1

Replacement chain

- suitable for chain pipe wrench Art. no. 623

Art. no.	⟷	⌀	⌀"	kg	PU
623-1/3/4-4	320	30 - 100	4	0,359	1

Water Pump Pliers

Water pump pliers

- Chrome vanadium steel
- heavy-duty design
- high quality hardened and tempered
- Induction hardened gripping teeth
- with box joint
- Finger pinch protection
- jaws and joint bright ground
- Hammer finish, yellow lacquered

Art. no.	⟷	⌀	⌀	⌀"	kg	PU
685/175	175	32	33	1 2/7	0,140	1
685/240	240	39	40	1 4/7	0,353	1
685/300	300	52	53	2	0,481	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Water Pump Pliers

Water pump pliers

- Chrome-Vanadium-Steel, chrome-plated
- Grip surfaces are hardened inductively
- INOX pushbutton and spring
- Self-clamping to tubes and nuts
- With finger clamp protection.
- Anti-slip handles, soft dip-insulated, yellow
- With pushbutton single-and adjustment
- 27-level fine adjustment

Art. no.	⟷	⬡	○	○"	kg	PU
687/150	150	30	32	1 1/4	0,135	1
687/180 ✸	180	36	36	1 1/2	0,188	1
687/250 ✸	250	46	50	2	0,330	1
687/300 ✸	300	60	70	2 3/4	0,555	1

Water pump pliers | automatic

- Chrome vanadium steel
- special hardened teeth
- burner hole
- nose brightly polished
- plastic-coated handles, yellow
- automatic jaw width adjustment bysimply sliping handles together, without snap adjustment
- with finger pinch protection
- patented technology

Art. no.	⟷	⬡	○	○"	kg	PU
682/250	250	42	46	11/2	0,461	1

Water pump pliers BRIpowerXL

The BRINKO pipe wrench BRIpowerXL with slip joint for larger pipe diameters and large-edged screw connections fits in every tool case despite its large diameter.

The maximum lever arm greatly facilitates work thanks to the optimum force transmission. The setting is made using an INOX pushbutton directly on the workpiece, and is extremely easy compared to a pipe wrench. The BRIpowerXL has a hand-friendly grip position with finger pinch protection and double dip-insulated handles for fatigue-free and hand-friendly working.

- Chrome-Vanadium-Steel, chrome-plated
- Grip surfaces are hardened inductively
- INOX pushbutton and spring
- Self-clamping to tubes and nuts
- With finger clamp protection.
- Anti-slip handles, soft dip-insulated, yellow
- With pushbutton single-and adjustment
- 27-level fine adjustment

Art. no.	⟷	⬡	○	○"	kg	PU
687/400	400	100	104	3 1/2	0,750	1

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Amartur pliers | Chrome wrench

Fittings pliers | Key pliers

- Chrome vanadium steel, matt chrome-plated (no rusting)
- with push-button one-hand adjustment
- with finger pinch protection, one parallel gripping and one movable jaw
- Smooth, polished gripping surfaces, induction hardened
- Non-slip handles, soft, double dip-insulated, yellow
- reduced weight
- 10-fold hand force
- replaces open-end spanner set

Art. no.	↔	⬡	⬡"	kg	PU
689/180	180	36	1	0,200	1
689/240	240	50	2	0,375	1
689/300	300	68	2 1/2	0,760	1

Instrument key

- Chrome vanadium steel
- Inner roller
- Brass protective jaws
- Length 300 mm
- Clamping width 80 mm

Art. no.	↔	⬡	kg	PU
22-1/300	300	80	0,867	1

Instrument key

- Chrome vanadium steel
- inner roller
- protective jaws made of plastic
- length 300 mm
- span with 80 mm

Art. no.	↔	⬡	kg	PU
27/300	300	80	0,832	1

More Pliers

Folding pliers

- forged steel
- straight shape
- length 260 mm
- jaw with 60 mm

Art. no.	↔	Width	kg	PU
1608/60	260	60	0,575	1

Folding pliers

- forged steel
- 45° angled shape
- length 260 mm
- jaw with 60 mm

Art. no.	↔	Width	kg	PU
1609/60	260	60	0,600	1

Folding pliers

- forged steel
- 90° angled shape
- length 260 mm
- jaw with 60 mm

Art. no.	↔	Width	kg	PU
1609-1/60	260	60	0,602	1

Gutter brackets bending pliers

- with feed roller
- also suitable for plastic-coated gutter brackets
- length 620 mm
- bends up to 40 x 6 mm

Art. no.	↔	kg	PU
1616/620	620	3,200	1

Siphon pliers

- chrome-plated, plastic covered handles
- 4 adjustment options
- length 240 mm
- span with 80 mm

Art. no.	↔	⬡	kg	PU
663	240	80	0,280	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✱ Bestseller Premium product

More Pliers

Blind riveting pliers

- for rivets Ø 2.4 – 5.0 mm
- length 200 mm

Art. no.	↔	max. Ø	kg	PU
522	200	5	0,625	1

Schaffner control pliers

- polished, nickel-plated
- 3 mm round mandrel
- jaw depth of perforation Ø 30 mm

Art. no.	↔	Ø	kg	PU
543/120	120	3	0,173	1

Lead pipe sizing pliers

- made of sheet steel
- length 240 mm
- pipes Ø 1 1/2“

Art. no.	↔	max. Ø	kg	PU
696/240	240	40	0,434	1

Strap wrench

- fits on all round or angular shapes
- clamping range Ø 170 mm
- strap with 20 mm
- solves space problems, easy to use
- suitable for many commercial purposes

Art. no.	Bandwidth	Ø	kg	PU
660	20	170	0,239	1

Screwing Tools

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Screwdriver

Screwdriver set

- 6 pieces:
  4 slot-head screwdrivers 80 x 3, 100 x 4, 125 x 5.5, 150 x 6.5 mm
  2 cross-head screwdrivers PZ 1, PZ 2
- chrome vanadium steel
- matt chrome-plated blades
- 2-component handle with a hole

Roll repressive

Art. no.	set	kg	PU
2122 ✷	6	0,430	1

Workshop screwdriver

- Chrome vanadium steel
- matt chrome-plated blade
- 2-component handle with a hole

Roll repressive

Art. no.	BL	BL	kg	PU
2070/125	125	6	0,087	1
2070/150	150	8	0,120	1

Screwdriver

- Chrome vanadium steel
- matt chrome-plated blade
- 2-component handle with a hole

Roll repressive

Art. no.	BL	BL	kg	PU
2066/80	80	3	0,022	1
2066/100	100	3,5	0,026	1

Screwdriver | PZ

- Chrome vanadium steel
- matt chrome-plated blade
- 2-component handle with a hole

Roll repressive

Art. no.	BL	size	kg	PU
2080/1	80	1	0,049	1
2080/2	100	2	0,081	1

Screwdriver | PH

- Chrome vanadium steel
- matt chrome-plated blade
- 2-component handle with a hole

Roll repressive

Art. no.	BL	size	kg	PU
2080-1/1	80	1	0,048	1
2080-1/2	100	2	0,076	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

Screwdriver set 1000 V

- 7 pieces, 1000 V:
  4 slot-head screwdrivers 1000 V
  75 x 2.5, 100 x 4, 125 x 5.5, 150 x 6.5 mm
  2 cross-head screwdrivers 1000 V PZ 1, PZ 2
  1 safety voltage tester 150 - 250 Volt (GS-certified)
- chrome vanadium steel
- matt chrome-plated blades with protective insulation
- 2-component hand with a hole
- individually tested to IEC 60900

1000 V IEC 60900

Roll repressive

Art. no.	set	kg	PU
2126/7 ✷	7	0,514	1

Voltage tester set

- blade Chrome vanadium steel
- for 120 – 250 Volt, with clip
- set 145 mm long
- slot width 4 mm

Art. no.	⟷	BL	set	kg	PU
2088-1/145	145	4	12	0,216	1

Safety voltage tester

- blade Chrome vanadium steel
- for 120 – 250 Volt, with clip
- total length 145 mm
- slot with 4 mm

Art. no.	⟷	BL	kg	PU
2088/145	145	4	0,016	1

Screwdriver set with striking cap

- 2C power screwdriver with full-length blade and impact cap
- Hexagonal shank for spanner socket
- 6-piece set:
  4 flat-blade screwdrivers made from CV steel
  75 x 3.5 mm AF 8 | 90 x 4.5 mm AF 8 | 100 x 5.5 mm AF 8 |
  125 x 6.5 mm AF 10
- 2 screwdrivers Phillips head made of MoV steel PH1 SW 8 - PH2 SW 10
- also for light chiselling work

Roll repressive

Art. no.	set	kg	PU
2128	6	0,887	1

Screwdriver

TX-Screwdriver-Set

6 pieces:
Torx screwdrivers with a centre hole
STX 10, 15, 20, 25, 30, 40

- chrome vanadium steel
- matt chrome-plated blades
- black tips
- ergonomic octagonal curved 2-component handles with a hole

Art. no.	set	kg	PU
2036 ✷	6	0,530	1

Claw-typee gripper magnetic

Everything is under control!
- flexible claw-type gripper, length 60 cm
- ideal for gripping screws, nuts etc. that are difficult to reach
- the claw, with ‚spring-action-system', can be opened up to 23 mm
- the additional magnet lifts metal parts up to 400 g
- the integrated LED allows to find dropped small-parts even in dark corners

Art. no.	↔	kg	PU
1830	600	0,123	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

Bit tools

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Bit holder

- Chrome vanadium steel
- matt chrome-plated blade, length 350 mm
- ergonomic, octagonal curved 2 component handle with a hole
- with magnet and circlip
- suitable for all bit inserts 1/4“

Art. no.		kg	PU
2142	350	0,172	1

Bit holder

- Chrome vanadium steel
- matt chrome-plated blade, length 100 mm
- ergonomic, octagonal curved 2 component handle with a hole
- with magnet and circlip
- suitable for all bit inserts 1/4“

Art. no.		kg	PU
2142-1	100	0,106	1

Wheel ratchet for bits

Easy to handle in tight spaces
- Wheel for bits
- incl. magnet
- supplied with extension

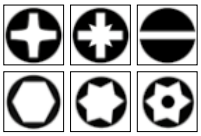
(Bits are not included)

Art. no.	Ø	width/height	kg	PU
2139	40	20	0,072	1

Bit set | 32 pieces | colour-coded

- Supplied in a plastic box with a belt clip
- S2 steel, chrome-plated with colour-coding
- 32 pieces:

1 bit holder with quick release
1 adaptor for 1/4“
30 bits



Content	Colour	Sizes
cross slot Philips		PH Gr. 1, 2, 2, 3
cross slot Pozidriv		PZ Gr. 1, 2, 2, 3
slot		3, 4, 5, 6 mm
allen key		3, 4, 5, 6 mm
Tx		Tx 10, 15, 20, 25, 27, 30, 40
Security Tx		STx 10, 15, 20, 25, 27, 30, 40

Art. no.	set	kg	PU
2145	32	0,250	1

Wrenches, Keys and Inserts

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Ratchet wrench 4 in 1

4 in 1
The ratchet wrench handles 4 different nut sizes

- Chrome-vanadium; chrome-molybdenum steel, bright chrome-plated
- Sizes: 10 x 13 mm and 17 x 19 mm
- finely toothed 72 teeth of the 2 ratchets – ratchets can be switched to clockwise/counterclockwise operation
- due to 12-slided toothing, the wrench easily grips 4, 6 and 12-sided screws as well as almost round nuts
- extremely robust

10 x 13 mm | **17 x 19 mm**

Art. no.	↔	span width	span width	kg	PU
83 ✸	200	10	19	0,355	1

Open-end wrench

- Chrome vanadium steel, chrome-plated
- long, slimline shape
- very high strength
- tight tolerances

Art. no.	span width	span width	kg	PU
56/6X7	6	7	0,020	1
56/8x9	8	9	0,096	1
56/10x11	10	11	0,133	1
56/10x13 ✸	10	13	0,053	1
56/12x13	12	13	0,194	1
56/14x15	14	15	0,111	1
56/14x17	14	17	0,114	1
56/16x17	16	17	0,112	1
56/17x19 ✸	17	19	0,168	1
56/18x19	18	19	0,147	1
56/20x22	20	22	0,215	1
56/21x23	21	23	0,230	1
56/22x24	22	24	0,241	1
56/24x27 ✸	24	27	0,302	1
56/25x28	25	28	0,400	1
56/30x32	30	32	0,460	1
56/36x41	36	41	1,014	1
56/41x46	41	46	1,625	1
56/46x50	46	50	1,570	1

Combination wrench

- Chrome vanadium steel, chrome-plated
- long, slimline shape
- very high strength
- tight tolerances
- ring end at 15° angle
- other sizes on request

Art. no.	span width	kg	PU
64/10 ✸	10	0,043	1
64/13 ✸	13	0,790	1
64/17 ✸	17	0,163	1
64/19	19	0,208	1
64/24	24	0,350	1

Open-end wrench set

- Chrome vanadium steel, chrome-plated
- long, slimline shape
- very high strength
- tight tolerances

Art. no.	set	SW	kg	PU
58-1/8	8	6 - 22	0,797	1
58-1/10 ✸	10	6 - 27	1,363	1
58-1/12	12	6 - 32	2,300	1

Combination wrench set

- Chrome vanadium steel, chrome-plated
- long, slimline shape
- very high strength
- tight tolerances
- ring end at 15° angle

Art. no.	set	SW	kg	PU
66-1/8	7	6 - 19	0,603	1
66-1/10 ✸	10	8 - 22	0,888	1

Twelve-point ring wrench set

- Chrome vanadium steel, chrome-plated
- width across flats 6 x 7 – 24 x 27 mm
- long, slimline shape
- very high strength
- tight tolerances
- at 75° angle

Art. no.	set	SW	kg	PU
81-1/10	10	6 - 27	2,196	1

PU Packing unit
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✸ Bestseller Premium product

Adjustable wrench

- special steel, chrome-plated
- head polished chrome-plated
- opening 22° angled
- adjustable

Art. no.	↔	⬡	° Degree	kg	PU
49/250	250	30	22	0,425	1
49/310	310	36	22	0,673	1

Socket wrench set BRImultiLock | 8 pieces

1/2" 1/4"

Troubleshooter!
BRINKO BRImultiLock for damaged hexagon head screws and many other profiles

- 1/2“ reversible ratchet with internal and external hexagon
- 12-tooth profile, 1/2“ and 1/4“ drive
- long sockets, sockets,
- 32 bit inserts and other accessories

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3124; ISO 2725 | Finishing: Silver mat finished | Profile: BRImultiLock - Best solution for varity bolts | Torsion: 30-50% (depends on size) higher than DIN | Life-Time: 200k circle times at 35% of DIN | square drive

Content:
- Plumber Ratchets 1/4“, 1/2“
- Universal joint 1/4“, 1/2“
- Spinner Handle incl. adapter 1/4“, 150 mm
- Sliding T Bar 1/4“, 150 mm
- Extension Bar 1/4“, 50 - 100 mm
- Extension Bar 1/2“, 125 - 250 mm
- Plug Sockets 1/2“, 16 - 21 mm
- Bit Adapter 1/2“ - 5/16“
- BRImultiLock Socket 1/2“ SW 10 - 12 - 13 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
- Deep Socket 1/2“ SW 14 - 15 - 17 - 19 mm
- BRImultiLock Socket 1/4“ SW 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
- Deep Socket 1/4“ SW 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
- Bits, slot 1/4“ 4 - 5.5 - 6.5 mm
- Bits, cross slot 1/4“ PH 1, 2 | PZ 1, 2
- Bits, allen key 1/4“ 3 - 4 - 5 - 6 mm
- Bits, Tx 1/4“ Tx 8 - 10 - 15 - 20 - 25 - 30
- Bit Adapter 1/4 - 5/16“
- Bits, slot 5/16“ 8 - 10 - 12 mm
- Bits, cross slot 5/16“ PH 3, 4 | PZ 3, 4
- Bits, allen key 5/16“ 8 - 10 - 12 - 14 mm
- Bits, Tx 5/16“ Tx 40 - 45 - 50 - 55

Art. no.	set	kg	PU
127-1	86	6,100	1

Socket wrench set BRImultiLock | 57 pieces

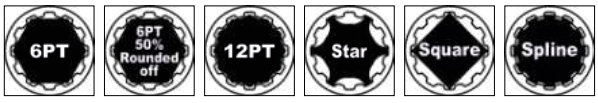
1/4"

Troubleshooter!
BRINKO BRImultiLock for damaged hexagon head screws and many other profiles

- 27 Bit-Einsätze und weiteres Zubehör
- Supplied in a plastic case, 55 pieces
- twelve-tooth profile, 1/4“ drive

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3124; ISO 2725 | Finishing: Silver mat finished | Profile: BRImultiLock - Best solution for varity bolts | Torsion: 30-50% (depends on size) higher than DIN | Life-Time: 200k circle times at 35% of DIN | square drive

Content:
- Plumber Ratchets 1/4“
- Universal joint 1/4“
- Sliding T Bar 1/4“
- Spinner Handle incl. adapter 1/4“, 150 mm
- Hex keys 1,5 - 2,0 - 2,5
- Extension Bar 1/4“, 50 - 100 mm
- BRImultiLock Socket 1/4“ SW 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
- Deep Socket 1/4“ SW 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
- Socket Tx-E 1/4“ E 4 - 5 - 6 - 7 - 8
- Bits, cross slot 1/4“ PH 1, 2, 3 | PZ 1, 2, 3
- Bits, slot 1/4“ 4 - 5.5 - 7 mm
- Bits, allen key 1/4“ 3 - 4 - 5 - 6 - 7 mm
- Bits, Tx 1/4“ Tx 8 - 10 - 15 - 20 - 25 - 27 - 30 - 40



Art. no.	set	kg	PU
122	57	1,500	1

Reversible ratchet Plumbing

1/2"

- 1/2“ drive
- with square socket and square drive bit

Material: Chrome-vanadium; chrome-molybdenum steel | Industrial quality | Standards: DIN 3122; ISO 3315 | Surface: silver, matt | Torsion: 30 % above DIN specification | Service life: 20,000 actuations

Art. no.	↔	kg	PU
129-3/250	250	0,486	1

Reversible ratchet

1/4"

- Chrome vanadium steel, chrome-plated
- 1/4“ drive
- with connecting square
- length 110 mm

Material: chrome vanadium; chrome molybdenum steel | industrial quality | standards: DIN 3122; ISO 3315 | finish: silver, matt | torsion: 30 % above DIN specification | service life: 20,000 operations

Art. no.	↔	kg	PU
123-1/110	110	0,140	1

Universal screw insert

1/2"

- Chrome vanadium steel, chrome-plated
- 1/2“ drive, size 22 mm
- the steel pins automatically adjust to every shape from Ø 9 – 21 mm
- also suitable for rounded or damaged shapes
- Caution: not suitable for impact wrenches!

Art. no.	span width	kg	PU
128	22	0,174	1

BRImultiLock insert

1/2"

- MultiLock, 1/2“ drive
- also for loosening rounded and damaged Hex-Bolts

PREMIUM

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3124; ISO
2725 | Finishing: Silver mat finished | Profile: BRImultiLock - Best solution for varity bolts | Torsion: 30-50% (depends on size) higher than DIN | Life-Time: 200k circle times at 35% of DIN | square drive

Art. no.	span width	kg	PU
129-12/10	10	0,049	1
129-12/11	11	0,058	1
129-12/13	13	0,054	1
129-12/14	14	0,063	1
129-12/17	17	0,063	1
129-12/19	19	0,068	1
129-12/22	22	0,085	1
129-12/24	24	0,104	1
129-12/26	26	0,116	1
129-12/29	29	0,167	1
129-12/32	32	0,215	1

Reversible ratchet

1/2"

- Chrome vanadium steel, chrome-plated
- with 1/2“ square drive, inside
- length 265 mm
- WITHOUT connecting square

Art. no.	↔	kg	PU
672/265	265	0,525	1

Hexagonal insert

1/4"

- hexagonal inserts
- 1/4“ drive

Art. no.	span width	kg	PU
123-7/6	6	0,011	1
123-7/8	8	0,012	1
123-7/10	10	0,014	1
123-7/13	13	0,024	1

BRINKO®
powered by haupa

Socket Wrenches & Sets

Hexagonal insert XL

1/2"

- Chrome vanadium steel, chrome-plated
- 1/2“ drive
- key width 13 mm
- total length 75 mm
- extra long design for problem-free assembly of inside wall installation rails

Art. no.	⟷	span width	kg	PU
129-13/13	75	13	0,110	1

Allen insert

1/2"

- Chrome vanadium steel, chrome-plated
- allen key 6 mm
- 1/2“ drive

Art. no.	span width	kg	PU
129-14/6	6	0,065	1

Adaptor

3/4" 1/2"

- Chrome vanadium steel, chrome-plated
- square socket 3/4“
- square bit drive 1/2“

Art. no.	kg	PU
129-100	0,171	1

Extension | bendy

1/4"

- 1/4“ drive
- length 150 mm

Art. no.	⟷	kg	PU
127-2	150	0,068	1

Extension

1/2"

- Chrome vanadium steel, chrome-plated
- 1/2“ drive
- length 125 mm

Art. no.	⟷	kg	PU
129-7/125	125	0,192	1

Connecting square

1/2"

- Chrome vanadium steel, chrome-plated
- 1/2“
- for reversible ratchets

Art. no.	kg	PU
129-9/1/2	0,043	1

Socket wrench

- precision steel pipe (DIN 896B), drawn seamlessly, chrome-plated
- Other sizes available on request.

Art. no.	span width	span width	kg	PU
92/6x7	6	7	0,026	1
92/8x9	8	9	0,042	1
92/10x11	10	11	0,052	1
92/12x13	12	13	0,071	1
92/14x15	14	15	0,090	1
92/17x19	17	19	0,155	1
92/19x22	19	22	0,248	1
92/20x22	20	22	0,248	1
92/22x24	22	24	0,276	1
92/24x27	24	27	0,296	1
92/30x32	30	32	0,416	1
92/32x36	32	36	0,539	1

Socket wrench set

- 6 pieces: 10 x 11, 12 x 13, 14 x 15, 17 x 19, 19 x 22, 24 x 27 mm
- seamlessly drawn precision steel pipe (DIN 896 B) chrome-plated

Art. no.	set	kg	PU
92-1	6	0,912	1

Socket wrench

- Precision hexagonal steel pipe, chrome-plated
- Other sizes available on request.

Art. no.	span width	kg	PU
94/10	10	0,110	1
94/13	13	0,130	1
94/17	17	0,180	1
94/19	19	0,200	1
94/22	22	0,260	1
94/36	36	0,370	1

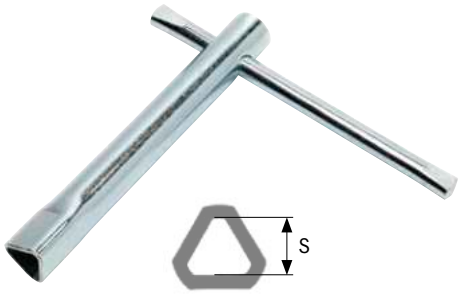
Hexagon socket wrench

- for installing mixers and taps on washbasins, as well as for door opening at elevators
- with movable T-handle, promat galvanised

Art. no.	↔	span width	kg	PU
90/9	400	9	0,224	1
90/10	400	10	0,224	1
90/11	400	11	0,250	1
90/12	400	12	0,250	1
90/13	400	13	0,250	1

Triangular socket wrench

- for explosion-endangered lighting systems, junction boxes as well as for door opening at elevators
- precision steel pipe, brightnickel-plated (DIN 22417)
- with movable T-handle



Art. no.	↔	Size	S	kg	PU
104/3	90	M3	5,7	0,025	1
104/4	90	M4	7,4	0,028	1
104/5	100	M5	9,0	0,030	1
104/6	112	M6	10,6	0,060	1
104/8	125	M8	12,7	0,080	1
104/10	140	M10	15,5	0,110	1

Torque wrench

- automatic with advance setting
- reversible ratchet with 1/4“ drive
- 3 inserts: 6, 8, 10 mm
- the main scale (engraving) is on the wrench
- the values increase in steps of 2 Nm each from 6 – 30 Nm
- the ring scale for fine settings is located on the rotating handle
- the lines for the in-between values each correspond to 0.2 Nm

Art. no.	↔	Nm	kg	PU
129-30	300	6 - 30	0,935	1

Hex key

Hexagon spanner set Hex

- 9 pieces: Tx 10, 15, 20, 25, 27, 30, 40, 45, 50
- chrome vanadium steel, bright nickel-plated
- long design, even easy to reach greatly recessed screws
- unfolding plastic holder allows free access

Art. no.	set	Size	kg	PU
110	9	10 - 50	0,417	1

Hexagon spanner set Hex

- 9 pieces: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm
- Chrome vanadium steel, bright nickel-plated
- long design
- hex/ball-end combined
- the ball-end allows you to screw up to a 30° angle
- unfolding plastic holder allows free access

Art. no.	set	Size	kg	PU
114	9	1,5 - 10	0,420	1

Hexagon spanner set Hex

- 9 pieces: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm
- Chrome vanadium steel, bright nickel-plated
- hex head/ball-end combined
- the ball-end allows you to drive a screw at up to a 30° angle
- in a strong plastic holder
- practical removable handle to work comfortably - as T- or angled handle or screwdriver

Art. no.	set	kg	PU
115/2	10	0,511	1

Tap extension wrench

- Chrome vanadium steel, bright-nickel-plated
- socket wrench for tap extensions and pipe plugs

Art. no.	WS	kg	PU
109/1	3/8 x 3/4" | 3/8"	0,219	1
109/2	1/2 x 3/4" | 3/8'"	0,252	1
109/3	1/2 x 11/2" | 3/8"	0,255	1

Hexagon spanner set Hex

- Chrome vanadium steel, bright nickel-plated

Art. no.	span width	kg	PU
112/1,5	1,5	0,090	1
112/2	2	0,100	1
112/2,5	2,5	0,003	1
112/3	3	0,005	1
112/4	4	0,010	1
112/5	5	0,016	1
112/6	6	0,028	1
112/7	7	0,035	1
112/8	8	0,050	1
112/9	9	0,075	1
112/10	10	0,120	1
112/11	11	0,130	1
112/12	12	0,150	1
112/13	13	2,523	1
112/14	14	0,283	1
112/15	15	0,340	1
112/17	17	0,466	1
112/19	19	0,660	1
112/22	22	0,950	1
112/24	24	1,200	1

Switch cabinet key

Made of metal for all popular types of switch cabinet

- with adaptor for 1/4“ bit, hexagonal drive
- with reversible bit: length 39 mm, slot 1.0 x 7 mm, cross PH 2
- square 7 - 8 mm
- square 6 mm
- triangular 7 - 8 mm
- two-way key bit 3 - 5 mm

Art. no.	kg	PU
119	0,085	1

Special Tools

BRINKO®
powered by haupa®

Handwheel socket BRIwheelNut

A special tool with bars that engage in the opening of almost all handwheels and that can be driven with a ½“ ratchet!
Now even the most stubborn barriers are solved with ease!

A problem that every craftsman in the plumbing and heating industry knows!

In the field of domestic water or heating supply, a component must be replaced. In order to facilitate this, shut-off devices such as valves or slide valves were installed in front of replaceable components during construction.
Now such a component as a water meter or a pump has to be replaced.
The valves or gates in front of and behind these components have not been moved for a long time and are therefore so tight that the force of the hand is not sufficient to move the valve or gate, let alone shut off the pipe tightly.
In order to achieve this, pliers, levers and obscure constructions are used. In most cases, this approach leads to the breakage of the cast iron handwheel, to bending or even to the tearing off of the spindle, since the rotational force is applied laterally.
The company BRINKO has addressed this nuisance and developed the handwheel socket BRIwheelNut.
The special tool, which is protected with a design pattern, consists of a basic body with protruding webs that engage in the openings of almost all handwheels and that can be driven with a ½“ ratchet.
Due to the force applied centrally from above and the distribution of the pressure points over several surfaces, a non-destructive actuation of valves and slides is made possible.
The time saved and the avoided hassle of removing a destroyed valve with complete shut-off of the water supply or running a heating system empty with subsequent venting of all radiators makes the „BRIwheelNut“ an indispensable and cost-saving helper.

Art. no.	⟷	kg	PU
129-50	34	0,150	1

PREMIUM bathroom installation set | 17 pieces

17-piece, contents:
- Combination corner valve spanner
- Double hole punch 32mm + 35mm
- Duo valve holder
- Tap extension cutter with chip catcher
- Combination tap spanner 13 mm with 4 inserts 9, 10, 11, 12 mm and 1 claw
- WC seat & sanitary installation spanner BRImultiKey 19 in 1
- S-connection installation tool
- Stick screwdriver Ø 10 mm
- Reversible ratchet, 1/2’ drive, with internal and external square drive
- Deep hole marker, 2 in 1, black, with sharpener
- Plumbing installation spanner
- Step spanner for radiators and water, 6 steps

Art. no.	set	kg	PU
677-2	17	3,400	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Bath installation set deluxe | 16 pieces

1/2"

16 pieces, Content:
- S-bend connector assembly tool
- Corner valve screwing aid
- Universal screw bit up to 21 mm
- Valve holder for eccentric and standard valves
- Toilet seat assembly wrench
- Ratchet wrench, 4 in 1
- Combination basin cock wrench 13 mm with 5 bits 9, 10, 11, 12, 14 mm and 1 claw
- Deep hole marker for all surfaces
- Reversible ratchet, 1/2“, CV steel, with internal and external square drive bit
- Hanger bolt screwdriver Ø 10 mm

Art. no.	set	kg	PU
677-1 ✷	16	2,350	1

Bath installation set basic | 6 pieces

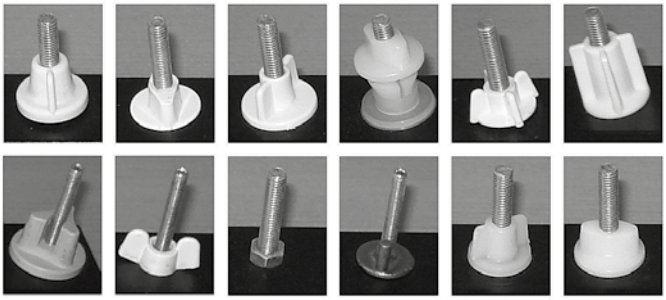
1/2"

Supplied in a strong case, 6 pieces:
- S-bend connector assembly tool, square socket for 1/2“ drive
- angle valve screw-in aid, square socket for 1/2“ drive
- universal screw insert, 1/2“ drive
- valve holder for rotary control and standard valves
- open-end wrench 17 x 19 mm
- reversible ratchet, square socket and square drive bit, 1/2“ drive

Art. no.	set	kg	PU
677 ✷	6	1,842	1

WC seat installation wrench

- simple to install and remove WC seats
- universal bung wrench with more than 19 possible applictions suitable for virtually all fastening systems
- thanks to cardan joint, optimal leverage
- no annoying retightening required



Art. no.	kg	PU
661 ✷	0,061	1

BRINKO® powered by haupa®

Toilet seat & sanitary installation wrench BRImultiKey 19 in 1

The BRINKO Toilet seat & sanitary installation wrench BRImultiKey 19 in 1 is a multi-talent for the different screw connections on toilet seats, and adapters on water taps and fittings (Perlators/aerators).
You practically do not need any other tools because this universal wrench combines almost everything in one tool.

- Up to 19 adapter options
- Application with larger torques on very tight or rusted nuts, wing nuts, perlators or aerators
- Attractive form, comfortable and pleasant handles
- Reversible inserts (red) as a 'click system' for various sanitary attachments
- Adapter options for 17 mm open-end wrench
- Inner adapter for wrench handle for a 1/2 inch ratchet wrench extension
- universal wrench made of very durable and tough plastic PA6 (polyamide) and 30 % glass-fibres

WITHOUT an adapter:
Up to 11 different wing nuts of the toilet seat can be opened or screwed on.
WITH adapter:
Open and/or screw on 10 mm nuts (M6 threaded rods) or 13 mm nuts (M8 threaded rods).

Art. no.	⟷	kg	PU
662	200	0,100	1

Combination washbasin tap wrench

- Suitable for all fittings up to 13 mm threaded rod and SW 32 mm
- 4 inserts 9, 10, 11, 12 and shank 13 mm
- reversible claw with spring
- Knurled handle
- Size 8 and 14 mm on request Art. No. 655-1/8 and 655-1/14

Art. no.	set	kg	PU
655 ✸	6	0,525	1

Washbasin tap wrench insert

- insert for Combination washbasin tap wrench Art. no. 645

Art. no.	span width	kg	PU
655-1/8	8	0,010	1
655-1/9	9	0,011	1
655-1/10	10	0,011	1
655-1/11	11	0,016	1
655-1/12	12	0,016	1
655-1/14	14	0,018	1
655-1/32	Claw	0,151	1

Washbasin tap wrench

- for fixing nuts up to size 32 mm
- chrome vanadium steel forged
- slim shape, length 235 mm
- switchable claw with spring
- knurled handle

Art. no.	⟷	SW	kg	PU
665/235	235	8 - 32	0,498	1

S-connection assembly set

1/2"

Consisting of:
- 1 reversible ratchet, CV steel, with 1/2" drive, with connecting square
- 1 S-connection assembly tool

Art. no.	set	kg	PU
676-1 ✸	2	0,877	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

S-connection assembly tool

1/2"

- inserting and removing tool
- turns to left and right
- wear-resistant rollers
- square socket for 1/2“ drive + SW 36
- for all common S-connectors with 3/4“ thread

Art. no.	kg	PU
676	0,260	1

Angle valve screw-in aid

1/2"

- to screw angle vales in and out without causing any damage
- also suitable for places which are difficult to access
- inside diameter 32 mm
- square socket for 1/2“ drive

Art. no.	kg	PU
659	0,230	1

Combination angle valve key

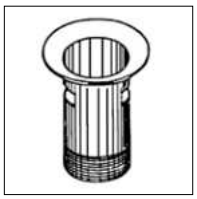
1/2"

The right tool, especially in tight spaces.
For damage-free installation of combination angle valves, which, in addition to connecting a mixer tap, also have an outlet for items like a dishwasher or washing machine.
The angled combination valve spanner is the right tool, especially when space is limited in tight spaces.
in confined spaces.
Commercially available 1/2’ ratchets are used for actuation.

Art. no.	kg	PU
659-1	0,237	1

Valve holder

- to lock eccentric and standard valves in place.
- with a flexible T-handle
- length 120 mm



Art. no.	↔	kg	PU
725 ✷	120	0,196	1

Duo valve holder

1/2"

Chrome-plated drain fittings installed in sinks tend to get scratched during installation, leading to customer frustration.
To prevent this, there‘s the Automatic Duo Valve Holder. The Duo valve holder is inserted from the top into the drain valve and locks into place. Now, holding it during installation is no longer a problem, and there‘s no risk of slipping that could damage the chrome plating.

- For drain fittings in sizes 1“ and 1 1/4“
- For use with a 1/2“ drive.“

Art. no.	↔	kg	PU
726	134	0,195	1

HAUPA GmbH, Lange Str. 40, D-42857 Remscheid, Germany, Phone: +49 (0)2191 8418-0, Fax: +49 (0)2191 8418-840, E-mail: sales@haupa.com

Valve extension cutter with chip collection

- for trimming 1/2“ valve extensions made of red brass
- with SDS chuck adaptor
- rubber cap collects the milled chips

Art. no.	kg	PU
705/1/2	0,114	1

Assembly Connection Gauge

- the installation connection gauge is a measuring tool for the optimal alignment of standardized fittings, such as bathtub and shower batteries, corner and recessed valves, pipe connectors, and vents
- supplied in an impact-resistant plastic case:
- dimensional and spatial alignment of all common installation inside dimensions 1/2“ in bare brickwork
- easily readable circular bubble and with depth adjustment
- fixed adjustment increments: 75, 100, 120, 153, 200, 240 mm
- also fits for assembly rails 150 mm
- for bathtubs and shower mixers, corner and flush-mounted valves, pipe ventilators

Art. no.	kg	PU
2845	1,322	1

Tap reseating tool

- cylindrical shape with two compression springs
- flat milling cutter

size 1: 3/8 - 1/2 - 3/4“
size 2: 3/8“, 1/2“, 3/4“, 1“

Art. no.	size	kg	PU
714/1	1	0,330	1
714/2	2	0,360	1

Replacement milling cutters

- flat design
- suitable for tap reseating tools Art. no. 714, 715

Art. no.	Inch	kg	PU
718/3/8	3/8"	0,006	1
718/1/2	1/2"	0,010	1
718/3/4		0,021	1
718/1		0,030	1

Tap reseating tool

- supplied in a metal case:
  1 tap reseating tool, cylindrical shape, with two compressed springs
- flat milling cutter: 3/8“, 1/2“, 3/4“, 1“

Art. no.	set	kg	PU
715/2	6	0,897	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Plumbing Wrenches

Plumbing installation wrench | Washbasin spanner

- for attaching washbasins and angle valves
- forged chrome vanadium steel, promat galvanised
- length 215 mm
- key width 17 x 19 mm
- holding thread M10

Art. no.	⟷	SW	kg	PU
105/10 ✷	215	17 - 19	0,242	1

Plumbing four-way socket wrench

- DBGM for sanitary installations
- chrome vanadium steel, bright chrome-plated
- for valve extensions up to 100 mm: 3/8“, 1/2“, 3/4“, 1“
- internal thread for hanger bolts: M8, M10 (with counter thread), M12
- hexagon: size 10, 12 and size 17, 22 with double groove
- square socket for pipe plugs: 3/8“ and 1/2“

Art. no.	SW	kg	PU
106	10 - 22	0,569	1

Plumbing four-way socket wrench

- especially for sanitary installations
- chrome vanadium steel, bright chrome-plated
- for valve extensions up to 80 mm, 3/8“, 1/2“, 3/4“, 1“
- internal thread for hanger bolts M8, M10, M12
- hexagon for pipe plugs size 10, 12, 17, 22 mm

Art. no.	SW	kg	PU
106-2	10 - 22	0,523	1

Hanger bolt socket

Hanger bolt nut

1/2"

- Hanger bolt nut Ø 10 mm
- universal attachment for all 1/2“ ratchet
- right and left turn
- for fast and effortless screwing and unscrewing of stay bolts, express and hanger bolts without damaging the thread
- with inside square

Art. no.	Ø	kg	PU
101/10	10	0,187	1

Hanger bolt driver

1/4"

Multidirectional hanger bolt driver

- Screw-in and screw-out tool hanger bolt driver Ø 8 mm and Ø 10 mm
- self-clamping when turned
- for fast and effortless screwing and unscrewing of stay bolts, express and hanger bolts without damaging the thread
- with hexagonal driver for power tools

Art. no.	Ø	kg	PU
102/8 ✷	8	0,112	1
102/10 ✷	10	0,111	1

Hanger bolt wrench

1/2"

- DBGM, bright chrome-plated
- with adjustable chuck
- for M6, M8, M10, M12 thread
- with 1/2“ square to drive and unlock

Art. no.	kg	PU
103	0,272	1

BRINKO®
powered by haupa

Step wrench

Step wrench set

1/2"

- 1 reversible ratchet Art. no. 672/265
- 1 step wrench, 105 mm Art. no. 673/105
  with 9 levels 8.0, 9.5, 9.8, 11.8, 12.8, 13.8, 16.8 21.5, 22.0
- supplied in DIY pouch

Art. no.	set	⟷	kg	PU
674 ✷	2	105	0,593	1

Step wrench set

1/2"

- 1 resetting ratchet Art. no. 672/265
- 1 step wrench, 86 mm Art. no. 673/86
  with 6 levels 9.5, 9.8, 11.8, 12.8, 13.8, 17.0
- supplied in DIY pouch

Art. no.	set	⟷	kg	PU
675 ✷	2	86	0,638	1

Step wrench for radiator

- Chrome vanadium steel, forged
- for radiator screw connections
- with square bit drive 18 mm
- length 170 mm
- 5 steps for valve nipples 3/8“ - 1/2“ - 3/4“ - 1“ - 1/1/4“

Art. no.	⟷	kg	PU
670/170	170	0,241	1

Turning tool

- square drive 18 mm
- length 240 mm
- suitable for step wrenches with square drive 18 mm

Art. no.	⟷	kg	PU
671/240	240	0,300	1

Step wrench for radiator and water

1/2"

- Chrome-vanadium steel, chrome-plated, with groove
- for radiator screw connections and short tap extensions
- with 1/2“ square drive
- 6 steps 9.5, 9.8, 11.8, 12.8, 13.8, 17.0

Art. no.	⟷	kg	PU
673/86 ✷	86	0,097	1

Step wrench for radiator and water

1/2"

- Chrome vanadium steel, chrome-plated, with slot
- for radiator screw connections and short valve extensions
- with 1/2“ square drive
- 9 steps 8.0, 9.5, 9.8, 11.8, 12.8, 13.8, 16,8 21.5, 22.0

Art. no.	⟷	kg	PU
673/105 ✷	105	0,134	1

Step wrench for gas

1/2"

- chrome-plated, with groove
- for gas tap connection fittings
- 4 stages 12.0, 13.0, 14.0, 15.0

Art. no.	⟷	kg	PU
673-1/1	86	0,138	1

Step wrench for gas

1/2"

- chrome-plated, with groove
- for gas tap connection fittings
- 3 stages 19.0, 22.0, 24.0

Art. no.	⟷	kg	PU
673-1/2	86	0,172	1

Step wrench for gas and water

1/2"

- chrome-plated, with groove
- combined use for tap extensions and gas tap connection fittings
- 5 steps 15.0, 17.0, 19.0, 22.0, 24.0

Art. no.	⟷	kg	PU
673-2/2	86	0,181	1

Step wrench

- with movable T-handle
- small design for valve nipples
- 2 steps for valve nipples 3/8‘, 1/2’ with groove

Art. no.	kg	PU
666/1	0,119	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

Step wrench

Step wrench

- with movable T-handle
- small design for valve nipples
- 3 stages for valve nipples 3/8“, 1/2“, 3/4“

Art. no.	kg	PU
666/2	0,195	1

Connection puller

Sleeve extractor set

1/2"

For the extraction of threaded pipe connections, sleeves and nipples
- Left-hand extractor
- CrV-steel, hardened
- Surface burnished
- Polished cutting surface

The service life of the extractors varies depending on the hardness of the counter material.
Knock the extractor into the drill hole and loosen the screw.

Content:
1 sleeve extractor 3/8“
1 sleeve extractor 1/2“ – 3/4“
1 hexagonal insert 1/2“, size 26
1 hexagonal insert 1/2“, size 19
1 reversible ratchet, inner and outer square drive bit, 1/2“ drive

Art. no.	set	kg	VE
1088 ✷	5	1,426	1

Sleeve extractor

For the extraction of threaded pipe connections, sleeves and nipples
The extractors are struck into the thread and the pipe or threaded connection is undone
- the extractor service life varies depending on the hardness of the counter material
- the tools are intended for single use when dealing with a mating material that displays a certain level of hardess
- Material: CrV-steel, hardened
- Surface: Bronzed, polished cutting surface

Art. no.	↕○"	SW	kg	PU
1087/5	3/8	19	0,099	1
1087/7	1/2 - 3/4	26	0,264	1

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Hole Saws

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Saws

Metal saw bow

- strong design
- powder-coated
- with quick dowel pin
- material thickness 18 x 8 mm
- span width 300 mm
- suitable saw blades Art. no. 1738, 1739, 1740

Art. no.	Sbl.	kg	PU
1724/300	300	0,750	1

Universal bow saw

- with all-purpose saw blade
- fibreglass reinforced plastic handle
- the extremely angled bow makes it easier to work in places that are difficult to access
- span width 146 mm
- suitable saw blades Art. no. 1738, 1739, 1740

Art. no.	Sbl.	kg	PU
1726/146	146	0,168	1

Universal bow saw

- with all-purpose saw blade
- wooden handle
- span width 146 mm
- suitable saw blades Art. no. 1738, 1739, 1740

Art. no.	Sbl.	kg	PU
1728/146	146	0,098	1

Universal bow saw | fold-down

- with all-purpose saw blade
- fold-down wooden handle
- span width 146 mm
- suitable saw blades Art. no. 1738, 1739, 1740

Art. no.	Sbl.	kg	PU
1729/146	146	0,133	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Saw blade Universal

- for universal, precise sawing work
- blade length 150 mm | pin spacing 146 mm
- toothed part 24 tpi | 10/cm
- materials: metal, aluminium, nonferrous metals, all wood, plastic ducts -pipes, gypsum, etc.
- suitable for universal bow saws Art. no. 1726, 1728, 1729

Art. no.	⟷	TPI	kg	PU
1730/146 ✷	146	24	0,002	1

Saw blade Metal

- for high quality sawn edges
- blade length 150 mm | pin spacing 146 mm
- toothed part 32 tpi | 12/cm
- materials: all metals, nonferrous metals, stainless steel, special alloys, perspex, plastics
- suitable for universal bow saws Art. no. 1726, 1728, 1729

Art. no.	⟷	TPI	kg	PU
1732/146	146	32	0,002	1

Saw blade Wood

- for effortless sawing work in wood
- blade length 150 mm | pin spacing 146 mm
- toothed part 14 tpi | 5..5/cm
- materials: soft, hard and profile wood, fibreboard, garden wood, cardboard and soft plastics
- suitable for universal bow saws Art. no. 1726, 1728, 1729

Art. no.	⟷	TPI	kg	PU
1731/146	146	14	0,001	1

Metal cutting saw blade HSS

- HSS
- for plastcs and metal
- length 300 mm | width 13 mm | thickness 0.63 mm
- teethed part 24 tpi
- suitable for metal saw bow Art. no. 1724

Art. no.	⟷	TPI	kg	PU
1738/300	300	24	0,017	1

Metal cutting saw blade HSS-Bi-metal

- HSS-Bi-metal, flexible
- length 300 mm | width 13 mm | thickness 0.63 mm
- teethed part 24 tpi
- suitable for metal saw bow Art. no. 1724

Art. no.	⟷	TPI	kg	PU
1739/300 ✷	300	24	0,017	1

Metal cutting saw blade

- spring steel (C 75)
- length 300 mm | width 25 mm | thickness 0.8 mm
- serrated on both sides 24 tpi and 32 tpi
- suitable for metal saw bow Art. no. 1724

Art. no.	⟷	TPI	kg	PU
1740/300 ✷	300	24/18	0,044	1

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Cutting

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Universal knife

Das Original BRINKO cutter knife

- ergonomic 2-component handle with soft plastic
- super-sharp, double-ground blade width 18 mm, thickness 0.5 mm
- blade feed with automatic lock
- 2 replacement blade strips in the handle
- colour: yellow, black

Art. no.	kg	PU
2980 ✷	0,105	1

Blade dispenser Black Blades

Original BRINKO Black Blades
Cutter blades, 10-part, suitable for Art. no. 2980

- **super sharp blade** for precise cuts
- reinforced design
- fits all conventional cutter knives
- dual edge for maximum sharpness
- maximum lifespan thanks to flame hardening process
- ideal for various materials
- blade is coated black
- delivered in a dispenser
- 8 segments
- 100 x 18 x 0,5 mm

10 x

Art. no.	kg	PU
2982 ✷	0,082	1

Cable knife

- Stainless steel blade
- with scraper and saw blade
- robust plastic handle, blue

Art. no.	kg	PU
3525	0,083	1

Cable knife

- Stainless steel blade
- without scraper, with a set of teeth
- robust plastic handle, red

Art. no.	kg	PU
3526	0,057	1

Universal knife

- made of pressure die-cast zinc
- ergonomic shape
- trapezoidal blade, blade can automatically be retracted
- blade replacement without tools (interlock system)
- blade depot for 5 blades

Art. no.	kg	PU
2991	0,170	1

Cable stripping knife

- cast steel blade
- with scraper
- wooden bowl

Art. no.	BL	kg	PU
3520	111	0,076	1

Knives

Blade dispenser trapezoidal

- 10 trapezoidal blades
- suitable for Universal knife Art. no. 2991

10 x

Art. no.	kg	PU
2992	0,025	1

Blade dispenser hook

- 10 hook blades
- suitable for universal knife Art. no. 2991

10 x

Art. no.	kg	PU
2993	0,031	1

Ideal scissors

- Cast steel blade
- with spring and lock
- right-hand cutting
- for sheet steel up to 1.5 mm thick
- length 260 mm

Art. no.	⟷	kg	PU
762/260 ✸	260	0,512	1

Ideal scissors

- with a spring
- red dip insulated
- left-hand cutting
- for V2A sheet steel
- length 260 mm

Art. no.	⟷	kg	PU
786/260	260	0,586	1

Shears

Punching scissors

- with a spring
- red dip insulated
- right-hand cutting
- for V2A sheet steel
- length 250 mm

Art. no.	⟷	kg	PU
792/250	250	0,488	1

Punching scissors

- with a spring
- red dip insulated
- left-hand cutting
- for V2A sheet steel
- length 250 mm

Art. no.	⟷	kg	PU
793/250	250	0,494	1

Shaped punching scissors

- with a spring
- with particularly slim blades
- red dip insulated
- right-hand cutting
- for V2A sheet steel
- length 250 mm

Art. no.	⟷	kg	PU
794/250	250	0,501	1

Straight cutting scissors

- with a spring
- red dip insulated
- for V2A sheet steel
- length 300 mm

Art. no.	⟷	kg	PU
798/300	300	0,726	1

Hammers I Chisels

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Club hammer

High work safety:
- hickory handle with protection
- ring wedged and cast plastic

Art. no.	⟷	kg	PU
1409/1000	260	1,128	1
1409/1250	260	1,388	1
1409/1500	280	1,650	1

Club hammer with 3-component handle

Vibration-free club hammer with 3-component high-safety handle. The hammer head with the forged safety collar according to DIN 6475 and rubber protection sheath is secured mechanically in the handle with a heavy steel wedge. The high-safety handle comprises 3 components that are permanently connected to one another! The inner core is made of an aluminium alloy. A polyamide plastic (A2800) that is ultra-resistant to oils and solvents and also the non-slip rubber handle are moulded around this.
Benefits:
- Shock-absorbing, therefore gentle on the joints
- High-safety handle is indestructible
- The handle is permanently connected to the hammer head
- Non-slip handle allows ergonomic and safe work
- Highest possible level of safety

Art. no.	⟷	HG	kg	PU
1412/1000	260	1000	1,210	1

Cross peen hammer

High work safety:
- hickory handle with protection
- ring wedged and cast plastic

Art. no.	⟷	kg	PU
1470/300	300	0,373	1
1470/500	320	0,601	1

Fitter's hammer with 3-component handle

Vibration-free fitter's hammer with 3-component handle.
The hammer head with the forged safety collar according to DIN 1041 and rubber protection sheath is secured mechanically in the handle with a heavy steel wedge. The high-safety handle comprises 3 components that are permanently connected to one another! The inner core is made of an aluminium alloy. A polyamide plastic (A2800) that is ultra-resistant to oils and solvents and also the non-slip rubber handle are moulded around this.
Benefits:
- Shock-absorbing, therefore gentle on the joints
- High-safety handle is indestructible
- The handle is permanently connected to the hammer head
- Non-slip handle allows ergonomic and safe work
- Highest possible level of safety

Art. no.	⟷	HG	kg	PU
1475/300	320	300	0,480	1
1475/500	320	500	0,700	1
1475/1000	320	1000	1,320	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Soft-faced hammer with 3-component handle

Soft-faced hammer with 3-component high-safety handle and steel middle element. Ideal for firm yet gentle hammering during installation work, alignment and attachment. White polyamide inserts are connected to the middle part by means of a dual-locking attachment system; this guarantees absolute safety at work. The inserts can be replaced and ordered separately. The high-safety handle comprises 3 components that are permanently connected to one another! The inner core is made of an aluminium alloy. A polyamide plastic (A2800) that is ultra-resistant to oils and solvents and also the non-slip rubber handle are moulded around this. Note: Not recoil-free!
Benefits:

- Shock-absorbing, therefore gentle on the joints
- Dual-locking attachment system of the polyamide inserts
- High-safety handle is indestructible
- The handle is permanently connected to the hammer head
- Non-slip handle allows ergonomic and safe work
- Highest possible level of safety

Art. no.	↔	Ø	kg	PU
1480/32	300	32	0,480	1
1480/40	320	40	0,720	1

Chisels

Chisel

- Chrome vanadium steel
- painted hornbeam handle
- slot width 26 mm

Art. no.	SW	kg	PU
2174/26	26	0,203	1

Stone chisel

- Chrome vanadium steel, air hardened finish
- with accident-proof impact heads

Art. no.	↔	SW	Strength	kg	PU
1325/250	250	28	20 x 12	0,386	1
1325/300	300	30	23 x 13	0,588	1
1325/350	350	32	23 x 13	0,699	1

Slot chisel

- Chrome vanadium steel, air hardened finish
- with accident-proof impact head
- material thickness 18 mm

Art. no.	↔	SW	Strength	kg	PU
1332/230	230	30	18	0,356	1
1332/300	300	30	18	0,476	1

Electrician's chisel

- Chrome vanadium steel, air hardened finish
- with accident-proof impact head
- length 200 mm
- slot width 10 mm

Art. no.	↔	SW	Strength	kg	PU
1333/200-10	200	10	8	0,092	1

Sharp chisel SDS-Plus

- for electric hammers
- entire length 250 mm

Art. no.	↔	kg	PU
1340/250	250	0,275	1

Flat chisel SDS Plus

- for electric hammers
- entire length 250 mm
- slot width 20 mm

Art. no.	↔	SW	kg	PU
1341/250 ✷	250	20	0,290	1

Spade chisel SDS Plus

- for electric hammers
- entire length 250 mm
- slot width 40 mm

Art. no.	↔	SW	kg	PU
1342/200 ✷	200	40	0,337	1

Nail setter

- Chrome vanadium steel, air hardened finish
- octagonal
- with accident-proof impact head
- length 6 mm

Art. no.	kg	PU
1391/6	0,162	1

Pointed punsh

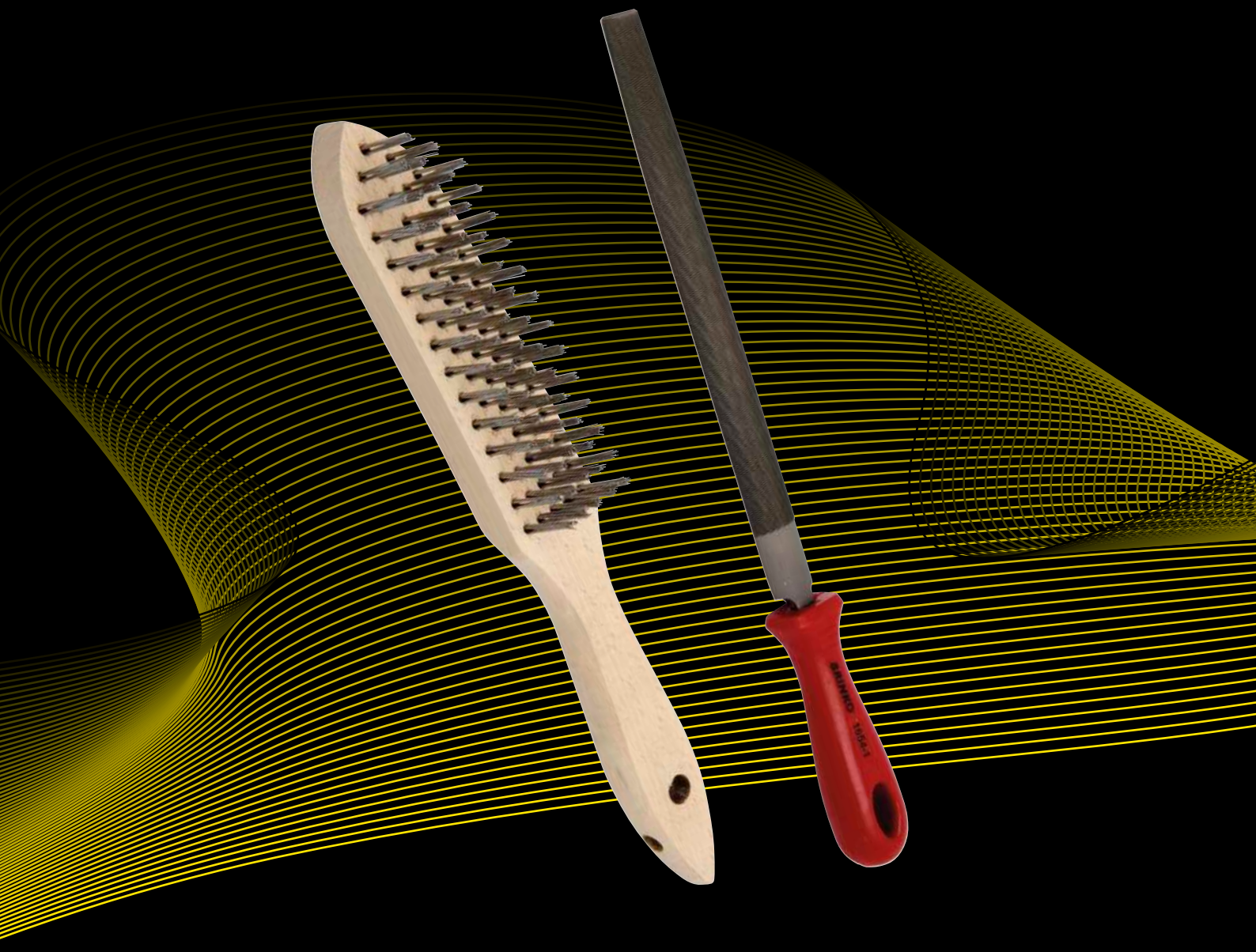
- chrome vanadium steel, air hardened finish
- octagonal
- with accident-proof impact head
- length 120 mm

Art. no.	↔	Strength	kg	PU
1315/120-10	120	10	0,064	1
1315/120-12	120	12	0,092	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

Brushes | Files



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Brushes

Wire brush

- fitted with steel wires
- beechwood body with hanging hole

Art. no.	⟷	Rows	kg	PU
1708/3	295	3	0,113	1
1708/4 ✸	295	4	0,129	1
1708/5	295	5	0,145	1

Wire brush

- fitted with brass wires
- beechwood body with hanging hole

Art. no.	⟷	Rows	kg	PU
1708-1/3	295	3	0,116	1
1708-1/4	295	4	0,139	1

Burner brush

- fitted with wavy brass wires
- wooden body
- total length 200 mm
- brush surface 80 x 15 mm
- in two rows

Art. no.	⟷	Rows	kg	PU
1709-1/80 ✸	200	2	0,043	1

Burner brush

- fitted with wavy brass wires
- with plastic handle
- total length 225 mm
- rows 2 x 13

Art. no.	⟷	Rows	kg	PU
1710	225	2 x 13	0,130	1

Fitting brush

- with a wooden handle
- for cleaning the inside of pipe ends

Art. no.	⟷	kg	PU
1706/12	12	0,027	1
1706/15 ✸	15	0,025	1
1706/18	18	0,027	1
1706/22	22	0,028	1
1706/28	28	0,038	1

Fitting brush

- with a wooden handle
- for cleaning the inside of pipe ends

Art. no.	⟷	kg	PU
1706-1/15	15	0,055	1
1706-1/18	18	0,055	1
1706-1/22	22	0,060	1

Fitting brush

- strong plastic body
- for cleaning the outside of copper pipe ends

Art. no.	⟷	kg	PU
1705/12	12	0,021	1
1705/15	15	0,026	1
1705/22	22	0,032	1
1705/28	28	0,040	1

Brass brush

- fitted with thin, wavy brass wires
- wooden body
- total length 175 mm
- brush surface 40 x 20 mm
- in three rows

Art. no.	⟷	Rows	kg	PU
1709/40x20 ✸	175	3	0,021	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Files

Engineer's file half round

- half round file with plastic handle
- grade of cut 2: semi-fine, cut number 10 – 25
- cut length 250 mm
- thickness 7 mm

Art. no.	BL	kg	PU
1654-1/250	250	0,290	1

Engineer's file round

- Round file with plastic handle
- grade of cut 2: semi-fine, cut number 10 – 25
- cut length 250 mm
- thickness 10 mm

Art. no.	BL	kg	PU
1653-1/250	250	0,165	1

Installation rasp

- flat rasp with plastic handle
- milled cut
- cut length 250 mm

Art. no.	BL	kg	PU
1658-1/250	250	0,262	1

Engineer's file flat

- flat file with plastic handle
- grade of cut 2: semi-fine, cut number 10 – 25
- cut length 250 mm
- thickness 6.3 mm

Art. no.	BL	kg	PU
1655-1/250	250	0,339	1

Wood rasp

- with plastic handle
- milled cut
- cut length 250 mm
- width 23.8 mm
- thickness 7 mm

Art. no.	BL	kg	PU
1666-1/250	250	0,247	1

File rasp

- with polished wooden handle
- cut length 200 mm

Art. no.	BL	kg	PU
1664/200	200	0,170	1

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Plaster's Tools

Plaster ladle

- galvanic zinc-coated
- with wooden handle
- tapered, Ø 160 mm

Art. no.	Ø	kg	PU
2994/160	160	0,340	1

Plaster cup

- made of soft rubber
- Ø 135 mm

Art. no.	Ø	kg	PU
2996/135	135	0,161	1

Painter's spatula

- with flat oval wooden handle

Art. no.	Width	kg	PU
2952/30	30	0,050	1
2952/40	40	0,058	1
2952/50	50	0,060	1
2952/70	70	0,077	1

Plasterer's spatula

- „Greasers“
- made of hardened rust-free steel
- painted wooden handle
- blade width 60 mm

Art. no.	Width	kg	PU
2900/60	60	0,075	1

Trowel

- square trowel
- made of hardened stainless steel
- painted wooden handle
- blade length 140 mm

Art. no.	↔	kg	PU
2904/140	140	0,166	1

Tongue trowel

- made of hardened stainless steel
- painted wooden handle
- blade length 160 mm

Art. no.	↔	kg	PU
2908/160	160	0,139	1

Brushes

Water brush

- pure China bristles

Art. no.	Ø	kg	PU
2998	30	0,026	1

Flat brush

- pure China bristles

Art. no.	Width	kg	PU
2999-1/25	25	0,021	1
2999-1/50	50	0,044	1

Radiator brush

- pure China bristles

Art. no.	Width	kg	PU
2997/25	25	0,021	1
2997/40	40	0,021	1

Tool cases

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Tool case plumbing

ABS

Hard-top case ABS plastic, black
- dimensions 480 x 370 x 225 mm
- alu frame
- non-slip carrying handle
- 2 locks
- with shoulder strap
- reinforced metal corners as additional protection against damage

Inside:
- 2 tool kits completely removable
- document pocket
- bottom half of case equipped with variable partitions

Two tool boards with a total of 37 pockets and document compartment (can be removed independently)

Opening angle of over 90° prevents sudden folding

Sturdy dividers made of aluminum (can be used variably)

Reinforced metal corners (with integrated feet on the underside)

Carrying strap for higher carrying comfort included

Art. no.	Width	Height	Depth	kg	PU
7410	480	370	225	6,600	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller

Premium product

Tool case BRIactive

Hard-top case, black, fitted with 28 special tools
- dimensions 480 x 370 x 225 mm
- black alu frame, non-slip carrying handle, 2 locks, with shoulder strap,
- reinforced metal corners as additional protection against damage

Inside:
- 2 tool kits completely removable, document pocket, bottom half of case
- equipped with variable partitions

Content:
- 90/10 Hexagon socket wrench 10 mm
- 90/13 Hexagon socket wrench 13 mm
- 685/240 Water pump pliers 240 mm
- 1740/300 Metal cutting saw blade
- 105/10 Plumbing installation wrench
- 211217* VDE Heavy duty side cutters HAUPA 1000 V, 170 mm
- 211208* VDE Long chain nose pliers HAUPA 1000 V, 200 mm
- 619/1 Corner pipe pliers 320 mm, 49 mm, 1“
- 633/35 Pipe cutter with deburrer up to Ø 32 mm
- 1470/500 Cross peen hammer 500 g
- 2524/235 All-purpose pencil 235 mm
- 1728/146 Universal bow saws
- 2122 Screwdriver set 6 pieces: 4 slot-head screwdrivers 80 x 3, 100 x 4, 125 x 5.5, 150 x 6.5 mm 2 cross-head screwdrivers PZ 1, PZ 2
- 2839 Spirit level
- 1333/200-10 Electrician‘s chisel 10 mm
- 2705/2 Cutting Folding ruler 2 m
- 2640/3 Roller tape 3 m, 16 mm
- 2980 Universal knife
- 2088/145 Safety voltage tester 4.0 x 145 mm
- 2999-1/25 Solder water brush 25 mm, 1“
- 2952/40 Painter‘s spatula 40 mm
- 631-5 Miniature pipe cutter
- 111/2 Hex key set 7 pieces: 2.5, 3, 4, 5, 6, 8, 10 mm
- Tool case empty, Art. No. 7410

Art. no.	set	empty	kg	PU
7419	29	7410	14,000	1

Tool case Plumbing CLASSIC

Hard-top case, black, fitted with 22 special tools
- dimensions 480 x 370 x 225 mm
- black alu frame, non-slip carrying handle, 2 locks, with shoulder strap,
- reinforced metal corners as additional protection against damage

Inside:
- 2 tool kits completely removable, document pocket, bottom half of case
- equipped with variable partitions

Content:
- 56/10x13 Open-end wrench 10 x 13 mm
- 56/17x19 Open-end wrench 17 x 19 mm
- 114 Hex key set
- 619/1 Corner pipe pliers 320 mm, 49 mm, 1“
- 633/35 Pipe cutter with deburrer up to Ø 32 mm
- 655 Combination washbasin tap wrench
- 666/2 2 Step wrench 2
- 680/240 Water pump pliers 240 mm
- 1333/200-10 Electrician‘s chisel 10 mm
- 1470/300 Cross peen hammer 300 g
- 1654-1/250 Engineer‘s file | half round
- 1709/40x20 Brass brush
- 1728/146 Universal bow saws
- 2142 Bit holder 350 mm
- 2142-1 Bit holder 100 mm
- 2836/300 Lightweight metal spirit level 300 mm
- 2980 Universal knife
- 2999-1/25 Solder water brush 25 mm, 1“
- 3458/10 Work gloves 10
- 4255 Safety glasses
- 2145 Bit set | 32 pieces | colour-coded, 1 bit holder with quick release 1 adaptor for 1/4“and 30 bits:
  4x red, cross-head PH size 1, 2, 2, 3
  4x green, cross-head PZ size 1, 2, 2, 3
  4x blue, slot-head 3, 4, 5, 6 mm
  4x yellow, Allen 3, 4, 5, 6 mm
  7x orange, Tx TX 10, 15, 20, 25, 27, 30, 40
  7x purple, Tx with hole STX 10, 15, 20, 25, 27, 30, 40
- 2705/2 Cutting Folding ruler 2 m

Art. no.	set	empty	kg	PU
7418	23	7410	11,809	1

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Tool case Plumbing EXCLUSIVE

ABS

Hard-top case, black, fitted with 37 special tools
- dimensions 480 x 370 x 225 mm
- black alu frame, non-slip carrying handle, 2 locks, with shoulder strap
- reinforced metal corners as additional protection against damage

Inside:
- 2 tool kits completely removable, document pocket, bottom half of case
- equipped with variable partitions

Content:
- 22-1/300 Instrument key 300 mm
- 56/10x13 Open-end wrench 10 x 13 mm
- 56/17x19 Open-end wrench 17 x 19 mm
- 92 Socket wrench 10 x 11, 12 x 13, 17 x 19, 19 x 22
- 105/10 Plumbing installation wrench
- 106-2 Plumbing four-way socket wrench
- 114 Hex key set
- 129-3/250 Reversible ratchet
- 129-7/125 Extension
- 129-12 BRImultiLock insert 10, 13, 17 mm
- 619/1 Corner pipe pliers 320 mm, 49 mm, 1“
- 631-5 Miniature pipe cutter
- 633/35 Pipe cutter with deburrer up to Ø 32 mm 2
- 655 Combination washbasin tap wrench
- 673/86 Step wrench 86 mm
- 685-1/240 Water pump pliers 240 mm
- 1333/200-10 Electrician‘s chisel 10 mm
- 1470/500 Cross peen hammer 500 g
- 1654-1/250 Engineer‘s file | half round
- 1710 Burner brush
- 1726/146 Universal bow saws
- 2070/125 Slot-head screwdriver 5.5 x 125
- 2070/150 Slot-head screwdriver 6.5 x 150
- 2080/1 Screwdriver | PZ1 x 80 / 2 – 3 mm
- 2080/2 Screwdriver | PZ2 x 100 / 3 – 5.2 mm
- 2088/145 Voltage tester
- 2524/235 All-purpose pencil 235 mm
- 2705/2 Cutting Folding ruler 2 m
- 2980 Universal knife
- 2999-1/25 Solder water brush 25 mm, 1“
- 3820 Hemp dispenser
- 2836/400 Lightweight metal spirit level 400 mm

Art. no.	set	empty	kg	PU
7438	38	7410	16,489	1

Young technician toolbox - Plumbing/heating

Hard-top case, black, fitted with 22 special tools
- dimensions 480 x 370 x 225 mm
- black alu frame, non-slip carrying handle, 2 locks, with shoulder strap
- reinforced metal corners as additional protection against damage

Inside:
- 2 tool kits completely removable, document pocket, bottom half of case
- equipped with variable partitions

Content:
- 83 Ratchet wrenches 4 in 1, 10 x 13 und 17 x 19 mm
- 105/10 Plumbing installation wrench
- 128 Universal screw insert Ø 9 – 21 mm
- 129-9 Connecting square 1/2“
- 633/35 Pipe cutter with deburrer to Ø 32 mm
- 655 Combination washbasin tap wrench
- 662 Toilet seat & sanitary installation wrench BRImultiKey 19 in 1
- 675 Step wrench set 86 mm
- 687/250 Water pump pliers 250 mm
- 689/240 Fittings pliers | Key pliers 240 mm
- 1470/300 Cross peen hammer 300 g
- 1728/146 Universal bow saw
- 2126/7 Screwdriver set, 7 pieces
  4 slot-head screwdrivers 75 x 2.5, 100 x 4, 125 x 5.5, 150 x 6.5 mm
  2 cross-head screwdrivers PZ 1, PZ 2
  1 Safety voltage tester 150 - 250 Volt
- 2528 Deep-hole marker 2-in-1 with a sharpener
- 2980 Universal knife for cutter blades 18 mm
- 180094 Electrician‘s chisel 200 x 12 mm

Art. no.	set	empty	kg	PU
7421	23	7410	11,040	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Apprentice case BRIbasic

ABS

Hard-top case, black, fitted with 14 special tools
2 tool boards and document pocket completely removable, lockable, incl. 2 keys, bottom tray with variable dividers made of aluminum, reinforced metal corners as additional protection
against damage,
Tool case empty, Art. no. 220030

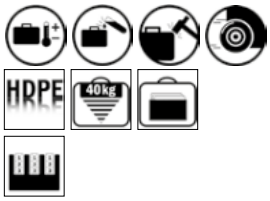
Content:
- Screwdriver set 6 pieces, Art. no. 2122
4 slot-head screwdrivers 80 x 3, 100 x 4, 125 x 5.5, 150 x 6.5 mm
2 cross-head screwdrivers PZ 1, PZ 2
- Water pump pliers 240 mm, Art. no. 680/240
- Cross peen hammer 300 g, Art. no. 1470/300
- Pipe cutter, Art. no. 633/35
- Universal knife, Art. no. 2980
- Plumbing installation wrench, Art. Nr. 105/10
- Universal bow saws, Art. no. 1728/146
- Hex key set, 7 pieces, 2.5, 3, 4, 5, 6, 8, 10 mm, Art. no. 111/2
- Spirit level, Art. no. 2839
- Tool case empty, Art. no. 220030

Art. no.	set	empty	kg	PU
7416	15	220030	8,800	1

Skater tool trolley

HDPE

Hardshell case made of PP plastic
- inside dimensions 470 x 360 x 220 mm
- extremely robust design, shell highly impact resistant and almost indestructible
- rigid frame made of hardened aluminium
- 3 sturdy back hinges, sturdy lid holders riveted 4 times
- case corners additionally reinforced with aluminium attachments
- ergonomic telescopic handle
- integrated trolley system with ball bearing skate wheels
- lockable locks and additional combination lock
- removable compartment dividers in the case bottom with cover
- 3 tool plates and document compartment



Art. no.	Width	Height	Depth	kg	PU
7413	470	360	220	6,900	1

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powered by haupa

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HDPE tool case extra deep

Tool case made of a combination of cowhide and ABS plastic
dimensions 450 x 340 x 190 mm
- partial fold-out front and back wall with a total of 17 pockets
- removable, middle tool plate with brush strip
- surrounding leather strap, two extra-large locks with keys
- filled with sanitary tools Art. no. 7362

Art. no.	Width	Height	Depth	kg	PU
7360	450	340	190	3,800	1

Cowhide & ABS tool case Premium Plumbing EXCLUSIVE

Tool case made of a combination of cowhide and ABS plastic
- dimensions 450 x 340 x 190 mm
- partial fold-out front and back wall with a total of 17 pockets
- removable, middle tool plate with brush strip
- surrounding leather strap, two extra-large locks with keys

Content:
- 22-1/300 Instrument key 300 mm
- 56/10x13 Open-end wrench 10 x 13 mm
- 56/17x19 Open-end wrench 17 x 19 mm
- 92 Socket wrench 10 x 11, 12 x 13, 17 x 19, 19 x 22
- 105/10 Plumbing installation wrench
- 106-2 Plumbing four-way socket wrench
- 114 Hex key set
- 129-3/250 Reversible ratchet
- 129-7/125 Extension
- 129-12 BRImultiLock insert 10, 13, 17 mm
- 619/1 Corner pipe pliers 320 mm, 49 mm, 1“
- 631-5 Miniature pipe cutter
- 633/35 Pipe cutter with deburrer up to Ø 32 mm
- 655 Combination washbasin tap wrench
- 673/86 Step wrench 86 mm
- 685-1/240 Water pump pliers 240 mm
- 1333/200-10 Electrician‘s chisel 10 mm
- 1470/500 Cross peen hammer 500 g
- 1654-1/250 Engineer‘s file | half round
- 1710 Burner brush
- 1726/146 Universal bow saws
- 2070/125 Slot-head screwdriver 5.5 x 125
- 2070/150 Slot-head screwdriver 6.5 x 150
- 2080/1 Screwdriver | PZ1 x 80 / 2 – 3 mm
- 2080/2 Screwdriver | PZ2 x 100 / 3 – 5.2 mm
- 2088/145 Voltage tester
- 2524/235 All-purpose pencil 235 mm
- 2705/2 Cutting Folding ruler 2 m
- 2980 Universal knife
- 2999-1/25 Solder water brush 25 mm, 1“
- 3820 Hemp dispenser
- 2836/400 Lightweight metal spirit level 400 mm

Art. no.	set	empty	kg	PU
7362	38	7360	12,260	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Tool bags

BRINKO® powered by haupa®

BRItoGo tool backpack

Mobile on the move thanks to the BRINKO BRItoGo tool backpack
- **can be personalized with embroidered Velcro pad on front pocket**
- 41 compartments, including 6 outer pockets (3 neoprene)
- 4 inside pockets with zipper
- Neoprene front pockets (e.g. spirit level, long chisel)
- Practical removable knee pad
- Waterproof high bottom shell to protect against moisture
- Reflective strips on the front
- 2 metal fastening eyelets on the side
- ergonomically padded adjustable shoulder straps
- Padded back section and carrying handle
- High tilt resistance, even when open
- Material: extremely strong 1680D polyester
- Color: black with grey stitching

Art. no.	Width	Height	Depth	kg	PU
7521	400	450	260	1,300	1

BRItoGo SANITARY tool backpack

The HUPtoGo/BRItoGo tool backpack is the perfect answer to the needs of craftsmen and technicians. It combines well thought-out design and robust quality in terms of size, layout and equipment - precisely tailored to the requirements of daily use. The 35-piece equipment is based on the experience of plumbers who know exactly which tools and aids they need. BRINKO combines the highest quality with a practical, robust transport system in this professional set. This set leaves nothing to be desired and contains only useful, well-designed products that provide optimum support for everyday work. Backpack 7521.

Contents:
- Screwdriver set **HUPslim** 1000 V 6 pcs. slotted/PH, hardened*
- Safety voltage tester
- Pin spanner set 1.5 - 10 mm
- TORX angle spanner set T10 - T50
- Steel wire brush, 4-row
- Locksmith's hammer with 3-component handle 300 g
- Electrician's chisel 250 x 12 mm
- Universal hacksaw/mini hacksaw with fixed wooden handle in red incl. saw blade
- Universal knife for snap-off blades 18 mm
- Bit holder, length 350 mm with magnet and snap ring suitable for all 1/4' bit inserts
- Bit set, 32-piece colour-coded
- Automatic wire stripper Super 4 Pro, 165 mm
- Diagonal cutters DIN ISO 5749 VDE, 160 mm*
- Stork beak pliers DIN ISO 5745 VDE straight, 200 mm*
- Stork's beak pliers DIN ISO 5745 VDE 45° angled, 200 mm*
- Water pump pliers with push-button adjustment, 250 mm chrome-plated
- Fitting pliers/spanner pliers 180 mm chrome-plated
- Corner pipe wrench S-jaw, 1'
- 7-piece combination spanner set 6, 8, 9, 10, 13, 17, 19 mm
- Pipe cutter with deburrer 3 - 35 mm copper, carbon steel, iron
- Sanitary cross spanner
- Combination tap spanner for fittings up to 14 mm threaded rod and SW 32 mm nuts
- WC seat & sanitary installation spanner BRImultiKey 19 in 1
- LED claw gripper magnetic Length: 600 mm C• Deep hole marker, 2 in 1
- Magnetic spirit level, mini, • Caliper, 160 mm, • Ruler, 2 m
- Neutral PTFE thread sealant, 175 m DVGW test up to 100 bar in accordance with DIN EN 751-3 FRp
- Quick degreaser HUPdegreaser
- LED inspection light HUPlight400 160 x 37 x 21 mm
- Breathable protective gloves size 10
- Ear defenders Ear plugs Noise protection hearing protection
- Safety goggles/safety glasses with length and height-adjustable temples

* Lever-operated, perfected cutting performance

Art. no.	set	empty	kg	PU
7522	46	7521	11,071	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

BRItoGo SERVICE tool backpack

The BRItoGo tool backpack offers an innovative solution for craftsmen and technicians. With its optimum size, well thought-out layout and robust equipment, it meets all the requirements for professional use. The 26-piece equipment is based on the experience of service technicians in the field of maintenance and repair. BRINKO combines high-quality special tools and practical aids in this professional set, perfectly combined with a robust transport system. Additional space for a laptop, measuring devices and individual tools, as well as a name patch, round off the set and make it the ideal equipment for any job. Tool backpack 7521.

Contents:

- Screwdriver set **HUPslim** 1000 V, 6 pcs. slotted/PH, hardened*
- Voltage tester 120 - 250 V, 100 x 3.5 mm
- Diagonal cutters DIN ISO 5749 VDE, 160 mm*
- Automatic wire stripper Super 4 Pro, 165 mm, 0.1 - 6 mm²
- Stork beak pliers DIN ISO 5745 VDE, 45° angled, 200 mm*
- Neutral PTFE thread sealant, 175 m
- Storkbill pliers DIN ISO 5745 VDE straight, 200 mm*
- Open-end spanner 24/30 mm, 275 mm
- Control mirror
- Socket spanner set BRImultiLock, 55 pcs.
- Bit holder, length 350 mm
- Bit set, 32-piece
- Water pump pliers with push-button adjustment, 250 mm
- Fitting pliers/spanner pliers, 180 mm
- LED claw gripper, magnetic, length: 600 mm
- Screwdriver Tx 8 x 185 mm, 9 x 185 mm, 10 x 195 mm, 15 x 195 mm, 20 x 195 mm, 25 x 220 mm
- Torch brush
- LED inspection light HUPlight400, 160 x 37 x 21 mm
- Torque spanner, ¼', 2 - 20 Nm

* Lever-operated, perfected cutting force performance

Art. no.	set	empty	kg	PU
7523	30	7521	8,500	1

Bags

Tool wallet

Made of plastic

- with buckle belt
- space for 5 tools Art. Nr. 7000/5
- space for 15 tools Art. Nr. 7000/15

Art. no.	Width	Height	kg	PU
7000/5	250	300	0,275	1
7000/15	680	330	0,395	1

Servcie bag

Strong tool bag made of hard-wearing 600D Polyester
Equipped with 24 special tools
dimensions 450 x 350 x 190 mm

- 2 full length double zips, reinforced seams
- padded carrying handle and shoulder straps
- a total of 46 storage options
- generously proportioned section with special pockets and elastic holders
- extra section for documents and other accessories

Art. no.	Width	Height	Depth	kg	PU
7515	450	350	190	2,157	1

BRINKO® powered by haupa

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Service bag Plumbing CLASSIC

Strong tool bag made of hard-wearing 600D Polyester
fitted with 24 special tools
dimensions 450 x 350 x 190 mm

Content:
- 56/10x13 Open-end wrench 10 x 13 mm
- 56/17x19 Open-end wrench 17 x 19 mm
- 114 Hex key set
- 619/1 Corner pipe pliers 320 mm, 49 mm, 1“
- 633/35 Pipe cutter with deburrer up to Ø 32 mm
- 655 Combination washbasin tap wrench
- 666/2 2 Step wrench 2
- 680/240 Water pump pliers 240 mm
- 1333/200-10 Electrician‘s chisel 10 mm
- 1470/300 Cross peen hammer 300 g
- 1654-1/250 Engineer‘s file | half round
- 1709/40x20 Brass brush
- 1728/146 Universal bow saws
- 2142 Bit holder 350 mm
- 2142-1 Bit holder 100 mm
- 2836/300 Lightweight metal spirit level 300 mm
- 2980 Universal knife
- 2999-1/25 Solder water brush 25 mm, 1“
- 3458/10 Work gloves 10
- 4255 Safety glasses
- 2145 Bit set | 32 pieces | colour-coded, 1 bit holder with quick release
  1 adaptor for 1/4“and 30 bits:
  4x red, cross-head PH size 1, 2, 2, 3
  4x green, cross-head PZ size 1, 2, 2, 3
  4x blue, slot-head 3, 4, 5, 6 mm
  4x yellow, Allen 3, 4, 5, 6 mm
  7x orange, Torx TX 10, 15, 20, 25, 27, 30, 40
  7x purple, Torx with hole STX 10, 15, 20, 25, 27, 30, 40
- 2705/2 Cutting Folding ruler 2 m

Art. no.	set	empty	kg	PU
7516	25	7515	7,380	1

Refrigeration technology

BRINKO®
powered by haupa®

INFO

New challenges, new opportunities

Refrigeration and air conditioning equipment from BRINKO
With the requirement to improve environmental protection, the demand for new and sustainable equipment for heat and water supply in residential construction has also risen sharply as a result of the Building Energy Act.

Trade businesses, both in the heating and plumbing and electrical engineering sectors, cannot ignore this new challenge in order not to lose touch.

Heat pumps and air conditioning units, which can be used for both cooling and heating rooms, are a proven and practicable answer. Both systems work with a cooling circuit that is operated with refrigerant.

This **„new“ technology** requires heating and plumbing specialists to have an additional qualification in order to be able to install, repair and maintain these devices.
Employees of trade businesses can acquire this required qualification with the certificate of competence category I in accordance with DUV EU 2015/2067, ChemKlimaschutzV (large refrigeration certificate), or with the certificate of competence category II in accordance with DUV EU 2015/2067, ChemKlimaschutzV (small refrigeration certificate).

Necessary company certification in accordance with ChemKlimaschutzV
You can find more detailed information in our separate refrigeration technology brochure (see QR code). Also the list and explanation of the individual boxes included in our refrigeration and air conditioning sets.

BRINKO, together with its wholesale partners, offers a compilation of the required tools, equipment and special materials.

This contains almost all of the listed products from the certification requirements (refrigerant cylinders, recycling cylinders for disposal, nitrogen cylinders must be purchased from certified gas dealers).
The **BRINKO „all-round carefree package“** is largely supplied in the new BRINKO boxes. The boxes can be interlocked to enable safe and easy transportation in vehicles and to the place of use.

The BRINKO complete package means that tradespeople no longer have to interpret the required products in the certification, search for and identify manufacturers, or worry about whether the products have the necessary quality and meet the required specifications.

With the BRINKO refrigeration and air conditioning equipment, you are on the safe side for certification and ready for immediate use!

Equipped according to **Chemical Climate Protection Regulation**

Heat pumps | Refrigeration equipment | Complete package | Configuration

Cold-climate set metric BRIcoolTec1

Cold-climate equipment from BRINKO
In partnership with our specialized trade partners, we offer 4 sets, for metric or imperial pipes, with or without brazing equipment (if already available).
BRIcoolTec1 metric complete (Art. No. 4901)
Includes all specific tools required for certification, including brazing equipment (refrigerant bottles, disposal bottles, and the corresponding connections, as well as nitrogen bottles, must be ordered from certified gas suppliers).

Comprising:
Tool box WZB
Cold tool box metric KWM
Assembly aid box MHB
Cold hose box KSB
Vacuum box VKU
Refrigerant scale box KMW
Extraction device box ASG
Personal protective equipment box PSA
Water-coolant measuring equipment box WKM
Sorting box SOB
Small parts box KTB
Non-woven cleaning cloths VPT
Expander set metric EXP-M
Hydraulic pipe bending set metric HRB-M
Brazing set HLS
Carrying straps for boxes (3 pieces) TG
Roller cart for boxes RW

The BRINKO BRIbox system is compatible with the metaBOX system.

Art. no.	quantity	kg	PU
4901	92	94,980	1

Cold-climate set metric without brazing BRIcoolTec2

Cold-climate equipment from BRINKO
In partnership with our specialized trade partners, we offer 4 sets, for metric or imperial pipes, with or without brazing equipment (if already available).
BRIcoolTec2 metric without brazing equipment (Art. No. 4902)
Includes all specific tools required for certification, without brazing equipment (refrigerant bottles, disposal bottles, and the corresponding connections, as well as nitrogen bottles, must be ordered from certified gas suppliers).

Consisting of:
Tool box WZB
Refrigeration tool box metric KWM
Fitter's aid box MHB
Refrigerant hose box KSB
Vacuum box VKU
Refrigerant scale box KMW
Suction unit box ASG
Personal protective equipment box PSA
Water refrigeration measuring technology box WKM
Sorting box SOB
Small parts box KTB
Non-woven cleaning cloths VPT
Metric expander set EXP-M
Hydraulic pipe bender set metric HRB-M
Carrying straps for boxes (3 pieces) TG
Roller cart for boxes RW

The BRINKO BRIbox system is compatible with the metaBOX system.

Art. no.	quantity	kg	PU
4902	91	82,280	1

Cold-climate set imperial BRIcoolTec3

Cold-climate equipment from BRINKO
In partnership with our specialized trade partners, we offer 4 sets, for metric or imperial pipes, with or without brazing equipment (if already available).
BRIcoolTec3 imperial complete (Art. No. 4911)
Includes all specific tools required for certification, including brazing quipment (refrigerant bottles, disposal bottles, and the corresponding connections, as well as nitrogen bottles, must be ordered from certified gas suppliers).

Comprising:
Tool box WZB
Cold tool box imperial KWZ
Assembly aid box MHB
Cold hose box KSB
Vacuum box VKU
Refrigerant scale box KMW
Extraction device box ASG
Personal protective equipment box PSA
Water-coolant measuring equipment box WKM
Sorting box SOB
Small parts box KTB
Non-woven cleaning cloths VPT
Expander set imperial EXP-Z
Hydraulic pipe bending set imperial HRB-Z
Brazing set HLS
Carrying straps for boxes (3 pieces) TG
Roller cart for boxes RW

The BRINKO BRIbox system is compatible with the metaBOX system

Art. no.	quantity	kg	PU
4911	94	94,980	1

Cold-climate set imperial without brazing BRIcoolTec4

Cold-climate equipment from BRINKO
In partnership with our specialized trade partners, we offer 4 sets, for metric or imperial pipes, with or without brazing equipment (if already available).
BRIcoolTec4 imperial without brazing equipment (Art. No. 4912)
Includes all specific tools required for certification, without brazing equipment (refrigerant bottles, disposal bottles, and the corresponding connections, as well as nitrogen bottles, must be ordered from certified gas suppliers).

Consisting of:
Tool box WZB
Cold tool box imperial KWZ
Assembly aid box MHB
Cold hose box KSB
Vacuum box VKU
Refrigerant scale box KMW
Extraction device box ASG
Personal protective equipment box PSA
Water-coolant measuring equipment box WKM
Sorting box SOB
Small parts box KTB
Non-woven cleaning cloths VPT
Expander set imperial EXP-Z
Hydraulic pipe bending set imperial HRB-Z
Carrying straps for boxes (3 pieces) TG
Roller cart for boxes RW

The BRINKO BRIbox system is compatible with the metaBOX system.

Art. no.	quantity	kg	PU
4912	93	82,280	1

INFO

BRIbox generation

Robust | Lightweight | Blocked - Easy and safe to transport

The new **BRINKO BRIbox generation** is characterized by great robustness and low weight. Another plus point is that different sizes of **BRINKO boxes can also be can be interlocked** and thus ensure safe and easy transportation in vehicles and to the place of use.
Special tools and aids for working with metric and imperial pipework are clearly arranged in specially manufactured foam inserts

The BRINKO BRIbox system is compatible with the metaBOX system.
Boxes on request.

BRINKO-BOX 63 XS
External dimensions:
252 x 167 x 63 mm

BRINKO-BOX 340 S
External dimensions:
396 x 296 x 340 mm

BRINKO-BOX 118 S
External dimensions:
396 x 296 x 118 mm

BRINKO-BOX 95 M
External dimensions:
446 x 345 x 95 mm

BRINKO-BOX 145 M
External dimensions:
446 x 345 x 145 mm

BRINKO-BOX 280 L
External dimensions:
496 x 296 x 280 mm

BRINKO trolley
External dimensions:
495 x 380 x 155 mm

BRINKO boxes are not interlocked (only stand on top of each other)

BRINKO boxes are interlocked (stand on top of each other and are firmly connected)

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Measuring | Marking

BRINKO®
powered by haupa®

Pressure testing

Pressure testing pump

- for safe tightness testing on water pipes
- brass piston, 1/2“ hose connection
- test pressure up to 60 bar
- storage tank 12 l, painted red
- tank dimensions 500 x 180 x 140 mm
- replacement manometer Art. no. 7640-1
- replacement pressure hose Art. no. 7640-2

Art. no.	bar	kg	PU
7640	60	7,800	1
7640-1	Pressure gauge	0,070	1
7640-2	Hose Ø 1/2"	0,727	1

Pressure testing pump stainless steel

- for safe tightness testing on pipes
- in particular with chemically contaminated, aggressive liquids
- also suitable for solar panel systems and underfloor heating systems
- 1/2“ hose connection
- test pressure up to 60 bar
- storage tank 12 l made of STAINLESS STEEL
- per stroke 0.027 litres
- tank dimensions 500 x 190 x 140 mm
- replacement manometer Art. no. 7641-1
- replacement pressure hose Art. no. 7640-2

Art. no.	bar	kg	PU
7641	60	6,400	1
7641-1	Pressure gauge	0,070	1

Pencils & Marker

DRY Profi

Effective pressing mechanism for automatic lead propulsion in robust stainless steel tube

- easy one-handed operation thanks to improved clip
- integrated sharpener with guide – for fast sharpening at any time
- leads can be replenished from the front or back
- for all surfaces (wood, metal, glass, ceramics …)
- special graphite lead included can be wiped off smooth surfaces with a damp cloth
- separately available coloured leads, water soluble or waterproof
- available in colour sets or individual colours for versatile use on light and dark backgrounds

Art. no.	kg	PU
2513	0,020	1

DRY Profi LED

Integrated LED lamp for precise markings in poorly-lit areas

- immediately ready to use thanks to already included batteries, 3 x 1.5 V – LR 41 replaceable batteries
- easy-to-use pushbutton ideally placed in the grip area of the marker
- effective pressing mechanism for automatic lead propulsion in robust stainless steel tube
- easy single-handed operation thanks to improved clip
- integrated sharpener with guide for fast sharpening at any time
- Leads can be replenished from the front or back
- for all surfaces (wood, metal, glass, ceramics …)
- special graphite lead included can be wiped off smooth surfaces with a damp cloth
- separately available coloured leads, water-soluble or waterproof Available in colour sets or individual colours for versatile use on light and dark backgrounds

Art. no.	kg	PU
2514	0,032	1

Deep-hole marker 2-in-1 with a sharpener

One pen – two functions
With a cap: Retractable pencil for precise marking and writing
Without a cap: Deep-hole marker for drilling and installation tasks

- very stable, with a practical clip
- sharpener integrated into the push-button
- graphite universal refill for marking on rough and smooth surfaces
- ergonomic, triangular form
- preserves resources and is environmentally-friendly
- designed for various refills for almost all surfaces and materials

Art. no.	↔	kg	PU
2528	165	0,012	1

Duo marker sanitary

1 pen, 2 colours

- made of high-quality lime wood
- this soft hardwood is very easy to sharpen and offers an optimal combination of stability and flexibility
- lead red/blue
- for marking different measuring points, hot and cold water pipes or for corrections

Art. no.	↔	kg	PU
2510	175	0,012	1

DRY construction marker

- for all surfaces (plastic, glass, ceramic, metal, wood, …)
- in a practical quiver with clip
- can be wet-wiped off smooth surfaces
- with a graphite-lead, improved feed and easy to change
- integrated tip, ideal single hand operation

Art. no.	kg	PU
2511	0,030	1

DRY leads | Graphite

- 12x graphite 2B
- can be wet-wiped off smooth surfaces

Art. no.	quantity	kg	PU
2511-1	12	0,032	1

DRY leads | Basic

- 6x graphite 2B, 3x red, 3x yellow
- can be wet-wiped off smooth surfaces
- Protect leads in red and yellow from high temperatures!

Art. no.	quantity	kg	PU
2511-2	12	0,028	1

DRY leads | Special

- 4x white, 4x green, 4x blue
- all leads are resistant to water jets
- ideal for wet-cutting tiles and stone

Art. no.	quantity	kg	PU
2511-3	12	0,028	1

INK deep hole marker black

- for all surfaces (plastic, glass, ceramic, metal, wood, …)
- in a practical quiver with a clip
- more precise marking in boreholes and in places which are difficult to access

Art. no.	kg	PU
2515/1	0,019	1

INK deep hole marker red

- for all surfaces (plastic, glass, ceramic, metal, wood, …)
- in a practical quiver with a clip
- more precise marking in boreholes and in places which are difficult to access

Art. no.	kg	PU
2515/2	0,019	1

INK deep hole marker blue

- for all surfaces (plastic, glass, ceramic, metal, wood, …)
- in a practical quiver with a clip
- more precise marking in boreholes and in places which are difficult to access

Art. no.	kg	PU
2515/3	0,019	1

All-purpose pencil

- with special graphite lead, length 235 mm
- suitable for marking almost any material e.g. paper, glass, plastic, acrylic, wood, metal, ceramic, rubber and others - weather-proof
- also writes on greasy or damp surfaces

Art. no.	↔	kg	PU
2524/235	235	0,010	1

Carpenter's pencil

- oval
- unsharpened
- painted yellow
- length 240 mm

Art. no.	↔	kg	PU
2523/240	240	0,010	1

Sharpener

- made of plastic
- suitable for all carpenter‘s pencils Art. no. 2523 and all-purpose pencils Art. no. 2524

Art. no.	kg	PU
2522	0,010	1

Marking chalk red

- for marking wood, stone, concrete
- length 120 mm
- Ø 12 mm

Art. no.	↔	kg	PU
2525	120	0,010	1

Marking chalk yellow

- for marking wood, stone, concrete
- length 120 mm
- Ø 12 mm

Art. no.	↔	kg	PU
2525-1	120	0,010	1

Pencils & Marker

Marking chalk blue

- for marking wood, stone, concrete
- length 120 mm
- Ø 12 mm

Art. no.	⟷	kg	PU
2525-2	120	0,010	1

Soapstone crayon

- for marking metal, stone, concrete
- even on hot surfaces
- square
- length 100 mm
- width 10 mm

Art. no.	⟷	kg	PU
2526/100	100	0,028	1

Set of numbers

- Normal quality
- to be hammered into steel and iron

Art. no.	Gr.	set	kg	PU
3552/3	3	9	0,266	1
3552/4	4	9	0,320	1
3552/6	6	9	0,555	1
3552/8	8	9	0,869	1

Letter set

- Normal quality, capital letters
- to be hammered into steel and iron
- letter height 6 mm
- steel thickness 10 mm, stamp length 75 mm

Art. no.	Gr.	set	kg	PU
3562/6	6	27	1,615	1

Spirit Levels

Lightweight metal spirit level

- smooth rectangular profile, painted red
- perspex bubble tubes, leak-proof and unbreakable
- measurement surface on both sides, scale in mm and cm
- suitable for making overhead measurements
- with shock-absorbing and removable end caps, with nonslip pimples
- measurement accuracy: 0.0285° = 0.5 mm per 1 m n normal position

Art. no.	⟷	kg	PU
2836/300	300	0,180	1
2836/400	400	0,267	1
2836/600	600	0,378	1
2836/800	800	0,505	1
2836/1000	1000	0,646	1

Magnetic spirit level

- smooth rectangular profile, painted silver
- perspex bubble tubes, leak-proof and unbreakable
- with coated measurement surface, scale in mm and cm
- suitable for making overhead measurements
- with extra strong magnets for a secure hold on pipes, metal in inside walls, installations and other steel components
- with shock-absorbing and removable end caps, with nonslip pimples
- measurement accuracy: 0.0285° = 0.5 mm per 1 m in normal position

Art. no.	⟷	kg	PU
2836-1/400	400	0,299	1
2836-1/600	600	0,451	1
2836-1/800	800	0,560	1
2836-1/1000	1000	0,670	1

Spirit level

- spirit level made of ABS, painted blue
- integrated magnetic strip at the bottom
- with hanging hole
- perspex bubble tubes, leak-proof and unbreakable
- sticks on most metal surfaces

Art. no.	⟷	Width	kg	PU
2839	230	38	0,073	1

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Bracket

- steel, galvanised,rust-proof, with end stop
- long handle 1000 mm, short handle 500 mm
- handle width 32 mm, handle thickness 5 mm

Art. no.	TL long	GL short	kg	PU
2562/1000	1000	500	2,214	1

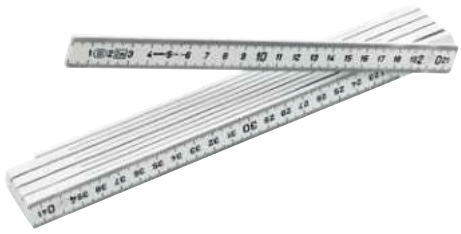
Roller tape

- full rubber housing
- nonslip
- unbreakable
- with automatic rewind
- stop button and lock
- clip

Art. no.	⟷	Bandwidth	kg	PU
2640/3	3 m	22	0,115	1
2640/5	5 m	25	0,210	1

Folding ruler

- fibreglass-reinforced polyamide
- surface glare-free
- scale in cm and mm on both sides
- precise angle adjustment in every joint
- 10 sections
- high measurement accuracy



Art. no.	⟷	Width	kg	PU
2705/2	2 m	14	0,137	1

Calliper

- polished Nirosta steel
- with 1/20 mm Nonius hardened
- back with thread and weight table
- measurement range 135 mm
- scale length 160 mm
- in plastic box

Art. no.	TMA	kg	PU
2748/135	0 - 150	0,161	1

Feeler gauge

- conical leaves in metal sheath
- leaf length 100 mm
- leaf thickness 0.05 – 1.00 mm

Art. no.	TL	TMA	kg	PU
2814/20	100	0.05 - 1	0,089	1

Plumbline

- made of woven polyethylene
- coloured, red, on a plastic roll
- thickness 1.0 mm, length 50 m

Art. no.	Ø	⟷ m	kg	PU
2861/50	1	50	0,037	1

Plumbline

- made of woven polyethylene
- coloured, red, on a plastic roll
- thickness 1.7 mm, length 50 m

Art. no.	Ø	⟷ m	kg	PU
2862/50	1,7	50	0,046	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Gloves

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Breathable protective gloves

- Nitrile coating, pimpled
- extremely grippy due to high abrasion resistance
- very comfortable to wear, hands remain cool and dry

Art. no.	size	size	kg	PU
3454/9	9	L	0,060	1
3454/10	10	XL	0,060	1
3454/11	11	XXL	0,064	1

Work gloves BRIGecko

- Premium quality
- 100 % polyamide, finely knitted
- latex-coated glove palm
- repels liquid
- excellent fit

Art. no.	size	size	kg	PU
3458/9	9	L	0,063	1
3458/10	10	XL	0,063	1

Work gloves (pig leather)

- made of pig leather
- knuckle protection
- elastic band
- size 10
- CE 89/686 EWG

Art. no.	size	size	kg	PU
3456	10,5	XL	0,105	1

Work gloves - Final assembly

- Premium quality, 100 % polyamide, finely knitted
- PU-coating, excellent fit , colour white, size 10

Art. no.	size	size	kg	PU
3459/10	10	XL	0,105	1

Cut-protection gloves

- premium quality, high-strength blended fabric, seamless
- with polyurethane inside coating.
- excellent grip, comfortable, close fit and elastic
- excellent protection (Cat. 5) when working with sharp-edged objects

CAT II, EN 388: 4-5-4-3

Art. no.	size	size	kg	PU
3451/10	10	XL	0,105	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Safety- and welder’s goggles

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Safety Glasses

Safety glasses

- soft PVC
- clear glass, curved
- especially for spectacle wearers

Art. no.	kg	PU
4255	0,062	1

Safety glasses

- single-lens glasses
- clear lens, scratsch-resistant and anti-fog
- 3M reflective strips at edge of glasses
- easy to fold up the lens
- comfortable to wear as lightweight
- optical class/impact-resistance: 1/F

Art. no.	kg	PU
4258	0,045	1

Safety glasses

- single-lens glasses
- tinted lens, scratsch-resistant and anti-fog
- 3M reflective strips at edge of glasses
- easy to fold up the lens
- comfortable to wear as lightweight
- optical class/impact-resistance: 1/F

Art. no.	kg	PU
4259	0,030	1

Safety- and welder's goggles

Safety glasses

- made of plastic
- side protection
- clear lenses, shatterproof

Art. no.	kg	PU
4266	0,060	1

Safety glasses

- attractive design
- 2 colours to choose from: silver and blue
- simple protection level

Art. no.	colour	kg	PU
4278-1	silver	0,023	1
4278-3	blue	0,023	1

Welder's tightly fitting safety goggles

- screw frame
- bead made of PVC
- with a head band
- interchangeable, green lenses
- Ø 50 mm, DIN 5A1

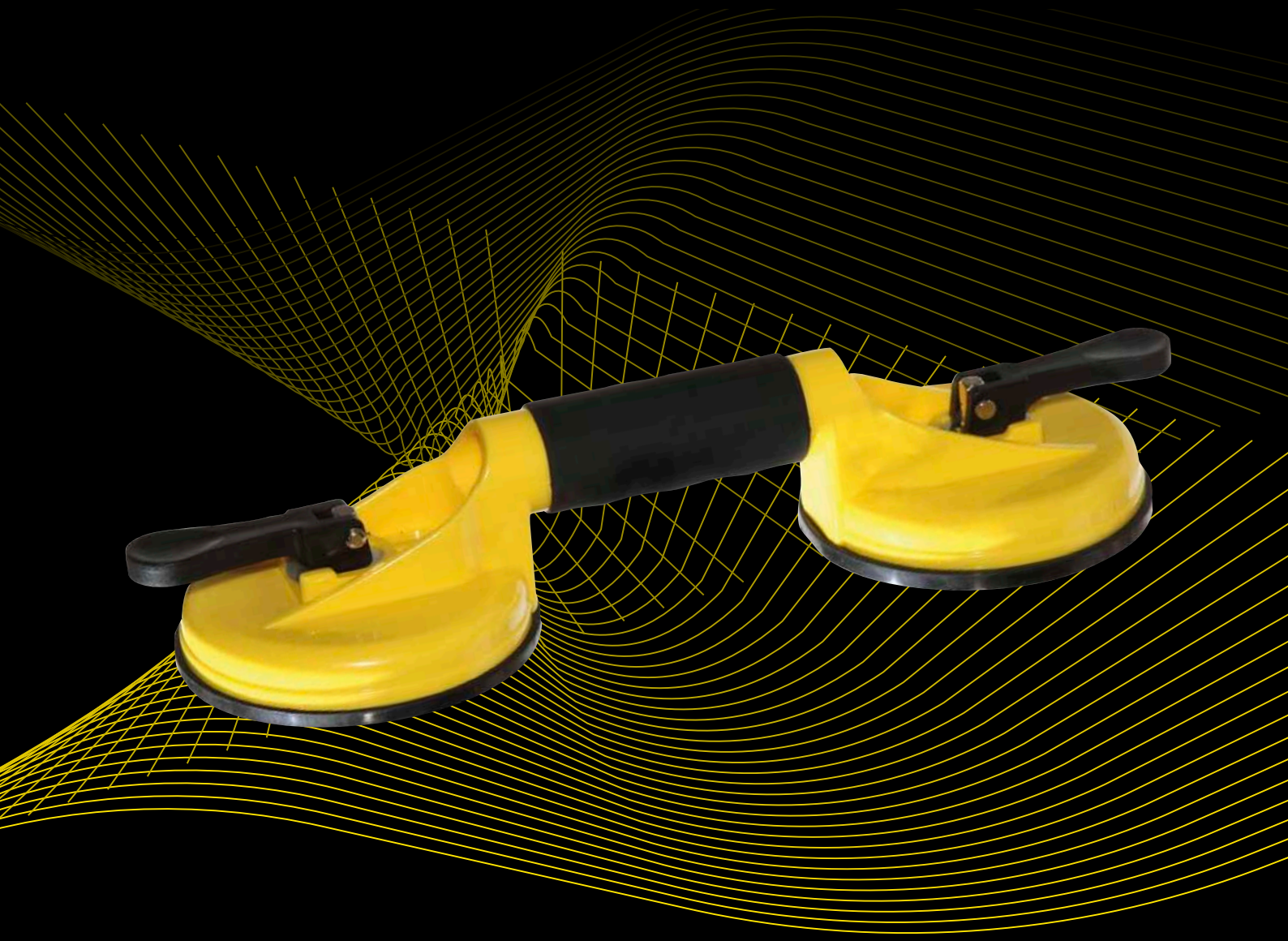
Art. no.	kg	PU
4250	0,077	1

Replacement lenses, clear

- Ø 50 mm, shatterproof
- suitable for safety goggles Art. No. 4250

Art. no.	colour	kg	PU
4262	transparent	0,034	1

Safety and load securing



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Protection

Ear muffs

- fully insulated plastic design
- frequency ranges:
  H (high) 27 dB
  M (medium) 20 dB
  L (low) 14 dB

Art. no.	dB	kg	PU
4210	24	0,170	1

Ear plugs

- unique triple flap design
- effective protection
- SNR (averaged sound insulation): 25 dB

Art. no.	dB	kg	PU
4207	25	0,011	1

Load securing

Siphon

Guaranteed the right siphon for your application with the highest degree of security
- plastic body, 2x suction disc Ø 120 mm
- load-bearing capacity: up to ↔ max. 80 kg horizontally, ↕ 40 kg vertically
- guideline value – use under the specified value recommended
- handle is covered with non-slip rubber

Can be used on all materials with smooth, sealed surfaces (e.g. panes of glass, tiles, stone, sheet steel, panels made of coated wood)

Safety information:
- the surface of the object and the suction discs must not be greasy
- before lifting a weight, carry out a test
- never walk under the load and never lift above yourself or others

Art. no.	kN	kg	PU
1180	0,39	0,600	1

Tension cable | 8 mm, length 1 m

- Rubber tension cable 8 mm thick and 100 cm long
- latex core
- with two rubberised universal wire hooks
- approved lashing capacity: 70 N ~ 7.1 kg

Art. no.	↔	Ø	kg	PU
1140/8	1000	8	0,094	10

Pipe processing

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Pipe cutter

Carbon steel, stainless steel pipe cutter

Special pipe cutter for INOX, C-steel and Cu pipes
pipes with Ø 3 35 mm or 1“, up to 3 mm wall thickness

Body
- magnesium die casting
- especially light 1/3 lighter than aluminum | almost 1/2 lighter than zinc diecast | 200 g lighter than 633-70/35 yet as strong as zinc die-cast
- best strength/weight ratio of any metal
- magnesium as raw material sufficiently available
- easily 100 % recyclable
- modern material, increasingly also used in automotive engineering
- powdercoated (not smoothly painted), thus better feel/grip for dirty (oily, greasy)/sweaty hands

Guide rollers
- needle bearing | 2 needle bearings per roller stainless steel rollers
- no more recess for cutting close to the flange, thus optimal guiding of the Inox tube

Fast running spindle
- extra strong
- zinc die casting
- high dimensional accuracy
- high surface quality (low roughness)
- easy to machine: high accuracy

Integrated rotary deburrer
- Noga deburrer (one of the best blade manufacturers in the world)
- removable, easier deburring without moving the whole RAS

Spare cutting wheel
- Art. No. 633-75A
- size: 19 x 5 mm
- additional spare wheel in the handle !!!
- change without additional tool

Handle
- zinc die casting

Cutting wheel
- needle bearing
- less resistance when turning
- clean cut

Art. no.	Ø	kg	PU
633-71/35 ✷	3 - 35	0,333	1

Replacement parts for INOX pipe cutter 633-71/35

633-75A	Cutting wheel with needle bearing | Stainless steel, carbon steel	0,004	1
633-76	Guide roller set	0,050	1
633-2	Deburrer	0,003	1
633-4	Wheel bolt	0,002	1

Ratchet cut | stainless steel, carbon steel

Problem-solver for pipes that are already installed
- specially for cutting stainless steel, carbon steel and copper pipe, Ø 8 – 28 mm
- the fine ratchet functions makes it easy to cut the pipes
- easy to adjust the spindle
- replacement cutting wheel Art. no. 622-1

Art. no.	Ø	kg	PU
622/28	8 - 28	0,479	1

Replacement parts for ratchet cut 622/28

622-1	Cutting wheel Stainless steel, carbon steel	0,002	1

Mini pipe cutter

For stainless steel, copper and brass pipes Ø 3 – 16 mm, 1/8 – 5/8“
- 1 cutting wheel Art. no. 632-1
- particularly suitable for working in places that are difficult to access

Art. no.	Ø	kg	PU
631 ✷	3 - 16	0,132	1

Replacement parts for mini pipe cutter 631

632-1	Cutting wheel | Stainless steel, copper, brass	0,005	1
632-11	Cutting wheel | Copper, brass	0,055	1
631-2	Roller	0,004	1
631-3	Roller bolts	0,001	1
631-4	Wheel bolt	0,002	1

Pipe cutter

Miniature pipe cutter

For stainless steel, copper and brass pipes
Ø 3 – 25 mm, 1/8 – 1“
- 1 cutting wheel Art. no. 632-1
- particularly suitable for working in places that are difficult to access

Art. no.	Ø	kg	PU
631-5	3-25	0,144	1

Replacement parts for miniature pipe cutter 631-5

632-1	Cutting wheel | Stainless steel, copper, brass	0,005	1
632-11	Cutting wheel | Copper, brass	0,055	1
631-52	Roller	0,008	1
631-53	Roller bolts	0,003	1
631-54	Wheel bolt	0,002	1

Compact pipe cutter

For pipes Ø 3 – 30 mm, 1/8 – 1 1/8“
- particularly suitable for working in places that are difficult to access
- 1 cutting wheel for stainless steel, copper, brass pipes Art. no. 632-1
- 1 replacement wheel in hand wheel

Art. no.	Ø	kg	PU
631-10	3 - 30	0,222	1

Replacement parts for compact pipe cutter 631-10

632-1	Cutting wheel | Stainless steel, copper, brass	0,005	1
632-11	Cutting wheel | Copper, brass	0,055	1
631-12	Roller	0,004	1
631-13	Roller bolts	0,001	1
631-14	Wheel bolt	0,012	1

Pipe cutter with deburrer for stainless steel, copper and brass pipes, plastic and composite pipes

With extra strong fast running spindle
- 4-roller guide with groove for beading
- integrated rotation deburrer
- made of die-cast magnesium, particularly light
- 1 cutting wheel for stainless steel, copper and brass pipes, Art. no. 632-1
- 1 cutting wheel for plastic and composite pipes, Art. no. 633-1 (only integrated in the handle of Art. no. 633/35)

Art. no.	Ø	kg	PU
633/35 ✷	3 - 35	0,338	1
633/45	9 - 45	0,621	1

Replacement parts for pipe cutter with deburrer 633

633-1	Cutting wheel | Plastic, composite	0,004	1
632-1	Cutting wheel | Stainless steel, copper, brass	0,005	1
632-11	Cutting wheel | Copper, brass	0,055	1
633-2	Deburrer	0,003	1
633-3	Roller	0,012	1
633-4	Wheel bolt	0,002	1

Combination pipe cutter with deburrer

For pipes Ø 6 – 67 mm, 1/4 – 2 1/2“
- rapid spindle adjustment
- 1 cutting wheel for plastic and composite pipe, Art. no. 627-1
- 1 cutting wheel for stainless steel, copper, brass and hard plastic pipe (up to 2 mm), Art. no. 627-2

Art. no.	Ø	kg	PU
627	6 - 76	0,888	1

Replacement parts for combination pipe cutter 627

627-1	Cutting wheel | Plastic, composite (up to 6 mm)	0,007	1
627-2	Cutting wheel | Stainless steel, copper, brass, steel	0,005	1
627-4	Wheel bolt	0,002	1
627-5	utting wheel | Plastic, composite (up to 8 mm)	0,005	1

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Pipe cutter

INOX pipe cutter Plus with deburring unit

Special pipe cutter for INOX pipes Ø 6 – 76 mm, 1/4 – 3“
- Quick spindle adjustment

Integrated rotation deburring unit
- Noga deburring unit (one of the world’s best manufacturers of blades)
- detachable, easy deburring without having to move the entire RAS

Guide rolls
- 4 guide rolls made of INOX steel for optimum hold of the pipe
- guide rolls with needle bearings | 2 needle bearings per roll - stainless steel rolls
- no more prior puncturing for cuts close to the seam, this allows optimum guidance of the Inox pipe

Cutting wheel
- fast exchange of cutting wheels without tools
- cutting wheel with needle bearings for INOX, Art. No. 627-71
- size: 19 x 6,2 mm
- extra spare wheel in the handle !!!

Art. no.	Ø	kg	PU
627-70	6 - 76	0,944	1

Replacement parts for INOX pipe cutter plus 627-70

627-71	Cutting wheel | Stainless steel	0,000	1
627-4	Wheel bolt	0,002	1

Pipe cutter

For steel pipes with up to 7 mm wall thickness, in particular for galvanised pipes
- body made of forged steel
- specially sprung roller guide to protect the cutting wheel
- Pipe Ø 10 – 60 mm | 1/8 - 2“
- Pipe Ø 32 – 115 mm | 1 1/4 - 4“

Art. no.	Ø	kg	PU
629/2	10 - 60	2,500	1
629/4	32 - 115	5,300	1

Replacement parts for pipe cutter 629-2

629-1/2	Cutting wheel | Steel	0,025	1
629-2/2	Roller	0,118	1
629-3/2	Roller bolts	0,024	1
629-4/2	Wheel bolt	0,019	1

Replacement parts for pipe cutter 629-4

629-1/4	Cutting wheel | Steel	0,054	1
629-2/4	Roller	0,151	1
629-3/4	Roller bolts	0,025	1
629-4/4	Wheel bolt	0,020	1

Ratchet cut | Plastic

Problem-solver for pipes that are already installed
- specially for cutting plastic pipes Ø 31 – 65 mm, up to 3 mm wall thickness
- Ideal for cutting plastic pipes in narrow shafts and with small gaps to the wall, such as when working on swimming pools

Art. no.	Ø	kg	PU
622/63	31 - 65	1,104	1

Replacement parts for ratchet cut 622/63

627-1	Cutting wheel | Plastic, composite (up to 6 mm)	0,007	1
627-2	Cutting wheel | Stainless steel, copper, brass, steel	0,005	1

Plastic pipe cutter

- quick adjustment
- for thick-walled plastic pipes (PE, PP, PVDF) Ø 50 – 140 mm

Art. no.	Ø	kg	PU
628/140	50 - 140	1,480	1

Replacement parts for plastic pipe cutter 628/140

628-1	Cutting wheel | Plastic, multi-layer composite	0,026	1

Cutting Wheels

Cutting wheel | Stainless steel

- replacement cutting wheel suitable for stainless steel
- suitable for:
  Art. no. 627-70

Art. no.	Inside Ø	Outside Ø	strength	kg	PU
627-71	19	5	5	0,000	1

Cutting wheel | Plastic

- especially for plastic and composite pipe with up to 6 mm wall thickness and for hard plastics with up to 2 mm wall thickness
- suitable for:
  Art.-no. 627
  Art.-no. 622/63

Art. no.	Inside Ø	Outside Ø	strength	kg	PU
627-1	25	5	6	0,007	1

Cutting wheel | Stainless steel

- 627-2 especially for INOX, copper, brass, steel
- suitable for:
  Item no. 627
  Item no. 622/63

Art. no.	Inside Ø	Outside Ø	strength	kg	PU
627-2	20	5	6	0,005	1

Cutting wheel | Plastic

- for plastic and composite pipes up to 8 mm wall thickness
- suitable for:
  Art. no. 627

Art. no.	Outside Ø	Inside Ø	strength	kg	PU
627-5	5	30	6	0,005	1

Cutting wheel | Stainless steel, carbon steel, copper

- replacement cutting wheel suitable for stainless steel and carbon steel
- suitable for: Art. no. 622/28

Art. no.	Inside Ø	Outside Ø	strength	kg	PU
622-1	19	6	3	0,002	1

Cutting wheel | Stainless steel, carbon steel, copper

- replacement cutting wheel with needle bearing
- suitable for stainless steel, carbon steel, copper
- suitable for:
  Art. no. 633-71/35

Art. no.	Inside Ø	Outside Ø	strength	kg	PU
633-75A	19	5	5	0,004	1

Cutting wheel | Stainless steel, carbon steel, copper

- replacement cutting wheel with needle bearing
- suitable for stainless steel, carbon steel, copper
- suitable for:
- Art. no. 633-70/35

Art. no.	Inside Ø	Outside Ø	strength	kg	PU
633-75	19	5	8	0,011	1

Cutting wheel | Stainless steel, copper, brass

- replacement cutting wheel suitable for stainless steel, copper and brass
- suitable for:
  Art. no. 631
  Art. no. 631-5
  Art. no. 631-10
  Art. no. 633/35
  Art. no. 633/45

Art. no.	Inside Ø	Outside Ø	strength	kg	PU
632-1	20	5	5	0,005	1

Cutting wheel | Copper, brass

- replacement cutting wheel suitable for Kupfer und Messing
- suitable for:
  Art. no. 631
  Art. no. 631-5
  Art. no. 631-10
  Art. no. 633/35
  Art. no. 633/45

Art. no.	Inside Ø	Outside Ø	strength	kg	PU
632-11	20	5	5	0,006	1

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Cutting Wheels

Cutting wheel | Plastic, composite

- replacement cutting wheel suitable for plastic, composite
- suitable for:
  Art. no. 633/35
  Art. no. 633/45

Art. no.	Inside Ø	Outside Ø	strength	kg	PU
633-1	12	5	5	0,004	1

Cutting wheel | Steel

- suitable for:
  Art. no. 629

Art. no.	Inside Ø	Outside Ø	strength	kg	PU
629-1/2	31	9	19	0,025	1
629-1/4	41,5	9	19	0,054	1

Cutting wheel | Plastic

- especially for thick-walled, hard plastic and multi-layer composite pipe
- suitable for:
  Art. no. 628

Art. no.	Inside Ø	Outside Ø	strength	kg	PU
628-1	53	8	11	0,026	1

Composite pipe | Plastic pipe shears

Plastic pipe scissors

For one-hand operation with automatic blade retraction
- for Ø 6 – 35 mm
- for separating hard and soft plastic pipes, cable ducts, fibre-reinforced plastic and rubber hoses, pipes made of composite material and polypropylene
- little strength required due to ratchet technology
- straight and distortion-free, right angles cuts
- no problem blade change

Art. no.	Ø	kg	PU
634/35	6 - 35	0,584	1

Replacement blade | Plastic pipe scissors

- blades suitable for plastic pipe scissors Art. no. 634

Art. no.	Ø	kg	PU
634-1/35	6 - 35	0,094	1

Automatic plastic tube shears

- with ratchet mechanism
- for tubes in PVC, PE, PD, PEX, PVDF with a wall thickness of up to 2 mm and composite tubes
- single-hand operation and recoil-free ratchet mechanism, high safety standard
- durable blade made of tempered steel with a precise angle for easy cutting of plastic tubes, with V-cut
- little power required thanks to special teeth design
- precise pinpoint cut without deformation of the tubes, wide tube base
- rubber-coated handle and powder-coating for a secure hold without slipping
- transport lock and latch
- blade with fast retraction
- easy blade exchange

VIDEO 635/35

Art. no.	Ø	kg	PU
635/35 ✷	35	0,400	1
635/42	42	0,420	1

Replacement blade | Plastic pipe scissors

- blades suitable for plastic pipe shears Art. no. 635

Art. no.	Width	kg	PU
635-10/35	35	0,083	1
635-10/42	42	0,093	1

Pipe deburrer plastic pipes

- for internal and external deburring of hard and thick-walled plastic pipes, Ø 25 – 63 mm
- stiff aluminium housing with special blades
- particularly suitable for swimming pool construction

Art. no.	Ø	kg	PU
647/63	25 - 63	0,379	1

Pipe deburrer

- for internal and external deburring of copper, aluminium and plastic pipes Ø 4 – 35 mm
- string plastic housing
- simple design

Art. no.	Ø	kg	PU
646	4 - 35	0,035	1

Pipe deburrer

- for internal and external deburring of stainless steel, brass, aluminium and plastic pipes
- robust quality tool: stiff aluminium housing and very fine deburrer blade

Art. no.	Ø	kg	PU
648/35	8 - 35	0,190	1
648/54	10 - 54	0,480	1

Calibration tool

- Calibration ring and mandrel
- Hardened and ground
- for non-dimensionally stable copper pipes

Art. no.	Ø	kg	PU
638/12	12	0,085	1
638/15	15	0,170	1
638/18	18	0,214	1
638/22	22	0,298	1

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Hydraulic pipe bending set | Combined

Supplied in a strong plastic case:
1 hydraulic hand pipe bending tool
9 bending segments, aluminium pressure die-casting, 10, 12, 15, 16, 18, 20, 22, 26, 32 mm
5 dollys
- for soft copper pipes, sheathed copper and soft steel pipes Ø 10 – 22 mm
- for stainless steel pipes Ø 10 – 15 mm
- for composite pipes Ø 12 – 32 mm
- bends up to 90°
- bending radius 4 x diameter
- to refill the oil, please use „Shell Morlina S2 BL 10“ (formerly „Shell Tellus C 10“)

Art. no.	quantity	Ø	kg	PU
637-10	15	10 - 32	8,404	1

Hydraulic pipe bending set | Basic composite

Supplied in a strong plastic case:
1 hydraulic hand pipe bending tool
4 bending segments, die-cast aluminium, 16, 20, 26, 32 mm
4 dollies
- for composite pipes Ø 12 – 32 mm
- bends up to 90°
- bending radius 4 x diameter
- to refill the oil, please use „Shell Morlina S2 BL 10“ (formerly „Shell Tellus C 10“)

Art. no.	quantity	Ø	kg	PU
637-20	9	16 - 32	7,433	1

Hydraulic pipe bending set imperial HRB-Z

The hydraulic pipe bending set imperial enables easy and smooth bending of soft, semi-hard, and coated copper and mild steel pipes with imperial outer dimensions. This avoids soldering-press connections and potential leaks. A standard bending radius is maintained with this hydraulic tube bending set.

NEW

- For soft, semi-hard, and coated copper and mild steel pipes Ø 1/4” – 7/8”
- For stainless steel pipes Ø 1/4” – 1/2” • For composite pipes Ø 1/4” – 7/8”
- Bends up to 90°; bending radius 4x diameter

Set of 11, comprising:
- Hydraulic manual pipe bending device
- Bending segments, aluminium die-casting, 1/4” 5/16” 3/8” 1/2” 5/8” 3/4” 7/8”, counter-holder

Art. no.	set	kg	PU
637-30	11	5,460	1

Hydraulic pipe bending set metric HRB-M

The hydraulic pipe bending set metric enables easy and smooth bending of soft, semi-hard, and coated copper and mild steel pipes with metric outer dimensions. This avoids soldering-press connections and potential leaks. A standard bending radius is maintained with this hydraulic tube bending set.

NEW

- For soft, semi-hard, and coated copper and mild steel pipes Ø 10 - 22 mm
- For stainless steel pipes Ø 10 - 15 mm
- For composite pipes Ø 12 - 22 mm
- Bends up to 90°; bending radius 4x diameter

Set of 9, comprising:
- Hydraulic manual pipe bending device
- Bending segments, aluminium die-casting, 10, 12, 15, 18, 22 mm, 3 counter-holder

Art. no.	set	kg	PU
637-40	9	5,620	1

Bending segment pipes metric

- bending segments of aluminium injection moulding suitable for hydraulic pipe bending devices
- bending radius 4x diameter

Art. no.	Ø	kg	PU
637-1/10	10	0,099	1
637-1/12	12	0,112	1
637-1/14	14	0,125	1
637-1/15	15	0,127	1
637-1/16	16	0,140	1
637-1/17	17	0,142	1
637-1/18	18	0,187	1
637-1/20	20	0,190	1
637-1/22	22	0,200	1
637-1/26	26	0,099	1
637-1/32	32	0,099	1

Bending segment pipes imperial

- bending segments of aluminium injection moulding suitable for hydraulic pipe bending devices
- bending radius 4x diameter

Art. no.	Ø "	kg	PU
637-31/1/4	1/4	0,093	1
637-31/5/16	5/16	0,092	1
637-31/3/8	3/8	0,080	1
637-31/1/2	1/2	0,130	1
637-31/5/8	5/8	0,152	1
637-31/3/4	3/4	0,196	1
637-31/7/8	7/8	0,222	1

Dollies

- relevant dollies for hydraulic pipe bending devices
- replacement screws, Art. no. 637-4
- replacement nuts, Art. no. 637-2

Art. no.	Ø	kg	PU
637-6/1	10 - 12	0,334	1
637-6/2	14 - 17	0,363	1
637-6/3	18 - 22	0,452	1
637-6/4	26	0,452	1
637-6/5	32	0,452	1
637-2	Spare nut	0,010	1
637-4	Spare screw	0,002	1

Counterholder imperial

Art. no.	Ø "	kg	PU
637-36/1	1/4 - 5/16	0,346	1
637-36/2	3/8 - 5/8	0,374	1
637-36/3	3/4 - 7/8	0,456	1

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Copper pipe bending pliers

- for soft copper pipes and chrome-plated copper pipes
- for bending up to 180°
- with graduation on bending segment
- light design

Art. no.	Ø	kg	PU
636-1/10	10	0,799	1
636-1/12	12	0,828	1

Copper pipe bending springs

- galvanised
- for bending by hand
- for soft and soft chrome-plated copper

Art. no.	Ø	⟷	kg	PU
701/8	8	250	0,107	1
701/10	10	250	0,123	1
701/12	12	300	0,170	1
701/15	15	300	0,268	1
701/16	16	300	0,272	1

Expander set imperial EXP-Z

With the imperial expander set, copper pipes with inch dimensions can be correctly expanded to insert a copper pipe of the same diameter and connect it with brazing.

NEW

Expander tool for refrigeration technology only!

Set of 9, comprising:

- Expander 1/4“, 3/8“, 1/2“, 5/8“, 3/4“, 7/8“, 1“, 1-1/8“
- Manual pipe expander with copper pipes

Art. no.	set	kg	PU
720-30	9	2,940	1

Expander set metric EXP-M

With the metric expander set, copper pipes with metric dimensions can be correctly expanded to insert a copper pipe of the same diameter and connect it with brazing.

NEW

Set of 9, comprising:

- Expander 6 – 10 – 12 – 16 – 19 – 22 – 25 – 28 mm
- Manual pipe expander with copper pipes

Art. no.	set	kg	PU
720-40	9	2,940	1

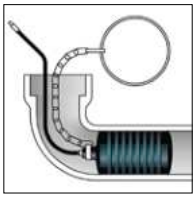
Pipe cleaning

BRINKO
powered by haupa

Shut-off bubbles

Sealing balloon

- easily seal pipes
- pneumatic sealing system for various pipe diameters
- insert, inflate, work
- suitable for compressed air hose Art. No. 3800-2 and to the air pump with manometer Art. No. 3800-3



Art. no.	⟷	Ø	kg	PU
3800-1/1	140	30 - 50	0,137	1
3800-1/2	135	50 - 80	0,210	1
3800-1/3	120	70 - 100	0,276	1
3800-1/4	230	90 - 150	0,722	1

Compressed air hose

- extension hose for sealing bubbles
- to regulate the pressure outside of the danger zone
- length 3 m

Art. no.	⟷	kg	PU
3800-2	3 m	0,330	1

Air pump with manometer

- suitable for sealing bubbles Art. no. 3800-1

Art. no.	kg	PU
3800-3	1,554	1

Shut-off disks

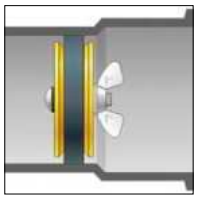
Plug for inner pipe

Mechanical pipe sealing system for inner pipe
- ideal for sealing drain pipes and for long-term applications
- easy to insert and secure due to extra large wing nut
- resistant to use and waste water
- suitable for all types of pipest
- maximum counterpressure: 1.2 bar or 12 m
- Housing made of glass-fibre reinforced ABS plastic
- sealing ring based on natural rubber
- Galvanised threaded screw and wing nut - corrosion-resistant

Original Gripper - tested and proven, the most preferred mechanical shut-off discs on the market

Maximum Counter Pressure 1,2 bar corresponds to a 12 m water column

* 1.2 bar corresponds to a 12 m water column



Art. no.	Ø	kg	PU
3806/1	100	0,240	1
3806/2	150	0,802	1
3806/3	200	1,002	1

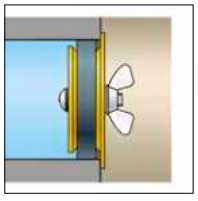
Plug for end pipe

Mechanical pipe sealing system for end pipe
- ideal for sealing drain pipes and for long-term applications
- easy to insert and secure due to extra large wing nut
- resistant to use and waste water
- suitable for all types of pipest
- maximum counterpressure: 1.2 bar or 12 m
- Housing made of glass-fibre reinforced ABS plastic
- sealing ring based on natural rubber
- Galvanised threaded screw and wing nut - corrosion-resistant

Original Gripper - tested and proven, the most preferred mechanical shut-off discs on the market

Maximum Counter Pressure 1,2 bar corresponds to a 12 m water column

* 1.2 bar corresponds to a 12 m water column



Art. no.	Ø	kg	PU
3805/1	40	0,075	1
3805/2	50	0,100	1
3805/3	75	0,229	1
3805/4	100	0,295	1
3805/5	150	0,812	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Pipe cleaning pump

- Suction and pressure cleaner for blocked pipes
- short attachment for washbasins and sinks
- long attachment for WC

Art. no.	kg	PU
3722 ✷	1,700	1

Pipe cleaning tool

- Cleaning tool for manual and machine operation
- for pipes Ø 30 – 50 mm
- shaft made of galvanised spring steel, 7.5 m x 8 mm
- strong plastic housing with handle
- hexagonal shank to clamp into rotational speed controlled electric drill or cordless screwdriver
- can be locked into place and any length with a quick clamp chuck Art. no. 3720-2

Art. no.	⟷	Ø	kg	PU
3720	7,5 m	30 - 50	3,500	1

Replacement shaft

- suitable for pipe cleaning device

Art. no. 3720

- galvanised spring steel
- 7.5 m x 8 mm

Art. no.	⟷	Ø	kg	PU
3720-1	7,5 m	30 - 50	2,000	1

Quick release chuck

- suitable for pipe cleaning device Art. no. 3720
- new article from 2025

Art. no.	Ø	kg	PU
3720-2	30 - 50	0,177	1

Pipe cleaning shaft

- single layer
- for household use and simple work

Art. no.	⟷	Ø	kg	PU
3700/3 ✷	3 m	5	0,265	1
3700/5	5 m	5	0,652	1

Pipe cleaning shaft

- single layer
- for simple work

Art. no.	⟷	Ø	kg	PU
3701/3	3 m	9	1,085	1
3701/5	5 m	9	1,393	1
3701/10	10 m	9	2,720	1

Pipe cleaning shaft

- 3/8“ Whitworth thread
- crank can be replaced
- fixed claw
- coupling made of steel
- rotary hand protection

Art. no.	⟷	Ø	kg	PU
3714/5	5 m	8	1,700	1
3714/10	10 m	8	3,200	1

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Pipe Cleaning

Pipe cleaning shaft

- double layer
- adjustable handle

Art. no.	⟷	Ø	kg	PU
3702/5 ✸	5 m	7	1,250	1
3702/8	8 m	7	1,897	1

Pipe cleaning shaft

- 1/2“ Whitworth thread
- claw and crank can be replaced
- couplings made of steel
- rotary hand protection

Art. no.	⟷	Ø	kg	PU
3712/5x10	5 m	10	2,750	1
3712/5x15	5 m	15	6,350	1
3712/10x12	10 m	12	7,200	1
3712/10x15	10 m	15	11,300	1

Pipe cleaning shaft

- 1/2“ Whitworth thread
- suitable for pipe cleaning shaft Art. no. 3712

Art. no.	⟷	Ø	kg	PU
3713/5x10	5 m	10	2,750	1
3713/5x12	5 m	12	3,400	1
3713/10x10	10 m	10	4,700	1
3713/10x12	10 m	12	6,500	1

Water pressure drain cleaner

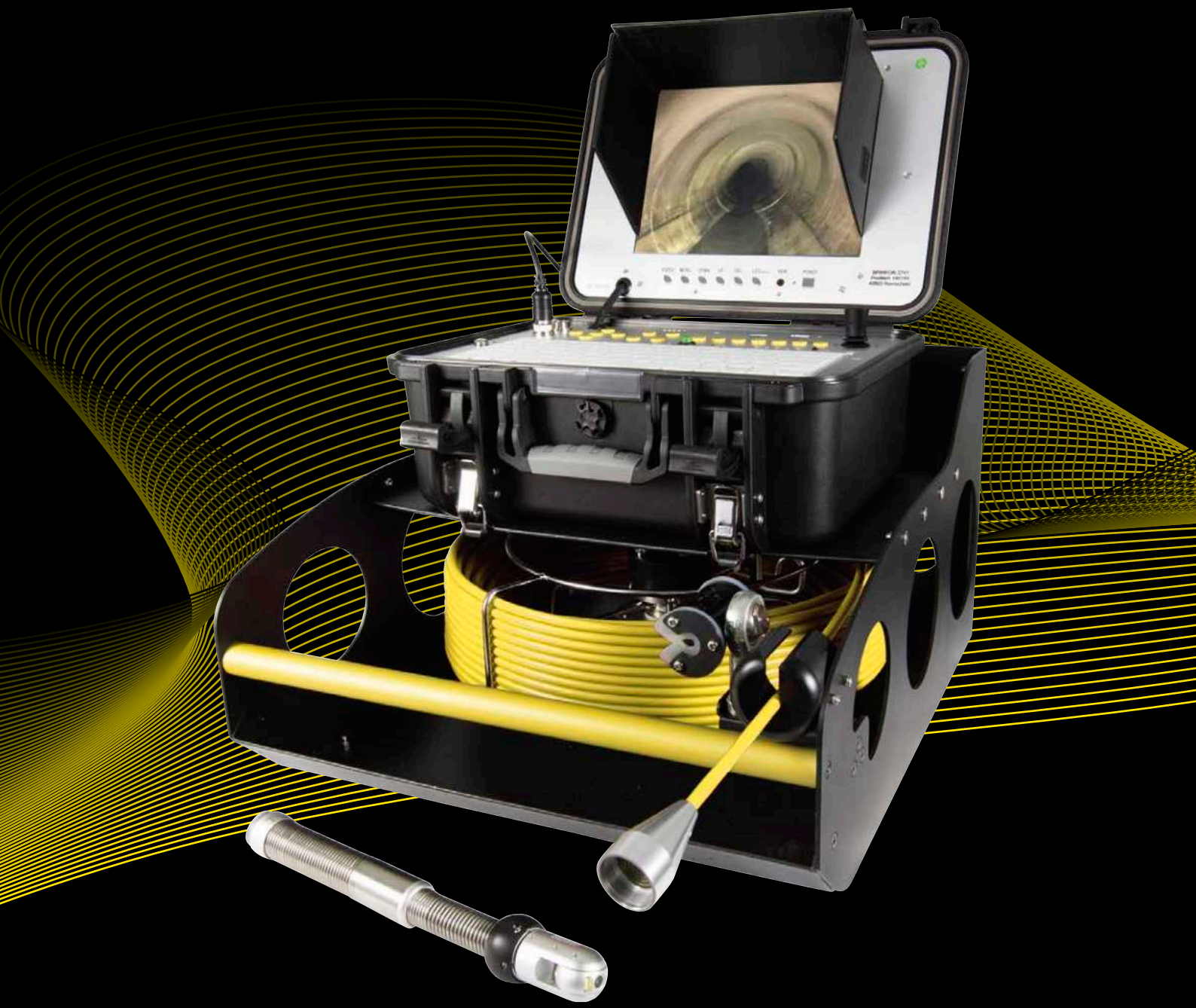
- Ingeniously removes blockages in drainpipes with high pressure water
- for pipes Ø 40 – 150 mm
- including 1.5 m hose with adaptor, hose connection 1/2“ x 3/4“ IG
- patented pressure balloon

Art. no.	Ø	Ø	kg	PU
3730/1	35	40 - 80	0,350	1
3730/2	76	80 - 150	0,627	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Inspection systems



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HD-Hand Inspection Camara BRIcamS

The BRIcamS HD inspection camera with its 5-inch LCD HD screen and camera head measuring just 8 mm is one of the most effective endoscopes on the market.
The high-quality CMOS sensor (camera), with a resolution of 1280 x 720 pixels, in conjunction with the screen in HD resolution either 1920 x 1080 or 1280 x 720.

- Single photo and video recording on micro SD card for later review
- Triple LED brightness adjustment of camera light and screen illumination
- Waterproof camera cable IP67
- 1 meter camera cable
- 4000 mAh and 3.7 volt lithium-ion battery provides up to 5 hours of standby time
- Supports seven languages: German, English, French, Spanish, Italian, Japanese, Chinese

Content:
- Display handset
- 1 meter camera cable
- operating instructions
- Screwable hook, magnet, -90° mirror
- USB-C charging cable
- USB charger
- storage case

Art. no.	Cable length m	kg	PU
3780	1	1,390	1

Accessories for BRIcamS 3780

3780-1/5	Camera head with 5 m cable, flexible	0,540	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Pipe inspection camera system BRIcamM, length 10 m

The BRINKO pipe inspection camera system BRIcamM with a 12 mm camera head offers easy operation and lightweight portability, making it one of the smallest camera systems with recording capability on the market.

The steel reel ensures high durability,
while nothing remains hidden on the 10“ TFT monitor thanks to the 1280 x 800 pixel resolution. The integrated Li-Ion battery can operate for up to 4 hours
The BRIcamL is equipped with a multifunctional control panel with a QWERTZ keyboard for entering text, and also an integrated microphone for recording speech when recording videos on an SD card or USB stick.
Thanks to the 1-meter long video cable to the steel reel, the robust and waterproof control case is independent of location.
The supplied remote control also helps with difficult setup configurations.
The camera head of the BRIcamM is ideal for pipes from DN20 (without bends) to DN110, and integrated, dimmable LEDs ensure excellent illumination.

Content:
- Stainless steel camera head Ø 12 mm, IP68
- Push rod Ø 4.8 mm | Length 10 m
- Steel reel, 4-pin camera connector
- Multifunctional control device in the IP68 case
- 10“ TFT monitor with USB/SD recording (photo, video, voice)
- 6600 mAh Li-Ion battery, charger/power supply
- Guide ball for camera head
- Video cable 1 meters 4-pin
- Remote control

Art. no.	Camera head Ø mm	Cable length m	kg	PU
3752/10	12	10	6,680	1

Pipe inspection camera system BRIcamM, length 20 m

The BRINKO pipe inspection camera system BRIcamM with a 12 mm camera head offers easy operation and lightweight portability, making it one of the smallest camera systems with recording capability on the market.

The steel reel ensures high durability, while nothing remains hidden on the 10“ TFT monitor thanks to the 1280 x 800 pixel resolution. The integrated Li-Ion battery can operate for up to 4 hours
The BRIcamL is equipped with a multifunctional control panel with a QWERTZ keyboard for entering text, and also an integrated microphone for recording speech when recording videos on an SD card or USB stick.
Thanks to the 1-meter long video cable to the steel reel, the robust and waterproof control case is independent of location.
The supplied remote control also helps with difficult setup configurations.
The camera head of the „BRIcamM“ is ideal for pipes from DN20 (without bends) to DN110, and integrated, dimmable LEDs ensure excellent illumination.
The Art.No. 3752/20 includes an integrated meter counter in addition to 20 m of push rod, which assists in locating the fault.

Content:
- Stainless steel camera head Ø 12 mm, IP68
- Push rod Ø 4.8 mm | Length 20 m
- Steel reel, meter counter, 4-pin camera connector
- Multifunctional control device in the IP68 case
- 10“ TFT monitor with USB/SD recording (photo, video, voice)
- 6600 mAh Li-Ion battery, charger/power supply
- Guide ball for camera head
- Video cable 1 meters 4-pin
- Remote control

Art. no.	Camera head Ø mm	Cable length m	kg	PU
3752/20	12	20	6,900	1

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BRIcamL pipe inspection camera system

BRINKO pipe inspection camera system BRIcamL with swivelling camera head, only 28 mm diameter and 40 m fiberglass push cable, intelligent, compact design, paired with simple operation and easy transport thanks to aluminum frame.
Complete with transmitter module, this waterproof system can be used from DN70 to DN160 and can be tracked and localized by locating devices operating at 512 Hz. The camera head of the BRIcamL can be rotated through 360° and swivelled through 210° and is self-levelling, enabling precise tracing of connections and checking of branches. The display unit is housed in a robust, watertight and airtight plastic case and can be separated from the push cable unit in cramped working conditions or for better transportation.
The 10“ TFT monitor, with a resolution of 1280 x 800 pixels, detects even the smallest damaged areas and also displays the number of meters.
The BRIcamL is equipped with a multifunctional control panel with QWERTY keyboard for text input, as well as an integrated microphone for voice recording during video recording on SD card or USB stick.
Even for cleaning the push cable after use, this intelligent system has a device that removes the adhering water and impurities when the fiber optic cable is pushed back. These are collected in the watertight base body, which can then be emptied outdoors.
Integrated, dimmable LEDs ensure excellent illumination.
By unscrewing the transmitter unit and inserting an optional adapter, it can be used from DN50 (without bends).
This system can also be operated with a 10 or 20 meter long steel reel with Ø 12 mm camera head (use from DN20, without bends).

Content:
- **360°/210° rotating/pivoting camera head Ø 28 mm, IP68**
- Camera cable Ø 7 mm | length 40 m
- Steel reel with meter counter, cleaning device
- 512 Hz transmitter
- Multifunctional control unit in IP68 case
- 10“ TFT monitor with USB/SD recording (photo, video, voice)
- Control buttons for swiveling camera head
- 6600 mAh Li-Ion battery (for approx. 4 hours of operation), charger/mains adapter
- Guide ball and guide stars for camera head in larger tube dimensions
- Video cable 1 meter 6-pin
- Remote control

Art. no.	Camera head Ø mm	Cable length m	kg	PU
3741	28	40	17,080	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Camera head set Ø 12 mm, length 10 m

Small camera head Ø 12 mm for pipe and house connections, as well as cavities

- **As an extension to pipe inspection camera system BRIcamL**
- **As a replacement for pipe inspection camera system BRIcamM**
- Camera head Ø 12 mm
- Camera cable Ø 4.8 mm | Length 10 m
- incl. steel reel
- 4-pin connection cable
- Application range DN20 - DN110

Art. no.	Camera head Ø mm	kg	PU
3750/10	12	1,260	1

Camera head set Ø 12 mm, length 20 m

Small camera head Ø 12 mm for pipe and house connections, as well as cavities

- **As an extension to pipe inspection camera system BRIcamL**
- **As a replacement for pipe inspection camera system BRIcamM**
- Camera head Ø 12 mm
- Camera cable Ø 4.8 mm | Length 20 m
- incl. steel reel and meter counter
- 4-pin connection cable
- Application range DN20 - DN110

Art. no.	Camera head Ø mm	kg	PU
3750/20	12	1,860	1

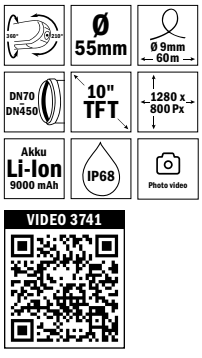
BRIcamXL pipe inspection camera system

The BRINKO pipe inspection camera system BRIcamXL with 55 mm, swiveling camera head, intelligent design, paired with simple operation and easy transport thanks to a slim aluminum frame with castors, is one of the best camera systems on the market.

The reel is made of steel and guarantees a long service life.
The integrated meter counter helps to locate the fault. Thanks to the resolution of 1280 x 800 pixels, nothing remains hidden on the 10“ TFT monitor. The integrated Li-Ion battery lasts up to 4 hours.
The BRIcamXL is equipped with a multifunctional control panel with QWERTY keyboard for text input, as well as an integrated microphone for voice recording during video recording on SD card or USB stick, and a joystick for camera control.
The robust control case is removable and can be placed next to the cable unit thanks to the 1.5 meter long video cable.
The remote control supplied also supports difficult set-up constellations.
The camera head of the BRIcamXL is self-tilting and can be rotated through 360° and swiveled through 210°, making it ideal for pipes from DN70 (without bends) - DN450.
The integrated dimmable LEDs ensure excellent illumination. The integrated 512 Hz transmitter also makes it possible to locate the camera head in the ground and in concrete.

Content:

- **360°/210° rotating/pivoting camera head Ø 55 mm, IP68**
- Push cable Ø 9 mm | length 60 m
- Steel reel, meter counter, 8-pin camera connection
- 512 Hz transmitter
- Multifunctional control unit in IP68 case
- 10“ IPS HD display with USB/SD recording (photo, video, voice)
- Joystick for swiveling camera head
- 9 Ah Li-Ion battery (for approx. 4 hours of operation), charger/mains adapter
- Guide ball and star for camera head
- Video cable 1.5 meter 8-pin
- Remote control



Art. no.	Camera head Ø mm	Cable length m	kg	PU
3760	55	60	33,400	1

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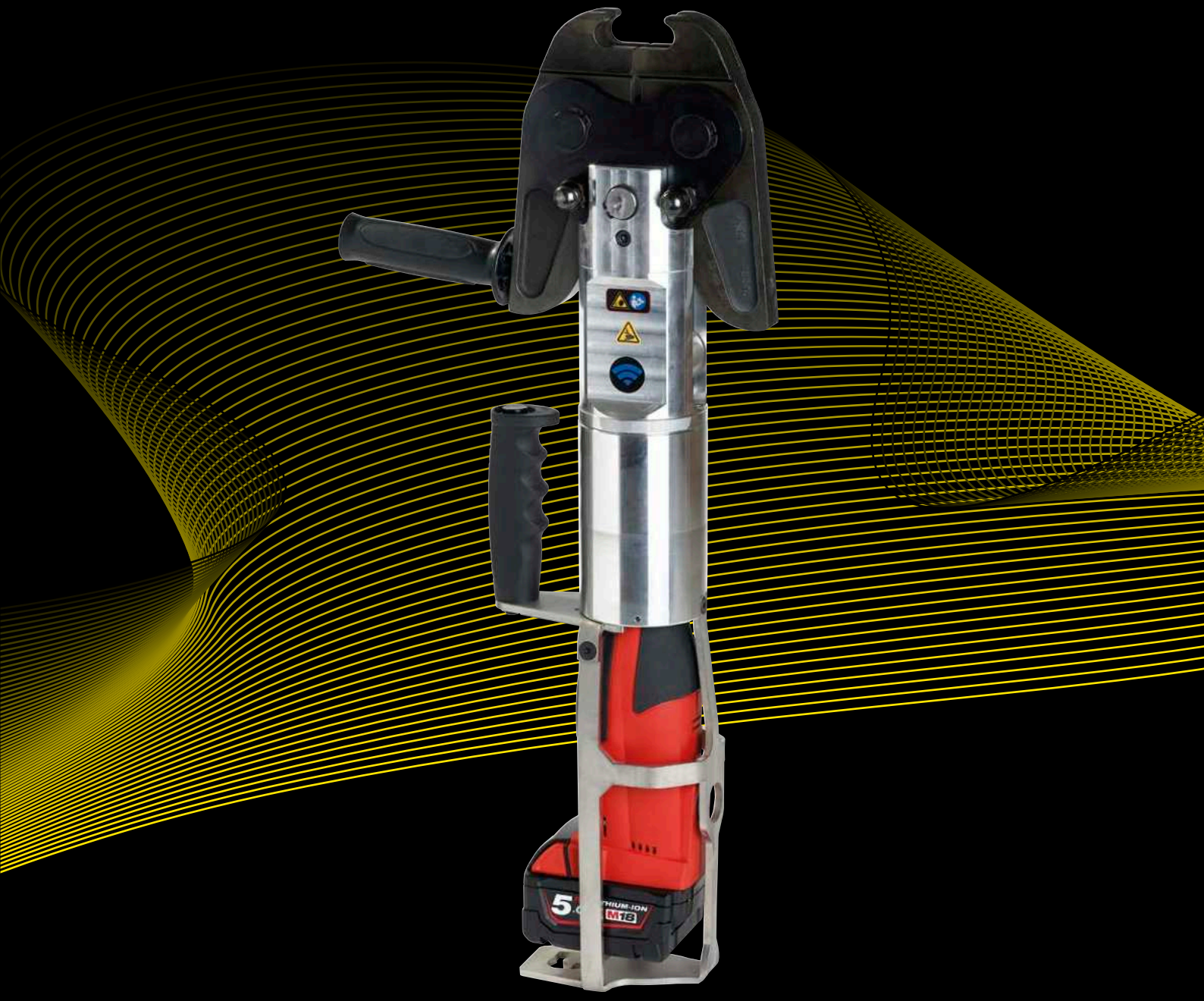
Pressing machines



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Pressing Tool EFP203

Basic Line EFP203 - strong performance in a slimline design
supplied in the case: preessing tool, storage space for up to 6 press jaws PB2

- for press connections 12 – 54 (108) mm metal, 16 – 110 mm plastic
- automatic return, short pressing actions
- fits securely in your hand: 3 kg, 40 cm long (without press jaw), ergonomic shape and a 270° rotatable pressing head
- output: 450 W, piston force: 32 kN, piston stroke: 40 mm
- compatible with novopress PB2 press jaws Art. no. 625-30 to -35 and novopress PS2 press collars Art. no. 625-40 to -45

Art. no.	⟷	Ø	set	kg	PU
625-2PG/EFP203	400	12 - 110	2	8,482	1
625-2SE/EFP203	400	12 - 110	5	14,193	1

Pressing Tool ECO203

Comfort Line ECO203 - a new generation of pressing technology
Supplied in case: pressing unit, storage space for up to 6 press jaws PB2

- for press connections 12 – 54 (108) mm metal, 16 – 110 mm plastic
- fits securely in your hand: 3.2 kg, 40 cm long (without press jaw), ergonomic shape
- features: automatic sequence control, return, pressing area illumination, implemented diagnosis function, 5 m cable
- output: 450 W, piston force: 32 kN, piston stroke: 40 mm
- compatible with novopress PB2 press jaws Art. no. 625-30 to -35 and novopress PS2 press collars Art. no. 625-40 to -45

Art. no.	⟷	Ø	set	kg	PU
625-4PG/ECO203	400	12 - 110	2	7,300	1
625-4SE/ECO203	400	12 - 110	5	14,114	1

Case EFP203

- empty case, strong plastic
- space for:
  pressing tool EFP203
  6 press jaws PB2

Art. no.	kg	PU
625-2KO/EFP203	3,378	1

Case ECO203

- empty case, strong plastic
- space for: pressing tool ECO203 6 press jaws PB2

Art. no.	kg	PU
625-4KO/ECO203	3,348	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Cordless Pressing Tool ACO103 BT | 4.0 Ah

Comfort Line ACO102 - compact and powerful efficiency – WITH BLUETOOTH
Supplied in case:
cordless pressing tool, 1 battery 12 V 4.0 Ah Li-Ion, 1 charger storage space for up to 6 press jaws PB1

- Data transfer via Bluetooth®
- for press connections 12 – 35 mm metal, 16 – 40 mm plastic
- automatic pressing process, bolt retention
- particularly suitable for tight pressing space and installation situations
- real single-handed operation: 1.7 kg light, 32 cm long (without press jaw), ergonomic shape
- LED display with electronic display: pressing force monitoring, battery charge monitoring, error messages
- output: 240 W, piston force: 19 kN, piston stroke: 30 mm
- battery: 12 V Li-Ion 4.0 Ah, battery capacity: 40 – 180 pressings, charging time: approx. 30 – 60 min
- compatible with novopress PB1 press jaws Art. no. 625-20 to -25

Art. no.	↔	Ø	set	kg	PU
625-1PM/ACO103	320	12 - 40	4	5,261	1
625-1SE/ACO103	320	12 - 40	7	9,149	1

12 V rechargeable battery 4.0

- Extremely high performance 12 V 4.0 Ah Red Li-Ion rechargeable battery for pressing tool ACO103
- new revolutionary rechargeable battery technology
- up to 20 % more power*, up to 2x longer service life* and 2x more charge cycles*
- rechargeable battery capacity: depending on material and nominal widths 40 – 180 pressings

* in comparison to other Li-Ion rechargeable batteries

Art. no.	kg	PU
625-1AK/ACO103	0,415	1

12 V charger

- suitable for 12 V rechargeable batteries
- types of batteries NiCd, Red Li-Ion
- Charging time:
  1.5 Ah | 2.0 Ah charges in 30 – 40 min or less
  3.0 Ah | 4.0 Ah charges in 60 – 80 min or less
- suitable for rechargeable batteries for pressing tool ACO103

Art. no.	kg	PU
625-1LA/ACO103	0,513	1

Case ACO103

- empty case, strong, high quality plastic
- space for: pressing tool ACO103 with rechargeable battery
- 6 press jaws PB1
- replacement battery, charger

Art. no.	kg	PU
625-1KO/ACO103	2,414	1

BRINKO® powered by haupa

Cordless Pressing Tool ACO203 BT | 5.0 Ah

Comfort Line ACO203 - a new generation of pressing technology – NEW WITH BLUETOOTH

Supplied in case: cordless pressing unit,
1 rechargeable battery 18 V 5.0 Ah Li-Ion, 1 charger, storage space for up to 6 press jaws PB2

- Data transfer via Bluetooth®
- for press connections 12 – 54 (108) mm metal, 16 – 110 mm plastic
- fits securely in your hand: 2.8 kg, 39 cm long (without press jaw), ergonomic shape
- Features: pressing area illumination, implemented force monitoring and diagnosis function, innovative brushless motor technology for faster pressing process and more pressings per battery charge
- output: 450 W, piston force: 32 kN, piston stroke: 40 mm
- rechargeable battery: 18 V Li-Ion 5.0 Ah,battery capacity: up to 250 pressing processes, charging time: 60 min
- compatible with novopress PB2 press jaws Art. no. 625-30 to -35 and novopress PS2 press collars Art. no. 625-40 to -45

Pressing jaws from other manufacturers for 32 KN machines also fit in this pressing machine.

(* compared to other Li-Ion batteries)

Art. no.	↔	Ø	set	kg	PU
625-5PM/ACO203	390	12 - 110	4	8,300	1
625-5SE/ACO203	390	12 - 110	7	12,000	1

Case ACO203

- empty case, strong, high quality plastic
- space for: cordless pressing tool ACO203 replacement battery | cordless pressing tool ACO203 replacement two batterys charger, 6 press jaws PB2

Art. no.	kg	PU
625-5KO/ACO203	2,100	1
625-5KO/ACOXL	4,000	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Cordless Pressing Tool ACO203XL BT | 5.0 Ah

Comfort Line ACO203XL - the all-round expert – NEW WITH BLUETOOTH
Supplied in case: cordless pressing tool, 2x battery 18 V 5.0 Ah Li-Ion, 1 charger space
for up to 6 press jaws PB2

- Data transfer via Bluetooth®
- for press connections 12 – 108 mm metal, 16 – 110 mm plastic
- automatic pressing process, bolt retention
- fits securely in your hand: 3.9 kg (incl. battery), 46 cm long (without press jaw), ergonomic shape
- Features: status display via LED display, rotating knob, return stroke limitation
- output: 450 W, piston force: 32 kN, piston stroke: 80 mm (optionally 40 mm)
- battery: 18V Li-Ion 5.0 Ah, battery capacity: up to 250 pressing processes, charging time: 60 min
- compatible with novopress PB2 press jaws Art. no. 625-30 to -35 and novopress PS2 press collars Art. no. 625-40 to -45 and novopress PS3 press collars Art. no. 625-53

Pressing jaws from other manufacturers for 32 KN machines also fit in this pressing machine.

Art. no.	⟷	Ø	set	kg	PU
625-5XL/ACO203	460	12 - 110	5	12,000	1

18 V rechargeable battery 5.0

- extra strong rechargeable battery 18 V 5.0 Ah Red Li-Ion
- suitable for pressing tools ACO203 | ACO203XL | ACO401 | ACO403
- new revolutionary rechargeable battery technology
- up to 20 % more power*, up to 2x longer service life* and 2x more charge cycles*
- rechargeable battery capacity: depending on material and nominal widths roughly 180 pressings, integrated status display

* in comparison to other Li-Ion rechargeable batteries

Art. no.	kg	PU
625-5AK/ACO203	0,650	1

12 – 18 V charger

- suitable for 12 – 18 V rechargeable batteries
- types of batteries NiCd, Red Li-Ion
- charging time:
  1.5 Ah | 2.0 Ah charges in 40 min
  3.0 Ah | 4.0 Ah | 5.0 Ah charges in 75 min
- suitable for rechargeable batteries for pressing tools
  ACO103 | ACO202 | ACO203 | ACO202XL | ACO203XL | ACO401 | ACO403

Art. no.	kg	PU
625-5LA/ACO203	0,700	1

Cordless Pressing Tool ACO403 BT | 5.0 Ah

Comfort Line ACO403 - Highly efficient powerhouse – WITH BLUETOOTH
Supplied in the case: cordless pressing unit,
2 rechargeable batteries 18 V 5.0 Ah Red Li-Ion, 1 charger

- Data transfer via Bluetooth®
- pressing unit for large and special pipe dimensions from 76.1 up to 168,3 mm metal (e.g. sprinkler, fire extinguishing or other industrial facilities)
- strong design, weight 13 kg, length 650 mm
- electronic retaining bolt, automatic pressing cycle
- extra strong rechargeable batteries 18 V 5.0 Ah Red Li-Ion, capacity 20 – 30 pressings
- output 450 W
- piston force 120 kN, piston stroke 60 mm
- compatible with PS4 press collars Art. no. 625-63

Art. no.	⟷	Ø	set	kg	PU
625-8PG/ACO403	650	76,1 - 168,3	5	4,300	1

Case

Case PB1

- empty case made of strong plastic
- with insert for pressing jaws 12 - 35 mm
- space for: 6 press jaws PB1

Art. no.	kg	PU
625-KO/PB1	3,120	1

Case PB2

- empty case made of strong plastic
- with insert for pressing jaws 12 - 40 mm
- space for: 7 press jaws PB2

Art. no.	kg	PU
625-KO/PB2	3,120	1

Case PS2

- empty case made of strong plastic
- space for: press collars PS2 42 mm and 54 mm and the corresponding intermediate jaw ZB203

Art. no.	kg	PU
625-KO/PS2	2,100	1

Case PS3 | small

- empty case made of strong plastic
- space for: press collars PS3 76.1 mm and 88.9 mm and the corresponding intermediate jaw ZB323

Art. no.	kg	PU
625-7KO/PS323	2,100	1

Case PS3 | large

- empty case made of strong plastic
- space for: press collar PS3 108 mm and the corresponding intermediate jaws ZB323 (1st crimp) and ZB324 (2nd crimp)

Art. no.	kg	PU
625-7KO/PS324	2,100	1

Case ZB2XL

- empty case made of strong plastic
- with insert, for intermediate jaws
  625-ZB/221XL
  625-ZB/222XL bfor intermediate jaws
  Set 625-ZB/SETXL

Art. no.	kg	PU
625-KO/ZBXL	1,650	1

INFO

Pressing technology - Pipe connection technology

TWO years of warranty
Novopress grants the full statutory warranty of 24 months on all new pressing devices and tools as well as other accessories. The warranty period always begins at the time of delivery and must be proven in case of doubt using purchase documents. Batteries and chargers are excluded. Here the warranty period is 12 months from the date of purchase.
During the warranty period, the warranty covers the repair of all damage or defects in the products that are due to material or manufacturing defects.

ONE year warranty extension for pressing devices, intermediate jaws and pressing slings
Novopress grants a one-year extended warranty for all new pressing devices, intermediate jaws and pressing collars if they have been serviced at least every 12 months by Novopress or a specialist workshop authorized by Novopress .

Three years warranty extension for new press jaws
Novopress grants a 3-year extended warranty for all new press jaws, interchangeable jaws and press inserts if they have been serviced at least every 12 months by Novopress or a specialist workshop authorized by Novopress .

Overview of all novopress Pressing tools and Equipment

technical data	ACO103	EFP203	ECO203	ACO203	ACO203XL	ACO403
dimensions metal pipe	12 – 35 mm	12 – 54 mm *	12 – 54 mm *	12 – 54 mm *	12 – 108 mm	76,1 – 168,3
dimensions plastic pipe	16 – 40 mm	16 – 110 mm	16 – 110 mm	16 – 110 mm	16 – 110 mm	76,1 – 168,3
weight (incl. battery)	1,7 kg	3,0 kg	3,2 kg	2,3 kg	3,2 kg	13 kg
length	320 mm	395 mm	397 mm	387 mm	460 mm	650
width	98 mm	81 mm	75 mm	75 mm	83 mm	95 mm
height	72 mm	203 mm	113 mm	111 mm	113 mm	320 mm
power consumption	240 W	450 W	450 W	450 W	450 W	450 W
piston force	19 kN	32 kN	32 kN	32 kN	32 kN	120 KN
piston stroke	30 mm	40 mm	40 mm	40 mm	80 mm (40 mm)	60 KN
battery | electrical cable	12 V battery 4.0 Ah	5 m electrical cable	5 m electrical cable	18 V battery 5.0 Ah	18 V battery 5.0 Ah	2x 18 V Akku 5.0 Ah
battery capacity [1)]	40 – 180 press cycles	--	--	up to 250 press cycles	up to 250 press cycles	up to 30 press cycles
charging time [2)]	30 – 60 min.	--	--	60 min.	60 min.	45 – 75 min

equipment	ACO103	EFP203	ECO203	ACO203	ACO203XL	ACO403
press jaws PB1 type V	x					
press jaws PB1 type M	x					
press jaws PB1 type TH	x					
press jaws PB1 type U	x					
press jaws PB2 type V		x	x	x	x	
press jaws PB2 type M		x	x	x	x	
press jaws PB2 type TH		x	x	x	x	
press jaws PB2 type U		x	x	x	x	
adaptor jaws ZB203		x	x	x	x	
adaptor jaws ZB2XL					x	
press collars PS2 type V		x	x	x	x	
press collars PS2 type M		x	x	x	x	
press collars PS2 type TH		x	x	x	x	
press collars PS2 type U		x	x	x	x	
press collars PS3 type M					x	
press collars PS4 type HP						x

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Pressing jaws

BRINKO®
powered by haupa®

V-Press jaw set

Press jaws also wear out during use. Replacing them guarantees the safety of the pressing process and safeguards the worker by using suitable press jaws.
BRINKO offers the most commonly used sizes V15, V22, V28, and V35 in a specially equipped BRINKO box with the V-Press jaw set. The BRINKO box has 2 additional slots where intermediate sizes like V12 and V18 can be stored, as well as a compartment for additional equipment such as pipe cutters or deburrers.

Contents:
V-pressing jaws V15, V22, V28 and V35

These pressing jaws also fit all 32 KN machines from other manufacturers.

The empty area in the case can be used very well for customising with common aids for everyday needs.
Not included in the set!

Art. no.	set	kg	PU
625-10SE	5	9,120	1

M-Press jaw set

Press jaws also wear out during use. Replacing them guarantees the safety of the pressing process and safeguards the worker by using suitable press jaws.
BRINKO offers the most commonly used sizes M15, M22, M28, and M35 in a specially equipped BRINKO box with the M-Press jaw set. The BRINKO box has 2 additional slots where intermediate sizes like M12 and M18 can be stored, as well as a compartment for additional equipment such as pipe cutters or deburrers.

Contents:
M-pressing jaws M15, M22, M28 and M35

These pressing jaws also fit all 32 KN machines from other manufacturers.

The empty area in the case can be used very well for customising with common aids for everyday needs.
Not included in the set!

Art. no.	set	kg	PU
625-13SE	5	9,120	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Art. no.	Ø	kg	PU
625-20/PB1V12	12	1,282	1
625-20/PB1V15	15	1,272	1
625-20/PB1V18	18	1,277	1
625-20/PB1V22	22	1,328	1
625-20/PB1V28	28	1,359	1
625-20/PB1V35	35	1,282	1

Press Jaws PB1 type M

- special press jaws for pressing units ACO103, ACO102, AFP101 und Presskid
- for all pressing contours type M 12 – 35 mm
- high quality press jaws, light and compact design, optimal coordination with the connecting systems

Art. no.	Ø	kg	PU
625-23/PB1M12	12	1,280	1
625-23/PB1M15	15	1,281	1
625-23/PB1M18	18	1,265	1
625-23/PB1M22	22	1,326	1
625-23/PB1M28	28	1,375	1
625-23/PB1M35	35	1,282	1

Press Jaws PB1 type TH

- special press jaws for pressing units ACO103, ACO102, AFP101 und Presskid
- for all pressing contours type TH 16 – 40 mm
- high quality press jaws, light and compact design, optimal coordination with the connecting systems

Art. no.	Ø	kg	PU
625-24/PB1T16	16	1,096	1
625-24/PB1T20	20	1,156	1
625-24/PB1T26	26	1,245	1
625-24/PB1T32	32	1,476	1
625-24/PB1T40	40	1,551	1

Press Jaws PB1 type U

- special press jaws for pressing units ACO103, ACO102, AFP101 und Presskid
- for all pressing contours type TH 16 – 40 mm
- high quality press jaws, light and compact design, optimal coordination with the connecting systems

Art. no.	Ø	kg	PU
625-25/PB1U16	16	1,247	1
625-25/PB1U20	20	1,250	1
625-25/PB1U25	25	1,229	1
625-25/PB1U32	32	1,412	1
625-25/PB1U40	40	1,601	1

Press Jaws

Press Jaws PB2 type V

- high quality press jaws for pressing units in category 2
- for all pressing contours type V 12 – 54 mm
- apart from that, PS2 press collars are used Art. no. 625-40
- recommended by many system providers

Art. no.	Ø	kg	PU
625-30/PB2V12	12	1,890	1
625-30/PB2V15	15	1,940	1
625-30/PB2V18	18	1,940	1
625-30/PB2V22	22	2,030	1
625-30/PB2V28	28	1,910	1
625-30/PB2V35	35	2,190	1
625-30/PB2V42	42	2,840	1
625-30/PB2V54	54	3,450	1

Press Jaws PB2 type M

- high quality press jaws for pressing units in category 2
- for all pressing contours type M 12– 35 mm
- apart from that, PS2 press collars are used Art. no. 625-43
- recommended by many system providers

Art. no.	Ø	kg	PU
625-33/PB2M12	12	1,270	1
625-33/PB2M15	15	1,879	1
625-33/PB2M18	18	1,882	1
625-33/PB2M22	22	1,975	1
625-33/PB2M28	28	1,935	1
625-33/PB2M35	35	2,031	1

Press Jaws PB2 type TH

- high quality press jaws for pressing units in category 2
- for all pressing contours type TH 16 – 32 mm
- apart from that, PS2 press collars are used Art. no. 625-44
- recommended by many system providers

Art. no.	Ø	kg	PU
625-34/PB2T16	16	1,880	1
625-34/PB2T20	20	1,931	1
625-34/PB2T26	26	1,955	1
625-34/PB2T32	32	2,083	1

Press Jaws PB2 type

- high quality press jaws for pressing units in category 2
- for all pressing contours type U 16 – 32 mm
- apart from that, PS2 press collars are used Art. no. 625-45
- recommended by many system providers

Art. no.	Ø	kg	PU
625-35/PB2U16	16	1,899	1
625-35/PB2U20	20	1,885	1
625-35/PB2U25	25	1,971	1
625-35/PB2U32	32	2,089	1

Press Collar

BRINKO®
powered by haupa®

Press Collars

Press Collars PS2 type V

- press collars with snap-on technology for pressing units in category 2
- for pressing contours type V 42 – 54 mm
- only in association with a universal intermediate jaw Art. no. 625-ZB/PS203

Art. no.	Ø	kg	PU
625-40/PS2V42	42	1,297	1
625-40/PS2V54	54	1,578	1

Press Collars PS2 type M

- press collars with snap-on technology for pressing units in category 2
- for pressing contours type M 42 – 54 mm
- only in association with a universal intermediate jaw Art. no. 625-ZB/PS203

Art. no.	Ø	kg	PU
625-43/PS2M42	42	1,335	1
625-43/PS2M54	54	1,570	1

Press Collars PS2 type TH

- press collars with snap-on technology for pressing units in category 2
- for pressing contours type TH 40 – 63 mm
- only in association with a universal intermediate jaw Art. no. 625-ZB/PS203

Art. no.	Ø	kg	PU
625-44/PS2T40	40	2,080	1
625-44/PS2T50	50	2,560	1
625-44/PS2T63	63	3,040	1

Press Collars PS2 type U

- press collars with snap-on technology for pressing units in category 2
- for pressing contours type U 40 – 63 mm
- only in association with a universal intermediate jaw Art. no. 625-ZB/PS203

Art. no.	Ø	kg	PU
625-45/PS2U40	40	2,080	1
625-45/PS2U50	50	2,560	1
625-45/PS2U63	63	3,040	1

Press Collars PS3 type M

- press collars with snap-on technology for pressing units in category 3
- for pressing contours type M 42 – 108 mm
- only in association with a universal intermediate jaw (ZB3 or ZB2XL)

Art. no.	Ø	kg	PU
625-53/PS3M42	42	1,345	1
625-53/PS3M54	54	3,600	1
625-53/PS3M64	64	3,820	1
625-53/PS3M76	76.1	4,425	1
625-53/PS3M88	88.9	4,340	1
625-53/PS3M08	108	5,560	1

Press Collars

Press Collars PS4 type HP

- press collars with snap-on technology for pressing unit ACO403
- for pressing contours type HP 76.1 mm, 88.9 mm, 108 mm
- other sizes available on request

Art. no.	Ø	kg	PU
625-63/PS4H76	76.1	7,400	1
625-63/PS4H88	88.9	8,000	1
625-63/PS4H08	108	9,100	1

Adaptor Jaws

Adaptor Jaw ZB204

- high quality intermediate jaw for novopress PS2 press collars (Art. no. 625-40 to -45)
- suitable for both, conventional press collars and also for the new snap-on technology

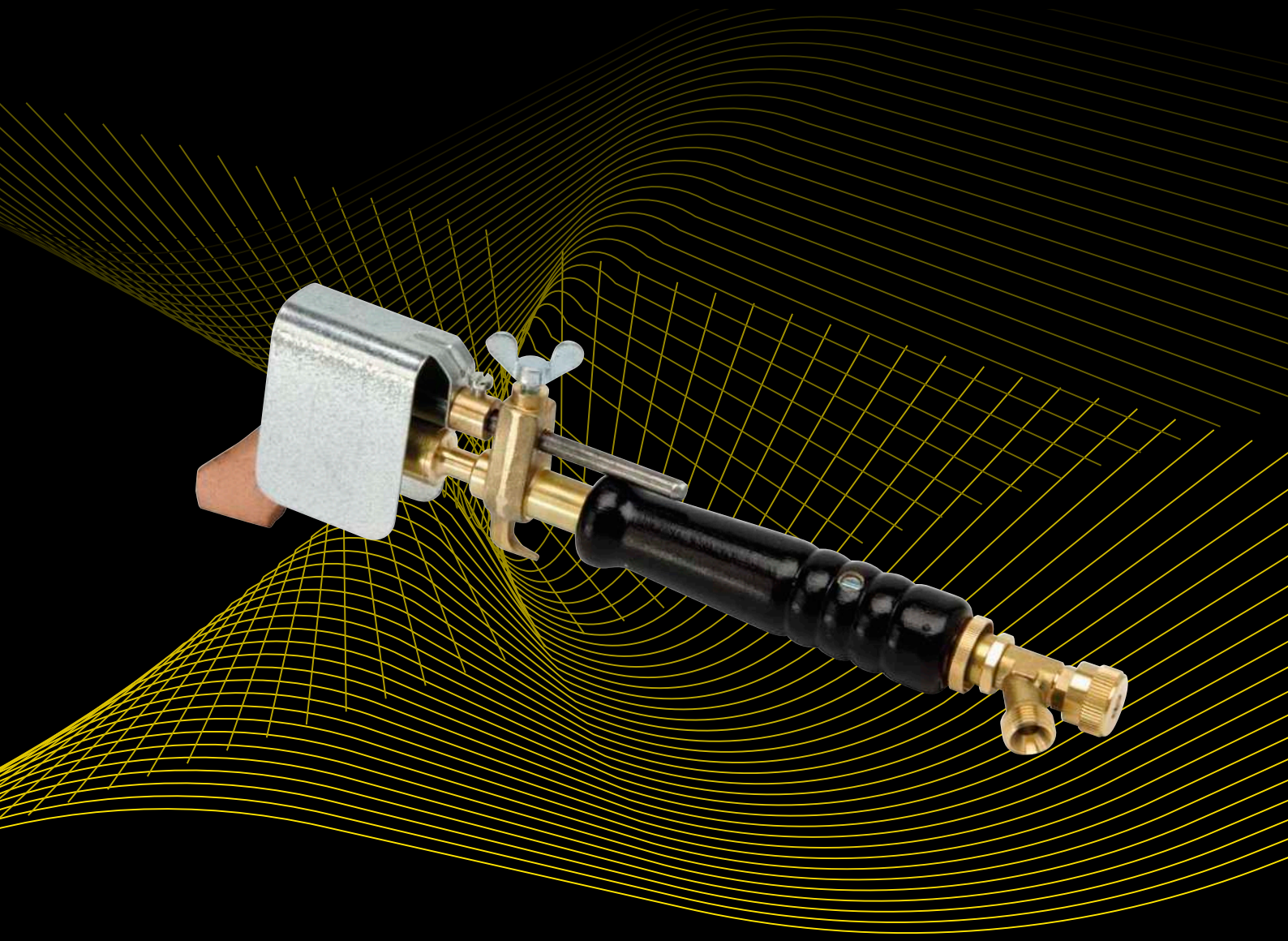
Art. no.	Ø	kg	PU
625-ZB/PS203	40 - 63	2,032	1

Adaptor Jaw ZB2XL

- high quality intermediate jaws especially for pressing units ACO202XL | 203XL
- suitable for the Novopress press collars PS3 Art. no. 625-53
- suitable for both conventional press collars and also for the new snap-on technology

Art. no.	Ø	kg	PU
625-ZB/221XL	64 - 108	4,400	1
625-ZB/222XL	108	4,600	1
625-ZB/SETXL	64 - 108	10,800	1

Soldering technology



BRINKO® powered by haupa®

Piston brazing

Propane soldering iron

Consisting of:
- handle, hose connection G 3/8“ LH Art. no. 4427
- iron stand Art. no. 4428
- soldering torch Art. no. 4429
- wind protection Art. no. 4430
- copper piece, 250 g Art. no. 4435/250

Art. no.	set	kg	PU
4426	5	0,296	1

Propan handle

- without grommet and union nut
- hose connection G 3/8“ LH

Art. no.	kg	PU
4427	0,302	1

Soldering torch

- suitable for soldering iron Art. no. 4426

Art. no.	kg	PU
4429	0,059	1

Soft solder insert

- curved 40°
- gas port Ø 5 mm
- suitable for propane handle Art. No. 4427

Art. no.	Ø	kg	PU
4429-1/5	5	0,087	1

Iron stand

- suitable for soldering iron Art. no. 4426

Art. no.	kg	PU
4428	0,082	1

Wind protection

- suitable for soldering iron Art. no. 4426

Art. no.	kg	PU
4430	0,087	1

Copper piece

- angled hammer shape
- 7 mm pin

Art. no.	kg	PU
4435/250	0,296	1
4435/350	0,388	1

Copper piece

- pointed shape
- 7 mm pin

Art. no.	kg	PU
4436/250	0,298	1
4436/350	0,388	1

Piston brazing

Brazing set HLS

Portable brazing device for propane/oxygen for hard and soft soldering

NEW

A small and thus easily transportable brazing device is also listed in the certification list. Equipped with a 2-litre oxygen and 425 g propane cylinder, check valves for propane and oxygen (required by accident prevention regulations), pressure regulator, 3 m double hose, and adjustable handle with burner. This brazing device offers everything needed for brazing and annealing copper pipes (if already available, use the refrigeration-climate sets without brazing equipment). Performance up to 2850 °C

Set of 9, comprising:
- Propane cylinder
- Oxygen cylinder
- Propane-oxygen hose
- Support frame
- Handle
- Insert, size 2 – 4
- Oxygen pressure regulator valve
- Liquefied gas medium pressure regulator
- Check valve

Art. no.	set	kg	PU
3851	10	12,700	1

Soldering Torches

Propane handle

- with regulator and level valve
- outlet M14 x 1
- hose connection G 3/8 „ LH

Art. no.	kg	PU
4400	0,352	1

Soft solder insert

- 1400 °C
- with union nut M14 x 1
- suitable for propane handles Art. no. 4400
- 1.5 bar

Art. no.	Ø	CU pipe Ø	kg	PU
4405/5	5	15 – 22	0,103	1
4405/7	7	22 – 28	0,170	1

Propane hard solder insert

- operating pressure 1.5 – 2.5 bar
- union nut M14 x 1
- gas outlet Ø 16 mm
- for Cu pipes up to Ø 18 mm

Art. no.	Ø	CU pipe Ø	kg	PU
4406	16	0 – 18	0,096	1
4407	19	0 – 22	0,103	1
4408	22	0 – 28	0,247	1

Accessories for Pressure Bottles

Miniature propane bottle

- Steel body design approved
- complete with stand, hook, valve and sealing cap
- connection G 3/8 „ LH
- filling weight 0.425 kg (supplied empty!)

Art. no.	kg	PU
4443	2,500	1

Sealing cap

- legally required as transport safeguard
- suitable for miniature propane bottle Art. no. 4443

Art. no.	kg	PU
4443-1	0,014	1

Protective bracket

- suitable for miniature propane bottle Art. no. 4443

Art. no.	kg	PU
4443-2	0,482	1

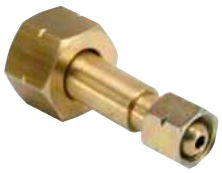
Miniature propane bottle valve

- Design approval no. 82D166 (only for steel bottles)
- connection G 3/8“ LH
- outer Ø 1/2“
- Suitable for small propane cylinder Art. No. 4443

Art. no.	kg	PU
4444	0,253	1

Propane filler pipe

- Bottle connection from 5, 11 and 33 kg to miniature bottles
- large connection W 21.8 x 1/14“ LH
- small connection G 3/8“ LH
- suitable for miniature propane bottle Art. no. 4443



Art. no.	kg	PU
4446	0,149	1

Propane medium pressure regulator

- certified according to DIN 4811
- working pressure can be regulated from 0.5 – 4 bar
- for miniature bottles
- output 8 kg/h
- outlet outer thread G 3/8“ LH

Art. no.	kg	PU
4447-0	0,340	1

Propane medium pressure regulator

- certified according to DIN 4811
- working pressure can be regulated from 0.5 – 4 bar
- combination connection for 3, 5, 11 and 33 kg bottles
- output 8 kg/h
- outlet outer thread G 3/8“ LH

Art. no.	kg	PU
4447	0,260	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✱ Bestseller Premium product

Accessories for Pressure Bottles

Propane medium pressure regulator

- certified according to DIN 4811
- working pressure can be regulated from 0.5 – 4 bar
- with manometer
- combination connection for 3, 5, 11 and 33 kg bottles
- output 8 kg/h
- outlet outer thread G 3/8“ LH

Art. no.	kg	PU
4447-1	0,310	1

Propane working manometer

- Propane working manometer 4 bar
- suitable for propane medium pressure regulator Art. no. 4447-1, 4447-10

Art. no.	kg	PU
4447-11	0,042	1

High pressure hose

- completely reinforced
- bursting pressure 30 bar,
- operating pressure 10 bar
- connections G 3/8“LH

Art. no.	⟷ m	kg	PU
4452/1,5	1,5	0,280	1
4452/2	2	0,364	1
4452/3	3	0,660	1
4452/5	5	0,774	1

Solder Sets & Blowtorches

Propane soft solder set

Consisting of:
- propane handle G 3/8“ LH
- soft solder insert 40° curved, Ø 5 mm
- high pressure hose 3 m
- miniature propane bottle 425 g

Art. no.	quantity	kg	PU
4399	4	3,549	1

Propane soft solder set

Consisting of:
- propane handle G 3/8“ LH
- soft solder insert 40° curved, Ø 5 mm
- high pressure hose 3 m
- miniature propane bottle 425 g, filler pipe
- gas lighting tongs

Art. no.	quantity	kg	PU
4394	6	5,500	1

Solder Sets & Blowtorches

Propane soft solder set

Consisting of:
- soldering iron G 3/8“ LH
- copper piece 250 g
- high pressure hose 3 m
- miniature propane bottle 425 g

Art. no.	quantity	kg	PU
4398	3	3,456	1

Propane soft solder set

Consisting of:
- soldering iron G 3/8“ LH
- copper piece 250 g
- soft solder inserts 40° curved, Ø 5 and 7 mm
- miniature propane bottle 425 g, filler pipe
- high pressure hose 3 m and gas lighting tongs

Art. no.	quantity	kg	PU
4395	7	6,300	1

Soldering tool

- with automatic Piezo ignition, temperature 1800 °C
- can also be used overhead after a short heating period
- for soft- and hard soldering copper pipe Ø 18 – 22 mm
- including mixed gas cartridge (butane/propane), filling 330 g | 600 ml Art. no. 5100

Art. no.	°C	kg	PU
5000 ✸	1800	0,490	1

Gas cartridge

- suitable for soldering device Art. no. 5000
- mixed gas (butane/propane) 330 g | 600 ml
- with self-sealing safety valve

Art. no.	kg	PU
5100/350 ✸	0,433	1

Solder Sets & Blowtorches

Blowtorch

- for soft-soldering
- Piezo ignition, temperature up to 1200 °C
- high performance torch, high quality stainless steel
- gas consumption can be regulated using rotating gas tap, maximum 86 g/h
- including mixed gas cartridge
- can also be used overhead after a short heating period
- suitable replacement mixed gas cartridge Art. no. 5210

Art. no.	°C	kg	PU
5205	1200	0,800	1

Blowtorch

- for soft soldering
- temperature up to 1750 °C
- centrally bundled flame
- high performance torch Ø 21 mm
- impact-resistant plastic housing, design approval no. 02/121
- suitable replacement mixed gas cartridge Art. no. 5210

Art. no.	°C	kg	PU
5200 ✷	1750	0,750	1

Mixed gas cartridge

- mixed gas filling (butane/propane), 190 g
- suitable for blowtorches Art. no. 5200 and 5205

Art. no.	kg	PU
5210 ✷	0,277	1

Solder Accessories

Ammonia stone

- ammonia stones 64 x 45 x 20 mm

Art. no.	kg	PU
1649	0,100	1

Flame protection mat

- dimension 330 x 500 mm
- high quality, non melting fibre fleece, asbestos-free
- 2-layer quilted
- extremely flexible
- can be used up to 1000 °C, briefly up to 1500 °C

Art. no.	↔	Width	kg	PU
8080	500	330	0,330	1

Magnetic control mirro

- with permanent magnet, holding surface flat and prismatic
- flexible metal hose with ball joint
- steel mirror, rectangular 80 x 70 mm, polished nickelplated

Art. no.	strength	Width	Height	kg	PU
8030/1,0	1	70	80	0,423	1
8030/1,5	1,5	70	80	0,425	1

BRINKO® powered by haupa

HAUPA GmbH, Lange Str. 40, D-42857 Remscheid, Germany, Phone: +49 (0)2191 8418-0, Fax: +49 (0)2191 8418-840, E-mail: sales@haupa.com

Solder Accessories

Steel mirror

- Steel, polished nickel-plated
- rectangular 80 x 70 mm
- suitable for magnetic control mirror Art. no. 8030

Art. no.	strength	Width	Height	kg	PU
8061/1,0	1	70	80	0,066	1
8061/1,5	1,5	70	80	0,066	1

Solder water brush

- with sheet metal sheath and natural bristles

Art. no.	kg	PU
2999	0,004	1

Gas lighting tongs

- with roller file
- including flint, Art. no. 4201

Art. no.	kg	PU
4200	0,051	1

Solder wire

- for soft soldering
- with 40 % tin content

Art. no.	m	Sn %	Ø	kg	PU
1644/250	10	40	2	0,259	1
1644/500	20	40	2	0,518	1

Resin quick solder

- special solder wire (radio solder) for electrical engineering
- with prepared resin core
- 40 % tin content
- winder with wire Ø 2mm, 20 g

Art. no.	Sn %	Ø	kg	PU
1645/20	40	2	0,022	1

Resin quick solder

- special solder (radio solder) for electrical engineering
- with prepared resin core
- 40 % tin content
- Roll with wire Ø 2 mm
- 500 g, 20 m

Art. no.	m	Sn %	Ø	kg	PU
1646/500	20	40	2	0,530	1

Resin quick solder

- special solder (radio solder) for electrical engineering
- with a prepared resin
- 60 % tin content

Art. no.	m	Sn %	Ø	kg	PU
1646-1/250-1,0	10	60	1	0,259	1
1646-1/500-1,0	20	60	1	0,529	1
1646-1/500-1,5	15	60	1,5	0,528	1

Solder water bottle

- made of unbreakable, acid and chemical-resistant polyethylene
- base 60 x 60 mm, height 85 mm
- without content
- possible filling quantity 150 ml

Art. no.	ml	kg	PU
1638/150	150	0,037	1

Hydrochloric acid bottle

- made of unbreakable, acid and chemical-resistant polyethylene
- base 60 x 60 mm, height 85 mm
- without content
- possible filling quantity 150 ml

Art. no.	ml	kg	PU
1640/150	150	0,040	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Welding technology

BRINKO®
powered by haupa®

Pressure relief valve | Oxygen

- for oxygen
- with content manometer 200 kp/cm²
- with working manometer 10 kp/cm²

Art. no.	kg	PU
4080	1,330	1

Pressure relief valve | Acetylene

- for fuel gas (acetylene)
- with content manometer 18 kp/cm²
- with working manometer 1.5 kp/cm²
- with bracket connection

Art. no.	kg	PU
4090	1,630	1

Double oxyacetylene hose

- bursting pressure 60 bar, operating pressure 20 bar
- with a steel clamp every metre
- outer Ø 13 mm
- inner Ø 6 mm
- installed connections:
- G 3/8“ LH, red for fuel gas (acetylene)
- G 1/4“, blue for oxygen

Art. no.	⟷ m	kg	PU
4073/10	10	3,500	1
4073/20	20	6,900	1

Handle

- light alloy, anodised
- valve handwheel for single handed use
- shank Ø 20 mm

Art. no.	kg	PU
3902	0,639	1

Connection nut

- suitable for handle Art. no. 3902

Art. no.	kg	PU
3902-3	0,049	1

Explosion protection safeguard

- for oxygen
- with flame barrier and gas non-return valve
- cut-off valve and dirt filter
- connecting thread G 1/4“
- to connect to a pressure regulator

Art. no.	kg	PU
4070	0,250	1

Explosion protection safeguard

- for fuel gas (acetylene)
- with flame barrier and gas non-return valve
- cut-off valve and dirt filter
- connecting thread G 3/8“ LH
- to connect to a pressure regulator

Art. no.	kg	PU
4071	0,250	1

* Bestseller Premium product

Nozzle cleaning drill set

- 11 cleaning drills
- for cutting nozzles and welding inserts
- Ø 0.5 – 1.6 mm

Art. no.	kg	PU
4005	0,030	1

Welding insert

- nickel plated
- welding range 1 – 2 mm
- shank Ø 20 mm

Art. no.	SB	kg	PU
3922/1-2	1 - 2	0,116	1
3923/2-4	2 - 4	0,133	1
3924/4-6	4 - 6	0,142	1
3925/6-9	6 - 9	0,215	1
3926/9-14	9 - 14	0,230	1

Pipe welding insert

- bendy copper pipe
- welding range 1 – 2 mm
- shank Ø 20 mm

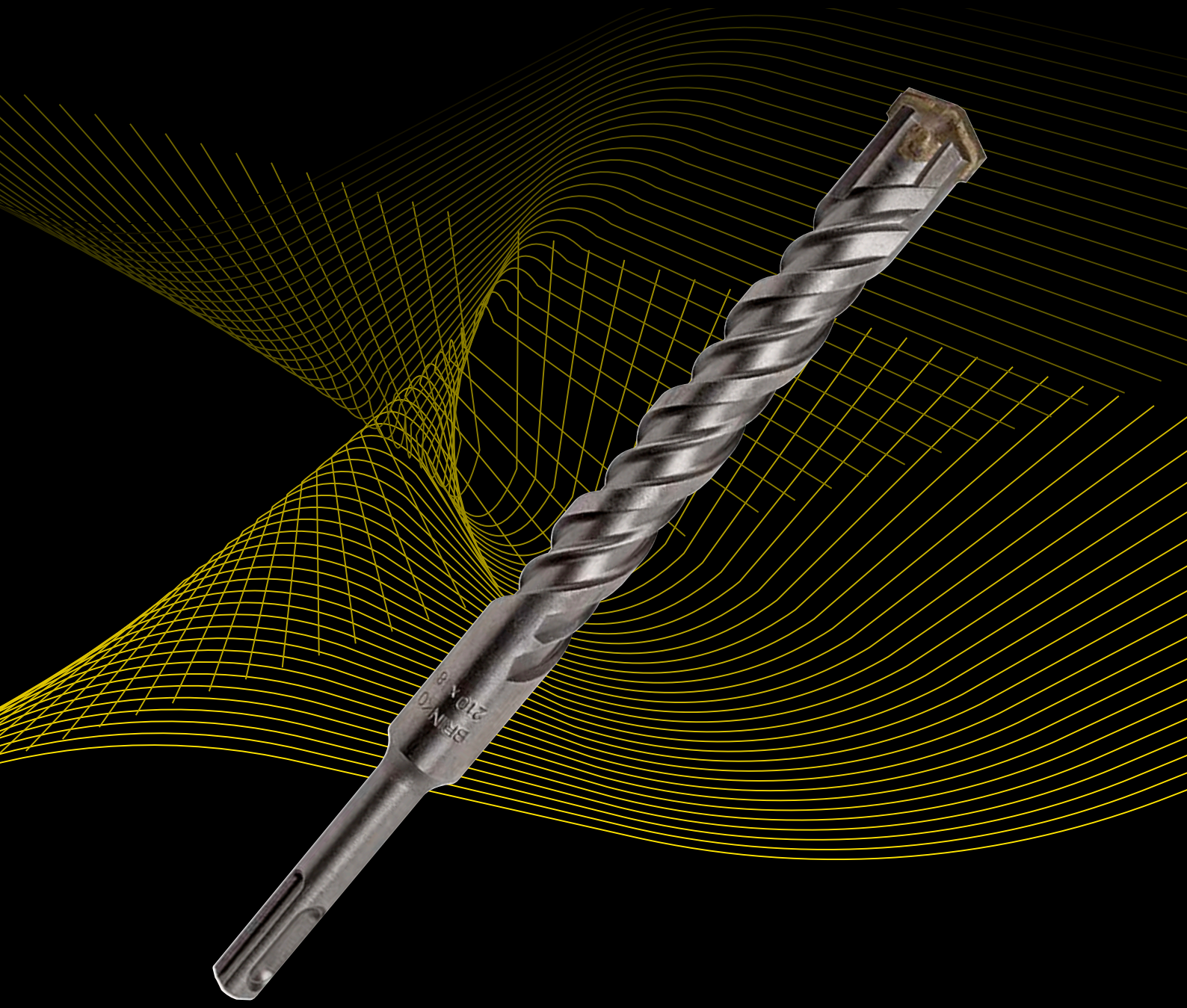
Art. no.	SB	kg	PU
3936/1-2	1 - 2	0,080	1
3937/2-4	2 - 4	0,081	1
3938/4-6	4 - 6	0,080	1
3939/6-9	6 - 9	0,079	1

Replacement tip

- bendy copper pipe
- suitable for pipe welding inserts Art. no. 3936
- welding range 1 – 2 mm
- shank Ø 20 mm

Art. no.	SB	kg	PU
3946/1-2	1 - 2	0,038	1
3947/2-4	2 - 4	0,039	1
3948/4-6	4 - 6	0,039	1
3949/6-9	6 - 9	0,043	1

Drilling



BRINKO®
powered by haupa®

Twist drill

- HSS, DIN 338
- fully ground, split point
- blank

Art. no.	Ø	kg	PU
1044/1,0	1	0,005	10
1044/1,5	1,5	0,008	10
1044/2,0	2	0,001	10
1044/2,5	2,5	0,002	10
1044/3,0	3	0,003	10
1044/3,5	3,5	0,004	10
1044/4,0	4	0,005	10
1044/4,5	4,5	0,007	10
1044/5,0	5	0,009	10
1044/5,5	5,5	0,011	10
1044/6,0	6	0,024	10
1044/6,5	6,5	0,017	10
1044/7,0	7	0,021	10
1044/7,5	7,5	0,024	10
1044/8,0	8	0,030	10
1044/8,5	8,5	0,033	10
1044/9,0	9	0,042	10
1044/9,5	9,5	0,046	10
1044/10,0	10	0,010	10
1044/10,5	10,5	0,060	5
1044/11,0	11	0,070	5
1044/11,5	11,5	0,076	5
1044/12,0	12	0,082	5
1044/12,5	12,5	0,096	5
1044/13,0	13	0,102	5

Twist drill set

- HSS, DIN 338
- supplied in plastic box

Art. no.	set	Ø	kg	PU
1060/2	19	1 - 10	0,694	1
1060/3	25	1 - 13	1,307	1

Twist drill set

- supplied in round plastic tub: 19 HSS twist drills, DIN 338
- drilling Ø 1 – 10 mm, increment 0.5 mm

Art. no.	set	Ø	kg	PU
1065	19	1 - 10	0,449	1

T.C.T. stone drill

- HSS, DIN 338
- round shank
- milled and ground special design
- particularly strong carbide small plate
- straight spiral inlet and negative chamfer
- for rotating and hammer drilling
- areas: natural stone, concrete, tiles, glass, ceramic etc.

Art. no.	⟷	Ø	kg	PU
1366-2/6	120	6	0,019	10
1366-2/8	130	8	0,032	10
1366-2/10	140	10	0,052	10
1366-2/14	155	14	0,120	5

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

T.C.T. hammer drill

- powerful, fast and durable
- SDS-Plus chuck adaptor
- crosshead, 4 edges:
- long tool life
- easy, quick work
- avoids drill bit tilting
- effective drilling dust removal

Art. no.	⟷	Ø	kg	PU
1374/110x6 ✷	110	6	0,036	10
1374/160x6 ✷	160	6	0,048	10
1374/160x8 ✷	160	8	0,054	10
1374/160x10 ✷	160	10	0,066	10
1374/160x12 ✷	160	12	0,075	5
1374/160x14	160	14	0,102	5
1374/160x15	160	15	0,114	5
1374/210x8	210	8	0,070	5
1374/210x10	210	10	0,089	5
1374/210x12 ✷	210	12	0,110	5
1374/210x14	210	14	0,150	5
1374/210x16	210	16	0,164	5
1374/210x18 ✷	210	18	0,192	5
1374/460x10 ✷	460	10	0,195	1
1374/460x12	460	12	0,242	1
1374/460x14 ✷	460	14	0,316	1
1374/460x16	460	16	0,383	1
1374/460x18	460	18	0,512	1
1374/460x20	460	20	0,574	1
1374/460x24 ✷	460	24	0,790	1
1374/600x12	600	12	0,305	1
1374/600x16	600	16	0,506	1

Double-ended drill bit

- HSS
- drilling Ø 3.2 mm
- for predrilling, e.g. aluminium rivets and copper rivets

Art. no.	Ø	kg	PU
1045/3,2	3,2	0,004	10

Glass tile drill

Aareas: ceramics, tiles, hard-fired tiles, glass, acrylic glass, mirror glass
- Single Drill
- optimally designed for cordless power tools
- 1/4“ hexagonal shaft
- pointed chisel edge enables precision drilling, can be re-sharpened

Please note: Only use in rotation (low rotation speed) and in sufficiently cool

Art. no.	Ø	kg	PU
1368-1/5	5	0,012	1
1368-1/6 ✷	6	0,014	1
1368-1/8 ✷	8	0,017	1
1368-1/10 ✷	10	0,258	1
1368-1/13	13	0,300	1
1368-1/14	14	0,350	1

Glass tile drill set

Areas: ceramics, tiles, hard-fired tiles, glass, acrylic glass, mirror glass
5-piece
- Sizes: 2 x 6, 2 x 8.1 x 10 mm
- optimally designed for cordless power tools
- 1/4“ hexagonal shaft
- pointed chisel edge enables precision drilling, can be re-sharpened

Please note: Only use in rotation (low rotation speed) and in sufficiently cool

Art. no.	set	Ø	kg	PU
1368 ✷	5	6 - 10	0,126	1

INFO

DIAMANT tile drill BRIdiamondDrill

Advantages of the DIAMANT tile drill:

Up to **30 holes** can be drilled in tiles with the **6 - 8 - 10 mm** sizes, up to **35 holes** with **12 - 14 - 16 mm** and up to **40 holes** or more with over **20 mm**. The numbers vary depending on the material thickness and machine speed.

The wax core provides the necessary cooling during drilling
Heat-resistant wax that does not melt easily is used to protect the diamond setting
No extra cooling required during the drilling process - recommended afterwards or before the next drill hole.

We recommend the following machine speeds for use:

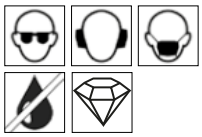
Art. 1379-3 series (with hex adapter)
= 1,000 - 2,500 revolutions/minute

Art. 1381-1 series (with M14 thread)
= 8,000 - 14,000 revolutions/minute

DIAMOND core drills BRIdiamondDrill

Drilling without a centring aid

- connector M14 to be used with the angle grinder
- hi-grade diamond grains for fast working, provide clean results
- perfectly suited for drilling clean holes in granite and stone slabs, porcelain, ceramics and tiles
- extremely long service life thanks to high speeds (recommended: 8,000 – 14,000 rpm)
- special wax filling ensures cooling, no extra cooling required single hole drilling - only required if multiple holes are drilled



Art. no.	Ø	kg	PU
1381-1/6 ✸	6	0,040	1
1381-1/8 ✸	8	0,047	1
1381-1/10 ✸	10	0,055	1
1381-1/12	12	0,062	1
1381-1/14	14	0,100	1
1381-1/18	18	0,054	1
1381-1/20	20	0,100	1
1381-1/25	25	0,120	1
1381-1/32	32	0,150	1
1381-1/35	35	0,160	1
1381-1/40	40	0,190	1
1381-1/45	45	0,250	1
1381-1/50	50	0,300	1
1381-1/55	55	0,281	1
1381-1/60	60	0,339	1
1381-1/68	68	0,290	1
1381-1/75	75	0,407	1
1381-1/82	82	0,474	1
1381-1/110	110	0,900	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

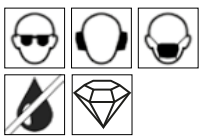
✸ Bestseller Premium product

DIAMOND tile drilling set BRIspeedDrill

Achieve clean and precise hole drilling in tiles and porcelain stoneware tiles - with BRIspeedDrill, the most economical and fastest method!

Bathrooms are no longer just functional spaces; they have evolved into wellness oases. Tiles are still the preferred choice for wall and floor coverings. However, things change here too: tiles and porcelain stoneware tiles are getting larger, thicker, and above all, harder.
When drilling with diamond drills, it is important to note that the hole is ground into the material rather than drilled. Diamond drilling is a grinding technique. Therefore, a 6 mm diamond drill requires a speed of 8,000 RPM. Grinding techniques require speed. Diamond drilling with, for example, a cordless screwdriver (approximately 1,300 RPM) is therefore only a makeshift solution and carries the risk of the drill slipping when starting (diamond drills do not have a centring point).
The new BRIspeedDrill set from BRINKO offers the advantage of a small, handy machine that is easy to use. In contrast to the BRIspeedDrill, working with an angle grinder in confined workspaces is very difficult. By precisely positioning with our BRIspeedDrill, the mounting holes are also covered by the usually very small cover rosettes.
Another advantage is the suitable speed of approximately 8,000 RPM compared to the angle grinder, which operates at 11,000 to 17,000 RPM and thus increases wear on the diamond drills.
The scope of delivery includes a 4.0 Ah battery as a standard battery and a 2.0 Ah battery, which, due to its smaller size, counteracts space problems.
The BRINKO diamond tile drills have a vapour-deposited carrier layer with a large proportion of coarse diamond pieces. The drilling performance is therefore more aggressive and faster, the drilling process generates less heat and therefore uses the integrated paraffin cooling wax (no water games in the almost finished bathroom). The high proportion of industrial diamonds (these have sharper edges than natural diamonds) also ensures long drilling pleasure for our drills up to scratch hardness 7.
As a sensible configuration, the BRIspeedDrill set contains high-quality diamond drills with paraffin cooling wax filling, 2 x 6 mm, 2 x 8 mm, 1 x 10 mm, 1 x 14 mm, as well as a set for polishing scratches and scrapes on ceramic and acrylic fittings or for removing lime residues on tiles from leaky valves (with polishing additive). The whole set is delivered in a high-quality, system-compatible BRIbox plastic case (metaBox) with a matching foam insert, where any missing part immediately stands out.
Achieving clean and precise hole drilling in tiles and porcelain stoneware tiles is the most economical and fastest method with the BRINKO BRIspeedDrill set.

Content:
- Cordless high-speed drill with 8,000 RPM
- DIAMOND tile drill BRIdiamondDrill
- Sizes 2x Ø 6 mm, 2x Ø 8 mm, Ø 10 mm, Ø 14 mm
- Battery type 12 V, 2 Ah and 12 V, 4 Ah
- Charger
- Adapter M14a
- Various polishing pads

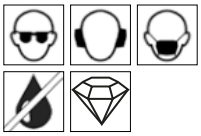


Art. no.	set	kg	PU
13810	16	3,880	1

DIAMOND core drills set BRIdiamondDrill

Drilling without a centring aid
7-pieces: Ø 2 x 6, 2 x 8, 10, 12, 14 mm

- connector M14 to be used with the angle grinder
- hi-grade diamond grains for fast working, provide clean results
- perfectly suited for drilling clean holes in granite and stone slabs, porcelain, ceramics and tiles
- extremely long service life thanks to high speeds (recommended: 8,000 – 14,000 rpm)
- special wax filling ensures cooling, no extra cooling required single hole drilling - only required if multiple holes are drilled

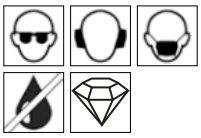


Art. no.	set	Ø	kg	PU
1381	7	6 - 14	0,442	1

DIAMOND core drills set BRIdiamondDrill

Drilling without a centring aid
7-pieces: Ø 3 x 6, 3 x 8, 10 mm

- connector M14 to be used with the angle grinder
- hi-grade diamond grains for fast working, provide clean results
- perfectly suited for drilling clean holes in granite and stone slabs, porcelain, ceramics and tiles
- extremely long service life thanks to high speeds (recommended: 8,000 – 14,000 rpm)
- special wax filling ensures cooling, no extra cooling required single hole drilling - only required if multiple holes are drilled

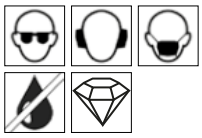


Art. no.	set	Ø	kg	PU
1381-7	7	6 - 10	0,414	1

DIAMOND core drills set BRIdiamondDrill

Drilling without a centring aid
7-pieces: Ø 2 x 6, 8, 10, 12, 14 mm
1 Centering Guide stainless 5 – 40 mm

- connector M14 to be used with the angle grinder
- hi-grade diamond grains for fast working, provide clean results
- perfectly suited for drilling clean holes in granite and stone slabs, porcelain, ceramics and tiles
- extremely long service life thanks to high speeds (recommended: 8,000 – 14,000 rpm)
- special wax filling ensures cooling, no extra cooling required single hole drilling - only required if multiple holes are drilled

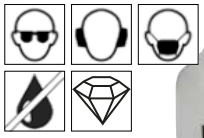


Art. no.	set	Ø	kg	PU
1381-6	7	6 - 14	0,836	1

DIAMOND core drills set BRIdiamondDrill

Drilling without a centring aid
4-pieces: Ø 2 x 6, 8, 10 mm

- connector M14 to be used with the angle grinder
- hi-grade diamond grains for fast working, provide clean results
- perfectly suited for drilling clean holes in granite and stone slabs, porcelain, ceramics and tiles
- extremely long service life thanks to high speeds (recommended: 8,000 – 14,000 rpm)
- special wax filling ensures cooling, no extra cooling required single hole drilling - only required if multiple holes are drilled



Art. no.	set	Ø	kg	PU
1381-4	4	6 - 10	0,250	1

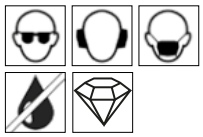
DIAMOND core drills BRIdiamondDrill

Advantages of the DIAMOND drills:

- precise positioning, minimum risk of slipping off
- Safety, Fast, Efficiency & Sophisticated design
- special wax filling ensure cooling, no cooling water required
- hex shank Ø 8,2 mm
- wax filled core helps cooling and lubricates, need not watering
- a strong bond is made through the brazing process extending service life
- Diamond coated design reduces cutting heat for 5X longer working life

Reliable cutting, drilling & grinding in the following materials:

- floor and wall tiles, hard porcelain
- granite and marble
- glass and fiberglass

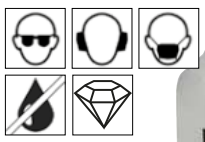


Art. no.	⟷	Ø	kg	PU
1379-3/5	67	5	0,015	1
1379-3/6 ✷	67	6	0,015	1
1379-3/8 ✷	80	8	0,021	1
1379-3/10 ✷	80	10	0,031	1
1379-3/12	80	12	0,034	1

DIAMOND core drills set BRIdiamondDrill

Drilling without a centring aid
4-pieces: Ø 2 x 6, 8, 10 mm

- hi-grade diamond grains for fast working, provide clean results
- perfectly suited for drilling clean holes in granite and stone slabs, porcelain, ceramics and tiles
- extremely long service life thanks to high speeds (recommended)
- special wax filling ensures cooling, no extra cooling required single hole drilling - only required if multiple holes are drilled

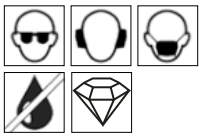


Art. no.	set	Ø	kg	PU
1379-4	4	6 - 10	0,700	1

DIAMOND core drills set BRIdiamondDrill

Drilling without a centring aid
7-pieces: Ø 2 x 6, 8, 10, 12, 14 mm
1 Centering Guide stainless 5 – 40 mm

- hex shank Ø 8 mm
- hi-grade diamond grains for fast working, provide clean results
- perfectly suited for drilling clean holes in granite and stone slabs, porcelain, ceramics and tiles
- extremely long service life thanks to high speeds (recommended)
- special wax filling ensures cooling, no extra cooling required single hole drilling - only required if multiple holes are drilled



Art. no.	set	Ø	kg	PU
1379-6	7	6 - 14	1,500	1

DIAMOND Core bit

- SDS-plus chuck adaptor
- internal thread M16
- diamond-encrusted cutting
- drilling depth 55 mm
- centring drill bit
- drift punch
- safe drilling for switches and sockets in concrete and stone walls
- not suitable for hammer drilling
- Spare parts on request.

Art. no.	Ø	kg	PU
1386/68	68	0,625	1
1386/82	82	0,820	1

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DIAMANT tile drills

DIAMOND tile drill

- diamond encrusted, durable blades
- for pinpoint accuracy and sharp-edged bores in hard and valuable materials e.g. tiles, porcelain, ceramics, granite, marble

Suitable for cordless machines, without cooling wax!

Art. no.	Ø	kg	PU
1385-1/5	5	0,059	1
1385-1/6	6	0,063	1
1385-1/8	8	0,068	1
1385-1/10	10	0,073	1
1385-1/12	12	0,078	1
1385-1/14	14	0,080	1

Sheet metal punch | Sheet metal drill

Sheet taper drill

- HSS
- for steel, Nirosta and V2A sheet metal
- non-ferrous metals, plastics, etc.

Art. no.	Ø	Size	kg	PU
915/1	6	3 - 14	0,028	1
915/2	8	6 - 20	0,054	1
915/7	10	6 - 30,5	0,164	1

Sheet taper drill set

- HSS
- supplied in plastic box:
- 3 sheet taper drills
- 1x drilling Ø 3 – 14 mm, shank 6 mm
- 1x drilling Ø 6 – 20 mm, shank 8 mm
- 1x drilling Ø 16 – 30 mm, shank 10 mm

Art. no.	quantity	kg	PU
917	4	0,543	1

Step drill

- HSS
- with 2 blades
- shank Ø 12 mm, 3 clamping areas
- with tapping device

7 (11) steps for through punch
PG: 7 - 9 - 11 - 13.5 - 16 - 21 - 29
Ø: 7 - 12.5 - 15.2 - 18.6 - 20.4 - 22.5 - 28.3 - 33 - 37 - 40

Art. no.	min. Ø	max. Ø	kg	PU
918	7	40	0,250	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Step drill

- HSS
- 11 steps for through holes
  Ø: 6,5 - 8,5 - 10,5 - 12,5 - 16,5 - 20,5 - 25,5 - 29,0 - 32,5 - 36,5 - 40,5

Art. no.	min. Ø	max. Ø	kg	PU
918-1	6,5	40,5	0,278	1

Double-hole punch | sink cracker

To securely fasten mixer taps and spigot taps in kitchen sinks and other sheet materials, precise and accurately sized mounting holes are required.
With the double-hole punch, mounting holes in the most commonly requested sizes Ø 32 mm and Ø 35 mm can be created cleanly and without contamination.

The double-hole punch is suitable for the following thicknesses:
- Iron, steel, copper, and aluminium sheets up to 2 mm
- Stainless steel sinks and other stainless steel sheets up to 1.5 mm

Art. no.	Hole Ø	kg	PU
914	32 + 35	0,350	1

Sheet metal punch

- with 3 blades
- for punching sheet metal made of Nirosta, aluminium, copper, brass, iron etc. as well as plastics

Art. no.	Ø	kg	PU
912/15	15	0,100	1
912/16	16	0,102	1
912/17	17	0,102	1
912/18	18	0,104	1
912/19	19	0,104	1
912/20	20	0,115	1
912/21	21	0,128	1
912/22	22	0,138	1
912/23	23	0,136	1
912/24	24	0,145	1
912/25	25	0,153	1
912/26	26	0,153	1
912/27	27	0,165	1
912/28	28	0,173	1
912/30	30	0,193	1
912/31	31	0,193	1
912/33	33	0,218	1
912/34	34	0,235	1
912/36	36	0,317	1
912/38	38	0,311	1
912/39	39	0,311	1
912/40	40	0,373	1
912/41	41	0,373	1
912/42	42	0,415	1
912/43	43	0,420	1
912/44	44	0,476	1
912/45	45	0,598	1
912/46	46	0,598	1
912/48	48	0,601	1
912/49	49	0,620	1
912/50	50	0,650	1
912/51	51	0,678	1
912/52	52	0,699	1
912/53	53	0,707	1
912/55	55	0,725	1

Sheet metal punch | Plumbing

- for sanitary installations
- with 3 blades
- for punching sheet metal made of Nirosta, aluminium, copper, brass, iron etc. as well as plastics

Art. no.	Ø	kg	PU
910/11/8	28,5	0,192	1
910/11/4	31,7	0,249	1

Sheet metal punch | Electric

- for electric installations
- with 3 cutters
- for punching sheet metal made of Nirosta, aluminium, copper, brass, iron, etc. as well as plastics

Art. no.	Ø		kg	PU
900/9	15,2	PG9	0,096	1
900/11	18,6	PG11	0,150	1
900/13,5	20,4	PG13,5	0,126	1
900/16	22,5	PG16	0,128	1
900/21	28,3	PG21	0,122	1
900/29	37	PG29	0,189	1
900/36	47	PG36	0,587	1
900/42	53,9	PG42	0,682	1
900/48	60	PG48	0,959	1

Sheet metal punch | Electric

- for electric installations
- for electric through-holes

Art. no.	Ø	kg	PU
905/16,5	16,5	0,112	1
905/20,5	20,5	0,117	1
905/25,5	25,5	0,120	1
905/32,5	32,5	0,217	1
905/40,5	40,5	0,372	1
905/50,5	50,5	0,626	1
905/63,5	63,5	0,753	1

Replacement screw

Suitable for sheet metal punches:

- thread 10 x 1 mm, length 55 mm
- thread 12 x 1,5 mm, length 70 mm
- thread 16 x 1,5 mm, length 80 mm

Art. no.	Ø	kg	PU
913/8x1	8	0,021	1
913/10x1	10	0,041	1
913/12x1,5	12	0,067	1
913/16x1,5	16	0,151	1

Art. no.	for Art. 900	for Art. 905	for Art. 910	for Art. 912
913/8x1	PG 9			Ø 15 mm
913/10x1	PG 11,5 - 29	Ø 16,5 - 32,5 mm	1 1/8" + 1 1/4"	Ø 16 - 34 mm
913/12x1,5	PG 36	Ø 40,5 mm		Ø 36 - 50 mm
913/16x1,5	PG 42 – 48	Ø 50,5 – 63,5 mm		Ø 51 – 55 mm

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Hole saws

BRINKO®
powered by haupa®

HSS-bi-metal hole saw set | Plumbing standard

- supplied in unbreakable plastic case, 6 pieces:
  5 HSS-bi-metal hole saws Ø 44, 57, 68, 75, 114 mm, 4 – 6 tpi
  1 SDS chuck adaptor with HSS drill
- cutting depth 40 mm
- for steel, non-ferrous metals, HT pipe, wood and aerated concrete
- also ideal for switches and sockets
- all hole saws are also available individually Art. no. 1380

Art. no.	set	kg	PU
1384 ✸	6	3,665	1

HSS-bi-metal hole saw

- with variable teething, 4 – 6 tpi
- cutting depth 40 mm
- suitable for steel, non-ferrous metal, wood and aerated concrete
- other sizes available on request

Art. no.	Ø	kg	PU
1380/22	22	0,054	1
1380/25	25	0,052	1
1380/29	29	0,084	1
1380/32	32	0,085	1
1380/35	35	0,102	1
1380/38	38	0,093	1
1380/44 ✸	44	0,112	1
1380/51	51	0,107	1
1380/57 ✸	57	0,146	1
1380/64	64	0,148	1
1380/68 ✸	68	0,200	1
1380/75	75	0,212	1
1380/114 ✸	114	0,415	1
1380/121	121	0,538	1

HSS-bi-metal hole saw set | Electro

- Supplied in unbreakable plastic case, 8 pieces:
  6 HSS-bi-metal hole saws Ø 22, 29, 35, 44, 51, 64 mm, 4 – 6 tpi
  1 SDS chuck adaptor with HSS drill 14 – 30 mm
  1 SDS chuck adaptor with HSS drill 32 – 152 mm
- cutting depth 40 mm
- for steel, Nirosta, non-ferrous metals, wood and aerated concrete

Art. no.	set	kg	PU
1382	8	0,933	1

HSS guide drill

- suitable for SDS chuck adaptor Art. no. 1380-2 and hexagonal chuck adaptor Art. no. 1380-3

Art. no.	⟷	for	kg	PU
1380-1/70	70	SDS chuck	0,014	1
1380-1/105	105	hexagonal	0,020	1

SDS chuck adaptor with drill

- with HSS guide drill
- wuitable for hole saws Art. no. 1380
- spare part for hole saw set Art. no. 1382 and 1384

Art. no.	Ø	kg	PU
1380-2/1	14 - 30	0,086	1
1380-2/2	32 - 152	0,240	1

Hexagonal chuck with drill

- with HSS guide drill Art. no. 1380-1/105
- wuitable for hole saws Art. no. 1380
- spare part for hole saw set Art. no. 1382 and 1384

Art. no.	Ø	kg	PU
1380-3/1	14 - 30	0,077	1
1380-3/2	32 - 152	0,190	1

Screw remover

- Chrome vanadium steel
- twist drill

Art. No. Tip Ø Shank Ø Screws
1085/1 1.75 mm 3.97 mm M 3-6
1085/2 2.2 mm 4.76 mm M 6-8
1085/3 3.3 mm 6.35 mm M 8-11

Art. no.	⟷	Size	kg	PU
1085/1	50,8	3 - 6	0,004	1
1085/2	60,3	6 - 8	0,007	1
1085/3	68,3	8 - 11	0,012	1

Screw remover set

- Chrome vanadium steel
- twist drill
- supplied in a plastic box

Art. no.	set	Size	kg	PU
1086/1-5	5	1 - 5	0,110	1
1086/1-6	6	1 - 6	0,217	1
1086/1-8	8	1 - 8	0,723	1

Saws & saw blades

BRINKO®
powered by haupa

INFO

Reciprocating saw blades for all applications

BRINKO saw blades, made from European quality steel, and our experience lead to the best solutions for your project.
Depending on the material, whether hard materials (e.g. iron, stainless steel, hardwood and tiles) or soft materials (e.g. softwood, chipboard and plastic) and the desired cutting quality, you will find the right saw blade at BRINKO.
The fine-toothed saw blades for cutting thin/thin-walled materials ensure a clean, tear-free cut with minimal damage to the material. With our coarse-toothed saw blades for cutting in large dimensions, you can achieve a fast and rough cut in plastics, wood and metals.
In addition, the different toothing of the saw blade is decisive for the desired cutting structure.
Additional cooling (cutting oil article 1771 for steel and metal, water for plastics) increases the service life and wear resistance of the saw blades.

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

INFO

Saw blade selection, cutting quality

THE RIGHT SAWBLADE SELECTION
Our new reciprocating saw blade and packaging design guarantees quick and correct saw blade selection for the material to be cut. Depending on the material, specific reciprocating saw blades are used and an optimum sawing result is guaranteed.

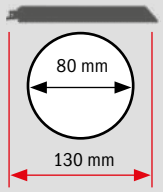
Teeth per inch (ZpZ)
determine the cutting quality and speed

Suitable for all Recipro, reciprocating and tiger jigsaws:
AEG, Black&Decker, Bosch, DeWALT, Fein, Flex, HILTI, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Roller, WÜRTH etc.

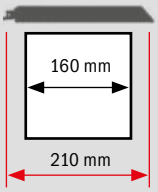
INFO

Blade length

Rule of thumb
2 - 3 teeth should always saw in the material
Material width + 50 mm = blade length



Beispiel 1
80 mm Rohr + 50 mm = 130 mm



Beispiel 2
160 mm Balken + 50 mm = 210 mm

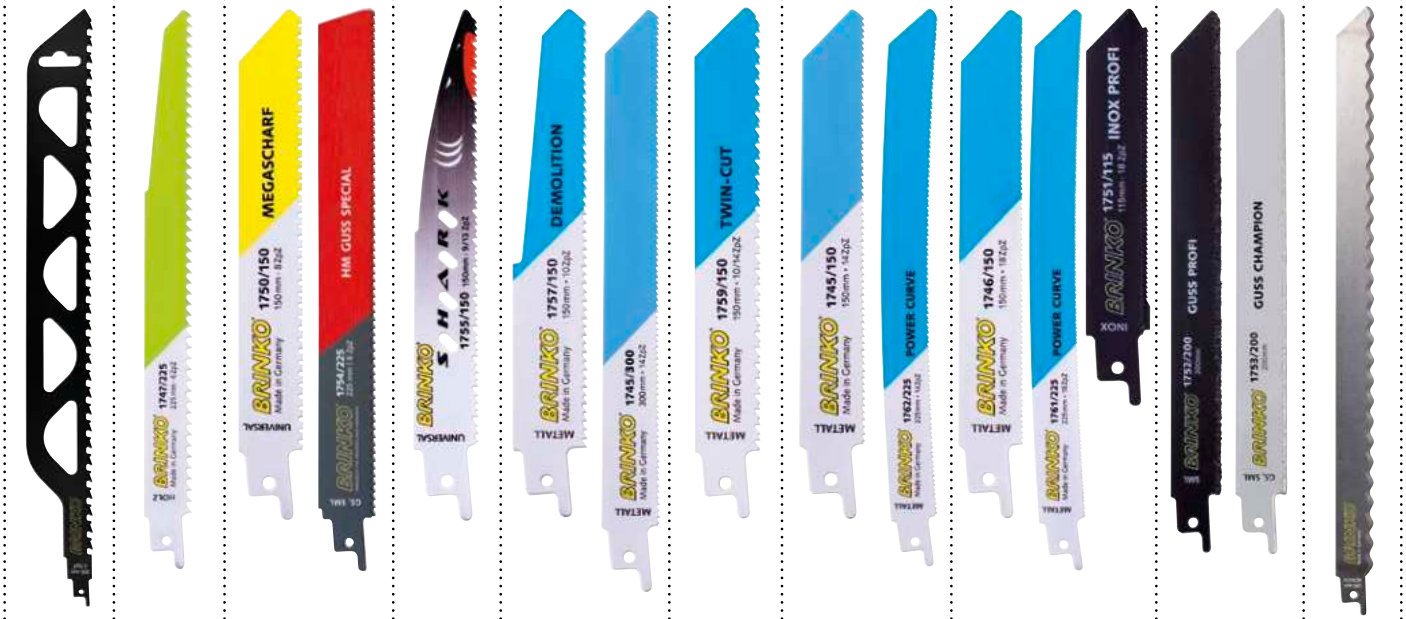
Teeth Per Inch (TPI)

FEE TEETH — **COARSE CUT** — **MANY TEETH** — **CLEAN CUT**

CUTTING QUALITY

FAST — **CUTITNG SPEED** — **SLOW**

2 TPI	6 TPI	8 TPI	9/13 TPI	10 TPI	10/14 TPI	14 TPI	18 TPI	GRIT	Serrated edge



Art. no.	1763	1747	1750	1754	1755	1757	1745	1759	1745	1762	1746	1761	1751	1752	1753	1764
Lenght (mm)	305 455	225	150 200 280	225	150	150 225 300	300	150 225 280	150 200	150 225	100 150	150 225	115	200	200	300

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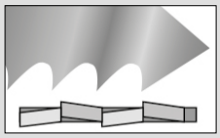
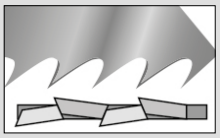
INFO

Toothing types, cutting performance

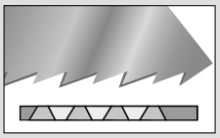
The type of toothing and the tooth geometry determine the cutting result.



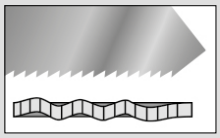
Set teeth:
Rough cuts



Set, diagonally sharpened teeth:
Rough, fast cuts



Diagonally sharpened teeth:
Blade body conically ground; precise, clean cuts



Wavy serration:
Fine, clean cuts

Sabre saw blade		Art. No.	Lenght mm	Recommendation	Teeth Per Inch (TPI)
INOX Profi		**1751/115**	115	**without stroke action**	**18**
Metal		**1745/150** ✷ **1745/200** ✷ **1745/300** ✷	150 200 300	**without stroke action**	**14** **14** **10**
Metal		**1746/100** ✷ **1746/150** ✷	100 150	**without stroke action**	**18**
Metal POWER CURVE		**1761/150** **1761/225**	150 225	**without stroke action**	**18**
Metal POWER CURVE		**1762/150** **1762/225**	150 225	**without stroke action**	**14**
Metal DEMOLITION		**1757/150** **1757/225** **1757/300**	150 225 300	**without stroke action**	**10**
Metal TWIN-CUT		**1759/150** **1759/225** **1759/280**	150 225 280	**without stroke action**	**10/14**
Universal SHARK		**1755/150**	150	**without stroke action**	**9/13**
Universal MEGASHARP		**1750/150** ✷ **1750/200** ✷ **1750/280**	150 200 280	**with stroke action**	**8**
HM CAST SPECIAL		**1754/225**	225	**without stroke action**	**8**
Guss CHAMPION		**1753/200** ✷	200	**without stroke action**	**Grit**
CAST CHAMPION		**1752/200** ✷	200	**without stroke action**	**Grit**
Wood		**1747/225**	225	**with stroke action**	**6**
HM SPECIAL		**1763/305** **1763/455**	305 455	**with/without stroke action**	**2**
SHAFT GRINDING		**1764/300**	300	**with/without stroke action**	**Shaft grinding**

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

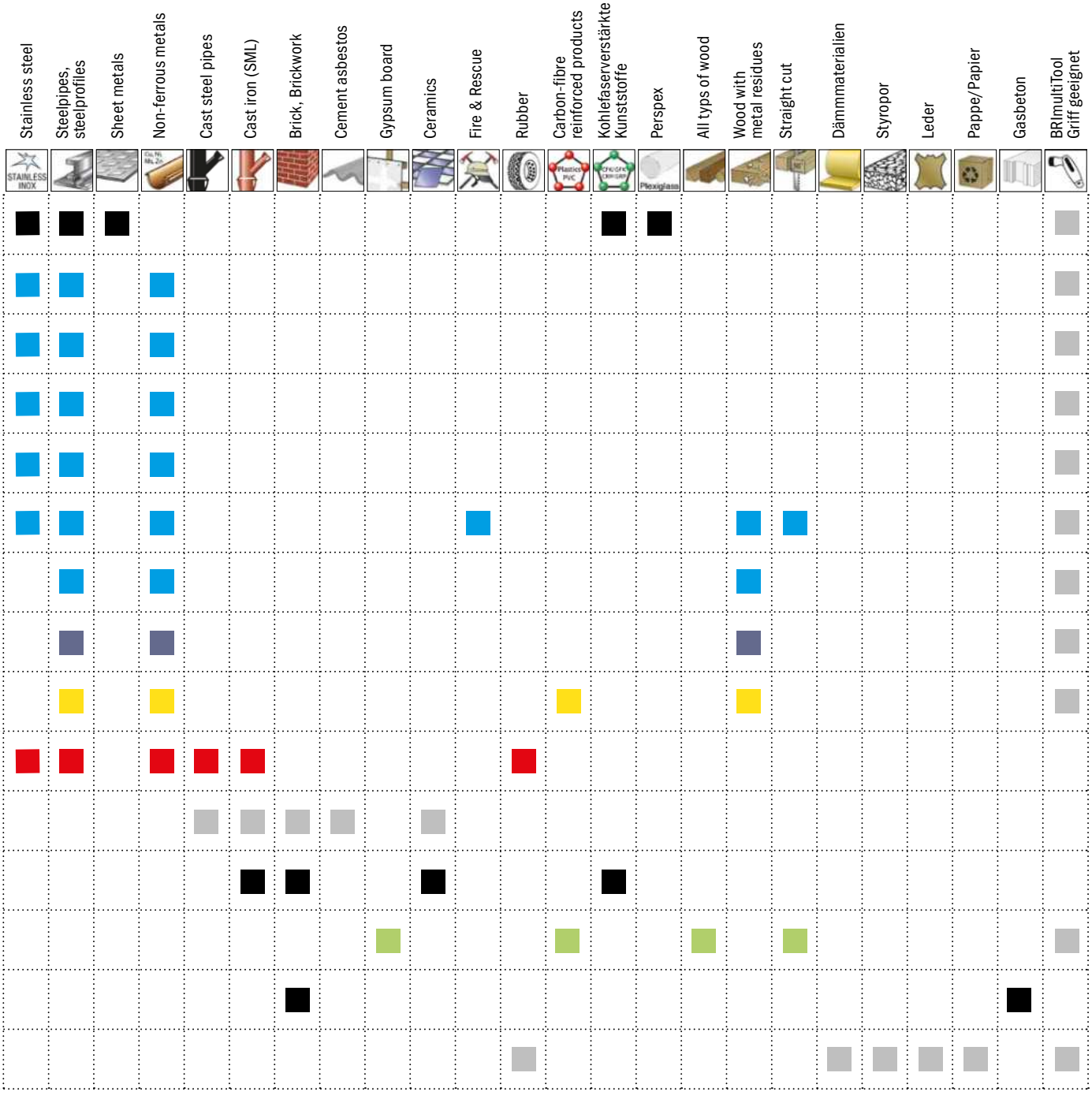
Application overview

INFO

Reciprocating saw blades

The performance of a saw blade depends on the material quality, the type of toothing and the tooth geometry

These factors, in combination with correct machine handling and the right choice of saw blade for the material to be cut, guarantee optimum sawing results.



Attention: Use bi-metal reciprocating saw blades with reduced speed and cooling when sawing stainless steel.

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Sabre Saw Blades

Sabre saw blade INOX Profi

Without stroke action
Special saw blade for sheets and profiles made of stainless steel, glass-fibre, CRP, GRP, epoxy and Perspex
- tungsten carbide strip with grinded teeth, 18 tpi
- toothed length 95 mm

Art. no.		TPI	Dimension	kg		PU
1751/115	115	18	115 x 19 x 1,25	0,025	1	1

Sabre saw blade Metal

Without stroke action
Topseller - Standard saw blade
for steel, stainless steels (INOX), profiles and non-ferrous metals from 3 to 12 mm
- HSS-Bi-metal
- teeth milled and wavy set

Art. no.		TPI	Dimension	kg		PU
1745/150 ✷	150	14	150 x 19 x 0,9	0,017	25	5
1745/200 ✷	200	14	200 x 19 x 0,9	0,022	25	5
1745/300 ✷	300	10	300 x 19 x 0,9	0,033	25	5

Sabre saw blade Metal

Without pendulum action
Top seller - standard saw blade for steel and stainless steels (3.0 - 12 mm)
- HSS bi-metal
- Teeth milled and set

Art. no.		TPI	Dimension	kg		PU
1746/100 ✷	100	18	100 x 19 x 0,9	0,061	25	1
1746/150 ✷	150	18	150 x 19 x 0,9	0,016	25	1

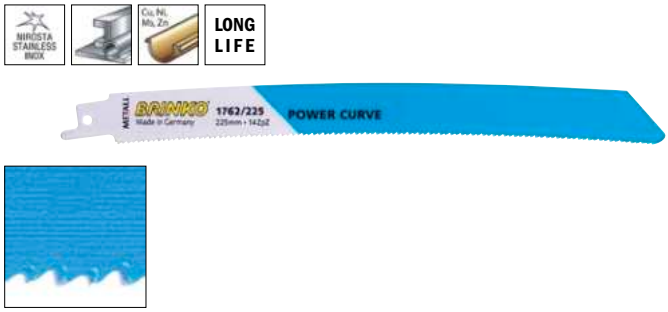
Sabre saw blades Metal POWER CURVE

Without pendulum action
Flexible universal blade for steel and stainless steels from 1.5 - 2.5 mm
- Milled and serrated teeth, 18 tooth pitch
- more teeth are in use thanks to the curved blade shape
- for faster cuts and longer service life

Art. no.		TPI	Dimension	kg		PU
1761/150	150	18	150 x 19 x 0,9	0,026	25	5
1761/225	225	18	225 x 19 x 0,9	0,039	25	5

Sabre saw blades Metal POWER CURVE

Without stroke action
Flexible all-round blade for steel and stainless steel from 2,0 – 8,0 mm and non-ferrous metals
- teeth milled and wavy set, 14 tpi
- curved blade for faster cuts and longer lifetime
- flexible all-round blade for steel and stainless steel from 2 to 8 mm and non-ferrous metals



Art. no.		TPI	Dimension	kg		PU
1762/150	150	14	150 x 19 x 0,9	0,026	25	5
1762/225	225	14	225 x 19 x 0,9	0,039	25	5

Sabre saw blades Metal DEMOLITION

Without stroke action
Especially for dismantling
Special thick and robust blade for fast and straight cuts in steel thicker than 3 mm and all types of wood with metal residues
- teeth milled and side set, 10 tpi

Art. no.		TPI	Dimension	kg		PU
1757/150	150	10	150 x 22 x 1,57	0,039	15	3
1757/225	225	10	225 x 22 x 1,57	0,061	15	3
1757/300	300	10	300 x 22 x 1,57	0,084	15	3

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

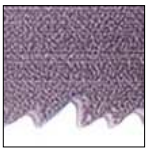
Sabre saw blades Metal TWIN-CUT

Without stroke action
but can also withstand pendulum strokes
With innovative Twin-Cut tooth geometry for better performance and longer lifetime
For steelpipes and –profiles thicker than 2.5 mm, non-ferrous metals, aluminum and wood with metal residues
- flexible bi-metal blade
- teeth milled and side set, flexible
- with innovative 10/14 tooth geometry for better performance and longer lifetime

Art. no.	⟷	TPI	Dimension	kg		PU
1759/150	150	10	150 x 19 x 0,9	0,026	25	5
1759/225	225	10	225 x 19 x 0,9	0,040	25	5
1759/280	280	10	280 x 19 x 0,9	0,050	25	5

Sabre saw blade Universal SHARK

Without stroke action
Considerably longer durability by a better heat dissipation due to the cooling slots
Universal applicable for steelpipes and -profiles, non-ferrous metals, wood with metal residues 2.0 – 10.0 mm
- teeth milled and side set
- with innovative 9/13 two-stage toothing



Art. no.	⟷	TPI	Dimension	kg		PU
1755/150	150	9	150 x 19 x 0,9	0,024	25	1

Sabre saw blades Universal MEGASHARP

Best results at highest machine speed with pendulum stroke
Universal blade, in particular for steel from 1.5 – 6 mm wall thickness
- HSS-bi-metal
- unique M-toothing for very quick and precise cuts and an above-average life

Art. no.	⟷	TPI	Dimension	kg		PU
1750/150 ✸	150	8	150 x 19 x 0,9	0,020	25	5
1750/200 ✸	200	8	200 x 19 x 0,9	0,025	25	5

Sabre saw blade HM CAST SPECIAL

Without stroke action
Hard-metal toothing, Especially suitable for diffcult-to-cut metals, e.g. cast steel pipes, cast, iron (red SML), stainless steel, nonferrous, metals, construction steel, reinforcement, steel pipes, angle irons, rubber with steel mantle (< 175 mm)
- tooth pitch 3.2 mm | 8 tpi
- length 225 mm, toothed length 205 mm
- width 25 mm | material thickness 1.5 mm>

Art. no.	⟷	TPI	Dimension	kg		PU
1754/225	225	8	228 x 25 x 1,5	0,063	1	1

Sabre Saw Blades

Sabre saw blade CAST CHAMPION

Without stroke action
Diamant carbide gritted. Special saw blade for cast steel-pipes, cast iron, brick, ceramics and glass-fibre reinforced products (GRP)
- diamond coating, clean and straight cut
- much quicker cut and longer service life than normally coated saw blades

Art. no.		Dimension	kg		PU
1753/200 ✷	200	200 x 19 x 1,05	0,040	1	1

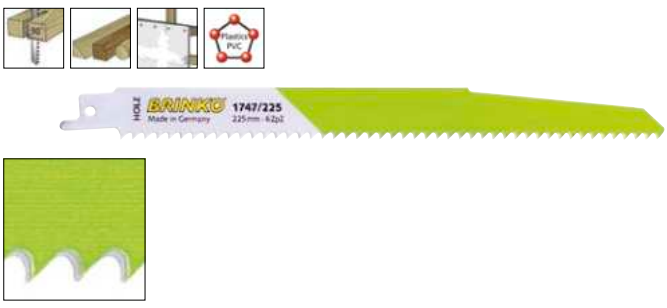
Sabre saw blade CAST PROFI

With/without stroke action
With carbide granulate coating special for SML pipes (cast), glass, ceramics, GRP materials

Art. no.		Dimension	kg		PU
1752/200 ✷	200	200 x 19 x 1,05	0,040	10	2

Sabre saw blade Wood

With/without stroke action
Standard blade for wood, but now new cross-ground toothing
For quick, straight cuts on all types of wood, plastic and drywall (6 – 100 mm)
- HCS/CV steel, teeth 6 tpi
- teeth milled and side set



Art. no.		TPI	Dimension	kg		PU
1747/225 ✷	225	6	225 x 19 x 1,27	0,030	20	5

Sabre saw blade HM SPECIAL

Premium reciprocating saw blade in craftsman quality with standard 1/2“ mount and carbide toothing.
The large recesses in the saw blade body ensure a quiet, low-vibration and straight cut. At the same time, the chipped material is quickly removed so that a consistently
high cutting speed is guaranteed during the cut.

- for special applications
- for fast and angular cuts in highly abrasive special materials, e.g. hollow blocks of Poroton, aerated concrete etc.
- High durability and long service life
- extra wide blade
- recommended material thickness:

Art. no.		TPI	Dimension	kg		PU
1763/305	305	2	305 x 50 x 1,5	0,095	25	1
1763/455	455	2	455 x 50 x 1,5	0,165	25	1

Sabre saw blade WELLENSCHLIFF

Premium reciprocating saw blade in craftsman quality with standard 1/2“ mount and high-quality serrated edge ground on both sides, with a 10 mm shaft distance for special use on soft fabrics and non-abrasive soft materials

- for special applications
- double serrated edge
- high durability and long service life
- fast and cleanest cuts in mineral wool, foams (EPS/PUR), Styrodur, polystyrene, leather, rubber, paper, carpet < 250 mm
- Material: Alloyed tool steel HCS/CV

Art. no.		Dimension	kg		PU
1764/300	300	300 x 19 x 1,27	0,047	25	2

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

Sabre Saw Blades

Handle BRImultiTool

The BRImultiTool handle is a universal tool for sawing and screwing and can be used flexibly. The angled handle increases power transmission and enables ergonomic working.

- the universal handle accepts reciprocating saw blades as well as standard bits
- easy tool change due to rotating fastening ring
- can also be used in hard-to-reach places where machine use is no longer possible
- includes bit magazine for 6 bits (without bits)
- in combination with the reciprocating saw blade WELLENSCHLIFF Art. No. 1764/300 perfectly suitable for cutting insulating materials, soft materials, cardboard, polystyrene, foams etc.
- in combination with other suitable saw blades also suitable for simple work in wood and metal

Application examples BRImultiTool handle

Reciprocating saw blades or bits are NOT included in the scope of delivery of the BRImultiTool handle!

Art. no.	kg	PU
1737	0,020	1

Sabre saw blades (U-shank)

For pipes, steel, stainless steel, nonferrous metals, cast iron, hard plastic
- HSS-Bi-metal, material strength 0.9 mm
- width 25 mm, teeth 14 tpi
- suitable for recipro sabre and tiger jigsaws made by Rems and Roller

Art. no.	↔	TPI	Dimension	kg	PU
1743/150	150	14	150 x 25 x 0,9	0,021	1
1743/200	200	14	200 x 25 x 0,9	0,032	1

Jigsaw blades

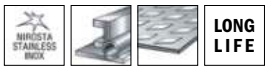
Jigsaw blade Wood

Fast cut in all wood types (5.0 – 50 mm)
Long lifetime
- HSS-Bi-metal
- side set and diagonally sharpened teeth
- tooth spacing 4 mm
- universal blade for all wood

Art. no.	↔	TPI	Dimension	kg	PU
1756/75	100	6,35	100 x 7,8 x 1,27	0,020	1

Jigsaw blade Metal

Flexible blade for steel and stainless steel (1.2 – 3.0 mm)
Long lifetime
- HSS-Bi-metal
- teeth milled and wavy set
- tooth spacing 1.2 mm



Art. no.	↔	TPI	Dimension	kg	PU
1758/55	76,5	21	76,5 x 7,8 x 1,0	0,005	1
1758/105	126,5	21	126,5 x 7,8 x 1,0	0,010	1

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Cutting Discs

Cut-off disk | Steel

- approved according to VBG
- for separating steel and other metals
- thickness 3.2 mm
- bore 22 mm

Art. no.	Ø	kg	PU
6200/115 ✷	115	0,074	25
6200/125 ✷	125	0,087	25
6200/230 ✷	230	0,305	25

Cut-off disk | INOX

- certified according to VBG
- for cutting stainless steel, steel and other metals
- thickness 1.2 mm or 1.6 mm (with diameter 150 mm)
- bore 22 mm

Art. no.	Ø	thickness	kg	PU
6215/115 ✷	115	1,2	0,025	25
6215/125 ✷	125	1,2	0,030	25
6215/150 ✷	150	1,6	0,030	25
6215/230 ✷	230	2,0	0,200	25

Diamond cutting and chamfering disc

- Diamond coating
- long service life
- for cutting and chamfering all plastic pipes in one work process
- particularly suitable for all plastic drain pipes, e.g. KG, HT
- Ø 125 mm

Art. no.	Ø	kg	PU
6219/125	125	0,400	1

Diamond cutting disc

- certified according to VBG
- sintered
- universal use for wet and dry cutting of almost all materials
- segment height 8 mm
- cut thickness 2 mm
- bore 22 mm

Art. no.	Ø	kg	PU
6240/115 ✷	115	0,112	1
6240/125 ✷	125	0,142	1
6240/180	180	0,364	1
6240/230	230	0,637	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

Accessories | Chemistry

Sealing Tools

Sealing pliers

- polished, nickel-plated
- handles plastic-coated, red
- with a stamp

Art. no.	↔	Ø	kg	PU
546/130	130	8	0,246	1
546/150	150	9	0,330	1
546/170	170	10	0,484	1

Sealing stamp

- suitable for sealing pliers Art. no. 546
- signatures according to customer request

Art. no.	Ø	kg	PU
546-1/8	8	0,003	1
546-1/9	9	0,003	1
546-1/10	10	0,003	1

Sealing stamp

- suitable for sealing stamp Art. no. 546-1

Art. no.	Number of jobs	kg/100	PU
546-10	1	0,000	1
546-20	2	0,000	1
546-30	3	0,000	1
546-40	4	0,000	1
546-50	5	0,000	1
546-60	6	0,000	1

Lead seal

- packaged at 1 kg each

Art. no.	Ø	kg	PU
548/8	8 mm	1,005	1
548/9	9 mm	1,012	1
548/10	10 mm	1,016	1

Seal wire

- length 180 mm
- grouped together 1000 units

Art. no.	↔	kg	PU
550/180	180	0,484	1

Seal wire

- on cardboard roll
- 500 gr
- wire thickness 0.5 x 0.3 mm
- length approx. 115 m

Art. no.	↔ m	kg	PU
551/500	115	0,578	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Cartridge gun

- housing made of sheet metal, can be rotated
- suitable for 310 ml 1K cartridges
- handgrips made of aluminium
- integrated needle to clean the tip of the cartridge
- length 400 mm

Art. no.	max. Ø	max. L	kg	PU
1362 ✷	51	340	0,555	1

Cartridge gun

- professional cartridge holder made of sheet steel, suitable for 310 ml 1K cartridges
- wear-free, hardened and specially chrome-plated drives V=4 mm/ stroke, thrust 1000 N
- rubber padding on the handles
- stiff and torsion-free housing
- length 410 mm

Art. no.	max. Ø	max. L	kg	PU
1365	51	340	0,985	1

Hemp dispenser

- approx. 80 g hemp coil
- in plastic box

Art. no.	kg	PU
3820	0,104	1

Hemp coil

- approx. 80 g hemp coil

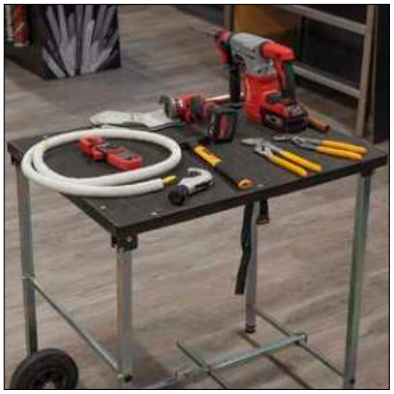
Art. no.	kg	PU
3825	0,090	1

Work tables

BRImobileWork folding workbench

Back-friendly work with maximum work safety!
Easy to transport with one hand - effortless to move thanks to wheels and pull rod, simple folding mechanism - quick to assemble.
Safe stand!
The compact folding workbench „BRImobileWork“ offers the perfect balance of weight, mobility, stability, size and functionality. Ideal for use on construction sites, as well as space-saving and mobile.

- Weight under 20 kg
- Work surface 785 x 585 mm and a 30 mm thick screen-printed plate
- Working height 800 - 825 mm thanks to four adjustable feet to compensate for uneven surfaces
- Load capacity up to 200 kg (surface load)
- Dimensions when folded 785 x 250 x 585 mm
- Two large plastic wheels and fold-out pull rod for easy transport when folded up
- Can be moved over the two wheels when assembled by tilting the workbench
- Table legs made of galvanized square tube are locked by a crossbar with a spring mechanism for a firm stand
- Screen-printed plate with anti-slip surface and framed in T-profile steel frame
- Vice and other holding systems can be mounted



Art. no.	kg	PU
5641/800	18,750	1

Aluminium support brackets

Aluminium support brackets

- suitable for vices

Art. no.	Width	kg	PU
231/135	135	0,158	1
231/150	150	0,183	1

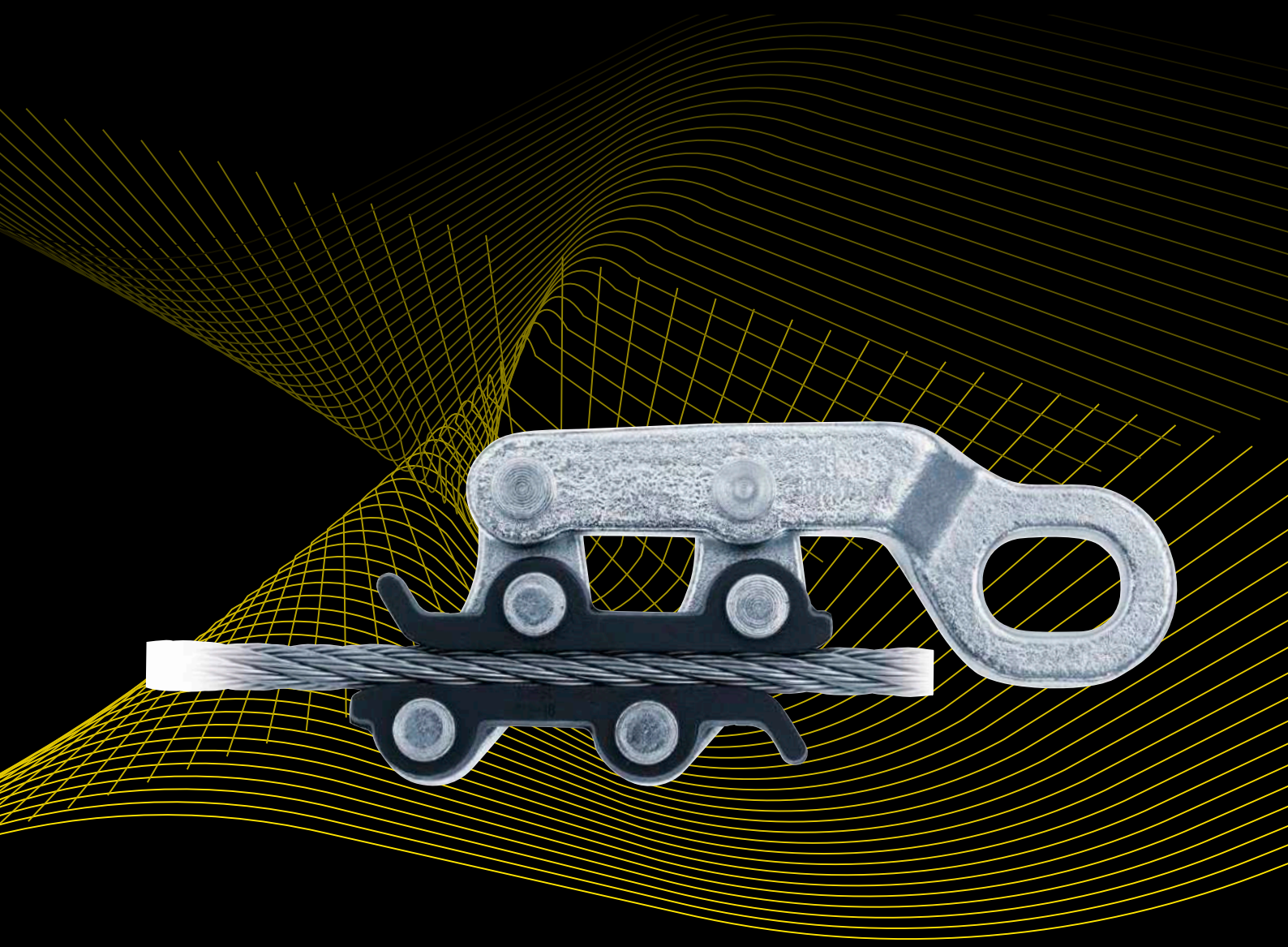
Chemistry

Cutting oil, DVGW certified

- provides optimal lubrication when cutting & drilling
- cooling lubricant for drinking water installations and other applications
- free of mineral oil, fully synthetic, completely water soluble
- excellent lubrication properties for all cutting and drilling work
- can be used undiluted with all commercially available thread cutting machines
- even at high cutting speeds

Art. no.	ml	kg	PU
1771	400	0,384	1

Rope Tools



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Wire Grips | Insulated

Wire Grips for bundle assembled aerial cables (single or more core), aerial bundled conductors

- also suitable for ropes made of natural and synthetic fibers
- corrosion protection: galvanised
- easy handling, remote release possible
- self-acting and slip-resistant holding due to spring effect on the tensioned cable, even at maximum traction

WARNING: Do not exceed load capacity of the wire grips!

Art. no.	Ø	Rope mm²	Breaking load kg	kg	PU
3466/1	8 - 25	16 - 35	1.250	0,950	1
3466/2	16 - 34	35 - 70	3.000	2,190	1
3466/3	28 - 45	95 - 150	4.500	3,200	1

Wire Grips | Universal

Wire Grips for profile bar, flat bar and rail systems

- long, parallel tension clamping jaws – not profiled; therefore no material damage
- corrosion protection: galvanised and burnished components
- easy handling, remote release possible
- self-acting and slip-resistant holding due to spring effect on the tensioned cable, even at maximum traction

WARNING: Do not exceed load capacity of the wire grips!

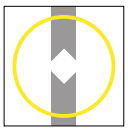
Art. no.	Ø	Breaking load kg	kg	PU
3467/1	1 - 9	2.500	0,850	1
3467/3	1 - 18	7.000	1,850	1

Wire Grips | Copper and Steel

Wire Grips for copper and steel cables

- long, parallel tension clamping jaws – specifically designed; therefore no material damage
- corrosion protection: galvanised and burnished components
- easy handling, remote release possible
- self-acting and slip-resistant holding due to spring effect on the tensioned cable, even at maximum traction
- wide range of application in manufacturing, agriculture and bridge construction

WARNING: Do not exceed load capacity of the wire grips!



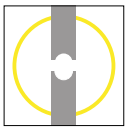
Art. no.	Ø	Rope mm²	Breaking load kg	kg	PU
3468/0	1 - 5	1 - 16	1.250	0,260	1
3468/1	3 - 9	6 - 35	2.500	0,845	1
3468/2	4 - 12	16 - 70	4.500	1,255	1
3468/3	6 - 18	50 - 150	7.000	1,665	1
3468/4	10 - 28	90 - 400	8.000	4,000	1
3468/5	20 - 40	240 - 800	9.000	6,000	1

Wire Grips | Aluminium

Wire Grips for aluminium cables with and without a steel core

- long, parallel tension clamping jaws – specifically designed; therefore no material damage
- corrosion protection: galvanised
- easy handling, remote release possible
- self-acting and slip-resistant holding due to spring effect on the tensioned cable, even at maximum traction
- wide range of application in manufacturing, agriculture and bridge construction

WARNING: Do not exceed load capacity of the wire grips!



Art. no.	Ø	Rope mm²	Breaking load kg	kg	PU
3469/1	5.4 - 8.5	25 - 35	2.000	0,830	1
3469/2	5 - 12	16 - 70	3.400	1,270	1
3469/3	8 - 18	50 - 150	6.000	1,800	1
3469/4	15 - 28	120 - 400	7.000	4,000	1
3469/5	20 - 40	240 - 800	9.000	6,000	1

PU Packing unit

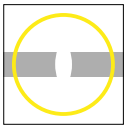
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Wire stretcher

Wire stretcher for tensioning clamping ropes, wire and rods
- high quality material: thick steel
- corrosion-protected: all steel parts are galvanised
- simple to use, free moving clamping jaws with large rivets
- low weight
- The rope clamps are optimised to make them particularly light, handy, and user-friendly.
- Their load-bearing capacity is a thousand times their dead weight for the normal versions.

WARNING: Do not exceed load capacity of the wire grips!



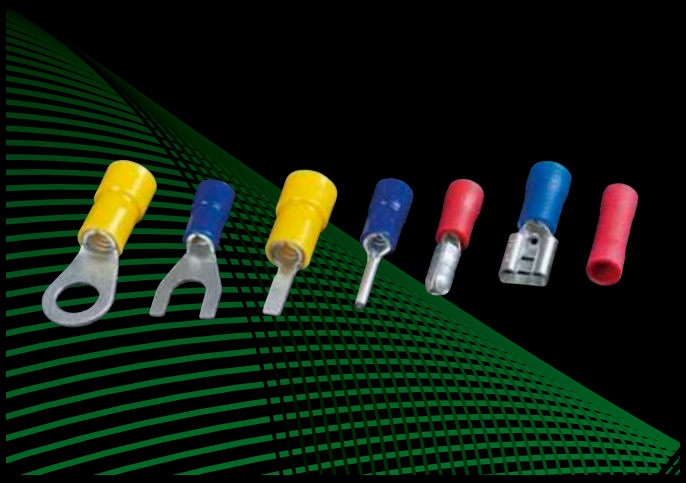
Art. no.	Ø	Breaking load kg	kg	PU
3462/1-3	1 - 3	400	0,110	1
3462/1-4	1 - 4	500	0,260	1
3462/1-6	1 - 6	800	0,480	1
3462/1-8	1 - 8	1.200	0,620	1
3462/1-12	1 - 12	1.800	1,000	1
3462/10-25	10 - 25	3.000	2,620	1

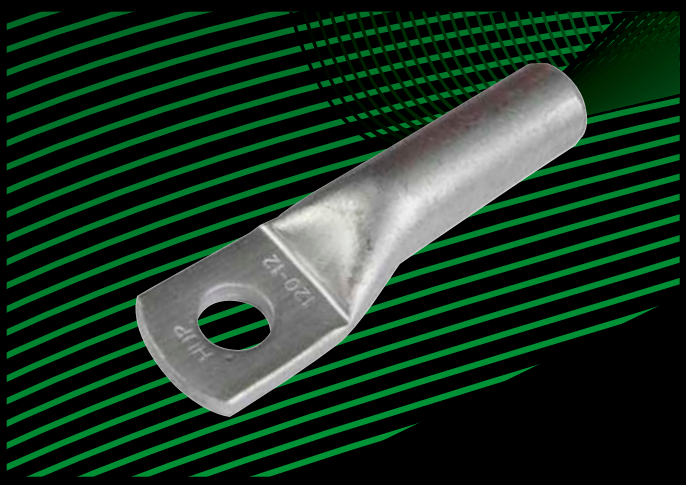
Hand pulley rope

- made of soft-fibre hemp
- length 20 m
- thickness 10 mm

Art. no.	⟷ m	Ø	kg	PU
3495/10	20	10	1,271	1

Content HAUPA





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Cable cutters

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... convincing solutions

External Ø of wires and cables (average)

No. of wires Cross-section in mm²	External-Ø NYM mm	External-Ø NYY (ca.) mm	External-Ø NYCY (ca.) mm	External-Ø HO5RR-F (ca.) mm	External-Ø HO7RN-F (ca.) mm
2 x 1,5	8,4 – 8,9	11	12	10,5	11,5
2 x 2,5	9,6 – 11	13	13	12,5	13,5
2 x 4	11 – 12,5	14	15	11	12,5
2 x 6	12 – 13,5	15	16	13	14,5
2 x 10	15 – 17	17	17,5	–	16
2 x 16	17 – 20	19	20	–	20
2 x 25	21 – 24	23	–	–	25,5
2 x 35	23,5 – 27,5	–	–	–	29
3 x 1,5	8,8 – 10,5	12	13	–	–
3 x 2,5	10 – 11,5	13	14	–	–
3 x 4	11,5 – 13	15	15	–	–
3 x 6	12 – 15	16	17	–	–
3 x 10	16 – 18	19	18,5	–	–
3 x 16	18,5 – 22	20	20,5	–	–
3 x 25	22,5 – 26	24	26,5	–	–
3 x 35	25 – 29,5	23	28	–	–
3 x 35/16	–	26	25	–	–
3 x 50/25	–	30	32	–	–
3 x 70/35	–	31	32	–	–
3 x 95/50	–	36	37	–	–
3 x120/70	–	39	39	–	–
3 x 150/70	–	43	43	–	–
4 x 1,5	9,5 – 11	13	14	12,5	13,5
4 x 2,5	11 – 12,5	14	15	14	15,5
4 x 4	12,5 – 14,5	16	16	–	18
4 x 6	14,5 – 16,5	17	18	–	22
4 x 10	17 – 19,5	19	20,5	–	28
4 x 16	20,5 – 23,5	22	24	–	32
4 x 25	25 – 28,5	27	29	–	37
4 x 35	27,5 – 32	26	31	–	42
4 x 50	–	35	34	–	48
4 x 70	–	40	37	–	54
4 x 95	–	45	42	–	60
4 x120	–	50	47	–	–
5 x 1,5	9,9 – 12	13	15	13,5	15
5 x 2,5	11,5 – 13,5	14	17	15,5	17
5 x 4	14 – 16,5	16	18	–	19
5 x 6	15,5 – 18	18	20	–	24
5 x 10	18,5 – 21,5	21	–	–	30
5 x 16	22,5 – 26	24	–	35	–
5 x 25	27,5 – 31,5	–	–	–	–
5 x 35	30,5 – 35,5	–	–	–	–

Cutting diameters of cable cutters Profi Line

Art.	200111	200112	200113	200177	200114	200116	200115	200119	200179	200124	200126	200131	200151	200089-1	200183-1
Ø	page 15	page 15	page 16	page 16	page 16	page 16	page 17	page 17	page 17	page 19	page 19	page 19	page 19	page 14	page 14
	Cu/Al 185 mm² 34 mm Ø	Cu/Al 400 mm² 52 mm Ø	Cu/Al 240 mm² 35 mm Ø	Cu/Al 300 mm² 45 mm Ø	400 mm² 52 mm Ø	Cu/Al	Cu/Al 50 mm² 62 mm Ø	Cu/Al 1000 mm² 80 mm Ø	Cu/Al 1400 mm² 100 mm Ø	Cu/Al 120 mm² 25 mm Ø	Cu/Al 185 mm² 34 mm Ø	Cu/Al 240 mm² 35 mm Ø	Cu/Al 550 mm² 55 mm Ø	Cu/Al 300 mm² 34 mm Ø	Cu/Al 480 mm² 62 mm Ø
	Cu/Al 240 mm² 34 mm Ø	Cu/Al 400 mm² 52 mm Ø	Cu/Al 240 mm² 35 mm Ø	Cu/Al 240 mm² 45 mm Ø	Cu/Al 480 mm² 52 mm Ø		Cu/Al 750 mm² 62 mm Ø	Cu/Al 1000 mm² 80 mm Ø	Cu/Al 1400 mm² 100 mm Ø	Cu/Al 120 mm² 25 mm Ø	Cu/Al 185 mm² 34 mm Ø	Cu/Al 240 mm² 35 mm Ø	Cu/Al 550 mm² 55 mm Ø	Cu/Al 300 mm² 34 mm Ø	Cu/Al 480 mm² 62 mm Ø
	Cu/Al 240 mm² 34 mm Ø	Cu/Al 450 mm² 52 mm Ø	Cu/Al 300 mm² 35 mm Ø	Cu/Al 300 mm² 45 mm Ø	Cu/Al 500 mm² 52 mm Ø	Cu/Al 300 mm² 75 mm Ø	Cu/Al 750 mm² 62 mm Ø	Cu/Al 1000 mm² 80 mm Ø	Cu/Al 1400 mm² 100 mm Ø	Cu/Al 120 mm² 25 mm Ø	Cu/Al 240 mm² 34 mm Ø	Cu/Al 300 mm² 35 mm Ø	Cu/Al 550 mm² 55 mm Ø	Cu/Al 380 mm² 34 mm Ø	Cu/Al 480 mm² 62 mm Ø

PVC pipe cutter

for PVC pipes and all materials made from plastics and rubber, exchangeable blade, knife made from tool steel hardened in oil.
- little effort through special cutting geometry
- optimal transmission
- effortless work through ergonomically shaped handle
- incremental knife feed

Art. no.	Ø	kg	PU
200214	0 - 35	0,235	1
200215	spare blades	0,040	1

PVC pipe cutter

for PVC pipes and all materials made from plastics and rubber, exchangeable blade, knife made from tool steel hardened in oil, retractable by the press of a button.
- little effort through special cutting geometry
- optimal transmission
- effortless work through ergonomically shaped handle
- incremental knife feed

Art. no.	Ø	kg	PU
200216	0 - 42	0,270	1
200217	spare blades	0,055	1

PVC pipe cutter (with ratchet)

for PVC pipes and all materials made from plastics and rubber, exchangeable blade, knife made from tool steel hardened in oil, retractable by the press of a button.
- little effort through special cutting geometry
- optimal transmission
- effortless work through ergonomically shaped handle
- incremental knife feed
- suitable for wiring ducts

VIDEO 200218

Art. no.	Ø	kg	PU
200218	0 - 63	0,270	1
200219	spare blades	0,055	1

Plastic corrugated tube cutter

For cutting plastic corrugated protection tubes. Body made of magnesium pressure cast, very lightweight and durable.
Two cutting systems:
- **Cross-section** with two four-blade knives. System with a service life that is four times longer, thanks to four-way adjustment of the blade of 90°. Tube guidance system for perfect positioning of the tube when cutting; blades lie protected in the body, which prevents damage of the blades and injury to the user.
- **Longitudinal** cut with one four-blade knife. System with a service life that is four times longer, thanks to four-way adjustment of the blade of 90°. Blades lie protected in the body, which prevents damage of the blades and injury to the user. Tube contact surface for better guidance of the tube.

Art. no.	Ø	kg	PU
200208	14 - 45	0,160	1

Allround soft-grip scissors

The new allround Soft - Grip scissors with its relatively short blades and special handles are designed to fulfil the needs of the professional electrical installers. The impressive cutting performance and the tough construction make this new scissors a special tool.

- ergonomic design (2 component)
- slipping free handle - Soft - Grip
- high cutting performance by low cutting force
- precision toothing
- cable stripping device
- stainless

Art. no.	⟷	mm²	kg	PU
200155 ✸	140	25	0,086	1

Allround soft-grip scissors

The new allround Soft - Grip scissors with its relatively short blades and special handles are designed to fulfil the needs of the professional electrical installers. The impressive cutting performance and the tough construction make this new scissors a special tool.

- ergonomic design (2 component)
- slipping free handle - Soft - Grip
- high cutting performance by low cutting force
- precision toothing
- cable stripping device
- stainless

Art. no.	⟷	mm²	kg	PU
200185 ✸	150	50	0,083	1

Electrician's scissors stainless steel 160 mm

NEW

Professional electrician's scissors with crimping and stripping function, for cable wire: up to 70 mm², scissors made entirely of steel, the wrap-around handle fits securely in the hand. Cuts aluminum and copper cables up to 3.5 mm in diameter. Suitable for fine-wire cables up to 70 mm². A clean cut is achieved thanks to the fine serrated cutting edge. With stripping function for 1.5 mm² and 2.5 mm² conductors. With crimping function for crimp cable lugs and end sleeves up to 2.5 mm². The teeth also milled into the blade allow dirty/glued conductors/strands to be scraped clean. With practical quiver to protect the blade and belt clip.

Art. no.	⟷	mm²	kg	PU
200204	160	70	0,083	1

Electrician's scissors stainless steel 170 mm, Multi-Grip

NEW

Professional electrician's scissors with crimping and stripping function, for cable wire: up to 80 mm², scissors made entirely of steel, the wrap-around handle sits securely in the hand. The multi-grip design allows four different ways of gripping the scissors. This prevents hand fatigue. Cuts aluminum and copper cables up to 3.5 mm in diameter. Suitable for fine-wire cables up to 80 mm². The fine serrated cutting edge ensures a clean cut. With stripping function for 1.5 mm², 2.5 mm² and 4.0 mm² conductors. With crimping function for crimp cable lugs and end sleeves up to 4.0 mm². The teeth also milled into the blade allow dirty/glued conductors/strands to be scraped clean. With practical quiver to protect the blade and belt clip.

Art. no.	⟷	mm²	kg	PU
200213	170	95	0,083	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Cable cutter

- for cutting copper/aluminium cables, fine wire, multiple-core and solid copper
- chrome vanadium steel, dip-insulated handles
- insulating function in upper head area
- cable measuring function thanks to the 180 degree crossover of the legs
- not for solid conductors
- data, telephone and control cable, maximum Ø 8 mm
- Cu single wire, maximum 16 mm²
- Cu fine wire, maximum 16 mm²
- Cu multi-wire, maximum 16 mm²
- Al single wire, maximum 16 mm²
- Al multi-wire, maximum Ø 8 mm = 16 mm²

Art. no.	⟷	Ø	mm²	kg	PU
201085 ✷	160	8	16	0,177	1

Cable cutter

- for cutting copper/aluminium cables, fine wire, multiple-core and solid copper
- chrome vanadium steel, dip-insulated handles
- insulating function in upper head area
- cable measuring function thanks to the 180 degree crossover of the legs
- not for solid conductors
- data, telephone and control cable, maximum Ø 12 mm
- Cu single wire, maximum 16 mm²
- Cu fine wire, maximum 35 mm²
- Cu multi-wire, maximum 25 mm²
- Al single wire, maximum 25 mm²
- Al multi-wire, maximum Ø 8 mm = 25 mm²

Art. no.	⟷	Ø	mm²	kg	PU
201087	200	12	35	0,289	1

●	single wire	⁂	wire rope
⁂	multi-wire	◎	armoured steel cable (SWA)
✤	sector-shaped	✿	ACSR
⁂	fine wire	🔩	bolt
⁂	communication	●	solid steel

Cable cutter

- for cutting copper/aluminium cables, fine wire, multiple-core and solid copper
- chrome vanadium steel, plug-on handles
- insulating function in upper head area
- cable measuring function thanks to the 180 degree crossover of the legs
- not for solid conductors
- data, telephone and control cable, maximum Ø 8 mm
- Cu single wire, maximum 16 mm²
- Cu fine wire, maximum 16 mm²
- Cu multi-wire, maximum 16 mm²
- Al single wire, maximum 16 mm²
- Al multi-wire, maximum Ø 8 mm = 16 mm²

Art. no.	⟷	Ø	mm²	kg	PU
201086	180	8	16	0,216	1

Cable cutter

- for cutting copper/aluminium cables, fine wire, multiple-core and solid copper
- chrome vanadium steel, plug-on handles
- insulating function in upper head area
- cable measuring function thanks to the 180 degree crossover of the legs
- not for solid conductors
- data, telephone and control cable, maximum Ø 12 mm)
- Cu single wire, maximum 16 mm²
- Cu fine wire, maximum 35 mm²
- Cu multi-wire, maximum 25 mm²
- Al single wire, maximum 25 mm²
- Al multi-wire, maximum Ø 8 mm = 25 mm²

Art. no.	⟷	Ø	mm²	kg	PU
201088	240	12	35	0,361	1

Cable cutters with spring joint

- for cutting Cu/Al cables, fine and multi-wiring
- not suitable for steel wire and wire rope
- chrome vanadium steel
- self-opening joint spring
- enormous cutting power with reduced force expenditure
- not for solid conductors

Art. no.	⟷	Ø	mm²	kg	PU
200086 ✷	170	10	25	0,266	1

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Cable cutters

Cable cutters with spring joint

- for cutting Cu/Al cables, fine and multi-wiring
- not suitable for steel wire and wire rope
- chrome vanadium steel
- self-opening joint spring
- enormous cutting power with reduced force expenditure
- not for solid conductors

Art. no.	⟷	Ø	mm²	kg	PU
200088 ✱	230	15	70	0,475	1

Cable cutter

for cutting Cu/Al cables.

- data, telephone and control cable, maximum Ø 25 mm
- Cu single wire, maximum 16 mm²
- Cu fine wire, maximum 70 mm²
- Cu multi-wire, maximum 50 mm²

Art. no.	⟷	Ø	mm²	kg	PU
200105	215	25	70	0,281	1

Cable cutter with a snap

- one-hand cable cutter for fine wire cables only
- low force required
- laser-cut components
- CNC-ground cutting
- inductively hardened blades
- adjustable screw joint
- Cu fine wire cable, maximum Ø 16.9 mm = 70 mm²

Art. no.	⟷	Ø	mm²	kg	PU
201002 ✱	180	16,9	70	0,241	1

single wire	wire rope
multi-wire	armoured steel cable (SWA)
sector-shaped	ACSR
fine wire	bolt
communication	solid steel

Cable cutter

- for cutting Cu/Al cables, fine and multi-wiring
- not suitable for steel wire and wire rope
- low force required thanks to best blade geometry and translation ratios
- vanadium electro-steel, forged, oil-hardened
- aluminium legs
- hardened blades with precision grinding
- adjustable screw joint

Art. no.	⟷	Ø	mm²	kg	PU
200087	500	27	150	1,026	1

Cable cutter

- for cutting Cu/Al cables, fine and multi-wiring
- surface-ground, rust-protected blades made from annealed chrome vanadium steel
- Impact-proof coated, hardened handle tubes, sickle-shaped rounded blades
- highest stability with the lowest own weight

Art. no.	⟷	Ø	mm²	kg	PU
200073	360	20	120	0,620	1
200073/MK	cutting head			0,190	1
200095	530	35	185	1,652	1
200095/MK	cutting head			0,610	1
200099	780	50	400	3,380	1
200099/MK	cutting head			1,202	1

Cable cutters Super light

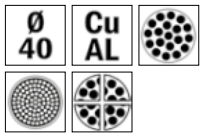
- for cutting Cu and Al cables, fine and multi-wiring
- not suitable for steel wire and wire rope
- extremely light thanks to full aluminium handles
- dual lever ensures easy cutting
- hardened blades with precision grinding
- adjustable screw joint
- blade head in chrome vanadium steel, forged and oil-hardened

Art. no.	⟷	Ø	mm²	kg	PU
200197	700	24	120	1,839	1

Cable cutters

Cable cutter

- for cutting Cu and Al cables, fine and multi-wiring
- not suitable for steel wire and wire rope
- dual lever ensures easy cutting
- hardened blades with precision grinding
- adjustable screw joint
- blade head in chrome vanadium steel, forged and oil-hardened



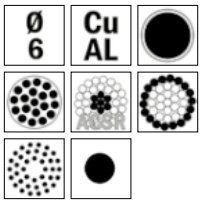
Art. no.	⟷	Ø	mm²	kg	PU
200100	980	40	400	3,920	1
200104	cutting head			0,606	1

single wire	wire rope
multi-wire	armoured steel cable (SWA)
sector-shaped	ACSR
fine wire	bolt
communication	solid steel

Wire cutters (ACSR)

Wire cutter

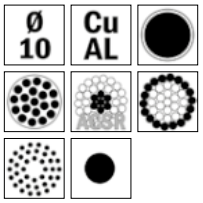
- Cu and Al cables 10 mm²
- ACSR Ø 6 mm
- solid Ø 4 mm
- also suitable for cable and round steel
- suitable for separating open wires with pull relief wire
- with opening spring and latch
- special cutting geometry prevents the wire from unsplicing

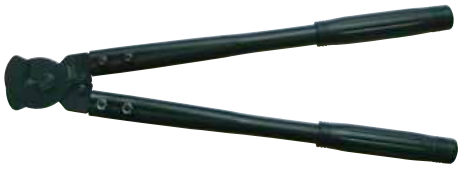


Art. no.	⟷	Ø	mm²	kg	PU
200173 ✸	180	6	10	0,306	1

Wire cutter

- Cu and Al cable 95 mm²
- ACSR Ø 10 mm
- solid Ø 6 mm
- also suitable for cables and round bars
- special cutting geometry prevents the wire from unsplicing
- suitable for separating open wires with pull relief wire
- exchangeable milling head

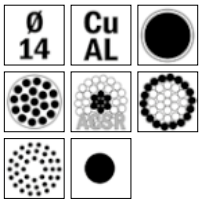




Art. no.	⟷	Ø	mm²	kg	PU
200175	360	10	95	0,752	1

Wire cutter

- Cu and Al cable 150 mm²
- ACSR Ø 14 mm
- solid Ø 9 mm
- also suitable for cables and round bars
- special cutting geometry prevents the wire from unsplicing
- suitable for separating open wires with pull relief wire
- angled cutting tip allows you to cut individual cables
- optimal transmission for excellent cutting performance
- exchangeable milling head



Art. no.	⟷	Ø	mm²	kg	PU
200181	700	14	150	2,390	1

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Cable cutter

Hand cable cutter Ø 34 mm

ratchet action type, with spare blade, for copper and alu cable

- Designed for cutting copper and aluminium cables according to DIN EN 60228
- Equipped with ratchet gear transmission
- Provides optimal force transmission
- Enables one-handed operation through optimal lever ratio and step-by-step cutting up to Ø 34 mm
- Release mechanism available in every cutting position

Material:

- All parts made from high-strength special steel, with hardened or tempered cutting edges and stressed components
- Burnished surfaces
- Ergonomically shaped soft handles
- Colour: black/green

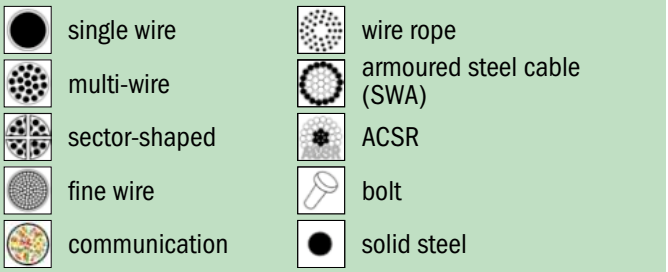
Cutting range:

- Cables and insulated conductors according to DIN EN 60228
- Multi-stranded cables (Class 2; Class 5) copper up to 300 mm² (sector-shaped, fine-stranded, communication/data)
- Multi-stranded cables (Class 2; Class 5) aluminium up to 380 mm² (sector-shaped, fine-stranded, communication/data)
- Not suitable for steel or ACSR cables
- Clean the ratchet mechanism after use

Dimensions:

Length: approx. 260 mm | Width: approx. 100 mm | Depth: approx. 36 mm
Weight: approx. 600 g

Art. no.	↔	Ø	mm²	kg	PU
200089-1	260	34	300	0,600	1



Hand cable cutter

ratchet action type, with spare blade, for copper and alu cable

- Designed for cutting copper and aluminium cables according to DIN EN 60228
- Equipped with ratchet gear transmission
- Provides optimal force transmission
- Enables one-handed operation through optimal lever ratio and step-by-step cutting up to Ø 62 mm
- Release mechanism available in every cutting position

Material:

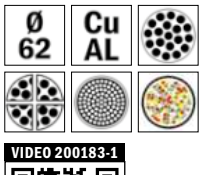
- All parts made from high-strength special steel, with hardened or tempered cutting edges and stressed components
- Burnished surfaces
- Ergonomically shaped soft handles
- Colour: black/green

Cutting range:

- Cables and insulated conductors according to DIN EN 60228
- Multi-stranded cables (Class 2; Class 5) copper up to 480 mm² (sector-shaped, fine-stranded, communication/data)
- Multi-stranded cables (Class 2; Class 5) aluminium up to 480 mm² (sector-shaped, fine-stranded, communication/data)
- Not suitable for steel or ACSR cables
- Clean the ratchet mechanism after use

Dimensions:

Length: approx. 297 mm | Width: approx. 163 mm |
Depth: approx. 36 mm | Weight: approx. 800 g



VIDEO 200183-1

Art. no.	↔	Ø	mm²	kg	PU
200183-1	297	62	480	0,820	

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

INFO

Cable cutter 200111, 200112

Precise cut!
The blade joints (screw connection on rotation blade) are adjusted to 0.05 mm!

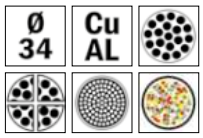
Durable and strong
Serrations on the blade and the transport handle are milled! The contact pressure is thus lower than for cast teeth.

- One-handed cable cutter
- Lever joint bolts, thickness 6.5 mm
- 16 mm full material, milled knee lever

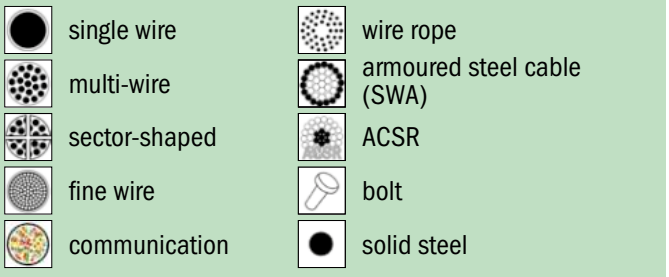
Cable cutter

Handy one-hand device with smooth-running and robust drive technology up to 34 mm Ø, all moveable parts made from hardened steel

Cutting range:
Cu/Al wire multi wiring: 185 mm²
Cu/Al wire sector format: 240 mm²
Cu wire fine wiring: 240 mm²
Cu wire fine wiring or telecommunication cable: 34 Ø



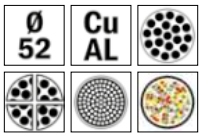
Art. no.	⟷	Ø	mm²	kg	PU
200111	250	34	185	0,790	1



Cable cutter

Handy one- and two-hand tool with smooth-running and robust drive technology up to 52 mm Ø, all moving parts made from hardened steel

Cutting range:
Cu/Al wire multi wiring: 400 mm²
Cu/Al wire sector format: 400 mm²
Cu wire fine wiring: 450 mm²
Cu wire fine wiring or telecommunication cable 32 Ø



VIDEO 200112

Art. no.	⟷	Ø	mm²	kg	PU
200112	320	52	400	1,122	1

Cable cutters with eccentric drive

INFO

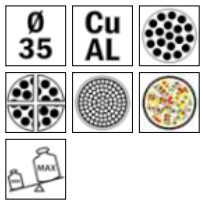
Cable cutters 200113, 200177, 200114, 200116:

- One-hand cable cutters
- Dual needle-bearing offset lever 14 mm
- Particularly easy to move, thanks to reduction of friction on joint
- Considerable reduction of manual force
- Lever joint bolts, thickness 8 mm
- For the toughest of usage conditions
- Locking with a locking shaft
- Accidental opening of handles in tool case is prevented
- Transport handle play is fixed

Cable cutter

High leverage, perfected cutting force performance, particularly smooth-running cable cutter with needle bearing eccentric drive up to 35 mm Ø. Extremely durable tool

Cutting range:
Cu/Al wire multi wiring: 240 mm²
Cu/Al wire sector format: 240 mm²
Cu wire fine wiring: 300 mm²
Cu wire fine wiring or telecommunication cable: 35 Ø

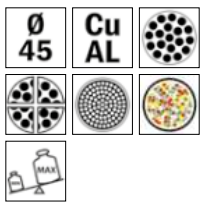


Art. no.	⟷	Ø	mm²	kg	PU
200113	250	35	240	0,976	1

Cable cutter

High leverage, perfected cutting force performance, particularly smooth-running cable cutter with needle bearing eccentric drive for everyday use up to 45 mm Ø. Extremely durable tool

Cutting range:
Cu/Al wire multi wiring: 300 mm²
Cu/Al wire sector format: 240 mm²
Cu wire fine wiring: 300 mm²
Cu wire fine wiring or telecommunication cable: 45 Ø

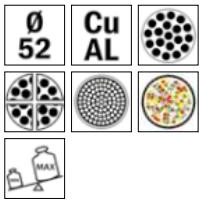


Art. no.	⟷	Ø	mm²	kg	PU
200177	260	45	300	0,900	1

Cable cutter

High leverage, perfected cutting force performance, particularly smooth-running cable cutter with needle bearing eccentric drive up to 52 mm Ø. Extremely durable tool

Cutting range:
Cu/Al wire multi wiring: 400 mm²
Cu/Al wire sector format: 480 mm²
Cu wire fine wiring: 500 mm²
Cu wire fine wiring or telecommunication cable: 52 Ø

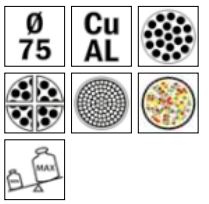


Art. no.	⟷	Ø	mm²	kg	PU
200114	325	52	400	1,340	1

Special cable cutter

High leverage, perfected cutting force performance, for data and telephone cables up to 75 mm Ø, high cutting quality through special cutting geometry, smooth-running due to needle-bearing drive mechanics, not suitable for steel wire and very wiry conductors of power supply (EVU etc.)

Cutting range:
Cu/Al wire multi wiring: 300 mm²
Cu/Al wire sector format: 240 mm²
Cu wire fine wiring: 300 mm²
Cu wire fine wiring or telecommunication cable: 75 Ø



Art. no.	⟷	Ø	mm²	kg	PU
200116	370	75	300	1,585	1

single wire		wire rope	
multi-wire		armoured steel cable (SWA)	
sector-shaped		ACSR	
fine wire		bolt	
communication		solid steel	

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

INFO

Cable cutters 200115, 200119, 200179:

- Two-hand cable cutters for armoured steel cable
- Dual needle-bearing offset lever 14 mm
- Particularly easy to move, thanks to reduction of friction on joint
- Considerable reduction of manual force
- Lever joint bolts, thickness 12 mm
- Extremely well reinforced version for particularly tough uses
- Locking with a locking shaft
- Accidental opening of handles is prevented
- Integrated toothed comb for cleaning in handle
- Transport handle play is fixed

Cable cutter

High leverage, perfected cutting force performance, almost maintenance-free two-hand cable cutter up to 62 mm Ø, smooth-running through needle-bearing eccentric drive, great range of application, comes with cog comb to clean cogs

Cutting range:
Cu/Al wire multi wiring: 750 mm²
Cu/Al wire sector format: 750 mm²
Cu wire fine wiring: 750 mm²
Cu wire fine wiring or telecommunication cable: 62 Ø

Art. no.	↔	Ø	mm²	kg	PU
200115	410	62	750	2,224	1

Cable cutter

High leverage, perfected cutting force performance, almost maintenance-free quality tool up to 80 mm Ø. Smooth-running due to needle-bearing eccentric drive, also suitable for cables with steel plate jacket and soft steel wire reinforcement, ST 52. Comes with cog comb to clean cogs, integrated in the handle

Cutting range:
Cu/Al wire multi wiring: 1000 mm²
Cu/Al wire sector format: 1000 mm²
Cu wire fine wiring: 1000 mm²
Cu wire fine wiring or telecommunication cable: 80 Ø

Art. no.	↔	Ø	mm²	kg	PU
200119	610	80	1000	3,322	1

Cable cutter

High leverage, perfected cutting force performance, almost maintenance-free quality tool up to 100 mm Ø. Smooth-running due to needle-bearing eccentric drive, also suitable for cables with steel plate jacket and soft steel wire reinforcement, ST 52. Comes with cog comb to clean cogs, integrated in the handle

Cutting range:
Cu/Al wire multi wiring: 1400 mm²
Cu/Al wire sector format: 1400 mm²
Cu wire fine wiring: 1400 mm²
Cu wire fine wiring or telecommunication cable: 100 Ø

Art. no.	↔	Ø	mm²	kg	PU
200179	610	100	1400	3,000	1

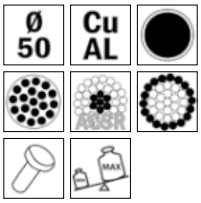
single wire	wire rope
multi-wire	armoured steel cable (SWA)
sector-shaped	ACSR
fine wire	bolt
communication	solid steel

Universal cable cutter with eccentric drive

- high leverage, perfected cutting force performance
- one-hand universal- and steel rope cutter with exchangeable cutting segments
- in the case of wear or changing requirements only the cutting segment need to be replaced
- cleaner included
- double needle bearing excenter lever 14mm
- very easy to use through reduction of the attrition of the joint
- strong reduction of the manuar force
- lever joint bolt strength 9mm
- central lubrication
- cone fitting in the bolt with cross drilling on the bearing points
- adjustable level of the transport plugs
- opening of the cutter possible at any time, also suitable for the highest demands without additives

Separable materials:
- cable AL /Cu
- cable with soft steel cover
- steel coverd ropes
- steel armoured ropes
- niro ropes
- flexible steel ropes
- tracking rope cable
- steel armoured hose
- ACSR DIN 48 204
- constructional steel 235JR+AR
- screws

Complete set:
- universal cable cutter
- 1 pair of cutting segments S1 (art. 200178/S1)
- ACSR



VIDEO 200178

Art. no.	⟷	Ø	mm²	kg	PU
200178	230	50	300	1,140	1

Further accessories for cable cutter item no. 200178

Application:
- AL/CU: Cross-section 300 mm², Ø 50 mm
- Flexible steel cables: Cross-section 95 mm², Ø 14 mm
- Niro cables Ø 8 mm, 19/1
- ACSR DIN 48 204: Cross-section 150/25 mm², Ø 20 mm, 7/2.1 mm
- Steel armoured tubing: Ø 50 mm

Art. no.	Ø	mm²	kg	PU
200178/S1	50	300	0,100	1

Further accessories for cable cutter item no. 200178

Application:
- AL/CU: Cross-section 150 mm², Ø 30 mm
- Flexible steel cables: Cross-section 70 mm², Ø 12 mm
- Supporting cable: Cross-section 70/300 mm², Ø 12/30 mm, Type 8
- ACSR DIN 48 204: Cross-section 70/12 mm², Ø 11.7 mm, 7/1.44 mm

Art. no.	Ø	mm²	kg	PU
200178/B	30	150	0,100	1

Further accessories for cable cutter item no. 200178

Application:
- AL/CU: Cross-section: 350 mm², Ø 50 mm

Clean cut and low handgrip with large cross sections
suitable for highly flexible conductors
not for steel

Art. no.	Ø	mm²	kg	PU
200178/C	30	150	0,100	1

Further accessories for cable cutter item no. 200178

Application:
- AL/CU: Cross-section 350 mm², Ø 50 mm
- Flexible steel cables: Cross-section 95 mm², Ø 16 mm
- Cable with soft steel sleeve: Cross-section 240 mm², Ø 50 mm

Clean cut and normal handgrip

Art. no.	Ø	mm²	kg	PU
200178/S	50	350	0,100	1

Further accessories for cable cutter item no. 200178

Application:
- AL/CU: Cross-section 200 mm², Ø 50 mm
- Flexible steel cables: Cross-section 95 mm², Ø 14 mm
- Niro cables: Ø 8 mm, 19/1
- ACSR DIN 48 204: Cross-section 300/50 mm², Ø 24.5, 7/3 mm
- Steel armoured tubing: Ø 50 mm
- Construction steel 235JR+AR: Ø 10 mm, full material
- Screws: Ø 8 mm, 8.8

Can lead to crimping of steel cables are highly flexible, slightly edgy cutaway section, increased handgrip

Art. no.	Ø	mm²	kg	PU
200178/S2	50	200	0,100	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Front cable cutter

INFO

Cable cutters

Precise cut!
The blade joints (screw connection on rotation blade) are adjusted to 0.05 mm!

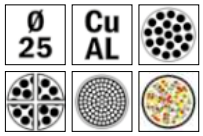
Durable and strong
Serrations on the blade and the transport handle are milled! The contact pressure is thus lower than for cast teeth.

200124, 200126:
- One-handed cable cutter
- Lever joint bolts, thickness 6.5 mm.
- 16 mm full material, milled knee lever.

Front cable cutter

for Copper and Alu-cable 25 mm Ø, squeeze-free cutting, optimized lever-transmission

Cutting range:
Cu/Al wire multi wiring: 120 mm²
Cu/Al wire sector format: 120 mm²
Cu wire fine wiring: 120 mm²
Cu wire fine wiring or telecommunication cable: 25 Ø

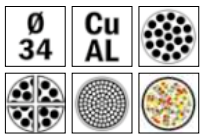


Art. no.	⟷	Ø	mm²	kg	PU
200124	245	25	120	1,020	1

Front cable cutter

for Copper and Alu-cable 34 mm Ø, squeeze-free cutting, optimized lever-transmission by eccentric drive system

Cutting range:
Cu/Al wire multi wiring: 185 mm²
Cu/Al wire sector format: 185 mm²
Cu wire fine wiring: 240 mm²
Cu wire fine wiring or telecommunication cable: 34 Ø



Art. no.	mm²	⟷	Ø	kg	PU
200126	185	330	34	1,541	1

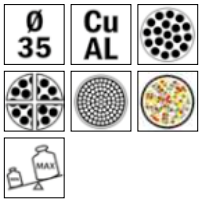
●	single wire	wire rope	
multi-wire	armoured steel cable (SWA)		
sector-shaped	ACSR		
fine wire	bolt		
communication	solid steel		

Front cable cutters with eccentric drive

Front cable cutter with eccentric drive

High leverage, perfected cutting force performance, very easy to use precision one-handed front cutter, excellent crush-free cutting quality even with fine wired cables, tried and tested and almost wear-free offset drive, rotation blade can be locked in any position, cutting range up to a diameter of 35 mm.
- One-handed cable cutter
- Dual needle-bearing offset lever 14 mm
- Particularly easy to move, thanks to reduction of friction on joint
- Considerable reduction of manual force
- Lever joint bolts, thickness 8 mm
- For the toughest of usage conditions
- Locking with a locking shaft
- Accidental opening of handles in tool case is prevented
- Transport handle play is fixed

Cutting range:
Cu/Al wire multi wiring: 550 mm²
Cu/Al wire sector format: 550 mm²
Cu wire fine wiring: 550 mm²
Cu wire fine wiring or telecommunication cable: 55 Ø

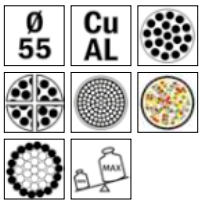


Art. no.	⟷	mm²	Ø	kg	PU
200131	330	240	35	1,673	1

Front cable cutter with eccentric drive

High leverage, perfected cutting force performance, easy to use two-handed front cutter with patented offset drive, excellent crush-free cutting quality even for large cross-sections, rotation blade can be locked in any position, cutting range up to a diameter of 55 mm.
- Two-handed cable cutter for armoured steel cable
- Dual needle-bearing offset lever 14 mm
- Particularly easy to move, thanks to reduction of friction on joint
- Considerable reduction of manual force
- Lever joint bolts, thickness 12 mm
- Extremely well reinforced version for particularly tough uses
- Locking with a locking shaft
- Accidental opening of handles is prevented
- Integrated toothed comb for cleaning in handle

Cutting range:
Cu/Al wire multi wiring: 550 mm²
Cu/Al wire sector format: 550 mm²
Cu wire fine wiring: 550 mm²
Cu wire fine wiring or telecommunication cable: 55 Ø



Art. no.	⟷	mm²	Ø	kg	PU
200151	485	550	55	3,493	1

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Hydraulic cable cutters

haupa®

... convincing solutions

Hydraulic cable cutters

Hydraulic cutter HH 85-ST

- in case
- cutting head can be rotated 180°
- for copper and aluminium cable
- ACSR: Ø 28 mm
- soft CU round bar: Ø 25 mm
- soft AL round bar: Ø 22 mm
- soft steel round bar: Ø 16 mm
- CU/AL wire stranded: Ø 32 mm

Art. no.	⟷	Ø	kg	PU
216402	580	32	5,300	1

Hydraulic cutter HH 85-ST

- in case
- cutting head can be rotated 180°
- with hydraulic quick connections
- copper and aluminium cable
- armoured steel cable

Art. no.	⟷	Ø	kg	PU
216404	690	85	6,830	1

single wire

multi-wire

sector-shaped

fine wire

communication

wire rope

armoured steel cable (SWA)

ACSR

bolt

solid steel

Hydraulic cutting headstocks

Hydraulic cutting headstock

- in bag
- with hydraulic quick connections
- copper and aluminium cable
- armoured steel cable

Art. no.	Ø	kg	PU
216408	85	5,020	1

Hydraulic cutting headstock

- in bag
- with hydraulic quick connections
- copper and aluminium cable
- armoured steel cable

Art. no.	Ø	kg	PU
216410	120	14,600	1

Hydraulic cutting headstock

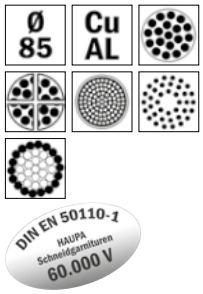
- in bag
- with hydraulic quick connections
- copper and aluminium cable
- armoured steel cable

Art. no.	Ø	kg	PU
216415	95	11,300	1

Hydraulic safety life line cable cutter

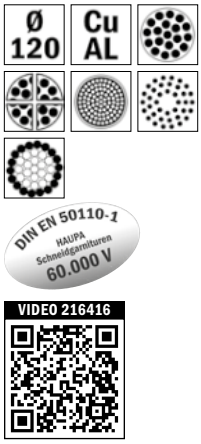
According to VDE 0105 Part 1 Para. 9.6.4 the cable cutter 216416 is used for cutting low and medium voltage cables up to 60 KV AC. If a live wire is cut by accident, the operator is not in any danger.
The 10 m long high pressure hydraulic hose, which connects the pump to the cutting head, guarantees the highest standard of safety due to it special insulating features. The cutting process is controlled by watching the manometer attached to the pump, since, in general, the cutting head con not be seen when a cable is cut. This process has been tested repeatedly at medium voltage, with live wires and continuing main supply.
The cutting range goes up to 85 mm. The 12 mm cutting blades are made of high yield point steel and are polished, thus wear- and tear- resistant, A strongly dimensioned guidance of the blades guarantees a high degree of mechanical stability. Even in the event of a short circuit, a safe cutting of the wires is guaranteed, since the individual blades overlap by approx. 20 mm. The blades open themselves when pressure is reduced. The high pressure hose bursts at 2700 bar. The pressure relief safety system of the pump has been adjusted at a 625 bar level.

This set includes:
- Hydraulic shear with high pressure hose of 10 m, with leak-free coupling system and earth harness acc. to EN 50340
- Double piston pump mounted on foot-pedal, with foot-operated switch
- Transport case
- Fully operational and filled with special oil



Art. no.	Ø	bar	kg	PU
216417	85	625	32,000	1

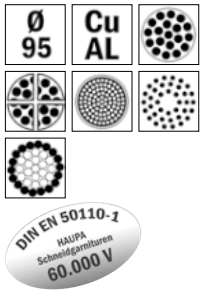
Hydraulic safety life line cable cutter



Art. no.	Ø	bar	kg	PU
216416	120	625	36,600	1
216416/850	120	850	36,600	1

single wire	wire rope
multi-wire	armoured steel cable (SWA)
sector-shaped	ACSR
fine wire	bolt
communication	solid steel

Hydraulic safety life line cable cutter



Art. no.	Ø	bar	kg	PU
216421	95	625	33,000	1

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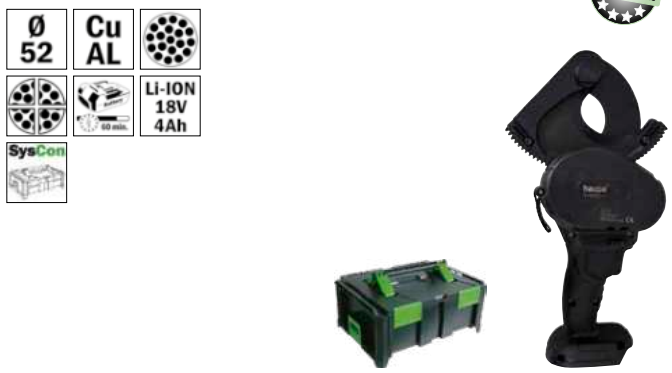
Battery powered cable cutters

Battery powered cable cutter AS-52

- for copper and aluminium cable, multi-wire
- diameter up to 52 mm



Art. no.	Ø	kg	PU
216434-1	52	7,130	1
216434-1-NO	52	3,100	1
216434-1-N	52	3,000	1

Battery powered cable cutter AS-65

- for copper and aluminium cable, multi-wire
- diameter up to 65 mm

Art. no.	Ø	kg	PU
216435-1	65	7,130	1
216435-1-NO	65	3,100	1
216435-1-N	65	3,000	1

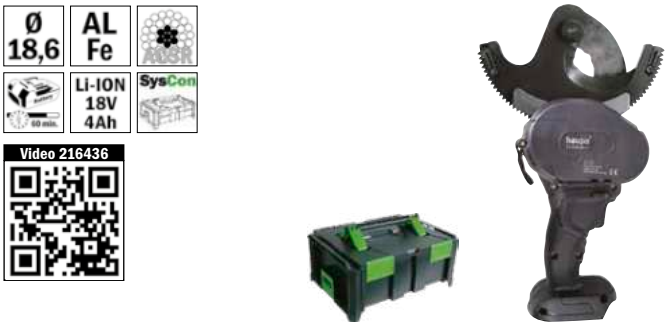
Battery powered cable cutter AS-52F

- for copper and aluminium cable
- with blades for fine-stranded cables
- diameter up to 52 mm

Art. no.	Ø	kg	PU
216436/F-1	52	7,480	1
216436/F-1-NO	52	3,500	1
216436/F-1-N	52	8,100	1

Battery powered cable cutter AS-52ACSR

- Diameter 18,6 mm
- for ACSR cable
- not suitable for Cu/Al



Art. no.	Ø	kg	PU
216436-1	18,6	8,100	1
216436-1-NO	18,6	3,500	1
216436-1-N	18,6	3,300	1

Battery powered universal cable cutter universal AS6-S20

hydraulic for cutting telecommunications cables, cutting head can be rotated by 180°, manual return after the cut has been completed.

- Pressing force kN: 60 kN
- Working pressure in bar: 700
- Cutting width Ø: 20
- Battery charging time in minutes: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- With the new HAUPA battery item no. 215523 and charger item no. 215527
- ACSR
- Sheet and wire armouring Cu
- Wire rope, bracing wire
- Soft rod steel
- Lead sleeve cable

Art. no.	Ø	kg	PU
216418-1	20	8,100	1
216418-1-NO	20	3,000	1
216418-1-N	20	2,700	1

single wire	wire rope
multi-wire	armoured steel cable (SWA)
sector-shaped	ACSR
fine wire	bolt
communication	solid steel

PU Packing unit

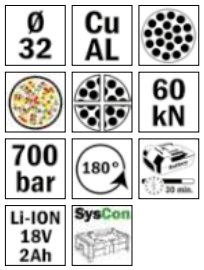
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Battery powered cable cutter AS6-S32

Hydraulic for cutting telecommunications cables, cutting head can be rotated by 180°, manual return after the cut has been completed.

- Pressing force kN: 60 kN
- Working pressure in bar: 700
- Cutting width Ø: 32
- Battery charging time in minutes: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- With the new HAUPA battery item no. 215523 and charger item no. 215527



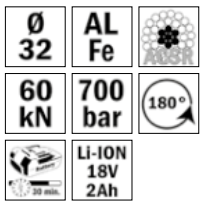
Art. no.	Ø	kg	PU
216419-1	32	7,900	1
216419-1-NO	32	3,900	1
216419-1-N	32	7,900	1

Battery-hydraulic cable cutter AS6-S32ACSR

For cutting cables with a steel core (ACSR), not suitable for Cu/Al cables, diameter 32 mm, cutting head rotatable 180°, manual retraction after completion of the cut.

Product includes:
1 cutting tool, 1 charger, 1 battery 18 V Li-Ion, 2 Ah, 1 carry strap loop, in a system case

- Precise cut with little conductor deformation
- Cutting force kN: 60
- Work pressure in bar: 700
- Cutting width Ø: 32
- Cutting head rotates 180°
- Battery charge time in minutes: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- For battery Art. no. 215523 and charger Art. no. 215527
- Compatible with MAKITA 18 V charging equipment
- LED lamp for illuminating work area

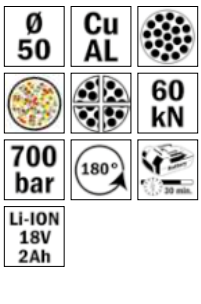


Art. no.	Ø	⟷	kg	PU
216426-1	32	480	7,900	1
216426-1-NO	32	480	4,540	1
216426-1-N	32	480	4,540	1

Battery-hydraulic cable cutter AS6-S50

For cutting Al/Cu cables.
Delivery scope: 1 cutting tool, 1 charger, 1 battery, 1 carrying strap, in a system case.

- Precise cut with little conductor deformation
- Cutting force kN: 60
- Work pressure in bar: 700
- Cutting width Ø: 50
- Cutting head 180° rotating
- Battery charging time in minutes: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- Compatible with battery Art. No. 215523 and charger Art. No. 215527
- Compatible with MAKITA 18 V charging equipment
- LED front lamp for work area illumination



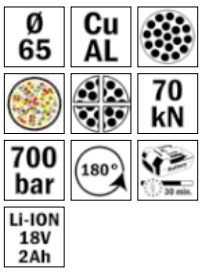
Art. no.	Ø	⟷	kg	PU
216420-1	50	480	8,424	1
216420-1-NO	50	480	4,550	1
216420-1-N	50	480	7,900	1

Battery-hydraulic cable cutter AS6-S65

For cutting copper and aluminium cables, multi-stranded, diameter up to 65 mm

Product includes:
1 cutting tool, 1 charger, 1 battery 18 V Li-Ion, 2 Ah, 1 carry strap loop, in a system case

- Precise cut with little conductor deformation
- Cutting force kN: 70
- Work pressure in bar: 700
- Cutting width Ø: 65
- Cutting head rotates 180°
- Battery charge time in minutes: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- For battery Art. no. 215523 and charger Art. no. 215527
- Compatible with MAKITA 18 V charging equipment
- LED lamp for illuminating work area

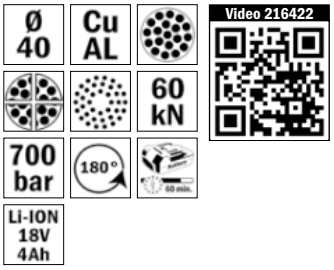


Art. no.	Ø	⟷	kg	PU
216423-1	65	500	7,900	1
216423-1-NO	65	500	4,520	1
216423-1-N	65	500	4,520	1

Battery powered cable cutter AS6-40

Cutting head can be rotated by 180°, manual return, LED for battery control.
The unit also has 2 white LED's to illuminate the respective work area.

- Pressing force kN: 60
- Working pressure in bar: 700
- Cutting width Ø: 40
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 4 Ah



Art. no.	Ø	↔	kg	PU
216422-1	40	385	11,100	1
216422-1-NO	40	385	6,200	1
216422-1-N	40	385	5,700	1

Battery powered cable cutter AS12-52

Cutting head can be rotated by 180°, manual return, LED for battery control, for copper and aluminium cable as well as armoured steel cable.
The unit also has 2 white LED's to illuminate the respective work area.

- Pressing force kN: 120
- Working pressure in bar: 700
- Cutting width Ø: 52
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 4 Ah
- ACSR

Art. no.	Ø	↔	kg	PU
216424-1	52	385	13,200	1
216424-1-NO	52	385	9,100	1
216424-1-N	52	385	8,500	1

single wire

multi-wire

sector-shaped

fine wire

communication

wire rope

armoured steel cable (SWA)

ACSR

bolt

solid steel

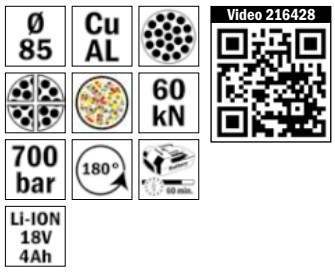
PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Battery powered cable cutter AS6-85

Cutting head can be rotated by 180°, manual return, LED for battery control. The unit also has 2 white LED's to illuminate the respective work area.

- Pressing force kN: 60
- Working pressure in bar: 700
- Cutting width Ø: 85
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 4 Ah

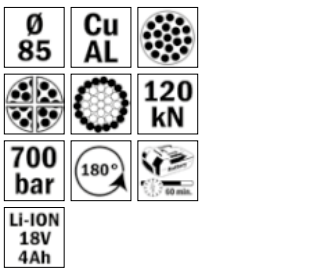


Art. no.	Ø	↔	kg	PU
216428-1	85	385	13,820	1
216428-1-NO	85	385	8,900	1
216428-1-N	85	385	8,300	1

Battery powered cable cutter AS12-S85

Cutting head can be rotated by 180°, manual return, LED for battery control, for copper and aluminum cables. The unit also has 2 white LEDs to illuminate the respective work area.

- Pressing force kN: 120
- Working pressure in bar: 700
- Cutting width Ø: 85
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 4 Ah



Art. no.	Ø	↔	kg	PU
216425-1	85	385	16,150	1
216425-1-NO	85	385	13,000	1
216425-1-N	85	385	11,800	1

Scope of delivery for all battery-operated tools:
1 tool, 1 quick charger and 1 rechargeable battery in system case incl. Insert.

For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

Hydraulic cutting tools

Art.	216418-1	216419-1	216420-1	216423-1	216426-1	216422-1	216424-1	216428-1	216425-1	216434-1	216436/F-1	216436-1	216435-1	216408	216415	216410
Type	AS6ST-20	AS6S-32	AS6-S50	AS6-S65	AS6-S32ACSR	AS6-40	AS12-52	AS6-85	AS12-S85	AS-52	AS-52F	AS-52ACSR	AS-65	KS-85	KS-95	KS-120
Output force in Tons	6	6	6	7	6	6	12	6	12	electro-mechanical	electro-mechanical	electro-mechanical	electro-mechanical	700 – 850 bar	700 bar	700 bar
Ø max.	20	32	50	65	32	40	52	85	85	52	52	52	65	85	95	120
Copper fine wire	--	--	--	--	--	--	--	--	--	--	●	--	--	--	--	--
Copper multi wire	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Copper multi wire lead sheeted		●	●	●	●	●	●	●	●	●	--	●	●	●	●	●
Solid Copper	16	--	--	●	●	22	22	--	●	●	--	●	●	--	●	--
Aluminim steel armoured	●	●	--	--	●	--	--	--	--	--	--	●	--	●	●	●
Aluminim multi wire	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Aluminim multi wire lead sheeted	●	●	●	●	●	●	●	●	●	--	●	●	●	●	●	●
solid aluminium bar	20	--	--	●	●	22	22	--	●	●	--	●	●	--	●	--
Underground cable	●	●	●	●	●	●	●	●	●	●	--	●	●	●	●	●
telecomunication / data wire	●	●	●	●	--	●	●	●	●	●	●	●	●	--	--	--
Guy wire	--	--	--	--	●	--	--	--	--	--	--	13	--	--	--	--
Armoured lead sheeted wire soft	20	●	●	●	●	●	●	●	●	●	--	●	●	●	●	●
steel reinforced conductor	●	--	●	●	●	--	●	--	--	●	--	●	●	●	●	●
SWA steel wire armoured soft	●	--	--	--	●	--	●	●	●	--	--	●	--	●	●	●
ACSR / Aldrey rope	20	--	--	--	●	--	●	--	--	--	--	●	--	--	--	--
Bolt	12	--	--	--	--	--	--	--	--	--	--	●	--	--	--	--
Solid steel bar	●	--	--	--	●	--	--	--	--	--	--	●	--	--	●	--
Soft steel bar	(under SS41) 13 mm	--	--	--	●	16	16	--	--	--	--	●	--	--	●	--
Tramp wire copper	--	--	--	--	●	--	--	--	●	--	--	--	--	--	--	--
Aluminium earthing band	--	--	--	--	4 x 2,5 cm	--	●	--	--	--	--	--	--	--	--	--
NYCWY conductor	--	--	--	4 x 150 mm²	--	--	--	--	--	--	--	--	4 x 185 mm²	--	4 x 185 mm²	--

Stripping

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INFO

Cable strippers

Information for strippers
Stripping removes the outer sleeve of a installation cable.
For cables that have already been installed in installation sockets and are thus difficult to access, you use a round stripper.
When stripping, open the stripper and place it on the cable in such a way as to ensure that the round blade is position at the point of the sleeve you wish to remove.
Turn the stripper a quarter turn to the left and to the right, bend the cable a little, and open up the stripper.
Place the tool closer to the end of the cable, close again, and stripper the sleeve away easily.
There is a variety of strippers available for the various types of cable.

Important: Important, when stripping the insulation of inner wires may not be damaged.

Cable stripper Kabifix

- For cutting opening and stripping cables from Ø 6 – 25 mm
- Longitudinal and round cut (swivel lever)
- Ø 6 – 28 mm
- NYY 4 – 16 mm²
- NYM 5 – 16 mm²
- Coaxial and bell round cable
- Isoflex and PVC piping maximum Ø 25 mm
- Interior adjustment screw for adjusting the cutting depth
- Exchangeable blades

Art. no.	Ø	kg	PU
200022	6 - 28	0,100	1
200024	Spare knife	0,007	1

Cable stripper Kabifix LWL

- For cutting opening and stripping fibre-optic and coaxial cables from Ø 6 – 25 mm
- Longitudinal and round cut (swivel lever)
- Interior adjustment screw for adjusting the cutting depth
- Exchangeable blades

Art. no.	Ø	kg	PU
200023	6 - 25	0,136	1
200023/M	Spare knife	0,003	1

System 4 – 70 cable stripper

Cable stripping knife system with automatic blade protection and interchangeable bracket for stripping any popular round cables. (Main body plus interchangeable bracket item no. 201044, 1 spare blade in the handle)
- Ø 4 – 70 mm cutting depth
- Inner blade: 35 mm
- Hook blade cutting depth: Level 1: 2.8 mm / Level 2: 3.4 mm / Level 3: 4.0 mm / Level 4: 4.6 mm
- Cable types: Round cable for flexible and fixed installation, moisture-proof cable

Art. no.	Ø	⟷	kg	PU
201040	4 - 70	167	0,123	1
200046	Spare blade		0,004	10

Profi set cable stripping system 4 – 70

In shockproof plastic boxes, stackable, dimensions: (L 260mm, W 154mm, H 57mm) Set: 6-piece
Contents:
- 201040
- 201042
- 201044
- 201046
- 201048
- 201050

Art. no.	set	Ø	kg	PU
201054	6	4 - 70	0,100	1

Interchangeable bracket

Suitable for cable stripping system 4 – 70 (item no. 201040)

Art. no.	Ø		kg	PU
201042	4 - 16	108 x 28 x 33	0,031	1
201044	8 - 28	108 x 28 x 33	0,031	1
201046	27 - 35	133 x 15 x 49	0,060	1
201048	35 - 50	141 x 15 x 56	0,100	1
201050	50 - 70	156 x 15 x 69	0,100	1

Replacement hook blades

Suitable for cable stripping system 4 – 70 (art. no. 201040)

Art. no.	Ø	kg	PU
201052	4 - 70	0,100	1

Cable stripping knife

- For removing the sleeve from all current round cables
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- Cutting depth can be adjusted using the setting screw on the end of the handle
- Automatic adjustment to round and lengthwise cuts
- Handle security thanks to soft component insert on the bar and handle
- Titanium nitride coated replacement blade in the housing
- Housing made from high-quality, hard wearing polyamide
- With titanium nitride coated hook blade

VIDEO 200031

Art. no.	Ø	kg	PU
200031 ✷	8 - 28	0,100	1
200046	Spare blade	0,004	10

Cable stripping knife

Art. no.	Ø	kg	PU
200038 ✷	4 - 16	0,090	1
200040	8 - 28	0,091	1
200042	28 - 35	0,101	1
200044	35 - 50	0,108	1
200046	Spare blade	0,004	10

Stripper standard

- For stripping all standard round cables
- Titanium-nitride coated blades, therefore higher cutting speed
- Less wear, longer service life
- Blades do not need to be adjusted to the cutting depth
- Fastening clip for safe storage
- Housing made of high-quality, wear-resistant polyamide

VIDEO 200036

Art. no.	Ø	kg	PU
200036	8 - 13	0,065	1

Stripper All-rounder

- Cable stripper for round cables from Ø 4 – 15 mm and flat cables up to 15 mm width
- Stripping 1.5 and 2.5 mm² single wire
- Lengthwise cut

PREMIUM

VIDEO 200050

Art. no.	Ø	kg	PU
200050 ✷	4 - 15	0,111	1

XL cable stripper

- Use: For stripping round cables with a round cut
- Extra long for deep flushmounted boxes
- Scope: 8 – 13mm
- Cable types: Round cable for flexible and fixed installation, moisture-proof cable
- Material: Casing: Polyamide (PA),
- Blade: Speciality steel, hardened, coated with titanium nitride

VIDEO 201045

Art. no.	Ø	kg	PU
201045	8 - 13	0,100	1

Cable strippers

Universal stripper

- Stripper for removing the sleeve from all current round cables Ø 8 to 13 mm
- Removing the insulation on various cable types, e.g. NYM 3 x 1.5 mm² to 5 x 2.5 mm²
- Contoured blades for stripping wires 0.2-0.3-0.8-1.5-2.5-4.0 mm²
- Ideal for working in distribution and junction boxes
- Longer cable lengths can be stripped using the lengthwise cutting mechanism
- Safe hold thanks to the inclusion of anti-slip handle zones
- No need to set blades required to cutting depth
- Additional titanium nitride coated retractable blade

VIDEO 200043

Art. no.	Ø	kg	PU
200043 ✸	8 - 13	0,063	1

Flatcable stripper

For stripping round cables with rubber or hard plastic sleeves and flat cables up to 12 mm in width (e.g. NYM cable4 3 x 1.5 to 5 x 2.5 mm², insulated flat cables of flexible cables).

- Stripping tool for cables and litz wire 0.8 - 1.5 - 2.5 mm²
- Ideal for working in tight and difficult to access areas
- Additional blade for lengthwise cut
- Fixture clip for safe storage

Art. no.	Ø	kg	PU
200037	4 - 13	0,068	1

Top Coax Plus cable stripper

Application: for stripping all common coaxial cables and tightening F-connectors (HEX 11)
Area of application: Ø 4.8 - 7.5 mm F-connectors (HEX 11)
Cable types: Standard coaxial cable, e.g. TV coax, RG58U/ RG59U, RG6, PVC-Flex 3 x 0.75 mm²

Art. no.	Ø	↔	kg	PU
201058	4,8 - 7,5	115,4	0,100	1

Hex socket wrench for coax

for items 201058 and 200035

Art. no.	WS	kg	PU
201059	11	0,100	1

Stripper for coaxial cable

- For removing the sleeve from all current coaxial cables Ø 4,8 to 7.5 mm
- For stripping various cable types, e.g. TV coax, RG 58 / RG 59, PVC flex 3 x 0.75 mm²
- New closure system
- Safe hold thanks to the 2-component handle shells
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- 2 blade pairs for two-stage stripping
- Cutting depth does not need to be set
- No damage to the inner sheath and inner cable elements
- Easily recognised, internal length scale

Art. no.	Ø	kg	PU
200636 ✸	4,8 - 7,5	0,041	1

Stripper for coaxial cable

- For coaxial cables, RG-58, RG-59/62, RG-6 and 6QS
- With 3 replaceable and individually adjustable blades
- Cutting distance of 8 and 4 mm

Art. no.	RG	kg	PU
200069	58, 59, 62, 6, 6QS	0,048	1

PC-Strip

- For stripping round cables Ø 5 - 13 mm
- For stripping various cable types, e.g. IBM Type 1, Type 2, flexible cables, etc.
- For stripping PVC insulated data, communication and control cables
- With stripping tool for cables and litz wire from 0.2 - 4 mm²
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- No need to set blades required to cutting depth

Art. no.	Ø	kg	PU
200039	5 - 13	0,064	1

Cable strippers

for short-circuit proof lines

- For stripping current energy and safety cables
- For stripping short-circuited and grounded, flame retardant, halogen-free cables, e.g. NSGAFÖU, VER H07RN-F
- With lengthwise stop 8 - 10 - 12 mm for even stripping lengths
- For stripping safety and energy cables
- No need to set blades required to cutting depth
- For stripping dual insulated solar cables

Art. no.	Ø	kg	PU
200630	1,5	0,054	1
200632	2,5 - 6	0,054	1
200634	10 - 16	0,054	1

Cable stripper HUPstripPV

Solar 2,5 – 6 mm² | Ø 7,5 – 9,5 mm

- For stripping all common cables in the field of photovoltaics
- No adjustment of the blades to the cutting depth necessary
- With length stop 8.5 and 15 mm for uniform stripping lengths of common photovoltaic contacts
- Fastening clip for safe storage
- Housing made of high-quality, wear-resistant polyamide

Art. no.	Ø	kg	PU
201060	7,5 - 9,5	0,054	1

Cable stripper HUPstripPV+

Solar 1.5 – 16.0 mm² | 16 – 6 AWG

- easy handling thanks to the four-chamber system (1.5 mm² / 2.5 mm² / 4 mm² + 6 mm²/ 10 mm² + 16 mm²)
- For stripping solar and photovoltaic cables
- Precise alignment of the blades to standard solar cables
- Length stop adjustable to the millimetre from 5 to 26 mm
- Additional blade for making a longitudinal cut
- low weight, as the housing is made of high-quality, wear-resistant polyamide wear-resistant polyamide
- Effective use and extremely good power transmission due to ergonomic shape
- Suitable for right and left-handers

Art. no.	Ø	kg	PU
201062	1,4 - 4,5	0,054	1

PC-Cat

- For stripping round cables Ø 4.5 - 10 mm
- Stripping various cable types, e.g. CAT 5, CAT 6, CAT 7, Twisted-Pair cable
- With stripping tool for cables and litz wire from 0.2 - 0.8 mm²
- For stripping PVC insulated CAT and network cables
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- No need to set blades required to cutting depth

Art. no.	Ø	↔	kg	PU
200637	4,5 - 10	125	0,062	1

No.1-Cat

- For stripping PVC insulated data, communication and control cables Ø 4.5 - 10.0 mm
- Cat5, Cat6, Cat7, Twisted-Pair cable
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- 2 blade pairs for outer sleeve and foil sheath
- Cutting depth does not need to be set
- With length scale

Art. no.	Ø	↔	kg	PU
200638	4,5 - 10	128	0,050	1

Stripper for UTP-/STP-data cable

Universal tool for cutting, stripping and removing the sleeve from round and flat cables, sheathed and unsheathed cables.

- Cutting depth can be set
- Exchangeable blades
- For cable with a diameter of 3.5 to 9 mm

Art. no.	Ø	kg	PU
200068	3,5 - 9	0,060	1

Precision stripper PWS Plus

Areas of application: Data processing equipment, control device production, telecommunication, 3 integrated functions:
- Precise stripping from AWG 30 (0.25 mm² Ø) to AWG 20 (0.8 mm² Ø)
- Adjustable straight dog up to 15 mm
- Wire cutter up to 0.8 mm Ø (CU cable)

Art. no.	Ø	kg	PU
200033	0,25 - 0,8	0,039	1

Sensor Tool LSA

Standard tool for all data, information and telecommunication cables with cutting mechanisms, hook and blade
- Cable diameter: 0.35 - 0.9 mm
- Core diameter: 0.7 - 2.6 mm

Art. no.	Ø	kg	PU
300322	0,35 - 0,9	0,078	1

Stripping pliers

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INFO

Wire strippers

Stripping is the removal the insulation on an electrical cable (wire). The following stripping pliers are used to do this:

Manually adjustable stripping pliers
Are set by hand to the stripping diameter by eye. The risk of damaging the cable is thus very high.

Automatic or self-adjusting stripping pliers
For fast and precise cutting and stripping. These tools automatically adjust to the required cable cross-section or insulation thickness. Thus it is not possible to damage the cable or the insulation. A lengthwise stop makes serial insulation easier.

Micro-precision stripping tools
These are used when fine wires are to be stripped. Data technology, network technology, controller construction, telecommunications, electronics, model construction.

Stripping tools for special insulation types
Tefl on insulations are a rubber-like insulation type which make removing the insulation of an electrical cable more diffi cult. In such tough situations we recommend stripping tools that cut the insulation sleeve.

Advantages
- Constant safe stripping results
- Fault free processing
- Precision in every cut
- Serial stripping is made easier by lengthwise stop
- Automatic stripping pliers = 3 in 1 = cut + remove sleeve + strip

Cable stripper, manual

Multi-functional tool including cable cutter for copper cable.
- Comfortable handles
- Precise removal of sleeve thanks to formed blade
- Cutting function
- Gripping function
- With handle lock

Art. no.	⟷	mm²	kg	PU
210620 ✸	175	0,5 - 2,5	0,158	1
210622	175	0.5 - 1,5	0,158	1
210624	175	0.25 - 0,75	0,161	1

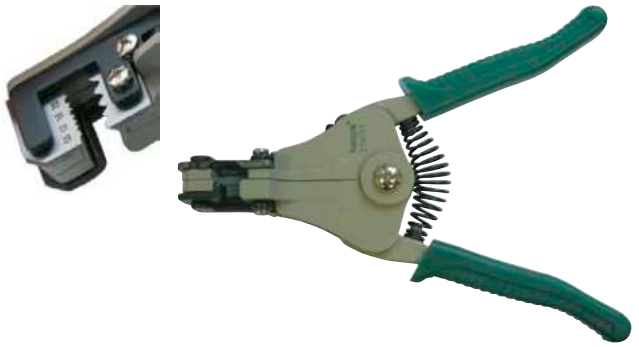
Cable stripper, manual optical fibre

Multi-functional tool for fibre optic cables.
- For slicing open and cutting cables
- Cutting depth can be set
- Specially designed for use with fibre optic cables (outer sleeves and buffer)
- With handle lock

Art. no.	⟷	mm²	kg	PU
200057 ✸	150	0 - 0,18	0,120	1

Cable stripper, automatic

- No damage to the cable
- Sleeve is removed according to standard from fine wire cables
- Replaceable blade made from special steel
- Robust metal body
- A pressure spring returns the cutters to the starting position
- Also ideally suited for use with fibre optic cables.



Art. no.	⟷	mm²	kg	PU
210691	165	0,5 - 2	0,340	1
210692 ✸	165	1 - 4	0,350	1

Wire stripper High Strip

- Suitable for cables with problematic insulation types, e. g. rubber, silicone, TPE, etc.
- For cable sized 0.5 - 0.75 - 1.5 - 2.5 - 4.0 mm²
- Adjustable lengthwise stop 5 to 15 mm

Art. no.	⟷	mm²	kg	PU
210684	170	0,5 - 4	0,130	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Automatic wire stripper Super Plus

for solid and flexible conductors and strands between 0.2 and 6.0 mm² (AWG 24 - 10)

- For fast and precise stripping even of difficult – to-access places
- No adjustment to wire cross section necessary
- Suitable for cables with insulation made from PVC and other materials
- Special scanning system, therefore no damage to conductors
- Adjustable longitudinal stop from 6.0 to 15.0 mm for even serial stripping
- External side cutters for conductors up to 2.5 mm²
- Body of pliers made from fibre-glass reinforced polyamide
- Handle of pliers with elongated hole at the bottom for mounting

VIDEO 210695

Art. no.	⟷	mm²	kg	PU
210695 ✷	170	0,2 - 6	0,088	1
210695/E	Spare knife		0,010	1

Automatic wire stripper Super4Pro

- ergonomic, automatic wire stripper for PVC insulated wires from 0.2 – 6.0 mm² (AWG 24 – 10)
- plier-handle design with soft, non-slip safety grip
- for speedy and precise stripping of wires even where acces is difficult
- wire cutter for diameters of up to 2.5 mm²
- length stopper adjustable from 6 to 15 mm
- plier-handle design with lockable design

Art. no.	⟷	mm²	kg	PU
210698	165	0,2 - 6	0,094	1

Automatic wire stripper

- For single, multiple and fine wire cables from 0.2 to 6.0 mm²
- Ergonomic, automatic strippers
- Increased operating comfort thanks to anti-slip soft components on the stripper handle
- Automatic, energy-saving scanning system
- Cable cross-section does not need to be set
- Optimally positioned side cutter for up to 2.5 mm²
- Adjustable lengthwise stop 6 to 18 mm for same sleeve removal lengths when carrying out series work
- Exchangeable blades

VIDEO 210696

Art. no.	⟷	mm²	kg	PU
210696 ✷	180	0,2 - 6	0,151	1
210696/2	spare blades		0,030	1

Wire stripper / Solar

- For cables with large cross-sections from 6 to 16 mm²
- Also for stripping PVC flex 3 x 0.75 mm² or solar cables Solarflex-X PV1-F
- Automatic strippers
- Optical lengthwise stop to 20 mm
- Cable cross-section does not need to be set
- Any stripping length can be selected as needed
- Exchangeable blades

Art. no.	⟷	mm²	kg	PU
210685	160	6 - 16	0,147	1

Wire strippers

Flat cable pliers

- For PVC insulated flat cables up to a maximum of 12 mm in width and a cross-section of 0.75 x 2.5 mm²
- Automatic strippers
- Optical lengthwise stop to 20 mm
- Strippers do not need to be set
- Any stripping length can be selected as needed
- Exchangeable blades

Art. no.	⟷	mm²	kg	PU
210686	160	0,75 - 2,5	0,148	1

Wire stripper Sensor Mini

The HAUPA Sensor Mini has a specially designed blade geometry with a working area as of 3.2 mm Ø for sensor cables with smaller cross-sections.

- Automatic wire strippers for stripping combination wires for connecting sensor actuators, distribution boxes/bus couplings
- Any length can be stripped
- No need to make setting to the cable cross-section
- Blades can be replaced

Art. no.	⟷	Ø	kg	PU
210730	180	3,2 - 4,4	0,122	1

Wire stripper sensor special

Automatic stripper for stripping combination cables for connection of sensor actuators, distribution boxes/bus couplings. For stripping halogen-free screened or unscreened sensor actuator cables with PUR or PVC exterior sleeve and a cable construction with 3 to 8 cores.

- e.g. sensor cable 3 x 0.34 mm² unscreened up to 8 x 0.25 mm² screened
- Any stripping length
- Cable cross-section does not need to be set
- Exchangeable blades

Art. no.	⟷	Ø	kg	PU
210729	180	4,4 - 7	0,122	1

Cable stripper ASI, automatic

For stripping AS interface cables with TPE/PUR exterior insulation. For use in connecting actuator-sensor interface components.

- Blade contour designed for use with the AS interface cable
- Strippers do not need to be set
- Any stripping length can be selected as needed
- Exchangeable blades

Art. no.	⟷	kg	PU
210693	160	0,117	1
210693/1	Spare knife	0,030	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✱ Bestseller Premium product

Wire strippers

Cable stripper Outlet 20

Suitable for connecting potential equalising, screened connection system or grounding clips.

- For stripping round cables 7.5 to 9 mm Ø
- Insulation thickness of the cable max. 1.65 mm
- ideal for processing NYM cables 3 x 1.5 mm² to 5 x 1.5 mm²
- Coaxial cables, shielded or unshielded measuring, monitoring and control cables

Art. no.	⟷	mm² Cable cut-out		kg	PU
210699	160	7,5 - 9	20	0,100	1

Automatic cable stripper

- For stripping fine wires and solid cables 0.08 – 2.5 mm²
- Stripping length, maximum 15 mm
- Automatic setting to the cross-section
- Integrated side cutter of up to 6 mm²
- With stripping lengthwise stop

Art. no.	⟷	mm²	kg	PU
211928	160	0,08 - 2,5	0,156	1
211928/1	spare blades		0,008	1

Automatic cable stripper

Automatic cable stripper

- For stripping fine wires and solid cables 0.08 – 6 mm²
- Automatic setting to the cross-section
- Integrated side cutter of up to 6 mm²
- With stripping lengthwise stop

Art. no.	⟷	mm²	kg	PU
211930 ✷	205	0,08 - 6	0,255	1
211930/1	spare blades		0,009	1

Automatic cable stripper

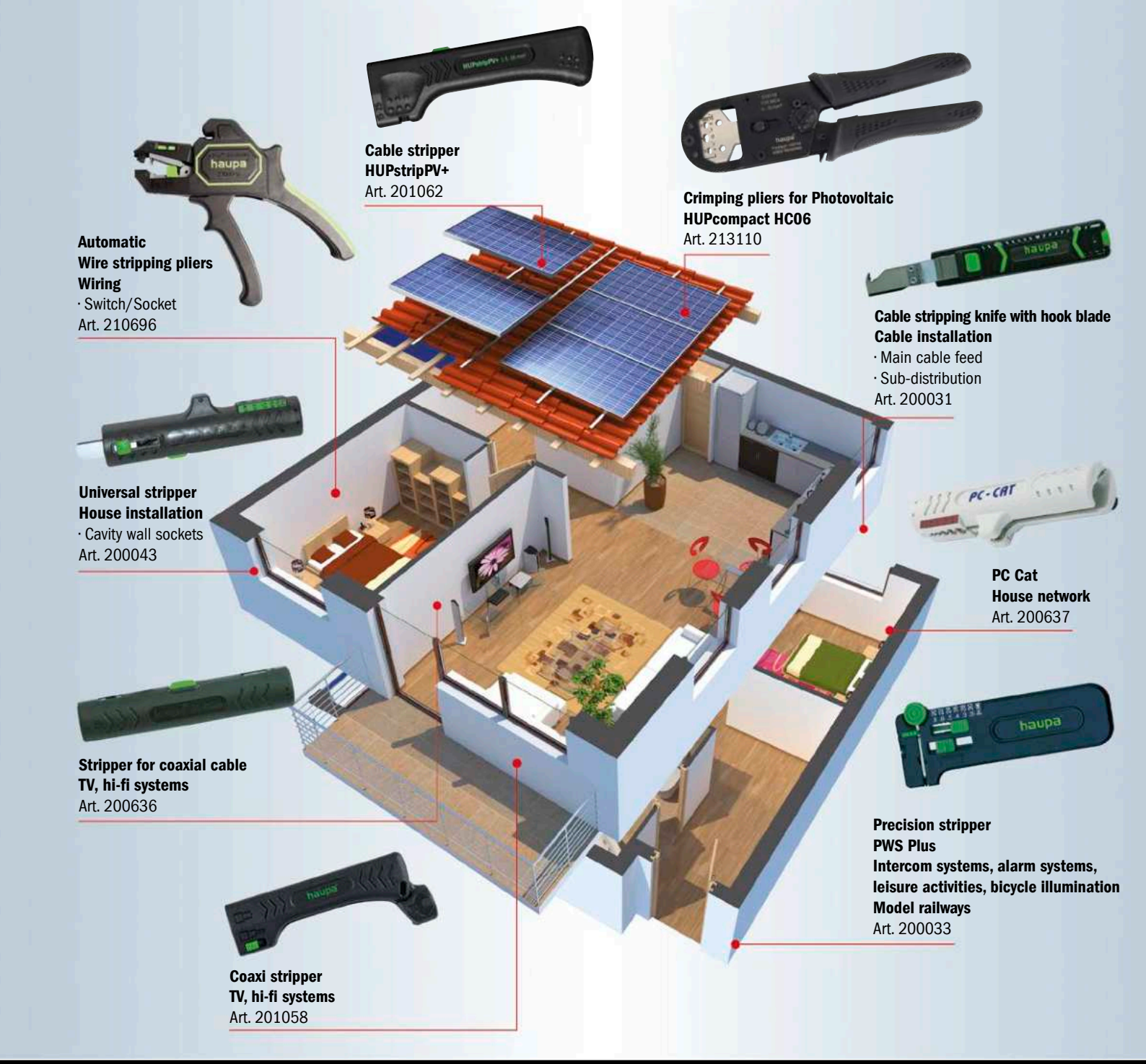
- For stripping fine wires and solid cables 0.03 – 10 mm²
- Automatic setting to the cross-section
- Integrated side cutter of up to 10 mm²
- With stripping lengthwise stop

Art. no.	⟷	mm²	kg	PU
211934	205	0.03 - 10	0,130	1

Automatic cable stripper

- For stripping fine wires and solid cables 6 – 16 mm²
- Automatic setting to the cross-section
- Integrated side cutter of up to 6 mm²
- With stripping lengthwise stop

Art. no.	⟷	mm²	kg	PU
211932	205	6 - 16	0,250	1
211932/1	spare blades		0,011	1



Strippers for building installation work

Stripping

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INFO

Cable strippers

Stripping refers to the removal of the outer sleeve of the cable. A special tool is used to first cut in a ring around and then along the length of the cable. Cable sleeve cutters are available in a wide variety of versions.

Important:
When stripping, the insulation of the inner wires and the wires themselves may not be damaged.

Cable sheath cutter

for removing all insulating layers from cables with diameters as of 25 mm
- Replaceable dual blade
- Cutting depth can be set to a max. of 5 mm
- Suitable for lengthwise and circular cuts

Art. no.	Ø	kg	PU
110581	>25	0,220	1

Stripping pliers

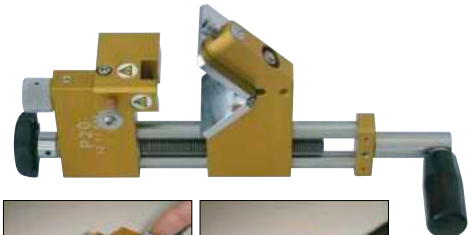
For cutting and removing the cable sheathing of low and medium-high voltage cables

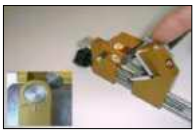
Art. no.	⟷	Ø	kg	PU
200187	260	26 - 52	0,760	1
200188	290	47 - 75	1,100	1

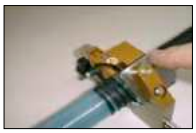
Stripping tool for medium-high voltage cable

A universal tool for controlled and safe stripping of the firm extruded exterior semi-conductor layer of medium-high voltage cable with 10-30 KV and for greater voltage levels. Working range 10-50 mm.
- Stripping depth can be set
- Defined round cut
- Automatic work feed

VIDEO 200520







Art. no.	Ø	kg	PU
200520	10 - 50	0,800	1
200520/1	Spare blade set	0,800	5

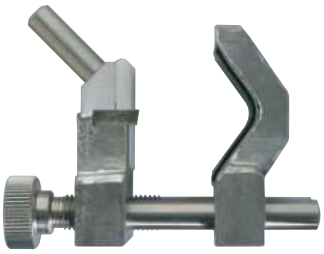
Cable Sheath Stripper

A combination tool for all standard cross-sections in the medium voltage range for XLPE single-core cables.
Cutting and stripping of the outer sheath and the inner conductor insulation. Two feeds and a zero position can be set for precise cutting. The sheath is lifted at the cut point, preventing damage to the lower structural elements. A combination tool for all standard cross-sections in the medium voltage range for XLPE single-core cables. Cutting and stripping of the outer sheath and the inner conductor insulation. Two feeds and a zero position can be set for precise cutting. The sheath is lifted at the cut point, preventing damage to the lower structural elements.

VIDEO 200524

Art. no.	Ø	mm²	kg	PU
200524	15 - 55	35 - 500	0,800	1
200524/1	Spare blade		0,020	1

Edge cutter



Art. no.	Ø	kg	PU
200526	0 - 40	0,100	1
200528	0 - 60	0,100	1

Complete assembly case

Content:
- Sleeve cutter
- Plastic prism
- Stripping device
- Silicone paste
- Edge cutter
- Key for changing blades

Art. no.	set	mm²	kg	PU
200522	6	35 - 500	2,704	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Pressing and crimping

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1.5
2.5
4-6
0.5

INFO

Photovoltaic

The photovoltaic energy conversion is carried out with the assistance of solar cells that are connected in order to form solar modules in photovoltaic plants. The generated electricity can be stored on site in accumulators or fed into the power network. If the energy is fed into the public power network then the direct current generated by the solar cells with be converted by a converter into alternating current. In order to constantly make energy available, the energy must be stored.

Crimping pliers photovoltaic

Square crimping (for MC3 connectors (Multi Contact)), with unlockable positive lock, crimp pressure can be readjusted.

Art. no.	mm²		kg	PU
211657	2,5 - 6	for MC3	0,560	1

Crimping pliers

Roll crimping (for MC4 connectors (Multi Contact)), with unlockable positive lock, crimp pressure can be readjusted.

Art. no.	mm²		kg	PU
211659 ✷	2,5 - 6	for MC4	0,560	1

Crimping pliers HUPstar Photovoltaic

for photovoltaic connectors. Crimping pliers for industrial users, rotatable precision press die with parallel feed, exchangeable dies.
Press star 213084/E
Photovoltaics:
Amphenol Helios H4: 2,5 / 4 / 6
MC3 plug connectors (Multi Contact): 2,5 / 4 / 6
MC4 plug connectors (Multi Contact): 2,5 / 4 / 6
Tyco Solarlok: 1,5 / 2,5 / 4 / 6

Art. no.	⟷	mm²	kg	PU
213084	230	1,5 - 6	0,300	1
213084/E	Replacement star		0,175	1

Crimpset MULTI Photovoltaik

Innovative crimping tool with rapid change system - one tool for almost all crimping applications

Contents of set:
Crimping plier Multi (211962)
Crimping dies for MC3 plug connectors (Multi Contact)
2,5 + 4 + 6 mm², AWG 13/11/10
Crimping dies for MC4 plug connectors (Multi Contact)
2,5 + 4 + 6 mm², AWG 13/11/10

Other advantages:
- Screw less fast change system for crimping dies
- Single hand operation with expenditure energy
- With ratchet and built-in safety release, guarantees proper electrical connection
- Adjustable crimp pressure
- Chrome plated tool frame
- Additional purchase of other crimping dies possible
- Handy box protects pliers and dies

Art. no.	set	kg	PU
212005	4	1,150	1

Pressing tongs for photovoltaic elements

HAUPA Crimp System for Photovoltaics

Chrome-plated system pliers without inserts in case.

The basic equipment of the case set includes:

- One pair of pliers, chrome-plated without crimping insert
- One Allen key (SW 2.5 mm)
- one open-end wrench (SW 7)
- 2 replacement screws (M4 x 10/M4 x 16mm)

Specifications:

Special crimping pliers for crimping solar contacts of almost all connector systems

- Guarantees exact, solder-free, electrical connections
- Parallel crimp jaw feed
- 30% reduction in manual force thanks to optimum lever ratio
- Positive lock for reliable crimping, can be unlocked
- Adjustable crimping pressure
- Good handling thanks to optimum center of gravity
- Long lever arm, enabling one- and two-handed operation
- Easy replacement of the crimping dies
- Possibility of attaching a positioning aid to determine the position of the connector
- Several crimping points in one crimping die

Art. no.	mm²	set	kg	PU
212200	6	6	0,998	1

Dies for contact H & S 2.5 + 4 mm²

Art. no.		kg	PU
212206	2.5 + 4 mm², AWG 13/11	0,050	1
212208	4 + 6 mm², AWG 11/10	0,050	1

Crimp inserts for plug connectors (Multi Contact)

Art. no.		kg	PU
212210	for MC3, 2.5 + 4 + 6 mm², AWG 13/11/10	0,050	1
212212	Locator	0,030	1

Crimp inserts for plug connectors (Multi Contact)

Art. no.		kg	PU
212214	for MC4, 2.5 + 4 + 6 mm², AWG 13/11/10	0,050	1
212216	Locator	0,030	1

Crimp insert for Hirschmann contacts

Art. no.		kg	PU
212218	2,5 + 4 + 6 mm², AWG 13/11/10	0,050	1

Crimp insert for Tyco contacts

Art. no.		kg	PU
212220	1,5 + 2,5 + 4 + 6 mm²	0,050	1
212222	Locator	0,030	1

Crimp insert for Amphenol contacts

Art. no.		kg	PU
212226	2.5 + 4 mm², AWG 13/11	0,050	1
212228	Locator	0,050	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

HUPcompact HC06 for MC4 connectors (Multi Contact)

Tool frame made of hardened steel, crimp segments made of high quality carbon steel, eroded, heat treated, polished and nickel plated

- High crimping forces easy to achieve
- Simple one-hand operation
- With unlockable positive ratchet
- 100% parallel feed
- Precision crimp
- Crimping force: 5 kN
- Small, compact design
- Service life: 50,000 crimps
- Roll-crimp (for MC4) 4 / 6 / 10 mm²

Art. no.	⟷	mm²	kg	PU
213110	205	4 - 10	0,300	1

Crimpset X-Crimp for photovoltaic

Crimping pliers for quick change of HAUPA precision crimping dies especially for photovoltaics. Delivery in robust nylon bag (Art. 220260)

Content:
Art. 211690
Art. 211657/E
Art. 211659/E
Art. 210842/E
Art. 210761/E

Art. no.	set	kg	PU
211697	6	0,900	1

Assembly tool for MC4 plug connectors (Multi Contact)

For assembling and loosening the cable glands of MC4 plug connectors (Multi Contact), easy loosening of the locks on MC4 plug connector (Multi Contact) housings, made of glass-fiber reinforced plastic

Art. no.		kg	PU
110806	for MC4 (Multi Contact)	0,026	1

HUPsolarKit 3

Set in a practical plastic case. The empty area in the case can be used very well for storing photovoltaic accessories.

Content:
211225 Cable cutter VDE HUPtriCut | 160 mm for Ø 8 mm
201060 Cable stripper HUPstripPV | Solar 2.5 – 6.0 mm²
110806 Assembly tool for MC4 (2 units)
211659 Crimping plier Photovoltaic | Roll-crimp (for MC4) 2.5 – 6 mm²
330046/K PV plastic case, black with print

Art. no.	set	kg	PU
330046	6	1,320	1

HUPsolarKit4

Set in a practical plastic case. The empty area in the case can be used very well for storing photovoltaic accessories.

Content:
211225 Cable cutter VDE HUPtriCut | 160 mm for Ø 8 mm
201062 Cable stripper HUPstripPV+ | Solar 1.5 – 16 mm²
110806 Assembly tool for MC4 (2 units)
213110 HUPcompact HC06 for MC4 plugs 4 – 10 mm²
330048/K PV plastic case, black with print

Art. no.	set	kg	PU
330048	6	1,320	1

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Pressing tongs for photovoltaic elements

HUPsolarKit 5

Contents:
201085 Cable cutter HUPtriCut dip-insulated, 160 mm for Ø 8 mm
201062 Cable stripper HUPstripPV+, 1.5 – 16 mm²
110806 assembly tool for MC4 plug connectors (Multi Contact) (2 pieces)
213110 HUPcompact HC06 for MC4 plug connectors (Multi Contact) | 4 – 10 mm²
220105 Belt bag ToolBelt with 8 compartments

Art. no.	set	kg	PU
330050	6	0,700	1

INFO

Crimping pliers for end sleeves

When crimping end sleeves a distinction is made between sleeves with and without plastic collars and between trapezoid, square and hexagon pressing.
The sleeves with a plastic collar make it easier to insert individual stranded wires. The coloured marking on the wire end sleeves is used to classify the cross section.
Pliers with a square crimp ensure better contact in the terminal strip.
The square crimp also facilitates alignment and assembly, as clamps can be attached to each of the surfaces.

insulated end sleeves

for short-circuit-proof cables

TWIN

tin-plated

bare

Crimping pliers

for end sleeves, with cutting and stripping mechanism, black

Art. no.	mm²	kg	PU
210818	0,25 - 2,5	0,210	1

Crimping pliers

for end sleeves, with cutting and stripping mechanism, matt, chrome-plated

Art. no.	mm²	kg	PU
210820 ✷	0,25 - 2,5	0,202	1
210824 ✷	0,75 - 16	0,304	1
210826 ✷	10 - 35	0,277	1

Crimping pliers for end sleeves

Crimping pliers

for end sleeves, short construction, 20% angled handy form, with locking device, with adjustable crimp pressure, trapezoid pressing

Art. no.	mm²	kg	PU
211650	0,14 - 2,5	0,371	1
210841 ✷	0,25 - 6	0,380	1
211652	6 - 16	0,374	1

Crimping pliers for twin end sleeves

with locking device, with adjustable crimp pressure, chrome plated, trapezoid pressing

Art. no.	mm²	kg	PU
211676	0,5 - 6	0,576	1
211678	6 - 16	0,604	1

Crimping pliers

for end sleeves, with locking device, with adjustable crimp pressure, chrome plated, trapezoid pressing

Art. no.	mm²	kg	PU
210763 ✷	0,5 - 4	0,578	1
210842 ✷	1 - 10	0,553	1
210765	6 - 16	0,582	1
211672	10 - 25	0,580	1
210768	10 - 35	0,606	1
211674	25 - 50	0,600	1

HUPcompact HC02

for end sleeves, 100% parallel crimp, precision crimp, handle force: 5 kN, small compact construction, life span: 50,000 crimp cycles, trapezoidal pressing, (10 + 16 mm² wave profile/ 0.5-6 mm² trapezoidal profile)

PREMIUM

Art. no.	mm²	↔	kg	PU
213088	0,25 - 16	198	0,480	1

Crimping pliers HUPsquare 10

for wire end ferrules 0.08 to 10 mm² (twin 2x 4 mm²), precise crimp profile, automatic adjustment to the conductor cross-section, unlockable positive lock, guarantees DIN-compliant connections, high transmission ratio and ergonomically shaped plastic handles for fatigue-free working, **square crimping**

Art. no.	mm²	Twin (mm²)	kg	PU
212804	0,08 - 10	2 x 4	0,566	1

Crimping pliers HUPsquare 16

for end sleeves, precise square pressing profile, automatic setting to the conductor cross-section, unlockable forced lock, guarantees connections that meet DIN, high transmission and ergonomically shaped plastic handles for fatigue free working, **square pressing**

Art. no.	mm²	Twin (mm²)	kg	PU
212806	0,5 - 16	2 x 6	0,566	1

Crimping pliers

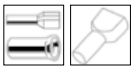
for wire end ferrules 0.08 to 10 mm² (twin 2x 4 mm²), precise crimp profile, automatic adjustment to the conductor cross-section, unlockable positive lock, guarantees DIN-compliant connections, high transmission ratio and ergonomically shaped plastic handles for fatigue-free working, **square crimping**

Art. no.	mm²	Twin (mm²)	kg	PU
210804	0,08 - 10	2 x 4	0,360	1

Crimping pliers for end sleeves

Crimping pliers

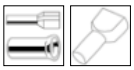
for end sleeves, precise crimping profile, automatic setting to the conductor crosssection, unlockable forced lock, guarantees connections that meet DIN, high transmission and ergonomically shaped plastic handles for fatigue free working, square pressing



Art. no.	mm²	Twin (mm²)	kg	PU
211816 ✸	0,08 - 16	2 x 6	0,413	1

Crimping pliers

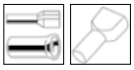
for end sleeves up to 16 mm² and twin end sleeves up to 2x 10 mm², precise crimping profile, automatic setting to the conductor crosssection, unlockable forced lock, guarantees connections that meet DIN, high transmission and ergonomically shaped plastic handles for fatigue free working, **hexagon pressing**



Art. no.	mm²	Twin (mm²)	kg	PU
211818	0,08 - 16	2 x 10	0,413	1

Front-Crimping pliers

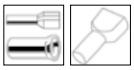
for wire end ferrules 0.08 to 10 mm² (twin 2x 4 mm²), precise crimping profile, automatic adjustment to the conductor cross-section, front insertion facilitates use in confined spaces, side insertion option for wire end ferrules up to 2.5 mm², unlockable positive lock, high gear ratio and ergonomically shaped plastic handles for fatigue-free working, crimping pressure can be readjusted, **square crimping**



Art. no.	mm²	Twin (mm²)	kg	PU
210819	0,08 - 10	2 x 4	0,489	1
211810	0,08 - 16	2 x 6	0,489	1

Crimping pliers

for end sleeves, lever translated version for better transmission of force, with unlockable locking mechanism, with wave profile, also suited for thinned, compacted conductors, trapezoidal pressing



Art. no.	mm²	Twin (mm²)	kg	PU
210788 ✸	10 - 50	2 x 16	0,732	1
210789	50 - 95		0,800	1

Quadro complete set in case

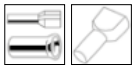
in case:
1 Quadro-pliers incl. magazine
2 spare magazines

Art. no.	mm²	↔	kg	PU
210682	0,5 - 2,5	170	0,713	1

Pneumatic crimpers

HAUPA Pneumatic Crimpers

for end sleeves, pneumatic crimpers crimp wire end sleeves quickly and without effort. Table top versions are actuated by a foot switch, allowing the operator to use both hands. The Pneumatic Crimpers are lightweight and easy to use. The crimping mechanism is easily activated, making it perfectly suited for work in control cabinets and electrical equipment. These tools are maintenance free - they require no routine calibration - only 60 - 90 psi to allow proper operation. Incl. spiral hose 2 m

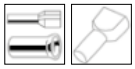


VIDEO 217030

Art. no.	mm²	↔	kg	PU
217030	0,25 - 2,5	200	0,720	1
217040	4 - 10	200	0,739	1

HAUPA Pneumatic crimpers table top versions

for end sleeves, table top versions are actuated by a foot switch, allowing the operator to use both hands. Incl. spiral hose, foot switch and table clamp



Art. no.	mm²	↔	kg	PU
217010	0,14 - 2,5	200	5,000	1
217020	4 - 10	200	5,000	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

INFO

Crimping pliers for insulated crimp cable lugs

Insulated cable lugs and crimp cable lugs are crimped in an oval form.

The coloured marking of the wire cross section to the insulated cable lug is defined in DIN 46245, Parts 1, 2 and 3.

- Red => stands for 0.5 to 1 mm²
- Blue => stands for >1.5 to 2.5 mm²
- Yellow => stands for >4 to 6 mm²

As the cable lug is rolled from a metal sheet, attention should be paid to the position of the butted edge. It should be in the middle of the top profile. If it is on the side, the edge opens up and the wire is not gastight or adequately clamped.

Butted edge

Ring terminals

Fork terminals

Shrinkable connectors

Round terminals

Flat terminals

Socket sleeves (female)

Round sleeves

Round pins

Socket sleeves (male)

Butt connectors

Parallel connectors

End connectors

Crimping pliers

for insulated crimp cable lugs, short construction, 20% angled handy form, with locking device, with adjustable crimp pressure, oval pressing

Art. no.	mm²	kg	PU
210845	0,08 - 2,5	0,343	1

Crimping pliers

for insulated crimp cable lugs, with locking device, with adjustable crimp pressure, chrome plated, oval pressing

Art. no.	mm²	kg	PU
210761 ✷	0,5 - 6	0,566	1

HUPcompact HC01

for insulated cable lugs and connectors, 100% parallel crimp, precision crimp, handle force: 5 kN, small compact construction, life span: 50,000 crimp cycles,
oval pressing

PREMIUM

Art. no.	mm²	↔	kg	PU
213090	0,1 - 6	198	0,480	1

Crimping pliers

for insulated crimp cable lugs, lever translated version for better transmission of force, with unlockable locking mechanism, oval pressing

Art. no.	mm²	kg	PU
210827	10 - 16	0,472	1

Crimping pliers

for insulated crimp cable lugs with wire-and bolt-cutters and wire stripper with threaded bolt-cutter, oval pressing

Art. no.	mm²	kg	PU
210802	1,5 - 6	0,178	1

Combi-Crimping pliers

for insulated and uninsulated crimp cable lugs and connectors from 0.5 - 6 mm², C 45, cutting edges induction hardened, with wire-and bolt-cutters and wire stripper with threaded bolt-cutter, oval pressing

Art. no.	mm²	kg	PU
210808 ✷	1,5 - 6	0,198	1

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Crimping pliers for heat shrink connectors

Crimping pliers

for shrink connectors, with locking device, with adjustable crimp pressure, chrome plated, oval pressing

Art. no.	mm²	kg	PU
211695	0,5 - 10	0,566	1

Crimping pliers for coaxial connections

Crimping pliers

for coax-connections, short construction, 20% angled handy form, with locking device, with adjustable crimp pressure, hexagon pressing

Art. no.	RG	kg	PU
210849	RG 55-58-59-62	0,303	1

Crimping pliers

for coax-connections, with locking device, with adjustable crimp pressure, chrome plated, hexagon pressing

Art. no.	RG	kg	PU
210767 ✸	RG 55-58-59-62	0,567	1
211680	RG 55-58-59-62-5-6	0,578	1

Crimping pliers HUPstar Coax

Pressing star 213082/E
Coax: **Hexagon pressure bonding,** BNC, TNC, SNB, SNC, SMS, SMA, MCX, 1.07 to 10.9 mm

Art. no.	⟷	kg	PU
213082	230	0,300	1

Crimping pliers for contacts and connectors

INFO

Crimping pliers for contacts and connectors

D–Sub plugs are open plug-in connectors that are connected with the wire via a rolling crimp. D-Sub plugs are used in modern office and communication technology.

Rolled contacts are open plug-in connectors that are connected with the wire via a rolling crimp. It is important to choose the correct plug for the cross section of the wire. No single wire may project from the crimp.

Twisted contacts are used to connect computer interfaces, power and control wires in multi-pole plug-in connections and flexible assembly lines in the automotive industry.

Crimping pliers

short construction, for twisted contacts, 20% angled handy form, with locking device, with adjustable crimp pressure, square pressing

Art. no.	mm²	kg	PU
211656	0,14 - 4	0,367	1
211658	1,5 - 6	0,372	1

Crimping pliers

short construction, for rolled contacts, 20% angled handy form, with locking device

Art. no.	mm²	kg	PU
211660	0,14 - 1,5	0,370	1

Crimping pliers

short construction, for D-Sub-connectors, 20% angled handy form, with locking device

Art. no.	mm²	kg	PU
211662	0,08 - 0,56	0,365	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Crimping pliers for uninsulated brass cable lugs

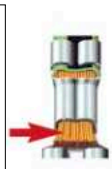
INFO

Crimping pliers for uninsulated open brass cable lugs

We distinguish between wire crimps and insulation crimps. The end of the wire should be flush with the wire crimp or extend beyond it no further than 1 mm, so that the plug function is not affected. The insulation end must not project into the wire crimp, however it must also not lie just half beneath the insulation crimp. Only in this way can a standard-compliant crimp be ensured.

In a good crimp the wire must be deformed. In this case one talks of a **gastight crimp.**

Wrong:
The end of the insulation is in the insulation crimp.
Wrong:
The stripped wire projects into the contact zone.

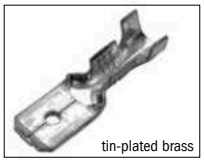


Correct:
The end of the insulation and the stripped wire are crimped accurately.
To facilitate accurate crimping a positioning aid is available for crimping pliers.

Socket sleeves (female) with cable stop

Socket sleeves (female) with cable stop and side cable connection

Flat terminals

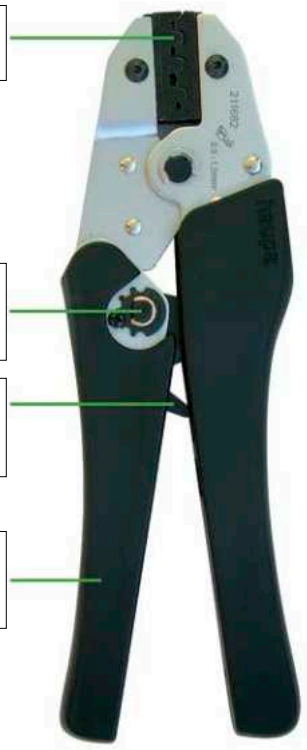


Precision-ground crimp profi les
=> clean crimp

Adjustable crimping pressure
=> Wear compensation
via adjusting screw

Forced block, unblockable
=> guaranteed DIN-compliant crimped connection

Ergonomically formed plastic handles
=> low fatigue work



Crimping pliers

for open brass cable lugs, short construction, 20% angled handy form, with locking device, with adjustable crimp pressure, roll pressing

Art. no.	mm²	kg	PU
210777	0.5 - 1,5	0,366	1

Crimping pliers

for open brass cable lugs, with locking device, with adjustable crimp pressure, chrome plated, roll pressing

Art. no.	mm²	kg	PU
211682	0.5 - 2,5	0,568	1
210762 ✸	0.5 - 6	0,575	1

Crimping pliers

for open brass cable lugs, with locking device, with adjustable crimp pressure, chrome plated, roll pressing

Art. no.	mm²	kg	PU
210785	0.5 - 1	0,537	1
210786	1.5 - 2,5	0,535	1

HUPcompact HC04

for open brass tab connectors, 100% parallel crimp, precision crimp, handle force: 5 kN, small compact construction, life span: 50,000 crimp cycles, with locator, roll pressing

PREMIUM

Art. no.	mm²	↔	kg	PU
213094	0,5 - 6	198	0,490	1

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INFO

Crimping pliers for uninsulated terminals

Important when crimping uninsulated terminals and butt space connectors: Uninsulated crimping terminals are pressed together by means of so-called piercing compression.

The crimp sleeve is compressed in the middle. The pressing thorn should be set to the separating seam of the sleeve.

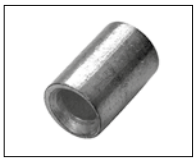
Crimping terminals
Ring type

Crimping terminals
Fork type

Crimping terminals
Pin type

Crimping terminals
Butt connectors

Crimping terminals
Parallel connectors



Crimping pliers

for non insulated crimp cable lugs, short construction, 20% angled handy form, with locking device, with adjustable crimp pressure, mandrel shape pressing

Art. no.	mm²	kg	PU
210778	0,25 - 2,5	0,363	1
210779	0,5 - 6	0,366	1

Crimping pliers

for non insulated crimp cable lugs, with locking device, with adjustable crimp pressure, chrome plated, mandrel shape pressing

Art. no.	mm²	kg	PU
210764	1,5 - 10	0,565	1

HUPcompact HC03

for non insulated cable lugs and connectors, 100% parallel crimp, precision crimp, handle force: 5 kN, small compact construction, life span: 50,000 crimp cycles, mandrel shape pressing

Art. no.	mm²		kg	PU
213092	0,75 - 10	198	0,480	1

Crimping pliers

for non insulated crimp cable lugs, lever translated version for better transmission of force, with **mandrel pressing**, for standard tubular cable lugs and connectors. Particularly well suited to nickel tubular cable lugs and connectors

Art. no.	mm²	kg	PU
210771	1,5 - 6	0,111	1

Crimping pliers

for non insulated crimp cable lugs, lever translated version for better transmission of force, with mandrel pressing, for standard tubular cable lugs and connectors. Particularly well suited to nickel tubular cable lugs and connectors

Art. no.	mm²	kg	PU
210772	1 - 10	0,478	1
210774	1 - 16	0,503	1

Crimping pliers

for non insulated crimp cable lugs, lever translated version for better transmission of force, with mandrel pressing, for standard tubular cable lugs and connectors

Art. no.	mm²	kg	PU
210799	0,5 - 16	0,640	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Crimping pliers for non-insulated tubular cable lugs, connectors

INFO

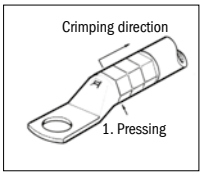
Crimping pliers for uninsulated tubular cable lugs

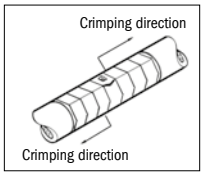
1. Choosing the connector
To achieve a standard-compliant connection it is necessary to choose the correct connector for the application and the right cable cross section.

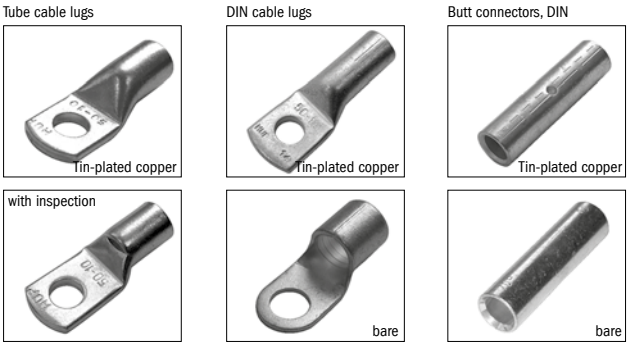
2. Stripping
Before notching, the cable must be stripped according to the insertion length (+10% due to change in length of the crimping sleeve.

3. Cleaning
The ends of the wire must be cleaned thoroughly to remove all traces of dirt and oxidation before being assembled.

4. Assembly
Insert the cable into the cable lug or connector to its full insertion length. Crimp the cable lug or connector with the correct tool, taking account of the crimping direction (see figure).







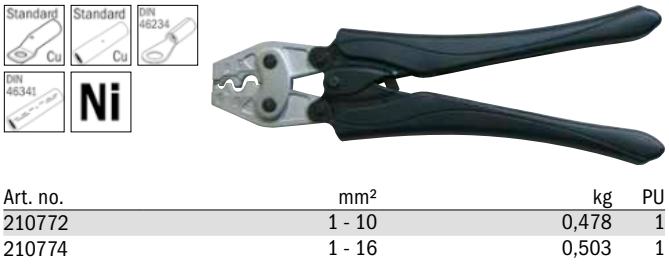
Crimping pliers

for non insulated crimp cable lugs, lever translated version for better transmission of force, with **mandrel pressing**, for standard tubular cable lugs and connectors. Particularly well suited to nickel tubular cable lugs and connectors

Art. no.	mm²	kg	PU
210771	1,5 - 6	0,111	1

Crimping pliers

for non insulated crimp cable lugs, lever translated version for better transmission of force, with mandrel pressing, for standard tubular cable lugs and connectors. Particularly well suited to nickel tubular cable lugs and connectors



Art. no.	mm²	kg	PU
210772	1 - 10	0,478	1
210774	1 - 16	0,503	1

Crimping pliers

Lever translated version for better transmission of force, with mandrel pressing, for standard tubular cable lugs and connectors. Particularly well suited to nickel tubular cable lugs and connectors

PREMIUM

Art. no.	mm²	kg	PU
210830 ✷	0,75 - 16	0,574	1

Crimping pliers

with punch and adjustable screw for different cross-sections, for standard tube terminals and connectors, mandrel shape pressing

Art. no.	mm²	kg	PU
210791	10 - 120	3,040	1

Crimping pliers

with built-in rotable profile disk, hexagon pressing

Art. no.	mm²	kg	PU
210836	50 - 120	5,280	1
210838	120 - 240	5,200	1
210840	185 - 400	5,200	1

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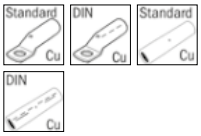
Crimping pliers for non-insulated tubular cable lugs, connectors

Crimping pliers

with built-in rotating profile washer, **hexagonal pressing**



VIDEO 210805

Art. no.	mm²		kg	PU
210805 ✷	6 - 50	standard	1,351	1
210805 K ✷	6 - 50	DIN	1,352	1
210850 ✷	10 - 120	standard	3,970	1
210853 ✷	10 - 120	DIN	4,016	1

INFO

Crimping pliers for modular plugs

Stripping and crimping in one step.

The following distinctions can be made between Western plugs:
4pole plug for telephone, power supply
6pole plug for fax and telephone connection
8pole plug for ISDN and PC connections

Crimping pliers for modular plugs

for unshielded modular plugs, inexpensive, lightweight tool for the casual usage

Art. no.	RJ	kg	PU
210867	RJ10 4(4), RJ14	0,218	1
210865	RJ11 6(4), RJ12 6(4)	0,220	1
210869	RJ45	0,233	1

Crimping pliers for modular plugs

for unshielded modular plugs, with cable cutter and stripper, light construction (6p, 8p, 6DEC, 4p)

Art. no.	RJ	kg	PU
213050 ✷	RJ11 6(4), RJ12 6(4), RJ45, RJ10 4(4), RJ14	0,300	1

Crimping pliers for modular plugs

for unshielded modular plugs, with cable cutter and stripper. Exactly crimp process through parallel crimping, even crimping quality by means of safety catch

Art. no.	RJ	kg	PU
210857	RJ11 6(4), RJ12 6(4), RJ45	0,471	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

Crimping pliers for modular plugs

Crimping pliers for modular plugs

for unshielded modular plugs 4-,6- and 8pole plug, 6DEC, heavy construction, with linear stroke and locking device, with cable cutter and stripper. Exactly crimp process through parallel crimping, even crimping quality by means of safety catch

VIDEO 210871

Art. no.	RJ	kg	PU
210871	RJ11 6(4), RJ12 6(4), RJ45, RJ10 4(4), RJ14	0,520	1

Crimping pliers for modular plugs

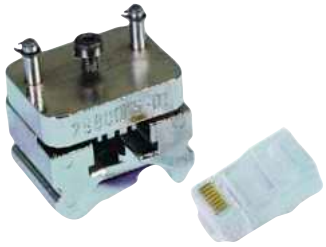
Semi-professional crimping pliers for shielded and unshielded Western plugs, with replaceable crimping dies, easy to use, light on the arms due to optimum leverage, optimum crimping, pliers body made of hardened quality steel, quick and simple replacement of crimping dies, adjustable crimping pressure and depth, application area for small and medium series, 50.000 working processes guaranteed, without dies

Art. no.	kg	PU
213000	0,420	1

Dies

Dies 6DEC unshielded for 213000

PDF 213002



Art. no.	RJ	kg	PU
213002	RJ10 4(4)	0,082	1
213004	RJ11 6(4), RJ12 6(4)	0,081	1
213006	6DEC	0,080	1
213008	8 pole, unshielded RJ45	0,076	1
213010	10 pole, unshielded RJ50	0,074	1
213012	8pole, shielded	0,076	1
213014	10pole plug, shielded	0,071	1

Crimping pliers for modular plugs

Professional crimping pliers for screened and unscreened Western plugs, with replaceable crimping dies, easy to use, light on the arms due to optimum leverage, optimum crimping, pliers body made of hardened quality steel, quick and simple replacement of crimping dies, adjustable crimping pressure and depth, application area for medium to large series, 50.000 working processes guaranteed, without dies

Art. no.	kg	PU
213020	0,474	1

Dies

for crimping pliers 213020

PDF 213022

Art. no.	RJ	kg	PU
213022	8pole, shielded	0,103	1
213024	10pole, shielded	0,102	1
213026	RJ10 4(4)	0,096	1
213028	RJ11 6(4), RJ12 6(4)	0,093	1
213030	6DEC	0,091	1
213032	RJ45	0,106	1
213034	RJ50	0,102	1
213036	8pole, CAT 5	0,106	1
213038	6pole, shielded	0,106	1
213040	8pole, shielded	0,113	1
213042	Ø 3,7 mm	0,030	1
213044	Ø 4,5 mm	0,030	1
213046	Ø 5,2 mm	0,030	1
213048	Ø 6,0 mm	0,030	1

Network range

Case with insert. With tools for cable stripping, cutting, crimping and applying to strips, sockets or fields.
Content:
- 1 crimping pliers for Western plugs (213050)
- 1 wire stripper for UTP/STP data cable (200068)
- 1 Sensor input tool LSA for UTP and STP cable (300322)

Art. no.	set	kg	PU
300033	3	0,700	1

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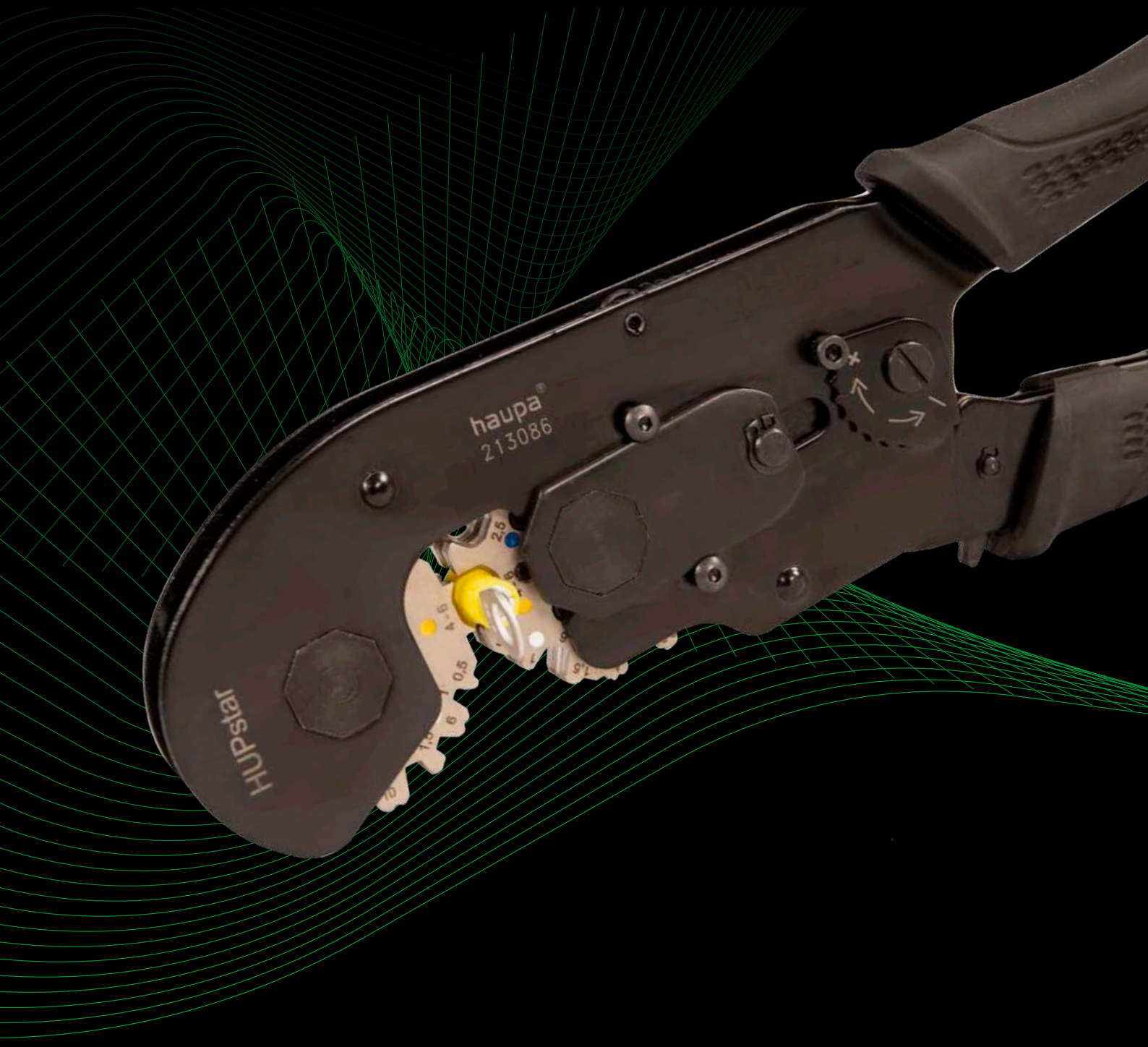
MADE IN GERMANY
0804

Multi-functional pliers



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INFO

Crimp stars for open and closed tool frames

HUPstar crimping pliers from HAUPA
In high-end crimping technology for the professional, industrial user, HAUPA has succeeded in introducing a series with the HUPstar which, with 3 different frame types, can handle all common connector crimps quickly and reliably just by replacing the respective insert star and is therefore the ideal complete tool for the toolbox and in the workshop.

7 variations of crimping stars are already an integral part of the delivery range:

1. **wire end ferrules**
   Insulated crimp terminals
   Ring cable lugs (DIN 46234 / DIN 46341)
2. **wire end ferrules**
   Flat receptacles
3. **coaxial**
4. **photovoltaic / solar**
5. **fiber optic connectors**
6. **turned contacts, square**
7. **automotive contacts**

A star change can be carried out in just 30 seconds!
The color code on the stars enables quick and correct assignment.

Thanks to the extremely precise parallel feed and the eroded precision crimp profiles, this high-quality crimping tool is very popular and enthusiastically received in the industry. Not least due to the high-quality workmanship of the crimping dies, which guarantee approx. 80,000 precision crimps thanks to their surface finish. This is because precise and reliable crimping in accordance with standards guarantees a complication-free, high-quality and durable connection.

Thanks to the innovative manufacturing process, individual stars tailored to the industrial customer can also be produced at no extra cost.

Video HUPstar

Tool frame HUPstar – open

Tool frame without star crimp, open design specifically for connectors

Art. no.	⟷	kg	PU
213078	230	0,510	1

Tool frame HUPstar – closed

Tool frame without star crimp, enclosed design

Art. no.	⟷	kg	PU
213077	230	0,530	1

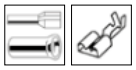
Crimping pliers HUPstar

Pressing star 213086/E:
End sleeves: 0,5 / 0,75 / 1,5 / 2,5 / 4 / 6 / 10
Insulated crimp cable lugs:
0.1-0.25 / 0.5-1 / 1.5 / 2.5 / 4 / 6
Non-insulated crimp cable lugs:
0.25 / 0.5 / 1 / 1.5 / 2.5 / 4 / 6 / 10

Art. no.	⟷	kg	PU
213086	230	0,300	1

Crimping pliers HUPstar

Pressing star 213080/E:
End sleeves:
0.25 / 0.5 / 0.75 / 1 / 1.5 / 2.5 / 4 / 6 / 10 / 16
Open non-insulated brass cable lugs:
0.25 / 0.5 / 1 / 1.5 / 2.5 / 4 / 6



Art. no.	⟷	kg	PU
213080	230	0,300	1

Crimping pliers HUPstar Coax

Pressing star 213082/E
Coax: **Hexagon pressure bonding,** BNC, TNC, SNB, SNC, SMS, SMA, MCX, 1.07 to 10.9 mm

Art. no.	⟷	kg	PU
213082	230	0,300	1

Crimping pliers HUPstar Photovoltaic

for photovoltaic connectors. Crimping pliers for industrial users, rotatable precision press die with parallel feed, exchangeable dies.
Press star 213084/E
Photovoltaics:
Amphenol Helios H4: 2,5 / 4 / 6
MC3 plug connectors (Multi Contact): 2,5 / 4 / 6
MC4 plug connectors (Multi Contact): 2,5 / 4 / 6
Tyco Solarlok: 1,5 / 2,5 / 4 / 6

Art. no.		kg	PU
213084	230	0,300	1

HUPstar Fibre Optic Connector

Fiber Optic Connector
1.69; 2.5; 3; 3.25; 3.65; 4.2; 4.52; 4.95; 5; 6.5; 10.9

Art. no.		kg	PU
213098	230	0,650	1

HUPstar Twisted contacts

Twisted contacts, square
0,1; 0,14; 0,25; 0,34; 0,5 1; 1,5; 2,5; 4; 6; 10
Locator for Ø 1,6; 2,5; 4

Art. no.		kg	PU
213102	230	0,300	1

HUPstar Automotive

Automotive contacts
Hirose DF1B-2428SC UL1007 / Litz wire
Hirose DF1B-2428PC UL1007 / Litz wire 0,08; 0,14; 0,25
Hirose DF1B-30SC UL1007 / Litz wire
Hirose DF1B-30PC UL1007 / Litz wire 0,05
Hirose DF1B-2022SC, Hirose DF1B-2022PC 0,34; 0,50

Art. no.		kg	PU
213100	230	0,300	1

HUPstar

End sleeves 0.5 – 10 mm²
Insulated cable lugs 0.25 – 6 mm²
Ring cable lugs (DIN 46234 / DIN 46341) 0.75 – 10 mm²

Art. no.		kg	PU
213086/E	Replacement star	0,175	1

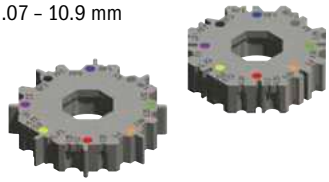
HUPstar

End sleeves 0.25 - 16 mm²
Socket sleeves 0.25 – 6 mm²

Art. no.		kg	PU
213080/E	Replacement star	0,175	1

HUPstar Coaxial

Coaxial
BNC, TNC, SNB, SNC, SMS, SMA, MCX, 1.07 – 10.9 mm



Art. no.		kg	PU
213082/E	Replacement star	0,175	1

die HUPstar photovoltaik

dies

Art. no.		kg	PU
213084/E	Replacement star	0,175	1

HUPstar Fibre Optic Connector

Fibre Optic Connector
1.69; 2.5; 3; 3.25; 3.65; 4.2; 4.52; 4.95; 5; 6.5; 10.9

Art. no.		kg	PU
213098/E	Replacement star	0,175	1

HUPstar Twisted contacts, square

Twisted contacts, square
0.1; 0.14; 0.25; 0.34; 0.5 1; 1.5; 2.5; 4; 6; 10
Locator for Ø 1.6; 2.5; 4

Art. no.		kg	PU
213102/E	Replacement star	0,175	1

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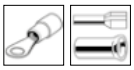
Multi-function pliers

Crimping pliers Combi-Crimp

crimping pliers for insulated terminals 0,5 - 2,5 mm² and end sleeves 0,5 - 6 mm²



Art. no.	mm²	kg	PU
210784 ✷	0,5 - 6	0,560	1

Crimpset X-Crimp including nylon bag

Crimping pliers used to quickly change HAUPA precision pressing inserts. Supplied in robust nylon bag (article 220260).

- Reliable crimping results just like with fixed pressing inserts
- Forced lock ensures standardised pressing actions
- Flat construction enables you to work precisely even when space is at a premium

Inhoud:
art. 211690
art. 210763/E
art. 210764/E
art. 210765/E
art. 210761/E

M 210

Video 211692

Art. no.	set	kg	PU
211692 ✷	6	0,860	1

Crimping pliers X-Crimp

Crimping pliers used to quickly change HAUPA precision pressing inserts, including dies article 210761/E.

- Reliable crimping results as with permanently installed crimping dies
- Forced locking ensures crimps conform to standards
- Flat design for precise work even in confined spaces

M 210

Art. no.	mm²	kg	PU
211690	0,5 - 6,0	0,566	1

Crimping dies for insulated crimp cable lugs

for insulated crimp cable lugs, oval pressing

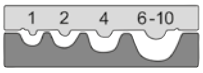
M 210

Art. no.	mm²	kg	PU
210761/E	0,5 - 6,0	0,053	1

Crimping dies for uninsulated terminals

for uninsulated terminals, mandrel shape pressing

M 210

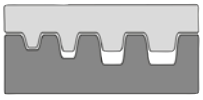


Art. no.	mm²	kg	PU
210764/E	1 - 10	0,111	1

Crimping dies for end sleeves

for end sleeves, trapezoid pressing

M 210

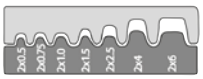


Art. no.	mm²	kg	PU
210763/E	0,5 - 4	0,072	1
210842/E	1 - 10	0,054	1
210765/E	6 - 16	0,111	1
211672/E	10 - 25	0,050	1

Crimping dies for TWIN end sleeves

for TWIN-end sleeves, trapezoid pressing

M 210

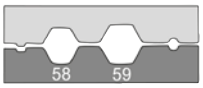


Art. no.	mm²	kg	PU
211676/E	0,5 - 6	0,050	1

Crimping dies for coaxial cable

for coaxial cable, hexagon pressing

M 210

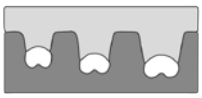


Art. no.		kg	PU
210767/E	RG 58-59-62-6	0,050	1

Crimping dies for flat connectors

for flat connectors, uninsulated open brass cable lugs, roll pressing

M 210



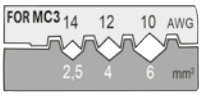
Art. no.	mm²	kg	PU
210762/E	0,5 - 6	0,111	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

Crimping dies for Photovoltaik

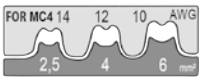
for multi-contact contacts



Art. no.	mm²	kg	PU
211657/E	2,5 - 6	0,050	1

Crimping dies Photovoltaik for MC4 plug connectors (Multi Contact)

for multi-contact contacts



Art. no.	mm²	kg	PU
211659/E	2,5 - 6	0,050	1

Crimping dies for cable lugs / end sleeves

for end sleeves 0,5 - 6 mm² / cable lugs 0,5 - 2,5 mm²

Art. no.	mm²	kg	PU
210784/E	0,5 - 6,0	0,560	1

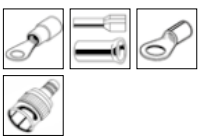
Crimpset MULTI

innovative crimping tool with rapid change system for the expert - tools for almost all crimping applications

Contents:
- crimping plier MULTI

Dies for:
- (211998) insulated terminals 0.5 - 6 mm²
- (211963) insulated and uninsulated end sleeves 0.5 - 16 mm²
- (211999) uninsulated terminals 0.5 - 10 mm²
- (210000) dies for BNC and TNC coaxial connectors RG 58-59-62-71

Product specifications
- fast change system
- easy changing of crimp dies by means of thumb screws
- easy interlock
- Nickel plated surface
- no big strength required
- with ratchet and built-in safety release, garantees proper electrical connection
- adjustable crimp pressure
- Pliers body from 3 mm, specially compensated, hardened sheet steel
- ergonomic 2 component handle with soft synthetic material insert



Video 211960

Art. no.	set	kg	PU
211960	6	1,119	1

Crimping pliers Multi

Long version, also suitable for two-handed operation, no dies

Art. no.	kg	PU
211962	0,582	1

More possibilities of dies – please, order separately

211963	End sleeves 0,5 - 16 mm²	0,073	1
211964	End sleeves 16 - 35 mm²	0,076	1
211965	Sockets 0,5 - 2,5 mm²	0,054	1
211990	Coax, Thinnet, Mini-UHF, BNC/TNC RG 58, RG 174	0,080	1
211991	Koax RG 174, 179	0,058	1
211992	SMA, SMB, Mini-59, Mini-UHF, BNC/TNC RG 6, RG 6 Quad	0,090	1
211993	Coax, CATV F Typ, BNC/TNC RG 6, RG 6 Quad	0,090	1
211994	N-Typ RG 8, RG 11	0,070	1
211995	Coax, N-Typ RG 8, RG 11, RG 213, RG 216	0,075	1
211996	Fibre Optic, SMA Typ	0,075	1
211997	Fibre Optic, SMA, SMB, SFR, ST, SC Typ	0,080	1
211968	RJ 45 - 8P8K, Steward Connectors, 22-24 AWG	0,030	1
211969	RJ11, RJ12, Steward	0,065	1
211970	Telephon 4P4K, AMP+Steward Connectors, 22-24 AWG	0,048	1
211971	RJ45 8P8K, AMP	0,030	1
211972	RJ11, RJ12 6P6C, AMP	0,030	1
211973	RJ11, DEC MMJ 6P6C, AMP	0,054	1
211980	RJ 45 - 8P8K, short, Steward Connectors, STP 22-24 AWG	0,030	1
211981	RJ 45 - 8P8K, long, Hirose, STP 22-24 AWG	0,065	1
211982	RJ 45 - 8P8K, short, Hirose, STP 22-24 AWG	0,030	1
211985	RJ 45 - 8P8K, AMP, Molex, for Ø 6,0 mm, STP 22-24 AWG	0,030	1
211998	insulated terminals 0,5 - 6,0 mm²	0,050	1
211999	uninsulated terminals 0,5 - 6,0 mm²	0,111	1
212000	Coax RG58-59-62-71	0,111	1
212007	for MC3 plug connectors (Multi Contact)	0,100	1
212008	for MC4 plug connectors (Multi Contact)	0,100	1

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Elektric crimper

HAUPA electric crimper

The Electric Crimper can be operated in one of two modes:
Mode 1: controls the entire crimp process by pressing down the pedal switch.
Mode 2: allows the user to fix the terminal on the cable by actuating the foot switch once. To finish the crimping process, he presses down the foot switch once again. Mode 2 is used for more complex terminals.
The onset of compression force can be adjusted for each new terminal to satisfy crimp integrity. That way, damage to dies and terminals can be minimised. Simply press a button to select the opening for each die. Since some female terminals are more difficult to crimp, a moveable locator can be utilised to ensure proper crimping. Various standard dies are available, as well as dies designed to customer specifications.
Technical Data Art. No. 217050: Dimensions (w x h x d): 140 x 220 x 320 mm
Weight: 10 kg / Weight of foot pedal: 1.2 kg / Max. press capacity: 10 kN
Pressing time: 1 s / Counter: -digit LCD display /
Mains connection: 30 V/50 Hz (120 V/60 Hz) / Power consumption: 160 VA

The Electric crimper is an ideal device to securely crimp wires and cable terminals such as:
- insulated cable lugs to 6 mm²/10 AWG
- Tubular cable lugs, solderl. terminals to 10 mm²/8 AWG
- Flat tab terminals to 6 mm²/10 AWG
- Wire end sleeves to 50 mm²/1 AWG

Video 217050

Art. no.	mm²	kg	PU
217050	6 - 50	10,000	1

Dies for 217050

217052	Rolled contacts 0,14 - 4 mm²	0,060	1
217056	Rolled contacts 0,1 - 1,5 mm²	0,060	1
217058	Rolled crimp contacts 0,1 - 1,5 mm²	0,060	1
217060	Rolled crimp contacts 0,5 - 6 mm²	0,060	1
217062	End sleeves 0,25 - 6 mm²	0,060	1
217064	Insolated terminals 0,5 - 6 mm² symetric	0,075	1
217066	Insolated terminals 0,5 - 6 mm² asymetric	0,065	1
217068	Tube terminals 0,34 - 2,5 mm²	0,060	1
217070	Tube terminals super flex 4 - 10 mm²	0,060	1
217072	Tube terminals standard 4 - 10 mm²	0,060	1
217074	Crimping terminals 4 - 10 mm²	0,060	1
217076	Crimping terminals 0,5 - 10 mm²	0,065	1
217078	Protection cover to 217056/60	0,030	1
217080	Protection cover to 217070/72/74/76	0,030	1
217082	Protection cover to 217068	0,030	1
217084	Protection cover to 217062	0,030	1
217086	Protection cover to 217064/66	0,030	1
217088	Locator to 217060, socket sleeves 6,3 mm	0,030	1
217090	Locator to 217056/58/60, socket sleeves 4,8 mm	0,030	1
217092	Locator to 217056, socket sleeves 2,8 x 5 mm	0,030	1
217094	Locator to 217056, socket sleeves 2,8 x 6 mm	0,030	1
217096	Locator to 217060, socket sleeves 6,3 mm	0,030	1
217098	Locator to 217060, socket sleeves 6,3 mm HN	0,030	1

Mechanical crimping pliers for tubular cable lugs

INFO

Mechanical crimping pliers for tubular cable lugs

Mechanical crimping tool characterised by its compact design. It is possible to make crimps even in confined working conditions, where conventional large tools cannot be used.

The mature construction of the drive has proven its reliability many times over in practice. In this manual crimping tool very little wear can be seen even after many years of use, this is decisive for the reliable repetition of the required crimping depth. After all, today's highly stressed crimped connections only comply with safety regulations when the required electrical and mechanical values are achieved over long periods.

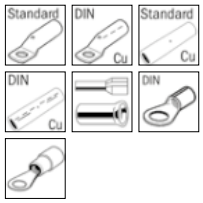
Another safety aspect is that the crimping tool can only be detached from the crimped lug when the required crimping depth has been reached. By turning the wheel on the handle in an anti-clockwise direction the crimping inset can be set in position on the lug. Only then does the actual crimping process begin with the one-hand lever.

The quality of the crimped connection is dependent on the choice of cable lug, the crimp inset and the correct choice of cable cross section.

Crimping pliers

one hand precise tool, with ratchet and built-in-force-blocking device, crimping pressure 20 kN, interchangeable dies, easy to remove from the crimped lug by opening the crimping head, special small design for working in small areas

- outstanding manageability
- compact construction
- precision drive
- fast forward feed
- can be used anywhere



Art. no.	mm²	kg	PU
215000	6 - 50	1,531	1

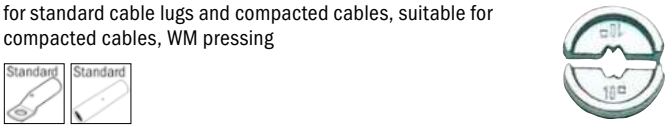
Metal box

for storing of crimping pliers and dies

Art. no.	kg	PU
215002	0,934	1

Crimping dies

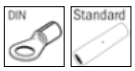
for standard cable lugs and compacted cables, suitable for compacted cables, WM pressing



Art. no.	mm²	kg	PU
215004	10	0,041	1
215006	16	0,040	1
215008	25	0,037	1
215010	35	0,036	1
215012	50	0,033	1

Crimping dies

noninsulated crimping terminals, mandrel shape pressing, DIN 46234



Art. no.	mm²		kg	PU
215014	6		0,018	1
215016	10		0,190	1
215018	16		0,190	1
215020	25		0,190	1
215022	35		0,020	1
215024	6 - 35		0,020	1

Crimping dies

noninsulated crimping terminals, mandrel shape pressing, DIN 46234

Art. no.	mm²	kg	PU
215026	10	0,039	1
215028	16	0,039	1

Crimping dies

for crimping terminals DIN, hexagon pressing

Art. no.	KZ	Cu	Al	kg	PU
215030	5	6	0	0,100	1
215032	6	10	0	0,100	1
215034	8	16	10	0,100	1
215036	10	25	16	0,150	1
215038	12	35	25	0,150	1
215040	14	50	35	0,150	1

Crimping dies

for end sleeves, trapezoid pressing

Art. no.	mm²	kg	PU
215042	6	0,150	1
215044	10	0,150	1
215046	16	0,150	1
215048	25	0,200	1
215050	35	0,200	1

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Mechanical crimping pliers for tubular cable lugs

INFO

Mechanical crimping pliers for tubular cable lugs

These mechanical manual crimping pliers are modern, high performance tools. They can be used anywhere in the wide range of solder-free connection technology thanks to a comprehensive range of crimping dies.

Crimping stroke and pressure (to approx. 5.5 t) are created by several hand lever movements. The manual force required is low due to the high efficiency of the system. The press and the connecting parts can only be separated from one another when the crimp is complete. This drive system ensures that the required crimping depth is always achieved. The hinged cover guarantees comfortable handling of the press, even in awkward-to-reach positions such as in control cabinets.

By turning the fast forward feed lever to place the crimp inset on the cable lug, the number of manual lever movements is considerably reduced and rational work is guaranteed.

Only then does the actual crimping process begin with the hand lever. When the required crimping depth has been reached the press releases pressure spontaneously and the hinged cover can be opened to remove the connector. The crimping process can be interrupted if an error has been made in the choice of the inset, cable lug or cable. To do this swing the hand lever completely out, depress the ratchet and turn the forward feed lever backwards.

Crimpiang pliers

precise tool with ratchet and built-in-force-locking device, crimping pressure 50 kN, interchangeable dies, easy to remove from the crimped lug by opening the crimping head

- can be used anywhere
- minimum strength required
- broad application spectrum
- precision drive
- rational use

Art. no.	mm²	kg	PU
215100	6 - 120	2,100	1

Metal box

for storing of crimping pliers and dies

Art. no.	kg	PU
215102	1,700	1

Crimping dies

for standard cable lugs and compacted cables, WM pressing

Art. no.	mm²	kg	PU
215104	10 - 70	0,130	1
215106	16 - 35	0,132	1
215108	25 - 50	0,126	1
215110	95	0,138	1
215112	120	0,136	1

Crimping dies

for uninsulated crimping terminals, for up to four diameter, mandrel shape pressing, DIN 46234 + DIN 46341

Art. no.	mm²	kg	PU
215114	6 - 70	0,080	1
215116	10 - 35	0,060	1
215118	16 - 50	0,055	1
215120	6 - 50	0,150	1
215122	70	0,150	1

Crimping dies

for insulated crimping terminals, oval pressing

Art. no.	mm²	kg	PU
215124	10	0,147	1
215126	16	0,152	1
215128	25	0,153	1
215130	35	0,154	1

Crimping dies

for crimping terminals DIN, hexagonal pressing

Art. no.	KZ	Cu	Al	kg	PU
215142	6 - 16	10 - 70	10 - 50	0,128	1
215144	8 - 12	16 - 35	16 - 25	0,130	1
215146	10 - 14	25 - 50	25 - 35	0,130	1
215148	18	95	70	0,130	1
215150	20	120		0,130	1

Crimping dies

for rounding of square copper and aluminium

Art. no.	mm²	kg	PU
215152	25 - 35	0,155	1
215154	35 - 70	0,150	1
215156	95	0,150	1

Crimping dies

for end sleeves, trapezoid pressing

Art. no.	mm²	kg	PU
215164	25	0,059	1
215166	35	0,059	1
215168	50	0,059	1
215170	70	0,059	1
215172	95	0,059	1

INFO

Mechanical crimping pliers for tubular cable lugs

In this hand press the crimping stroke is produced by a number of hand lever movements. The transport ratchet starts the eccentric wheel moving and con-rods convert the eccentric turning motion into a straight-line stroke of the guide that runs in grooves.

The bottom crimping inset is placed in the guide. It sits on an adjustment plate that is screwed on to the guide. This plate compensates for all the tolerances resulting from the manufacturing process or wear and tear.

By turning the wheel on the handle in an anti-clockwise direction the crimping inset can be transported directly to the installation on the connecting part. Only then does the actual crimping process begin with the hand lever. When the required crimping depth has been reached the press releases the pressure spontaneously and the hinged cover can be opened to remove the connector.

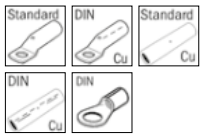
The crimping process can be interrupted if an error has been made in the classification of the inset, cable lug or cable. To do this swing the hand lever completely out, depress the ratchet and turn the forward feed lever backwards.

The quality of the crimped connection is dependent on the choice of cable lug, the crimp inset and the correct choice of cable cross section.

Crimping pliers

precise tool with ratchet and built-in-force-locking device, interchangeable dies, easy to remove from the crimped lug by opening the crimping head

- can be used anywhere
- minimum strength required
- broad application spectrum
- precision drive
- rational use



Art. no.	mm²	kg	PU
215200	10 - 240	4,500	1

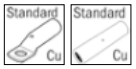
Metal box

for storing of crimping pliers and dies

Art. no.	kg	PU
215202	3,700	1

Crimping dies

for standard cable lugs and compacted cables, WM pressing



Art. no.	mm²	kg	PU
215204	10 - 25	0,221	1
215206	16 - 35	0,320	1
215208	50	0,349	1
215210	70	0,331	1
215212	95	0,330	1
215201	120	2,486	1
215203	150	0,308	1
215205	185	0,317	1
215207	240	0,300	1

Crimping dies

for uninsulated crimping terminals, mandrel shape pressing, DIN 46234 + DIN 46341

Art. no.	mm²	kg	PU
215214	10 - 70	0,178	1
215216	95 - 150	0,169	1
215218	10 - 70	0,163	1
215220	16 - 35	0,170	1
215222	25 - 50	0,163	1
215224	95	0,161	1
215226	120	0,152	1
215228	150	0,144	1

Crimping dies

for crimping terminals DIN, hexagon pressing

Art. no.	KZ	Cu	Al	kg	PU
215230	6	10	-	0,350	1
215232	8	16	-	0,330	1
215234	10	25	16	0,328	1
215236	12	35	25	0,330	1
215238	14	50	35	0,326	1
215240	16	70	50	0,326	1
215242	18	95	70	0,321	1
215244	20	120	-	0,300	1
215246	22	150	95 - 120	0,305	1
215248	25	185	150	0,305	1
215250	28	240	185	0,290	1

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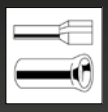
Pictograms cable connectors


End sleeves

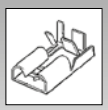
TWIN end sleeves

Insulated crimp-style cable lugs

Insulated shrink connectors

non-insulated cable lugs

Socket sleeves (female)


Socket sleeves (female) with cable stop

Coaxial connectors

for twisted contacts and connectors

for rolled contacts and connectors

for D-Sub connectors

for M3 connectors (multi contact) for Photovoltaics

for M4 connectors (multi contact) for Photovoltaics

Amphenol for Photovoltaics

Tyco-Solar for Photovoltaics

Connectors for modular connectors

Stewart connectors for modular connectors

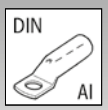
Hirose connectors for modular connectors

non-insulated cable lugs DIN 46234

non-insulated connectors DIN 46341

standard tubular terminals

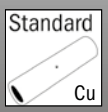
DIN tubular terminals CU



DIN tubular terminals AL

standard tubular terminals, light

Nylon-insulated tubular cable terminals



standard connectors CU

DIN connectors CU

DIN connectors AL

standard connectors, light

F-type cable classes 5 & 6

Deep indent connectors

Four thorn pressing without inserts

Pictograms press-profiles

Technical notes for the various pressing formats for the pressing of cables using HAUPA cable lugs and connectors.

The following pressing formats are available:

Hexagonal pressing
for pressing standard CU tubular terminals and connectors, tubular terminals for switching device connections, pressing cable lugs and connectors DIN 46235/DIN 46267, Al pressing cable lugs and connectors and end sleeves

Mandrel & Double mandrel shape pressing
for pressing of standard CU tubular terminals and connectors, tubular terminals for switching device connections, crimp-style cable lugs DIN 46234 and pin cable lugs DIN 46230, insulated crimp-style cable lugs, conduit terminals for fine-wired conductors, nickel tubular terminals and connectors

Oval pressing
for pressing of dual pressing cable lugs, C clamps, insulated tubular terminals and connectors, insulated pin cable lugs, press connectors DIN 48217, insulated cable connections

Trapezoidal pressing
for pressing of end sleeves ends and twin end sleeves

Square pressing
for pressing of end sleeves ends and twin end sleeves

Hexagonal pressing
for pressing of end sleeves

Square pressing
Multi-contact
Application area:
Photovoltaics, twisted contacts

Roll pressing
for pressing of brass cable lugs, D-Sub, for MC4 (multi contact)

WM pressing
for standard cable lugs and compacted cables

Round pressing
of sector-shaped conductors 90° and 120°

Four thorn pressing
for pressing standard tubular terminals and connectors - also on sealed conductors -
F-type tubular terminals and connectors
Light cable lugs and connectors
Tubular terminals = Switching device connections

Hydraulic crimping tools

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... convincing solutions

Battery powered crimping tools with sensor technology

- Compression force in kN: 60 - 120
- Working pressure in bar: 700
- Pressing time, battery-operated in seconds: 4 - 10
- Battery type: Li-Ion, 18 V, 2 - 4 Ah

Working area illumination

Light is green: Pressing completed in accordance with standard, motor stopped

Light is orange: Battery voltage not sufficient

Light is red: Pressing interrupted before completed

Smart battery powered universal crimping tool

Smart Battery powered crimping tool universal US-6M

Sensor

PREMIUM

Hydraulics for interchangeable pressing tools, crimping head can be rotated by 180°, with fast opening, manual return flow after perfect pressure.

- For 6 different interchangeable heads (item no. 216761, item no. 216762, item no. 216763, item no. 216764, item no. 216665-U, item no. 216666-U)
- Heads can be changed easily
- Can be locked using 2 extractable pins
- With the new HAUPA battery item no. 215523 and charger item no. 215527
- Pressing load kN: 60
- Working pressure in bar: 700

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred:

Light is green: Pressing completed as standard, motor stopped.
Light is orange: Battery voltage not sufficient
Light is red: Pressing interrupted before completed

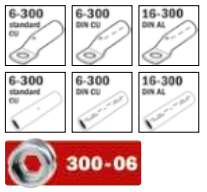
The device also has 1 white LED designed to illuminate the working area.

Art. no.	⟷	kg	PU
216760-1	315	6,180	1
216760-1-NO	315	2,990	1
216760-1-N	315	2,400	1

Crimping headstock U-KO-6

Pressing head for interchangeable pressing applications, with quick opening, without inserts.

- Head can be opened
- Opening / Hub: 17 mm
- Pressing width: slim
- Cable lugs: standard Cu 6-300 / DIN Cu 6-300 / DIN Al 16-300
- Connectors: standard Cu 6-300 / DIN Cu 6-300 / DIN Al 16-300

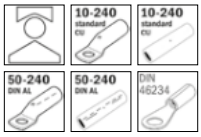


Art. no.	⟷	mm²	kg	PU
216761	140	6 - 300	1,700	1

Crimping headstock U-KDE240-6

Pressing head with quick opening, indent v-shape pressing, no inserts required.

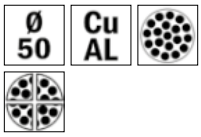
- Head can be opened
- Cable lugs/Connectors standard Cu: 10-240 mm²
- Cable lugs/Connectors DIN Al: 50-240 mm²
- DIN 46234: 10-240 mm²



Art. no.	⟷	mm²	kg	PU
216763	130	10 - 240	1,200	1

Cutting headstock U-KS6-S50

for copper and aluminium cable



Art. no.	⟷	Ø	kg	PU
216762	233	50	2,800	1

Cutting head U-KS6-S32ACSR

- Diameter 32 mm
- For ACSR cable Ø 32 mm
- Not suitable for Cu/Al cable

NEW

Art. no.	⟷	Ø	kg	PU
216762/32ACSR	233	32	2,900	1

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Smart battery powered universal crimping tool

Punching headstock U-S-6

without inserts, tie rods art. 217660 - 3/8-24 UNF, art. 217661 - 3/4 & 7/16 UNF, art. 217662 - 3/4-16 UNF, adapters 217664 and <a>spacer bushing art. 217666 included

Advantages:
- Head can be rotated by 360°
- Flexible aluminium head

Punching capacity:
- for galvannealed steel plate up to max. 3.2 mm thickness
- for stainless steel plate up to max. 1.6 mm thickness
- punch dies size from Ø 12 mm to max. 50 mm

Art. no.	⟷	kg	PU
216764	180	2,700	1

Crimping headstock U-D300-6

for exchange head system US-6M (216760-1), insert does not need to be changed, **mandrel pressing**.
- Pressing force in kN: 60 kN
- Cable lugs: standard Cu 16 – 300 mm²
- Connectors: standard Cu 16 – 120 mm²

Art. no.	⟷	mm²	kg	PU
216665-U	180	16 - 300	3,000	1

Crimping headstock U-D400-6

for exchange head system US-6M (216760-1), insert does not need to be changed, **mandrel pressing**.
- Cable lugs: standard Cu 25 – 400
- Connectors: standard Cu 25 – 400

Art. no.	⟷	mm²	kg	PU
216666-U	180	25 - 400	3,000	1

Adapter for pumps

For hydraulic pump item 216357 so the interchangeable heads for the Smart Universal can be used (items 216761, 216762, 216763, 216764, 216665-U, 216666-U)
- with quick-lock hydraulic connection (Cejn Series 115)

Art. no.	⟷	kg	PU
216765	155	1,700	1

Hydraulic hand pliers Universal HUS-6

Hand pliers for interchangeable pressing tools
- Pressing load kN: 60
- Working pressure in bar: 700

Art. no.	⟷	kg	PU
216768	315	2,200	1

Universal set 1

Made up of item 216760-1, item 216763 and item 216762.
Technical data and scope of delivery see item 216760-1, item 216763 and item 216762.

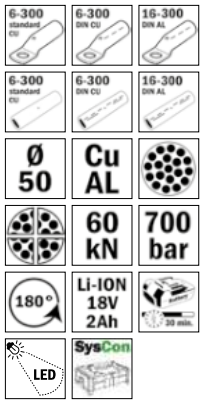
Art. no.	set	kg	PU
216766	6	10,180	1

* Bestseller Premium product

Smart battery powered universal crimping tool

Universal set 2

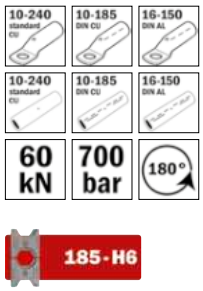
Made up of item 216760-1, item 216761 and item 216762.
Technical data and scope of delivery see item 216760-1, item 216761 and item 216762.



Art. no.	set	kg	PU
216767	6	15,000	1

Hydraulic hand pliers HHs-6

Crimping head can be rotated by 180°, manual return after completed pressing, light and compact construction in black plastic case, without dies.
Technical data:
- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Pressing width: slim
- Cable lugs: standard Cu 10-240
- DIN Cu 10-185
- DIN Al 16-150
- Connectors: standard Cu 10-240
- DIN Cu 10-185
- DIN Al 16-150



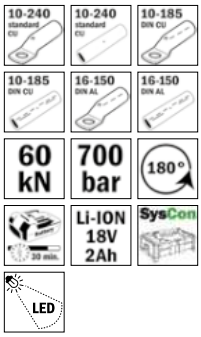
Video 215765

Art. no.	⟷	mm²	kg	PU
215765	370	10 - 240	4,600	1

Hydraulic crimping tools

Battery powered crimping tool SHs-6

for interchangeable interchangeable dies, Crimping head can be rotated by 180°, manual return flow after perfect pressure.
- Pressing force in kN: 60 kN
- Working pressure in bar: 700
- Head can be opened
- Pressing width: slim
- Cable lugs: standard Cu 10-240
- DIN Cu 10-185
- DIN Al 16-150
- Connectors: standard Cu 10-240
- DIN Cu 10-185
- DIN Al 16-150
- Pressing time, battery-operated in seconds: 5
- Battery charging time in minutes: 30
- Battery type: Li-Ion, 18 V, 2 Ah



Art. no.	⟷	mm²	kg	PU
215770-1	398	10 - 240	7,900	1
215770-1-NO	398	10 - 240	3,100	1
215770-1-N	398	10 - 240	3,000	1

Scope of delivery for battery-operated tools:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon incl. Insert.

For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

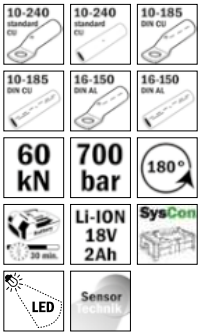
Battery powered crimping tool SHs-6M

Sensor

Technical data and scope of delivery, see 215770-1.

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred:
Light is green: Pressing completed as standard, motor stopped.
Light is orange: Battery voltage not sufficient
Light is red: Pressing interrupted before completed

The device also has 1 white LED designed to illuminate the working area.



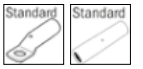
185-H6

Video 215770/M

Art. no.	↔	mm²	kg	PU
215770/M-1	398	10 - 240	7,900	1
215770/M-1-NO	398	10 - 240	3,100	1
215770/M-1-N	398	10 - 240	3,000	1

Crimping dies Standard

Standard copper tube terminals and connectors, hexagonal pressing

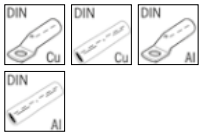


185-H6

Art. no.	mm²	PB	kg	PU
215641	10 - 16	5	0,157	1
215642	25 - 35	5	0,155	1
215643	50 - 70	5	0,150	1
215644	95 - 120	5	0,145	1
215645	150	5	0,159	1
215646	185	5	0,156	1
215648	240	5	0,156	1

Crimping dies DIN

DIN Cu/Al tube terminals and connectors, hexagonal pressing



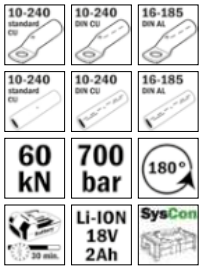
185-H6

Art. no.	mm²	PB	KZ	kg	PU
215650	10 - 16	5	6 - 8	0,155	1
215651	25 - 35	5	10 - 12	0,151	1
215652	50 - 70	5	14 - 16	0,149	1
215653	95 - 120	5	18 - 20	0,129	1
215654	150	5	22	0,145	1
215655	185	5	25	0,147	1

Battery powered crimping tool SH-6

Hydraulic for interchangeable dies, crimping head can be rotated by 180°, with fast opening, manual return flow after perfect pressure.

- Pressing force in kN: 60 kN
- Working pressure in bar: 700
- Head can be opened yes
- Opening/ Hub: 17 mm
- Pressing width: slim
- Crimping range cable lugs: standard Cu 10-240
- DIN Cu 10-240
- DIN Al 16-185
- Crimping range connectors: standard Cu 10-240
- DIN Cu 10-240
- DIN Al 16-185
- Pressing time, battery-operated in seconds: ca. 5
- Battery charging time in minutes: 30
- Battery type: Li-Ion, 18 V, 2 Ah



240-H6

Art. no.	↔	mm²	kg	PU
215881-1	415	10 - 240	6,700	1
215881-1-NO	415	10 - 240	2,900	1
215881-1-N	415	10 - 240	2,600	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Battery powered crimping tool SH-6M

Sensor

Technical data and scope of delivery, see 215881-1.

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred:
Light is green: Pressing completed as standard, motor stopped.
Light is orange: Battery voltage not sufficient
Light is red: Pressing interrupted before completed

The device also has 1 white LED designed to illuminate the working area.

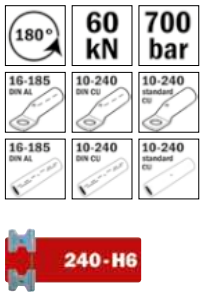
Video 215881/M

Art. no.	⟷	mm²	kg	PU
215881/M-1	415	10 - 240	6,700	1
215881/M-1-NO	415	10 - 240	2,900	1
215881/M-1-N	415	10 - 240	2,600	1

Hydraulic hand pliers HH-6

Crimping head can be rotated by 180°, manual return after completed pressing, light and compact construction, in SysCon stacking box, without dies.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Opening / Hub: 17 mm
- Head can be opened
- Pressing width: slim
- Cable lugs: standard Cu 10-240
- DIN Cu 10-240
- DIN Al 16-185
- Connectors: standard Cu 10-240
- DIN Cu 10-240
- DIN Al 16-185
- Dual-piston pump
- Weight in kg: 3,0
- Weight of set in kg: 4,5



Art. no.	mm²	⟷	kg	PU
215800	10 - 240	400	4,500	1

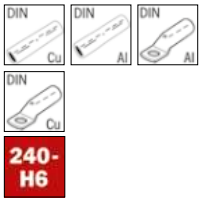
Crimping dies

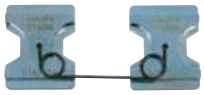
standard copper tube terminals and connectors, hexagonal pressing

Art. no.	mm²	kg	PU
215852	10 - 16	0,157	1
215854	25 - 35	0,155	1
215856	50 - 70	0,150	1
215858	95 - 120	0,145	1
215859	150	0,159	1
215860	185	0,156	1
215861	240	0,156	1

Crimping dies DIN Cu + Al

DIN Cu/Al tube terminals and connectors, **hexagonal pressing**





Art. no.	mm²	KZ	Cu	Al	kg	PU
215862	10 - 16	6 - 8	10 - 16	-	0,155	1
215864	25 - 35	10 - 12	25 - 35	16 - 25	0,151	1
215866	50 - 70	14 - 16	50 - 70	35 - 50	0,149	1
215868	95 - 120	18 - 20	95 - 120	70	0,129	1
215869	150	22	150	95 - 120	0,145	1
215870	185	25	185	150	0,147	1
215872	240	28	240	185	0,114	1

Scope of delivery for battery-operated tools:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon incl. Insert.

For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

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Battery powered crimping tool S0-6

- Pressing force in kN: 60 kN
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 17 mm
- Pressing width: slim
- Pressing time, battery-operated in seconds: ca. 5
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 2 Ah
- Cable lugs: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-240
- Connectors: Cu 6-300
- DIN Cu 6-300
- DIN Al 16-240

Art. no.	⟷	mm²	kg	PU
216801-1	383	6 - 300	6,600	1
216801-1-NO	383	6 - 300	6,100	1
216801-1-N	383	6 - 300	5,400	1

Battery powered crimping tool S0-6M

Sensor

Technical data and scope of delivery, see 216801-1.

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred:
Light is green: Pressing completed as standard, motor stopped.
Light is orange: Battery voltage not sufficient
Light is red: Pressing interrupted before completed

The device also has 1 white LED designed to illuminate the working area.

Art. no.	⟷	mm²	kg	PU
216801/M-1	383	6 - 300	6,600	1
216801/M-1-NO	383	6 - 300	6,100	1
216801/M-1-N	383	6 - 300	5,400	1

Scope of delivery for battery-operated tools:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon incl. Insert.

For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Battery powered crimping tool AO-6

Sensor

2 step hydraulic for replaceable pressing dies, crimping head can be rotated by 180°, can be opened, with quick opening, manual return after completed pressing, LED to check battery status.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Opening/ Hub: 17 mm
- Head can be opened
- Pressing width: slim
- Crimping range cable lugs: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-240
- Crimping range connectors: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-240
- Pressing time, battery-operated in seconds: 4
- Battery charging time in minutes: 120
- Battery type: Li-Ion 18 V, 4 Ah
- Dual-piston pump

VIDEO 216800-1

Art. no.	⟷	mm²	kg	PU
216800-1	375	6 - 300	9,500	1
216800-1-NO	375	6 - 300	9,500	1
216800-1-N	375	6 - 300	9,500	1

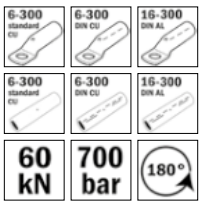
Scope of delivery for all battery-operated tools:
1 tool, 1 quick charger and 1 rechargeable battery in system case incl. Insert.

For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

Hydraulic hand pliers HO-6

Crimping head can be rotated by 180°, manual return after completed pressing, light and compact construction in black plastic case, without dies.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Opening / Hub: 17 mm
- Pressing width: slim
- Cable lugs: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-240
- Connectors: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-240
- Dual-piston pump
- Weight in kg: 3,5
- Weight of set in kg: 5,0

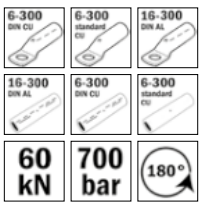


Art. no.	⟷	mm²	kg	PU
216802	500	6 - 300	5,000	1

Hand pliers MO-6 for exchangeable dies

Extent of supply: 1 crimping tool, in metal suitcase.

- Pressure: 60 kN
- Crimping range cable lugs: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300
- Crimping range connectors: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300



Art. no.	⟷	mm²	kg	PU
216804	765	6 - 300	11,800	1

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Crimping headstock KO-6

in plastic case, without dies.
- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 17 mm
- Pressing width: slim
- Cable lugs: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300
- Connectors: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300
- Quick coupling
- Weight in kg: 3,2
- Weight of set in kg: 4,2

Art. no.	⟷	mm²	kg	PU
216807	235	6 - 300	4,200	1

Dies for terminals and connectors DIN

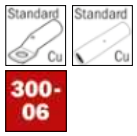
Art. no.	mm²	Cu	KZ	PB	kg	PU
216832	6	6	5	5	0,123	1
216834	10	10	6	5	0,122	1
216836	16	16	8	5	0,125	1
216838	25	25	10	5	0,120	1
216840	35	35	12	5	0,120	1
216842	35 - 50	50	14	5	0,119	1
216844	70	70	16	5	0,120	1
216846	95	95	18	5	0,120	1
216848	120	120	20	5	0,120	1
216850	150	150	22	5	0,120	1
216852	185	185	25	5	0,120	1
216854	240	240	28	5	0,115	1
216856	300	300	32	5	0,120	1

Crimping dies set DIN Cu

12 DIN-Crimping dies in practical transport case
Set contains:
216834 DIN 10, 216836 DIN 16, 216838 DIN 25, 216840 DIN 35, 216842 DIN 50, 216844 DIN 70, 216846 DIN 95, 216848 DIN 120, 216850 DIN 150, 216852 DIN 185, 216854 DIN240, 216856 DIN 300

Art. no.	mm²	set	kg	PU
216831-SET	10 - 300	13	1,724	1

Dies for terminals and connectors standard



Art. no.	mm²	PB	kg	PU
216806	6	5	0,139	1
216808	10	5	0,136	1
216810	16	5	0,136	1
216812	25	5	0,135	1
216814	35	5	0,135	1
216816	50	5	0,134	1
216818	70	5	0,132	1
216820	95	5	0,132	1
216822	120	5	0,130	1
216824	150	5	0,128	1
216826	185	5	0,125	1
216828	240	5	0,121	1
216830	300	5	0,118	1

Crimping dies set Standard Cu

13 standard crimping dies in practical transport case
Set contains:
216806 CU 6, 216808 CU 10, 216810 CU 16, 216812 CU 25, 216814 CU 35, 216816 CU 50, 216818 CU 70, 216820 CU 95, 216822 CU 120, 216824 CU 150, 216826 CU 185, 216828 CU 240, 216830 CU 300

Art. no.	mm²	set	kg	PU
216805-SET	6 - 300	14	1,880	1

Dies for terminals and compacted connectors

for standard tube terminals and compacted connectors, also on compacted thinned connectors

Art. no.	mm²	PB	kg	PU
216806/V	6	5	0,139	1
216808/V	10	5	0,136	1
216810/V	16	5	0,136	1
216812/V	25	5	0,135	1
216814/V	35	5	0,135	1
216816/V	50	5	0,134	1
216818/V	70	5	0,132	1
216820/V	95	5	0,132	1
216822/V	120	5	0,130	1
216824/V	150	5	0,128	1
216826/V	185	5	0,125	1
216828/V	240	5	0,121	1
216830/V	300	5	0,118	1

Press insert set for compacted conductors

13 crimping dies for standard tubular cable lugs and connectors from 6 to 300 mm², also on compacted conductors | Cu, in a practical transport case
Set contains:
216806/V, 216808/V, 216810/V, 216812/V, 216814/V, 216816/V, 216818/V, 216820/V, 216822/V, 216824/V, 216826/V, 216828/V, 216830/V

Art. no.	mm²	set	kg	PU
216806/V-SET	6 - 300	14	1,880	13

Dies for tubular terminals F-Type

Art. no.	mm²	PB	kg	PU
216878	10	8	0,146	1
216880	16	9	0,153	1
216882	25	11	0,162	1
216884	35	13	0,171	1
216886	50	13	0,167	1
216888	70	13	0,160	1
216890	95	13	0,164	1
216892	120	20	0,174	1
216894	150	20	0,162	1
216896	185	8	0,124	1
216898	240	8	0,119	1
216899	300	8	0,089	1

Dies for end sleeves

for end sleeves on compacted thinned connectors (wave form)

Art. no.	mm²	PB	kg	PU
216952	10	21	0,120	1
216954	16	21	0,120	1
216956	25	21	0,120	1
216958	35	21	0,120	1
216960	50	21	0,120	1
216962	70	21	0,120	1
216964	95	21	0,120	1
216966	120	21	0,120	1
216968	150	21	0,120	1
216970	185	21	0,120	1
216972	240	21	0,120	1

Dies for rounding of round conductors

Art. no.	mm²	sm	se	kg	PU
216926	10	10	-	0,120	1
216928	16	16	-	0,120	1
216930	25 - 35	25	35	0,120	1
216932	35 - 50	35	50	0,120	1
216934	50 - 70	50	70	0,120	1
216936	70 - 95	70	95	0,120	1
216938	95 - 120	95	120	0,120	1
216940	120 - 150	120	150	0,240	1
216942	150 - 185	150	185	0,197	1
216944	185 - 240	185	240	0,120	1
216946	240 - 300	240	300	0,120	1

Crimping dies

Oval crimp for stripped pipe cable lugs

Cu

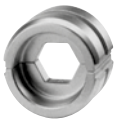
300-06

Art. no.	mm²	PB	kg	PU
216670	10	5	0,132	1
216672	16	5	0,132	1
216674	25	5	0,132	1
216676	35	5	0,132	1
216678	50	5	0,132	1
216680	70	5	0,132	1
216682	95	5	0,132	1
216684	120	5	0,132	1
216686	150	5	0,132	1

Dies for standard aluminium pipe cable lugs

Standart Al | Standard Al

300-06



Art. no.	mm²	PB	kg	PU
216812/AL	25	7	0,135	1
216814/AL	35	7	0,135	1
216816/AL	50	7	0,135	1
216818/AL	70	7	0,135	1
216820/AL	95	7	0,135	1
216822/AL	120	7	0,135	1
216824/AL	150	7	0,135	1
216826/AL	185	7	0,135	1
216828/AL	240	7	0,135	1

Crimping dies set Standard Aluminium

9 standard crimping dies in practical transport case
Set contains:
216812/Al AL 25, 216814/Al AL 35, 216816/Al AL 50, 216818/Al AL 70, 216820/Al AL 95, 216822/Al AL 120, 216824/Al AL 150, 216826/Al AL 185, 216828/Al AL 240

Standart Al | Standard Al

300-06

Art. no.	mm²	set	kg	PU
216812/AL-SET	25 - 240		1,470	1

Dies for connectors with notch

Standart Al | Standard Al

300-06

Art. no.	mm²	kg	PU
216813	25	0,143	1
216815	35	0,143	1
216817	50	0,143	1
216819	70	0,143	1
216821	95	0,143	1
216823	120	0,135	1

Dies for DIN aluminium pipe cable lugs

DIN Al | DIN Al

300-06

Art. no.	mm²	KZ	PB	kg	PU
216840/AL	16 - 25	12	7	0,120	1
216842/AL	35	14	7	0,120	1
216844/AL	50	16	7	0,120	1
216846/AL	70	18	7	0,120	1
216850/AL	95 - 120	22	7	0,120	1
216852/AL	150	25	7	0,120	1
216854/AL	185	28	7	0,120	1
216856/AL	240	32	5	0,120	1
216858/AL	300	34	5	0,135	1

Crimping dies set DIN Aluminium

9 DIN-Crimping dies in practical transport case
Set contains:
216840/AL DIN 16-25, 216842/AL DIN 35, 216844/AL DIN 50, 216846/AL DIN 70, 216850/AL DIN 95-120, 216852/AL DIN 150, 216854/AL DIN 185, 216856/AL DIN 240, 216858/AL DIN 300

DIN Al | DIN Al

300-06

Art. no.	mm²	set	kg	PU
216840/AL-SET	16 - 300		1,430	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Dies for indent crimping for compacted cables

300-06

Art. no.	mm²	kg	PU
216863	16	0,135	1
216865	25	0,135	1
216867	35	0,135	1
216869	50	0,135	1
216871	70	0,135	1
216873	95	0,135	1
216875	120	0,135	1
216877	150	0,135	1

Dies for C-connectors

Cu

300-06

Art. no.	mm²	PB	kg	PU
216984	16	5	0,135	1
216984/25	25	5	0,140	1
216985	35	5	0,135	1
216986	50	5	0,134	1
216986/70	70	5	0,140	1
216987	4	5	0,132	1
216988	120	5	0,132	1
216989	10	5	0,140	1

Scope of delivery for all battery-operated tools:
1 tool, 1 quick charger and 1 rechargeable battery in system case incl. Insert.

For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

Battery-hydraulic crimping Tool US-12M

Sensor

- for 3 different interchangeable heads (Art. No. 216626, Art. No. 216627, Art. No. 216628)
- easy change of heads
- lockable by 2 extractable bolts
- Head 180° rotatable
- Selector switch for
  - automatic return
  - 50% automatic return
  - manual return
- Sensor mode switchable for pressing and cutting
- 2 white LEDs for workspace illumination
- Crimping force in kN: 120
- Working pressure in bar: 700
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 4 Ah

The different colors of the sensor LED indicate if the operation has been completed successfully or if an error occurred.
LED green: crimping completed in accordance with standards, motor stopped
LED orange: battery voltage insufficient
LED red: crimping not correctly completed

120 kN | 700 bar | 180° | 60 min. | Li-ION 18V 4Ah | 2x LED | Sensor technik

Art. no.	⟷	mm²	kg	PU
216625-1	420	500	6,544	1
216625-1-NO	420	500	5,800	1
216625-1-N	420	500	5,316	1

Crimping head U-KDE500-12

in plastic case, no inserts necessary, **mandrel pressing**
- Crimping force in kN: 120
- Working pressure in bar: 700
- Hinged head
- Cable lugs: standard Cu 35-500
- Connectors: standard Cu 35-500

35-500 standard | 35-500 standard | DIN 46234 | 120 kN | 700 bar

Art. no.	mm²	kg	PU
216626	35 - 500	1,284	1

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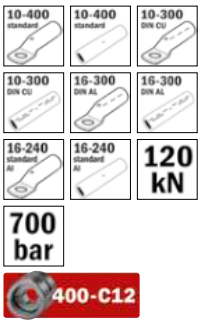
Crimping head U-K0400-12

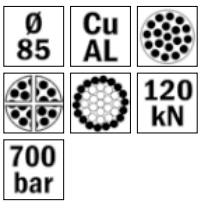
in plastic case, without inserts
- Crimping force in kN: 120
- Working pressure in bar: 700
- Opening / Stroke: 53 mm
- Hinged head
- Pressing width: wide
- Cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Connectors: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Use of all dies in the 400-C12 series possible



Art. no.	mm²	kg	PU
216627	10 - 400	1,323	1

Cutting head U-KS12-S85

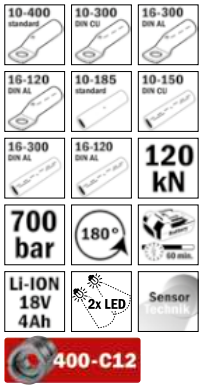
for copper and aluminum cables
- Crimping force in kN: 120
- Working pressure in bar: 700
- Cutting width Ø: 85 mm



Art. no.	Ø	kg	PU
216628	85	5,483	1

Battery powered crimping tool AC25-12 Sensor

2 step hydraulic for replaceable pressing dies, crimping head can be rotated by 180°, can be opened, with quick opening, manual return after completed pressing, LED to check battery status.
- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening / Hub: 25 mm
- Pressing width: wide
- Crimping range cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Crimping range connectors: standard Cu 10-185
- DIN Cu 10-150
- DIN Al 16-120
- Pressing time, battery-operated in sec.: 6 - 12
- Battery charging time in min.: 120
- Battery type: Li-Ion, 18 V, 4 Ah
- Dual-piston pump



VIDEO 216601-1

Art. no.	⟷	mm²	kg	PU
216601-1	375	10 - 400	10,550	1
216601-1-NO	375	10 - 400	7,100	1
216601-1-N	375	10 - 400	7,100	1

Scope of delivery for all battery-operated tools:
1 tool, 1 quick charger and 1 rechargeable battery in system case incl. Insert.

For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

Hydraulic hand pliers HC25-12

Crimping head can be rotated by 180°, manual return after completed pressing, light and compact construction in black plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening/ Hub: 25 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Connectors: standard Cu 10-185
- DIN Cu 10-150
- DIN Al 16-120
- Dual-piston pump
- Weight in kg: 6,2
- Weight of set in kg: 7,7

Art. no.	⟷	mm²	kg	PU
216124	585	10 - 400	7,700	1

Hydraulic crimping headstock KC25-12

in plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Connectors: standard Cu 10-185
- DIN Cu 10-150
- DIN Al 16-120
- Opening/ Hub: 25 mm
- Pressing width: wide
- Quick coupling
- Weight in kg: 3,6
- Weight of set in kg: 4,6

Art. no.	⟷	mm²	kg	PU
216004	245	10 - 400	4,600	1

Battery powered crimping tool AC42-12 Sensor

2 step hydraulic for replaceable pressing dies, crimping head can be rotated by 180°, can be opened, with quick opening, manual return after completed pressing, LED to check battery status.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening/ Hub: 42 mm
- Pressing width: wide
- Crimping range cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Crimping range connectors: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Pressing time, battery-operated in sec.: 7-13
- Battery charging time in min.: 120
- Battery type: Li-Ion, 18 V, 4 Ah
- Dual-piston pump

VIDEO 216622-1

Art. no.	⟷	mm²	kg	PU
216622-1	430	10 - 400	11,830	1
216622-1-NO	430	10 - 400	7,800	1
216622-1-N	430	10 - 400	7,100	1

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Hydraulic hand pliers HC42-12

Crimping head can be rotated by 180°, manual return after completed pressing, light and compact construction in black plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening/ Hub: 42 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Connectors: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Dual-piston pump
- Weight in kg: 8,2
- Weight of set in kg: 9,7

Art. no.	mm²	⟷	kg	PU
216125	10 - 400	640	9,700	1

Hydraulic crimping headstock KC42-12

in plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening/ Hub: 42 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Connectors: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Quick coupling
- Weight in kg: 5,3
- Weight of set in kg: 6,3

Art. no.	mm²	⟷	kg	PU
216005	10 - 400	320	6,300	1

Crimping headstock KH-12

in plastic case, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 20 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Connectors: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Quick coupling
- Weight in kg: 4
- Weight of set in kg: 5

Art. no.	mm²	⟷	kg	PU
215980	10 - 400	275	5,000	1

Battery powered crimping tool AH-12

Sensor

2 step hydraulic for replaceable pressing dies, crimping head can be rotated by 180°, can be opened, with quick opening, manual return after completed pressing, LED to check battery status. Pressing tool for deep indent pressing.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening/ Hub: 20 mm
- Pressing width: wide
- Crimping range cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Crimping range connectors: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Pressing time, battery-operated in sec.: 6 - 13
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 4 Ah
- Dual-piston pump

VIDEO 216503-1

Art. no.	⟷	mm²	kg	PU
216503-1	405	10 - 400	11,000	1
216503-1-NO	405	10 - 400	6,900	1
216503-1-N	405	10 - 400	6,400	1

Hydraulic hand pliers HH-12

Crimping head can be rotated by 180°, manual return flow after perfect pressure, in black metal suitcase, without dies.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 20 mm
- Pressing width: wide
- Cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Connectors: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-240
- Dual-piston pump
- Weight in kg: 4,0
- Weight set in kg: 5,0

Art. no.	mm²	⟷	kg	PU
215946	10 - 400	615	7,500	1

Crimping dies DIN for Copper and Aluminium, hexagonal pressing

Standard copper tube terminals and connectors, hexagonal pressing

Art. no.	mm²	Cu	PB	KZ	kg	PU
216036	10	10	10	6	0,248	1
216038	16	16	10	8	0,248	1
216040	25	25	13	10	0,244	1
216042	35	35	13	12	0,235	1
216044	50	50	13	14	0,231	1
216046	70	70	13	16	0,226	1
216048	95	95	14	18	0,229	1
216050	120	120	14	20	0,225	1
216052	150	150	10	22	0,197	1
216054	185	185	10	25	0,193	1
216056	240	240	10	28	0,185	1
216060	300	300	10	32	0,142	1

Scope of delivery for all battery-operated tools:
1 tool, 1 quick charger and 1 rechargeable battery in system case incl. Insert.

For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

Crimping dies standard copper tube terminals and connectors, hexagonal pressing

Standard copper tube terminals and connectors, hexagonal pressing

Art. no.	mm²	PB	kg	PU
216008	10	10	0,211	1
216010	16	10	0,212	1
216012	25	10	0,210	1
216014	35	13	0,207	1
216016	50	13	0,224	1
216018	70	14	0,221	1
216020	95	14	0,226	1
216022	120	14	0,200	1
216024	150	11	0,200	1
216026	185	11	0,191	1
216028	240	11	0,186	1
216030	300	11	0,200	1
216032	400	11	0,200	1

Dies for compacted connectors

for standard cable lugs and compacted connectors, also on compacted thinned connectors

Art. no.	mm²	PB	kg	PU
216008/V	10	10	0,211	1
216010/V	16	10	0,212	1
216012/V	25	10	0,210	1
216014/V	35	13	0,207	1
216016/V	50	13	0,224	1
216018/V	70	14	0,221	1
216020/V	95	14	0,226	1
216022/V	120	14	0,200	1
216024/V	150	11	0,200	1
216026/V	185	11	0,191	1
216028/V	240	11	0,186	1
216030/V	300	11	0,200	1
216032/V	400	11	0,200	1

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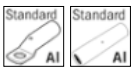
Crimping dies DIN for DIN Aluminium terminals and connectors, hexagonal pressing

400-C12

Art. no.	rm/sm	re/se	PB	KZ	kg	PU
216042/AL	16 25	25 35	12	12	0,200	1
216044/AL	35 35	50 50	12	14	0,200	1
216046/AL	50 50	70 70	12	16	0,200	1
216048/AL	70 70	95 95	12	18	0,200	1
216052/AL	95 120	120 150	14	22	0,200	1
216054/AL	150 150	185 185	14	25	0,200	1
216056/AL	185 185	240 240	14	28	0,200	1
216060/AL	240 240	300 300	17	32	1,300	1
216062/AL	300 300	0 0	17	34	0,210	1

Crimping dies for standard Aluminium terminals and connectore, hexagonal pressing

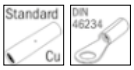


400-C12

Art. no.	mm²	PB	kg	PU
216012/AL	16 - 25	10	0,210	1
216014/AL	35	10	0,210	1
216016/AL	50	13	0,210	1
216018/AL	70	13	0,210	1
216020/AL	95	13	0,210	1
216022/AL	120	13	0,210	1
216024/AL	150	14	0,210	1
216026/AL	185	14	0,210	1
216028/AL	240	10	0,210	1

Crimping dies standard copper tube terminals and connectors, mandrel shape crimping

Standard copper tube terminals and connectors, mandrel shape crimping



400-C12

Art. no.	mm²		kg	PU
216064	10		0,200	1
216066	16		0,120	1
216068	25		0,118	1
216070	35		0,116	1
216072	50		0,118	1
216074	70		0,131	1
216076	95		0,119	1
216078	120		0,111	1
216080	150		0,107	1
216082	185		0,095	1
216084	240		0,085	1
216086	300		0,060	1
216065	10 - 25		0,112	1
216067	35 - 50		0,121	1
216069	70 - 120		0,136	1
216071	150 - 300		0,125	1

Crimping dies for cable class 5+6, F-Type

Cu

F-Type

400-C12

Art. no.	mm²	PB	kg	PU
216160	10	8	0,211	1
216162	16	8	0,216	1
216164	25	11	0,227	1
216166	35	13	0,234	1
216168	50	13	0,232	1
216170	70	13	0,111	1
216172	95	13	0,230	1
216174	120	20	0,247	1
216176	150	20	0,235	1
216178	185	8	0,190	1
216180	240	8	0,179	1
216182	300	8	0,126	1

Crimping dies for rounding of square connectors

for rounding of square connectors

Cu Al

F-Type

400-C12

Art. no.	mm²	sm	se	kg	PU
216088	50	50	70	0,518	1
216090	70	70	95	0,505	1
216092	95	95	120	0,489	1
216094	120	120	150	0,474	1
216096	150	150	185	0,463	1
216098	185	185	240	0,441	1
216100	240	240	300	0,406	1

Crimping dies for end sleeves and compacted thinned conductors

wave form

Cu

400-C12

Art. no.	mm²	PB	kg	PU
216112	50	26	0,194	1
216114	70	26	0,200	1
216116	95	26	0,188	1
216118	120	26	0,200	1
216120	150	26	0,200	1
216122	185	26	0,111	1
216123	240	26	0,111	1

Crimping dies

Crimping dies for insulated tube terminals

oval pressing

Art. no.	mm²	PB	kg	PU
216126	10	5	0,200	1
216128	16	5	0,200	1
216130	25	5	0,220	1
216132	35	5	0,218	1
216134	50	5	0,200	1
216136	70	5	0,200	1
216138	95	5	0,200	1
216140	120	5	0,200	1
216142	150	5	0,200	1

Crimping dies for C-connectors

oval pressing

Art. no.	mm²	PB	kg	PU
216148	16 - 25	16	0,218	1
216149	25	17	0,260	1
216150	35	20	0,208	1
216152	50 - 70	20	0,260	1

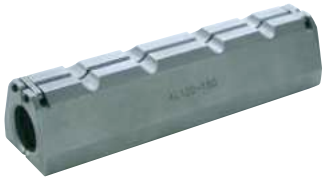
Crimping dies for H-connectors

oval pressing

Art. no.	mm²	PB	kg	PU
216154	70	30	0,217	1
216156	95	30	0,261	1
216157	120	20	0,260	1

Pressing inserts Deep Indend (AH-12/KH-12/HH-12)

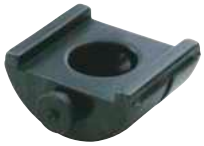
for conduit terminals and connectors, **thorn pressing**



Art. no.	mm²	for	kg	PU
216552	50 - 70	Cable lugs	0,211	1
216554	95 - 185	Cable lugs	0,211	1
216556	240	Cable lugs	0,334	1
216562	50 - 70	Connector	0,211	1
216564	95 - 185	Connector	0,458	1
216566	240	Connector	0,211	1

Adapter pressing thorn

for Deepindent press inserts



Art. no.		kg	PU
216570	1 - 4	0,130	1

Pressing thorn

for Deepindent press inserts

Art. no.	mm²		kg	PU
216574	50 - 70	1	0,211	1
216576	95 - 185	2	0,083	1
216578	240	4	0,085	1

Holder

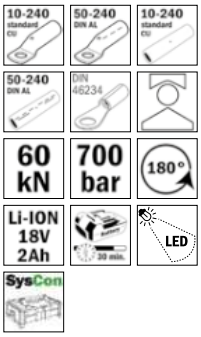
for Deepindent press inserts

Art. no.	mm²	kg	PU
216580	50 - 185	0,455	1
216582	240	0,211	1

Battery powered crimping tool SDE240-6

Crimping head can be rotated by 180°, with fast opening, return manually once compressing is complete, no inserts required, mandrel shape pressing.
The device also has 1 white LED designed to illuminate the working area.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Pressing time, battery-operated in sec.: 6 – 12
- Battery charging time in min.: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- Cable lugs: standard Cu 10 – 240
- Connectors: standard Cu 10 – 240
- Cable lugs: DIN Al 50 – 240
- Connectors: DIN Al 50 – 240
- DIN 46234 10 – 240



Art. no.	⟷	mm²	kg	PU
216669-1	455	10 - 240	7,900	1
216669-1-NO	455	10 - 240	3,600	1
216669-1-N	455	10 - 240	3,200	1

Scope of delivery for battery-operated tools:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon incl. Insert.

For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

Battery powered crimping tool SDE240-6M

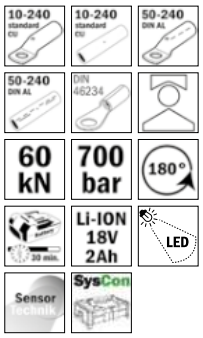
Sensor

Crimping head can be rotated by 180°, with fast opening, return manually once compressing is complete, no inserts required, **mandrel shape pressing.**

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred:
Light is green: Pressing completed as standard, motor stopped.
Light is orange: Battery voltage not sufficient
Light is red: Pressing interrupted before completed

The device also has 1 white LED designed to illuminate the working area.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Pressing time, battery-operated in sec.: 5
- Battery charging time in min.: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- Cable lugs: standard Cu 10 – 240
- Connectors: standard Cu 10 – 240
- Cable lugs: DIN Al 50 – 240
- Connectors: DIN Al 50 – 240
- DIN 46234 10 – 240



VIDEO 216669/M-1

Art. no.	⟷	mm²	kg	PU
216669/M-1	455	10 - 240	7,900	1
216669/M-1-NO	455	10 - 240	3,600	1
216669/M-1-N	455	10 - 240	3,200	1

Battery powered crimping tool SD300-6

Crimping head can be rotated by 360°, manual return flow after perfect pressure, **quad-mandrel pressing.**

- Pressing force kN: 60
- Working pressure in bar: 700
- Crimping width: four mandrel
- Cable lugs: standard Cu 16 – 300
- Connectors: standard Cu 16 – 120
- Battery-operated crimping time in seconds: 6 – 12
- Battery charging time in minutes: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- with battery Art. 215523 and charger Art. 215527

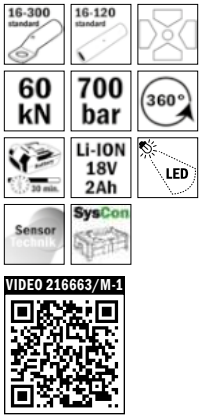
Art. no.	⟷	mm²	kg	PU
216663-1	443	16 - 300	7,900	1
216663-1-NO	443	16 - 300	4,500	1
216663-1-N	443	16 - 300	4,200	1

Battery powered crimping tool SD300-6M Sensor

Technical data and scope of delivery, see 216663-1.

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred:
Light is green: Pressing completed as standard, motor stopped.
Light is orange: Battery voltage not sufficient
Light is red: Pressing interrupted before completed

The device also has 1 white LED designed to illuminate the working area.



Art. no.	⟷	mm²	kg	PU
216663/M-1	443	16 - 300	7,900	1
216663/M-1-NO	443	16 - 300	4,500	1
216663/M-1-N	443	16 - 300	4,200	1

INFO

Hydraulic quad-mandrel pressing tool for pressing ordinary conduit terminals and connectors, wide pressing.

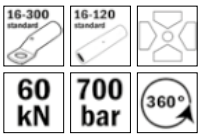
Reliable, robust, hydraulic pressing tool. The solution for your tough jobs!

- Tool adjusts automatically to the conductor cross-section being pressed
- Guaranteed DIN suitable connection
- No need to purchase further pressing inserts
- No need to change insert for each conductor cross-section
- Ideally suited for pressing extremely flexible finest-wired conductors of the cable classes 5 & 6
- Ideally suited to pressing of compacted conductors (no sleeve, no special cable shoe)
- Test thorn and guide for fast, simple, optical pressing pressure control

Note:
DIN pressing cable shoes must be processed in accordance with DIN pressing norms!

Hydraulic hand pliers HD300-6

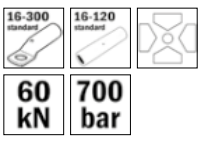
Crimping head can be rotated by 360°, manual return after completed pressing, light and compact construction in black plastic case.
- Pressing force kN: 60
- Working pressure in bar: 700
- Crimping range cable lugs: standard Cu 16 – 300
- Crimping range connectors: standard Cu 16 – 120
- Double piston pump
- Weight in kg: 5.0
- Weight set in kg: 6.5



Art. no.	⟷	mm²	kg	PU
216660	570	16 - 300	6,500	1

Crimping headstock KD300-6

in plastic case.
- Pressing force in kN: 60
- Working pressure in bar: 700
- Cable lugs: standard Cu 16 – 300
- Connectors: standard Cu 16 – 120
- Quick coupling
- Weight in kg: 2,8
- Weight of set in kg: 3,8



Art. no.	⟷	mm²	kg	PU
216665	275	16 - 300	3,800	1

Battery powered crimping tool SD400-6

Crimping head can be rotated by 360°, manual return flow after perfect pressure, **mandrel shape pressing**.
- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Cable lugs: standard Cu 25 – 400
- Connectors: standard Cu 25 – 400
- Pressing time, battery-operated in sec.: 6 – 12
- Battery charging time in min.: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- with rechargeable battery Art. 215523 and charger Art. 215527

Art. no.	⟷	mm²	kg	PU
216667-1	455	25 - 400	7,900	1
216667-1-NO	455	25 - 400	4,400	1
216667-1-N	455	25 - 400	4,000	1

Scope of delivery for battery-operated tools:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon incl. Insert.

For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Battery powered crimping tool SD400-6M

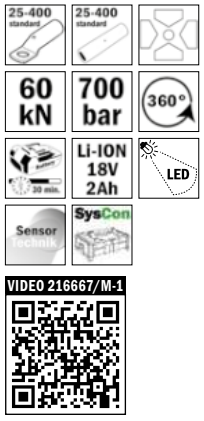
Sensor

Technical data and scope of delivery, see 216667-1.

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred:

Light is green: Pressing completed as standard, motor stopped.
Light is orange: Battery voltage not sufficient
Light is red: Pressing interrupted before completed

The device also has 1 white LED designed to illuminate the working area.

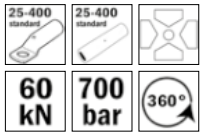


Art. no.	⟷	mm²	kg	PU
216667/M-1	455	25 - 400	8,500	1
216667/M-1-NO	455	25 - 400	4,400	1
216667/M-1-N	455	25 - 400	4,000	1

Hydraulic hand pliers HD400-6

Crimping head can be rotated by 360°, manual return after completed pressing, light and compact construction in black plastic case.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Cable lugs: standard Cu 25 – 400
- Connectors: standard Cu 25 – 400
- Dual-piston pump
- Weight in kg: 5,2
- Weight of set in kg: 6,7

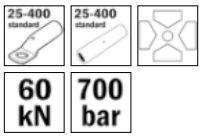


Art. no.	⟷	mm²	kg	PU
216661	585	25 - 400	7,900	1

Crimping headstock HKD400

in plastic case.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Cable lugs: standard Cu 25 – 400
- Connectors: standard Cu 25 – 400
- Quick coupling
- Weight in kg: 3
- Weight of set in kg: 4



Art. no.	⟷	mm²	kg	PU
216666	300	25 - 400	4,000	1

Test pin

Test pin for hydraulic four mandrel pressing tools

Art. no.	kg	PU
216660/B	0,566	1

Template for four mandrel pressing

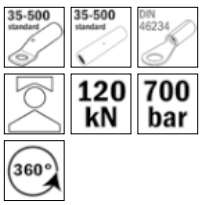
Template for hydraulic four mandrel pressing tools

Art. no.	kg	PU
216660/L	0,566	1

Hydraulic hand pliers HDE500-12

Crimping headstock 180° rotatable, no dies neccessary, **single-mandrel crimp.**

- Pressing force in kN: 120
- Working pressure in bar: 700
- Hinged head
- Cable Lugs: standard Cu 35 – 500
- Connectors: standard Cu 35 – 500
- Weight in kg: 7,7



Art. no.	⟷	mm²	kg	PU
216691	600	35 - 500	7,700	1

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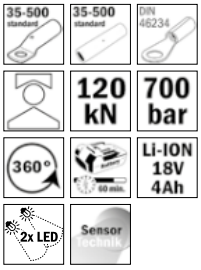
Hydraulic crimping tools

Battery powered crimping tool ADE500-12M

Sensor

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Hinged head
- Cable lugs: standard Cu 35 – 500
- Connectors: standard Cu 35 – 500
- Pressing time, battery-operated in sec.: 6 – 12
- Battery charging time in min: 60
- Battery type: Li-Ion, 18 V, 4 Ah

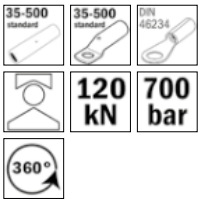


Art. no.	⟷	mm²	kg	PU
216668/M-1	405	35 - 500	11,420	1
216668/M-1-NO	405	35 - 500	7,300	1
216668/M-1-N	405	35 - 500	7,180	1

Headstock KDE500-12

in polymer case, no dies neccessary, **single-mandrel crimp**.

- Pressing force in kN: 120
- Working pressure in bar: 700
- Hinged Head
- Cable Lugs: standard Cu 35 – 500
- Connectors: standard Cu 35 – 500
- Quick coupling
- Weight in kg: 3,5



Art. no.	⟷	mm²	kg	PU
216690	330	35 - 500	3,500	1

Scope of delivery for all battery-operated tools:
1 tool, 1 quick charger and 1 rechargeable battery in system case incl. Insert.

For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

Pressure testing tools

Pressure testing tool C-head

Dies and indicating manometer for monitoring the pressing force of article 216601, 216124, 216004, 216622, 216125, 216005

400-C12

Art. no.	kg	PU
217100	1,900	1

Pressure testing tool pistol-format

Dies and indicating manometer for monitoring the pressing force, only for battery-operated pressing tools in the 400-C12 and 216800 series

400-C12

Art. no.	kg	PU
217101	0,800	1

Pressure testing tool H-head

Dies and indicating manometer for monitoring the pressing force of article 215946, 215980, 216503

400-C12

Art. no.	kg	PU
217102	5,000	1

Pressure testing tool O-head

Dies and indicating manometer for monitoring the pressing force of article 216801-1, 216801/M-1, 216800, 216802, 216804, 216807

300-06

Art. no.	kg	PU
217103	2,000	1

Pressure testing tool 240-H6

Dies and indicating manometer for monitoring the pressing force of article 215881-1, 215881/M-1, 215800

240-H6

Art. no.	kg	PU
217104	3,400	1

Pressure testing tool 185-H6

Dies and indicating manometer for monitoring the pressing force of article 215765-1, 215770-1, 215770/M-1

185-H6

Art. no.	kg	PU
217105	3,300	1

Battery Li-Ion 18 V 2 Ah

Compatible with all Li-Ion 18 V battery devices
- Intelligent battery monitoring, temperature protection, LED capacity indicator
- Charging possible using the HAUPA compact charger item 215527 or original Makita charging technology
- Please note: This battery cannot be charged using the HAUPA quick charger item 215513.

Art. no.	kg	PU
215523	0,350	1

Battery Li-Ion 18 V 4 Ah

Compatible with all Li-Ion 18 V battery devices
- intelligent battery monitoring, temperature protection, LED capacity indicator
- Charging possible using the HAUPA compact charger item 215527 or original Makita charging technology
- Please note: This battery cannot be charged using the HAUPA quick charger item 215513.

Art. no.	kg	PU
215525	0,580	1

Li-Ion 18 V compact charger

For battery models 215523 & 215525

Art. no.	kg	PU
215527	0,164	1

Battery Li-Ion 18 V 2 Ah

compatible with all Li-Ion, 18 Volt Battery powered tools build before 2018

Art. no.	kg	PU
215503	0,383	1

Battery Li-Ion 18 V 4 Ah

compatible with all Li-Ion, 18 Volt Battery powered tools build before 2018

Art. no.	kg	PU
215511	0,651	1

Quick charger Li-Ion 18 V

for art. 215503 & 215511

Art. no.	kg	PU
215513	0,819	1

Hydraulic oil

0,5 l

Art. no.	kg	PU
216254	1,000	1

18V Battery Adapter

Art. no.		kg	PU
215529	BOSCH	0,350	1
215531	MILWAUKEE	0,350	1
215533	DEWALT	0,350	1

Hydraulic crimping headstocks

Hydraulic crimping headstock KH-25

for crimping dies hexagon shape according to DIN 48083 page 3 and 4.
- Pressing force in kN: 250
- Working pressure in bar: 700
- Pressing area Cu/Al: 95 – 630
- Quick coupling
- Weight in kg: 6,4
- Weight of set in kg: 9

630-H250

Art. no.	⟷	mm²	kg	PU
216236	185	95 - 630	9,000	1

Crimping dies DIN-connection, Cu/Al

hexagon pressing dies according DIN 48083 page 4 suitable for DIN-connection material according to DIN. Cu ze (free of tensile)

DIN Cu DIN Cu

630-H250

Art. no.	mm²	Cu	Al	KZ	kg	PU
212372	95	95	70	18	1,194	1
212376	120	120	0	20	2,000	1
212380	150	150	95 - 120	22	1,700	1
212382	185	185	150	25	1,300	1
212384	240	240	185	28	1,300	1
212388	300	300	240	32	1,300	1
212390	300	300	300	34	1,300	1
212392	400	400	400	38	1,300	1
212394	500	500	0	42	1,300	1
212396	625	625	500	44	1,113	1

Crimping dies, standard, Cu

standard, hexagonal pressing

Standard Standard

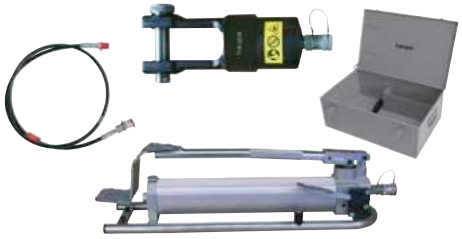
630-H250

Art. no.	mm²	kg	PU
212580	95	1,300	1
212581	120	1,300	1
212582	150	1,300	1
212583	185	1,300	1
212584	240	1,300	1
212585	300	1,300	1
212586	400	1,300	1
212587	500	1,300	1
212588	625	1,300	1

Hydraulic crimping headstock set

Content: Art. No. 216236 Hydraulic crimping headstock, Art. No. 216238 Hydraulic high-pressure hose, 2 m, Art. No. 216348 Hydraulic foot pump, Art. No. 216251 Carrycase.
- Pressing force in kN: 250
- Working pressure in bar: 700
- Opening/ Hub: Pin
- Pressing width: wide
- Pressing area Cu/Al: 95-630
- Dual-piston pump
- Quick coupling
- Weight in kg: 18,4
- Weight of set in kg: 21

630-H250



Art. no.	mm²	kg	PU
216250	95 - 630	21,000	1

Hydraulic crimping headstock + cylinder KH-45

for terminals and butt connectors to 1000 mm², together with an adapter it is possible to use all other crimping dies of the other crimping headstock, low weight in comparison to the crimping range, excellent price relation, snap head, extensionable system to bend and punch electric bus bars socket-joint connection.
- Pressing force in kN: 450
- Working pressure in bar: 700
- Pressing area Cu/Al: 120 – 1000
- Quick coupling
- Weight of set in kg: 13,5

1000-H450

Art. no.	⟷	mm²	kg	PU
216355	185	120 - 1000	9,320	1

Crimping dies, standard

standard, hexagon pressing
for crimping terminals and connectors DIN 46235 and for Al terminals and Al connectors

DIN Cu DIN Cu

1000-H450

Art. no.	mm²	kg	PU
216304	120	2,635	1
216306	150	2,600	1
216308	185	2,620	1
216310	240	2,580	1
216312	300	2,580	1
216314	400	2,235	1
216316	500	1,200	1
216318	625	2,300	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Hydraulic crimping headstocks

Crimping dies DIN-connection, Cu/Al

DIN, hexagon pressing for terminals and connectors DIN 46235 and for Al terminals and Al connectors

1000-H450

Art. no.	mm²	Cu	Al	KZ	kg	PU
216320	120	120	-	20	1,115	1
216322	150	150	95 - 120	22	1,063	1
216324	185	185	150	25	1,058	1
216326	240	240	185	28	1,096	1
216328	300	300	240	32	0,900	1
216330	300	300	300	34	1,070	1
216332	400	400	400	38	2,320	1
216334	500	500	-	42	2,280	1
216336	625	625	-	44	2,260	1
216338	800	800	625	52	1,051	1
216340	1000	1000	-	58	2,060	1

Pumps for hydraulic crimping headstocks

Hydraulic foot pump F-700

material: aluminium alloy, light design, twin-cam pump, automatic switching from closing (ca. 25 ccm/Hub) to working feed rate (ca. 2.5 ccm/Hub), security valve, max. working pressure 700 bar (+ 10/- 30 bar), without hose, with quick coupling

Art. no.	bar	kg	PU
216348	700	7,860	1

Hydraulic high pressure hose

steel reinforced with quick coupling to foot pump Art. No. 216348 and electro-hydraulic pump Art. No. 216352

Art. no.		kg	PU
216364	5	1,260	1

Electro-hydraulic pump PN700 I

electric foot switch, completely self-acting, also the release of the dies at the end of the operation, 2 m high pressure tube and hydraulic connectors, for industrial uses, where a high level of production is needed, 230 volt, with foot switch control, pump for working outside

Art. no.	bar		kg	PU
216352	700	230 V	20,000	1

Battery-hydraulic pump PA-700

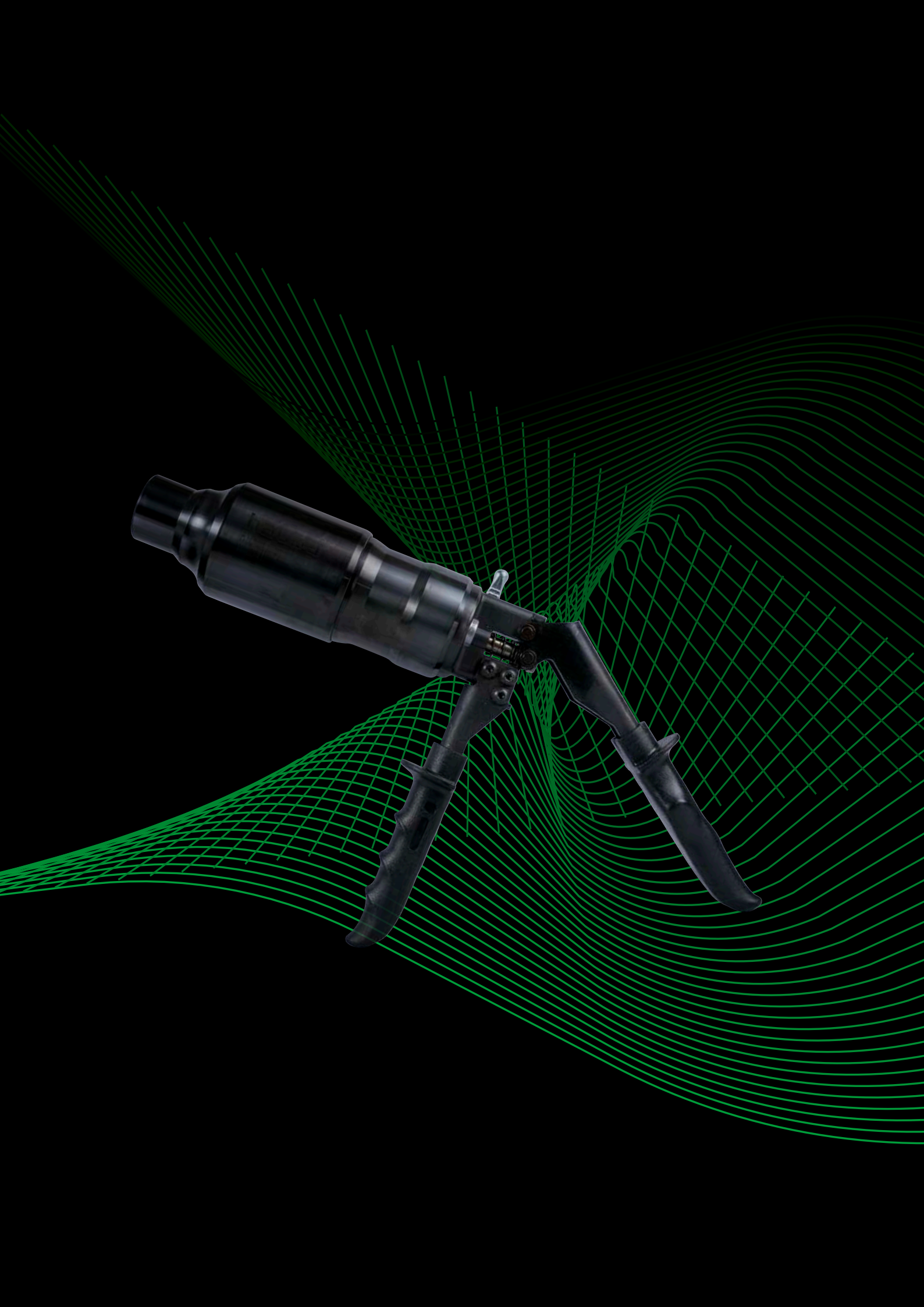
Sensor

2 stage hydraulics, manual control switch, manual return flow after perfect pressure, LED for battery control, 1 quick charger, 1 battery Li-Ion, 4 Ah, carrying belt, max. operating pressure: 700 bar with 1,8 m hose, **with quick coupling.**

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred:
Light is green: Pressing completed as standard, motor stopped.
Light is orange: Battery voltage not sufficient
Light is red: Pressing interrupted before completed

Cutting/Pressing/Punching

Art. no.	bar		kg	PU
216357	700	Akku	10,420	1



Hydraulic hand-punching tool HS-8

Punches precise holes with almost no burring. Ideal for fast, frontal punching of control panels.
Extent of supply: 1 hydraulic hand punch, 1 connecting rod 3/8-24 UNF (article no. 217660), 1 connecting rod 3/4-16 UNF (article no. 217662),
1 adapter (article no. 217664), 1 spacer bushing (article no. 217666),
1 transport case.

- Punching performance: Steel sheet of up to a maximum of 3 mm
- Pressing force: 80 kN
- Length: 308 mm
- Weight: 2,4 kg
- Weight Set: 3,8 kg

80 kN

Art. no.	kg	PU
217604	3,800	1

Hydraulic hand-punch-cutter HS-6

Punches accurate slugs nearly free of burs. Usable for building and maintaining control boxes, for car retrofitting and for sanitary application. Extent of supply: 1 hydraulic punching tool, 1 rod 3/8-24 UNF (art. 217660), 1 rod 3/4-16 UNF (art. 217662), 1 adapter (art. 217664), 1 sleeve (art. 217666), 1 plastic case with insert.

- Punching capacity: Steel plates up to max. 3 mm
- Pressing force: 60 kN
- Length: 230 mm
- Weight: 2,4 kg
- Weight Set: 3,8 kg

60 kN

Art. no.	kg	PU
217602	3,800	1

Punching dies, metric

- ST37, 3 mm
- compatible with art. 216764

Art. no.	Ø		Connecting rod	kg	PU
217610	16,5	ISO 16	217660	0,070	1
217612	20,5	ISO 20	217660	0,090	1
217614	25,5	ISO 25	217660	0,150	1
217616	32,5	ISO 32	217660	0,220	1
217618	40,5	ISO 40	217662	0,900	1
217620	50,5	ISO 50	217662	0,640	1

Punching dies, PG

- ST37, 3 mm
- compatible with art. 216764

Art. no.	Ø		Connecting rod	kg	PU
217630	15,2	PG9	217660	0,060	1
217632	18,6	PG11	217660	0,084	1
217634	20,4	PG13,5	217660	0,091	1
217636	22,5	PG16	217660	0,120	1
217638	28,3	PG21	217660	0,170	1
217640	37	PG29	217662	0,330	1
217642	47	PG36	217662	0,536	1
217644	54	PG42	217662	0,731	1
217646	60	PG48	217662	0,896	1

Connecting rod

Art. 217660 - 3/8-24 UNF
Art. 217662 - 3/4-16 UNF

Art. no.		kg	PU
217660	1	0,040	1
217662	2	0,220	1

Adapter

for connecting rod art. 217660

- UNF

Art. no.	kg	PU
217664	0,100	1

Spacer bushing

Art. no.	kg	PU
217666	0,110	1

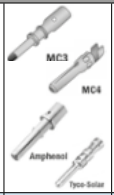
6 tonne pressing tools

Tool	Article no.	Type	Insert range	Pressing width dies	Sensor techno-logy	Pressing with thron	Pressing force kN	Working pressure in bar	Head can be opened	Quick couping	HUB/ opening mm	Pressing range for cable lugs						Pressing range for connectors						Dual piston pump	kg	Set kg	Battery	Pressing time in sec.
												Cu	Cu DIN	F-Type	Al DIN	CU standard PL	CU standard light T	Cu	Cu DIN	F-Type	Al DIN	Cu standard PL	Cu standard light M					
	215765	HHs-6	185 H6	slim	-	-	60	700	●	-	17	10 - 240	10 - 185	-	10 - 185	10 - 185	-	10 - 185	10 - 185	-	10 - 185	10 - 185	-	●	3,000	7,900	-	-
	215770-1	SHs-6	185 H6	slim	-	-	60	700	●	-	17	10 - 240	10 - 185	-	16 - 150	10 - 240	-	10 - 240	10 - 240	-	16 - 185	10 - 240	-	-	2,400	7,900	Li-Ion 18V 2 Ah	5
	215770/M-1	SHs-6	185 H6	slim	●	-	60	700	●	-	17	10 - 240	10 - 185	-	16 - 185	10 - 240	-	10 - 240	10 - 240	-	16 - 185	10 - 240	-	-	2,400	7,900	Li-Ion 18V 2 Ah	5
	215800	HH-6	240 H6	slim	-	-	60	700	●	-	17	10 - 240	10 - 240	-	16 - 185	10 - 240	-	10 - 240	10 - 240	-	16 - 185	10 - 240	-	●	3,000	4,500	-	-
	215881-1	SH-6	240 H6	slim	-	-	60	700	●	-	17	10 - 240	10 - 240	-	16 - 185	10 - 240	-	10 - 240	10 - 240	-	16 - 185	10 - 240	-	-	2,400	7,900	Li-Ion 18V 2 Ah	5
	215881/M-1	SH-6	240 H6	slim	●	-	60	700	●	-	17	10 - 240	10 - 240	-	16 - 185	10 - 240	-	10 - 240	10 - 240	-	16 - 185	10 - 240	-	-	2,400	7,900	Li-Ion 18V 2 Ah	5
	216807	KO-6	300 06	slim	-	-	60	700	●	●	17	6 - 300	6 - 300	6 - 300	6 - 240	6 - 300	6 - 300	6 - 300	6 - 300	6 - 300	6 - 240	6 - 300	6 - 300	-	3,200	4,200	-	-
	216804	MO-6	300 06	slim	-	-	60	700	●	-	17	6 - 300	6 - 300	6 - 300	6 - 240	6 - 300	6 - 300	6 - 300	6 - 300	6 - 300	6 - 240	6 - 300	6 - 300	-	8,100	11,800	-	-
	216802	HO-6	300 06	slim	-	-	60	700	●	-	17	6 - 300	6 - 300	6 - 300	6 - 240	6 - 300	6 - 300	6 - 300	6 - 300	6 - 300	6 - 240	6 - 300	6 - 300	●	3,500	5,000	-	-
	216801-1	SO-6	300 06	slim	-	-	60	700	●	-	17	6 - 300	6 - 300	6 - 300	6 - 240	6 - 300	6 - 300	6 - 300	6 - 300	6 - 300	6 - 240	6 - 300	6 - 300	-	2,400	7,900	Li-Ion 18V 2 Ah	5
	216801/M-1	SO-6	300 06	slim	●	-	60	700	●	-	17	6 - 300	6 - 300	6 - 300	6 - 240	6 - 300	6 - 300	6 - 300	6 - 300	6 - 300	6 - 240	6 - 300	6 - 300	-	2,400	7,900	Li-Ion 18V 2 Ah	5
	216800-1	AO-6	300 06	slim	●	-	60	700	●	-	17	6 - 300	6 - 300	6 - 300	6 - 240	6-300	6 - 300	6 - 300	6 - 300	6 - 300	6 - 240	6 - 300	6 - 300	●	4,500	9,500	Li-Ion 18V 4 Ah	4
	216665	KD300-6		wide	-	●	60	700	-	●	-	16 - 300	-	16 - 240	-	16 - 300	16 - 300	16 - 120	16 - 300	16 - 95	-	16 - 120	16 - 120	-	2,800	3,800	-	-
	216660	HD300-6		wide	-	●	60	700	-	-	-	16 - 300	-	16 - 240	-	16 - 300	16 - 300	16 - 120	16 - 300	16 - 95	-	16 - 120	16 - 120	●	5,000	6,500	-	-
	216663/M-1	AD300-6		wide	●	●	60	700	-	-	-	16 - 300	-	16 - 240	-	16 - 300	16 - 300	16 - 120	16 - 300	16 - 95	-	16 - 120	16 - 120	-	4,500	9,500	Li-Ion 18V 2 Ah	6
	216666	KD400-6		wide	-	●	60	700	●	●	-	25 - 400	-	25 - 400	-	25 - 400	25 - 400	25 - 400	25 - 400	25 - 400	-	25 - 400	25 - 400	-	3,000	4,000	-	-
	216661	HD400-6		wide	-	●	60	700	●	-	-	25 - 400	-	25 - 400	-	25 - 400	25 - 400	25 - 400	25 - 400	25 - 400	-	25 - 400	25 - 400	●	5,200	6,700	-	-
	216667/M-1	AD400-6		wide	●	●	60	700	●	-	-	25 - 400	-	25 - 400	-	25 - 400	25 - 400	25 - 400	25 - 400	25 - 400	-	25 - 400	25 - 400	-	4,800	9,800	Li-Ion 18V 2 Ah	6
	216669/M-1	SDE240-6		wide	●	●	60	700	●	-	-	6 - 240	-	6 - 240	-	6 - 240	6 - 240	6 - 240	6 - 240	6 - 240	-	6 - 240	6 - 240	-	2,900	7,900	Li-Ion 18V 2 Ah	5

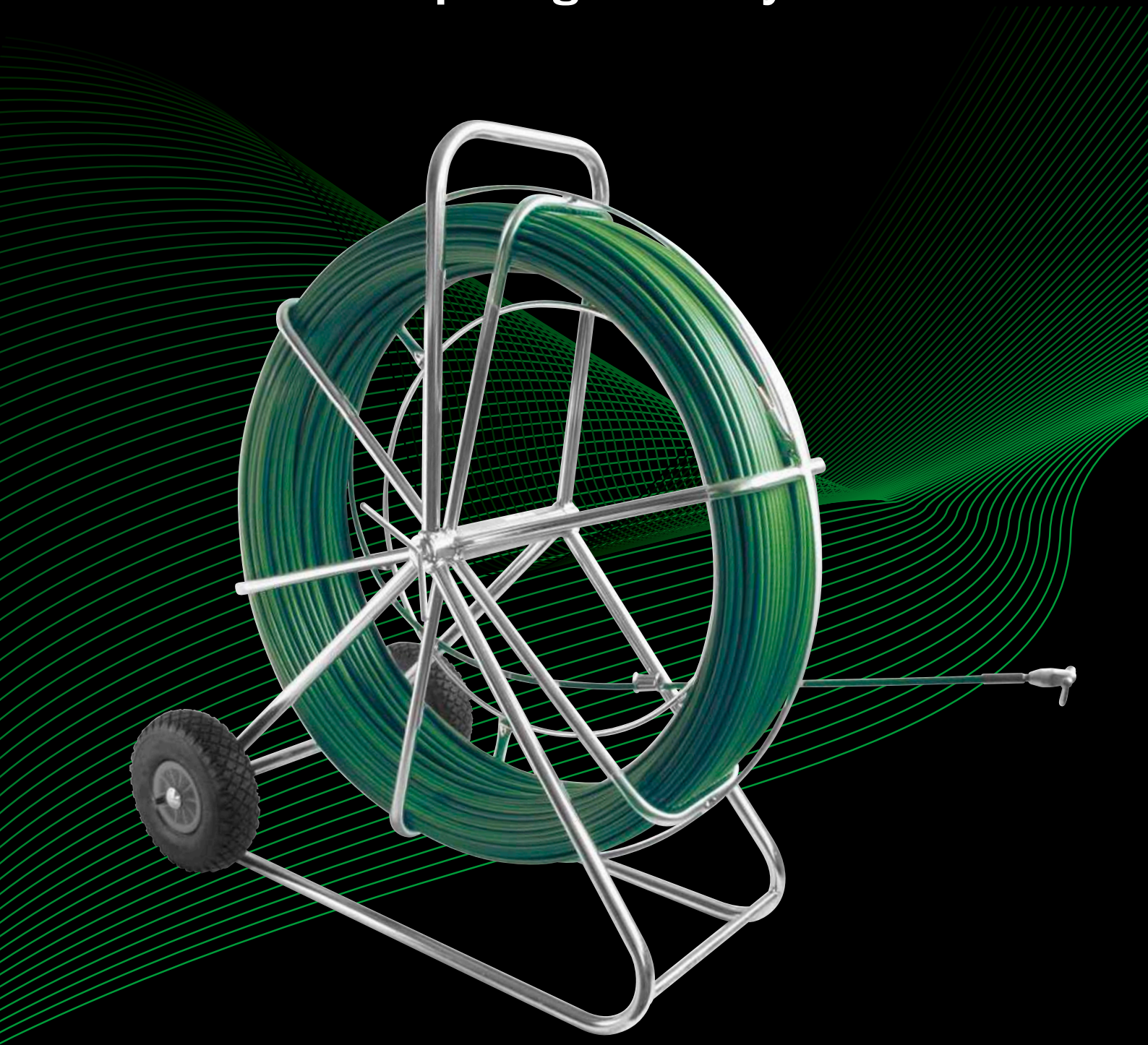
12 tonne pressing tools

Tool	Article no.	Type	Insert range	Pressing width dies	Sensor techno-logy	Pressing force kN	Working pressure inbar	Head can be opened	Quick couping	HUB/ opening mm	Pressing range for cable lugs						Pressing range for connectors						Groove pressing	Dual piston pump	kg	Set kg	Battery	Pressing time in sec.
											Cu	Cu DIN	F-Type	Al DIN	CU standard PL	CU standard light T	Cu	Cu DIN	F-Type	Al DIN	Cu standard PL	Cu standard light M						
	216004	KC25-12	400 C12	wide	-	120	700	-	●	25	10 - 400	10 - 300	10 - 300	16 - 240	10 - 400	10 - 300	10 - 185	10 - 150	10 - 150	16 - 120	10 - 185	10 - 150	-	-	3,600	4,600	-	-
	216124	HC25-12	400 C12	wide	-	120	700	-	-	25	10 - 400	10 - 300	10 - 300	16 - 240	10 - 400	10 - 300	10 - 185	10 - 150	10 - 150	16 - 120	10 - 185	10 - 150	-	●	6,200	7,700	-	-
	216601-1	AC25-12	400 C12	wide	●	120	700	-	-	25	10 - 400	10 - 300	10 - 300	16 - 240	10 - 400	10 - 300	10 - 185	10 - 150	10 - 150	16 - 120	10 - 185	10 - 150	-	●	7,000	12,000	Li-Ion 18V 2 Ah	6
	216005	KC42-12	400 C12	wide	-	120	700	-	●	42	10 - 400	10 - 300	10 - 300	16 - 240	10 - 400	10 - 300	10 - 400	10 - 300	10-300	16 - 240	10 - 400	10 - 300	-	-	5,300	6,300	-	-
	216125	HC42-12	400 C12	wide	-	120	700	-	-	42	10 - 400	10 - 300	10 - 300	16 - 240	10 - 400	10 - 300	10 - 400	10 - 300	10-300	16 - 240	10 - 400	10 - 300	-	●	8,200	9,700	-	-
	216622-1	AC42-12	400 C12	wide	●	120	700	-	-	42	10 - 400	10 - 300	10 - 300	16 - 240	10 - 400	10 - 300	10 - 400	10 - 300	10-300	16 - 240	10 - 400	10 - 300	-	●	8,500	13.000	Li-Ion 18V 2 Ah	7
	215980	KH-12	400 C12	wide	-	120	700	●	●	20	10 - 400	10 - 300	10 - 300	16 - 240	10 - 400	10 - 300	10 - 400	10 - 300	10-300	16 - 240	10 - 400	10 - 300	●	-	4,000	5,000	-	-
	215946	HH-12	400 C12	wide	-	120	700	●	-	20	10 - 400	10 - 300	10 - 300	16 - 240	10 - 400	10 - 300	10 - 400	10 - 300	10-300	16 - 240	10 - 400	10 - 300	●	●	6,000	7,500	-	-
	216503-1	AH-12	400 C12	wide	●	120	700	●	-	20	10 - 400	10 - 300	10 - 300	16 - 240	10 - 400	10 - 300	10 - 400	10 - 300	10-300	16 - 240	10 - 400	10 - 300	●	●	7,000	12,000	Li-Ion 18V 2 Ah	6
	216236	KH-25	630 - H250	wide	-	250	700	●	●	20	-	95 - 630	-	70 - 500	-	-	-	95 - 630	-	70 - 500	-	-	-	-	6,400	9,000	-	-
	216355	KH-45	1000 - H450	wide	-	450	700	●	●	-	120 - 625	120 - 1000	-	95 - 300	120 - 625	-	120 - 625	120 - 1000	-	120 - 625	-	-	-	-	10,300	13,500	-	-

Series of dies

							DIN 46234		light T/M	standard	F-Type	DIN CU	Ni	Al DIN	PL Al standard	Al/Cu DIN	Al/Cu standard
M210		0,5 - 6	0,5 - 35	RG58 RG59 RG62 RG6	0,5 - 6	✓	1 - 10	-	-	-	-	-	-	-	-	-	-
185-H6		-	-	-	-	-	-	-	-	-	-	10 - 185	-	16 - 150	10 - 240	-	-
240-H6		-	on request	-	-	-	on request	on request	-	10 - 240	-	10 - 240	-	10 - 185	10 - 240	10 - 185	-
300-06		-	6 - 185	-	-	-	10 - 150	on request	6 - 300	6 - 300	6 - 300	6 - 300	on request	16 - 240	10 - 300	16 - 240	-
400-C12		-	50 - 150	-	-	-	10 - 300	10 - 150	10 - 300	10 - 300	10 - 185	10 - 300	on request	16 - 240	10 - 400	16 - 240	-
400-C12		-	50 - 150	-	-	-	10 - 300	10 - 150	10 - 300	10 - 300	10 - 185	10 - 300	on request	16 - 240	10 - 400	16 - 240	-
400-C12 TN218		-	50 - 150	-	-	-	10 - 300	10 - 150	10 - 300	10 - 300	10 - 185	10 - 300	on request	16 - 240	10 - 400	16 - 240	35 - 240 TN 218
630-H250		-	-	-	-	-	-	-	-	-	-	70 - 630	-	95 - 500	-	95 - 500	-
1000-H450		-	-	-	-	-	-	-	-	-	-	120 - 1000	-	95 - 300	-	95 - 300	-

Fish tapes
Cable pulling device system



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Fish tapes

Steel fish tapes

with eyelet and brass rolling ball, without additional pilot spring

Art. no.	Ø	⟷	kg	PU
150152	3.5	10 m	0,131	1
150154	3.5	15 m	0,208	1
150156	3.5	20 m	0,268	1
150158	3.5	25 m	0,323	1

Spiral fish tapes

made from steel spirals, fourfold twisted, with solid steel end pieces, strip size 4 mm

Art. no.	Ø	⟷	kg	PU
150200	4	5 m	0,312	1
150202	4	10 m	0,691	1
150204	4	15 m	0,988	1
150206	4	20 m	1,343	1
150208	4	25 m	1,820	1
150210	4	30 m	1,859	1

Perlon fish tapes

made from stretched Bayer-Perlon wire, black, with solid steel end pieces, with additional pilot spring, approx. 120 mm length

Art. no.	Ø	⟷	kg	PU
150220 ✸	3	5 m	0,060	1
150222 ✸	3	10 m	0,103	1
150224 ✸	3	15 m	0,141	1
150226 ✸	3	20 m	0,188	1
150228	3	25 m	0,246	1
150230	3	30 m	0,244	1
150241 ✸	4	10 m	0,160	1
150243 ✸	4	15 m	0,234	1
150245 ✸	4	20 m	0,303	1
150247 ✸	4	25 m	0,386	1

Perlon fish tapes

made from stretched Bayer-Perlon wire, black, with solid steel end pieces, without additional pilot spring, strip size 4 mm

Art. no.	Ø	⟷	kg	PU
150232	4	10 m	0,152	1
150234	4	15 m	0,236	1
150236	4	20 m	0,303	1
150238	4	25 m	0,402	1
150239	4	30 m	0,445	1

Perlon fish tapes

made from stretched Bayer-Perlon wire, black, with solid steel end pieces, with 2 eyes, strip size 3 mm

Art. no.	Ø	⟷	kg	PU
150450	3	5 m	0,048	1
150452	3	10 m	0,099	1
150454	3	15 m	0,139	1
150456	3	20 m	0,163	1
150458	3	25 m	0,218	1
150462	4	5 m	0,080	1
150464	4	10 m	0,158	1
150466	4	15 m	0,240	1
150468	4	20 m	0,292	1
150470	4	25 m	0,389	1

Perlon fish tapes

made from stretched „Bayer-Perlon wire“, black, with solid steel end pieces, with 2 spring and 2 eyes, strip size 4 mm

Art. no.	Ø	⟷	kg	PU
150476	4	10 m	0,180	1
150478	4	15 m	0,260	1
150480	4	20 m	0,332	1
150482	4	25 m	0,412	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller

Premium product

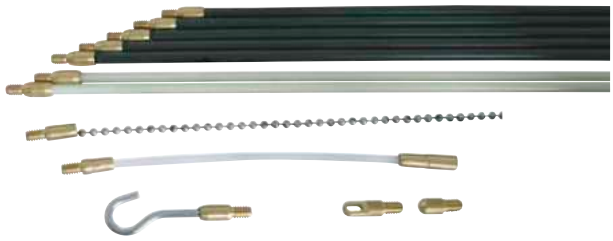
Fibreglas section fish rods kits

Fibre glass push rod set

in nylon bag.

Scope of delivery:
Push rod length: 7 m
5 rods 8 mm Ø black
2 rods 8 mm Ø white

Accessories:
1 hook, 1 chain, 1 magnet, 1 starting block, 1 pulling knob



Art. no.	⟷	set	kg	PU
150560	7 m	12	0,500	1

Fibre glass push rod set

in nylon bag.

Scope of delivery:
Push rod length: 10 m
2 rods 6 mm Ø white
6 rods 5 mm Ø yellow
2 rods 4 mm Ø green

Accessories:
1 hook, 1 chain, 1 magnet, 1 starting block, 1 pulling knob, 1 LED lamp

Art. no.	⟷	set	kg	PU
150562 ✷	10 m	16	0,700	1

HAUPA PullTec

HAUPA-PullTec4 cable pulling device

with special plastic coating, M5 thread and probe, in durable plastic housing, colour: black
Single Composite, 4 mm green
The advantages of the HAUPA PullTec at a glance:
Advantages:
- Material: special plastic coated
- High gliding ability and elasticity
- Low friction
- No breaking, no kinking
- M5 thread
- with search spring
- in break-proof plastic housing
- breaking load 300 kg

Art. no.	Ø	⟷		kg	PU
143500	4	20 m	M5	1,040	1
143502 ✷	4	30 m	M5	1,300	1

Replacement Rod HAUPA PullTec4

Single Composite, 4 mm, green

Art. no.	Ø	⟷		kg	PU
143501	4	20 m	M5	1,000	1
143503	4	30 m	M5	1,300	1

Cable pulling device HAUPA PullTec4

Art. no.	Ø		kg	PU
143508	6	M5	0,010	1

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HAUPA GmbH, Lange Str. 40, D-42857 Remscheid, Germany, Phone: +49 (0)2191 8418-0, Fax: +49 (0)2191 8418-840, E-mail: sales@haupa.com

Cable pulling device HAUPA PullTec5

with special plastic coating, M5 thread and probe, in durable plastic housing, colour: black
Single Composite, 5,2 mm black
The advantages of the HAUPA PullTec at a glance:
- Material: Coated with a special plastic
- Slides very well and is highly elastic
- Low friction
- Does not break or bend
- M5 thread
- With probe
- In durable plastic housing
- Breaking load: 350 kg

Art. no.	Ø			kg	PU
143506 ✸	5.2	30 m	M5	1,780	1

Replacement rod HAUPA-PullTec

Single Composite 5,2 mm, black

Art. no.	Ø			kg	PU
143505	5.2	20 m	M5	1,540	1
143507	5.2	30 m	M5	1,780	1

Cable pulling device HAUPA PullTec

Art. no.	Ø		kg	PU
143509	6	M5	0,020	1

Cable pulling device HAUPA-FIBRE

Cable pulling device with glass fibre rod Ø 3 mm, with PP casing, including front/end sleeve M5, 143010, 143024.

143000/143002 including:
143008 (2x)
143016 (2x)
143018 (2x)
143012
143014
143020
143026

143002/ECO including:
143008 (1x)

VIDEO 143000

Art. no.	Ø			kg	PU
143000	3	M5	20 m	1,199	1
143002	3	M5	30 m	1,500	1
143002/ECO	3	M5	30 m	1,198	1

Pulling unit with loop M5

Pulling unit with loop M5

Art. no.	Ø		kg	PU
143008	6	M5	0,020	1

Guiding head with loop M5

Art. no.	Ø		kg	PU
143010	6	M5	0,200	1

Guiding head M5

Art. no.	Ø		kg	PU
143012	7	M5	0,010	1

Guiding head M5

Art. no.	Ø		kg	PU
143014	10	M5	0,011	1

Cable pulling device, accessories

Guiding head M5

Art. no.	Ø		kg	PU
143030	13	M5	0,017	1

Front/end sleeve M5

Art. no.		kg	PU
143016	M5	0,005	1

Connection sleeve for probes Ø 3 mm

Art. no.	Ø		kg	PU
143018	3	M5	0,003	1

Cable grips

Art. no.		Ø	⟷	kg	PU
143020	M5	4 - 6	200	0,007	1

Special pulling aid

for fast pulling of glass fibre rods Ø 3 mm

Art. no.	Ø	kg	PU
143024	3-6	0,047	1

Special fast glue for glass fibre rod Ø 3 mm

Art. no.	kg	PU
143026	0,012	1

Replacement glass fibre rod

Ø 3 mm, length 20/30 m, including front/end sleeve M5

Art. no.	Ø	⟷	kg	PU
143004	3	20 m	0,022	1
143006	3	30 m	0,034	1

Service set for HAUPA-FIBRE

5 front sleeves, 5 guiding heads, 3 connection sleeves, 1 special fast glue

Art. no.		kg	PU
143028	M5	0,041	1

Cable pulling device FOX

Cable pulling device FOX with glass fibre rod Ø 4.5 mm and green PP coating RAL 6018, with zinced steel winder Ø 330 mm, standing version, complete with front/end sleeve M5 and pulling head M5 with loop

Art. no.	Ø		⟷	kg	PU
143050	4.5	M5	40 m	3,900	1
143052 ✱	4.5	M5	60 m	4,400	1
143054	4.5	M5	80 m	4,800	1

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Cable pulling device, accessories

Replacement glass fibre rod FOX

Ø 4.5 mm, complete with front/end sleeve M5

Art. no.	Ø			kg	PU
143056	4.5	M5	40 m	0,900	1
143058	4.5	M5	60 m	1,400	1
143060	4.5	M5	80 m	1,800	1

Guiding head with loop M5

Art. no.		kg	PU
143062	M5	0,011	1

Front bulb with shackle M5

Art. no.		kg	PU
143064	M5	0,100	1

Guiding role made from aluminium M5

Art. no.		kg	PU
143066	M5	0,100	1

Guiding head M5

Art. no.	Ø		kg	PU
143012	7	M5	0,010	1
143014	10	M5	0,011	1
143030	13	M5	0,017	1

Guiding head set with heads Ø 7, 10, 13 mm M5

Art. no.		kg	PU
143068	M5	0,038	1

Front/end sleeve M5

Art. no.		kg	PU
143070	M5	0,100	1

Connection sleeve for probes Ø 4.5 mm

Art. no.	Ø	kg	PU
143072	4.5	0,010	1

Cable pulling device SIX

Cable pulling device SIX with glass fibre rod Ø 6.0 mm and green PP coating RAL 6018, with zinced steel winder Ø 550 mm, in lying and standing version with wheels, complete with front/end sleeve M6 and pulling head M6 with loop

Art. no.	Ø			kg	PU
143100	6	M6	40 m	5,200	1
143102	6	M6	60 m	5,900	1
143104	6	M6	80 m	6,800	1
143105	6	M6	100 m	7,700	1

Cable pulling device SIX

Cable pulling device SIX with glass fibre rod Ø 6.0 mm and green PP coating RAL 6018, with zinced steel winder Ø 550 mm, in lying and standing version with wheels, complete with front/end sleeve M6 and pulling head M6 with loop

Art. no.	Ø			kg	PU
143106	6	M6	40 m	7,200	1
143108	6	M6	60 m	8,300	1
143110	6	M6	80 m	9,400	1
143111	6	M6	100 m	10,300	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller

Premium product

Cable pulling device, accessories

Cable pulling device SIX

Cable pulling device SIX with glass fibre rod Ø 6.0 mm and green PP coating RAL 6018, with zinced steel winder Ø 550 mm, in lying and standing version with wheels, complete with front/end sleeve M6 and pulling head M6 with loop

Art. no.	Ø		⟷	kg	PU
143112	6	M6	40 m	7,400	1
143114	6	M6	60 m	8,500	1
143116	6	M6	80 m	9,600	1
143117	6	M6	100 m	10,500	1

Replacement glass fibre rod SIX

Ø 6 mm, including front/end sleeve M5

Art. no.	Ø		⟷	kg	PU
143118	6	M6	40 m	1,700	1
143120	6	M6	60 m	2,500	1
143122	6	M6	80 m	3,250	1
143124	6	M6	100 m	4,150	1

Guiding head with loop M6

Art. no.	Ø		kg	PU
143126	6	M6	0,018	1

Front bulb with shackle M6

Art. no.	Ø		kg	PU
143128	6	M6	0,022	1

Guiding role made from aluminium M6

Art. no.	Ø		kg	PU
143130	6	M6	0,026	1

Guiding head M6

Art. no.	Ø		kg	PU
143132	6	M6	0,017	1

Front/end sleeve M6

Art. no.	Ø		kg	PU
143134	6	M6	0,013	1

Connection shackle for probes Ø 6 mm

Art. no.	Ø	kg	PU
143136	6	0,012	1

Cable pulling device FIX

Cable pulling device FIX with glass fibre rod Ø 7.5 mm ad green PP coating RAL 6018, with zinced steel winder Ø 630 mm, in standing version and with wheels, including front/end sleeve M12 and front bulb with shackle M12

Art. no.	Ø		⟷	kg	PU
143150	7.5	M12	40 m	8,100	1
143152	7.5	M12	60 m	9,400	1
143154	7.5	M12	80 m	10,700	1
143156	7.5	M12	100 m	11,900	1

Cable pulling device, accessories

Cable pulling device FIX

Cable pulling device FIX with glass fibre rod Ø 7.5 mm ad green PP coating RAL 6018, with zinced steel winder Ø 630 mm, in standing version and with wheels, including front/end sleeve M12 and front bulb with shackle M12

Art. no.	Ø		⟷	kg	PU
143160	7.5	M12	40 m	9,100	1
143162	7.5	M12	60 m	10,400	1
143164	7.5	M12	80 m	11,700	1
143166	7.5	M12	100 m	12,900	1
143168 ✸	7.5	M12	120 m	14,100	1

Replacement glass fibre rod FIX

Ø 7.5 mm, including front/end sleeve M12

Art. no.	Ø		⟷	kg	PU
143170	7.5	M12	40 m	1,500	1
143172	7.5	M12	60 m	2,000	1
143174	7.5	M12	80 m	3,000	1
143176	7.5	M12	100 m	3,700	1
143178	7.5	M12	120 m	4,500	1

Front bulb with shackle M12

Art. no.		kg	PU
143180	M12	0,010	1

Guiding role made from aluminium M12

Art. no.		kg	PU
143182	M12	0,200	1

Guiding role made from aluminium, length 80 mm M12

Art. no.	Ø		Ø	⟷	kg	PU
143184	40	M12	80	80 m	0,220	1

Front/end sleeve M12

Art. no.		kg	PU
143186	M12	0,004	1

Connection sleeve for probes Ø 9 + 11 mm

Art. no.	Ø	kg	PU
143187	7.5	0,003	1

Connection sleeve with rotator

Art. no.	Ø		⟷	kg	PU
143190	30	M12	83	0,006	1

Pipe cleaning brush

Art. no.	Ø	kg	PU
143200	80	0,200	1
143202	97	0,098	1
143204	117	0,400	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Cable pulling device STRONG

Cable pulling device STRONG with glass fibre rid Ø 9 mm and green PP coating RAL 6018, with zinced steel winder Ø 795 mm (1000 with wheels), in standing version and with wheels, including front/end sleeve M12 and front bulbs with shackle M12

Art. no.	Ø		⟷	kg	PU
143210	9	M12	40 m	9,100	1
143212	9	M12	60 m	12,900	1
143214	9	M12	80 m	14,820	1

Cable pulling device STRONG

Cable pulling device STRONG with glass fibre rid Ø 9 mm and green PP coating RAL 6018, with zinced steel winder Ø 795 mm (1000 with wheels), in standing version and with wheels, including front/end sleeve M12 and front bulbs with shackle M12

Art. no.	Ø		⟷	kg	PU
143216	9	M12	100 m	29,400	1
143218	9	M12	120 m	31,300	1
143220	9	M12	150 m	33,900	1

Replacement glass fibre rod STRONG

Ø 9 mm, including front/end sleeve M12

Art. no.	Ø		⟷	kg	PU
143222	9	M12	40 m	3,800	1
143224	9	M12	60 m	5,500	1
143226	9	M12	80 m	7,500	1
143228	9	M12	100 m	9,400	1
143230	9	M12	120 m	11,300	1
143232	9	M12	150 m	13,900	1

Cable pulling device POWER

Cable pulling device POWER with glass fibre rod Ø 11 mm and green PP coating RAL 6018, with zinced steel winder Ø 1000 mm, width 150 mm, standing version with wheels, including front/end sleeve M12 and front bulb with shackle M12

Art. no.	Ø		⟷	kg	PU
143250	11	M12	150 m	43,000	1
143252	11	M12	200 m	50,000	1
143254	11	M12	250 m	56,500	1
143256	11	M12	300 m	64,500	1

Replacement glass fibre rod POWER

Ø 9 mm, including front/end sleeve M12

Art. no.	Ø		⟷	kg	PU
143258	11	M12	150 m	21,900	1
143260	11	M12	200 m	29,200	1
143262	11	M12	250 m	36,400	1
143264	11	M12	300 m	43,900	1

Cable pulling device KING

Cable pulling device KING with glass fibre rod Ø 14.5 mm and black PP coating, with steel winder Ø 1500 mm with wheels, including front/end sleeve M12 and front bulb with shackle M12

Art. no.	Ø		⟷	kg	PU
143270	14.5	M12	150 m	85,000	1
143272	14.5	M12	200 m	99,000	1
143274	14.5	M12	250 m	113,000	1
143276	14.5	M12	300 m	127,000	1
143278	14.5	M12	350 m	141,000	1
143280	14.5	M12	400 m	156,000	1

Cable pulling device, accessories

Front bulb with shackle M12

Art. no.		kg	PU
143180	M12	0,010	1

Guiding role made from aluminium M12

Art. no.		kg	PU
143182	M12	0,200	1

Guiding role made from aluminium, length 80 mm M12

Art. no.	Ø		Ø	⟷	kg	PU
143184	40	M12	80	80 m	0,220	1

Front/end sleeve M12 for 11 mm

Art. no.		kg	PU
143185	M12	0,004	1

Connection sleeve for probes

Art. no.	Ø	kg	PU
143188	9	0,150	1
143266	11	0,075	1

Connection sleeve with rotator

Art. no.	⟷		Ø	kg	PU
143190	83	M12	30	0,006	1

Pipe cleaning brush

Art. no.	Ø	kg	PU
143200	80	0,200	1
143202	97	0,098	1
143204	117	0,400	1

Cable grips for electrical installations

Hand-braided cable grips made from zinced steel braid with a flexible Towing ring with front unit M5 and integrally moulded Talurit ferrule.

Art. no.	Ø		⟷	kg	PU
143300	4 - 6	M5	200	0,009	1
143302	6 - 9	M5	210	0,013	1
143304	9 - 12	M5	350	0,024	1
143306	12 - 15	M5	350	0,029	1
143308	15 - 19	M5	350	0,200	1
143310	19 - 25	M5	400	0,052	1
143312	25 - 31	M5	400	0,400	1

Cord und cable grips

Art. no.	Ø	⟷	kg	PU
143336	10 - 15	2000	0,250	1
143338	15 - 20	2000	0,250	1
143340	20 - 30	2000	0,250	1
143342	30 - 40	2000	0,250	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Cable pulling device, accessories

Cable grips for subterraneous cable laying

Hand-braided cable grips made from zinced steel braid with 1 loop or 2 loops and integrally moulded Talurit ferrule.
Cable stocking with 2 loops enables, both the pulling of cables and the tightening of cables by way of relocating the stocking on the pulled cable.

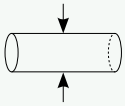
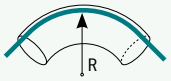
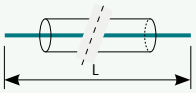
Art. no.	Ø			kg	PU
143314	15 - 20	1	1350	0,378	1
143318	20 - 30	1	1350	0,380	1
143322	30 - 40	1	1350	0,424	1
143326	40 - 50	1	13350	0,430	1
143330	50 - 60	1	1350	0,388	1
143334	60 - 80	1	1350	1,120	1

Cable grips for subterraneous cable laying

Hand-braided cable grips made from zinced steel braid with 1 loop or 2 loops and integrally moulded Talurit ferrule.
Cable stocking with 2 loops enables, both the pulling of cables and the tightening of cables by way of relocating the stocking on the pulled cable.

Art. no.	Ø			kg	PU
143316	10 - 20	2	1250	0,465	1
143320	20 - 30	2	1250	0,460	1
143324	30 - 40	2	1250	0,510	1
143328	40 - 50	2	1250	0,200	1
143332	50 - 65	2	1250	0,520	1

Legend cable pulling device

Rod diameter	Pipe diameter	Pushing energy	Min. bending radius	Breaking strength	Pulling strength with starting/ending	Advised length	
ø mm	ø mm	kg	mm	kg	kg	m	
							Page
FIBRE 3,0 mm	16-32	+++	160	400	110	20-30 (+ 2-3 m)	104
PullTec 4,0 mm	16-32	+++	100	300	130	10-30 (+ 3-5 m)	103
PullTec 5,2 mm	20-32	+++	100	350	140	10-40 (+ 3-5 m)	104
FOX 4,5 mm	40-60	+++	310	1200	170	20-40 (+ 3-5 m)	105
SIX 6,0 mm	50-80	++++	400	2000	230	30-60 (+ 3-5 m)	106
FIX 7,5 mm	63-100	++++	500	3200	290	40-70 (+ 3-5 m)	107
STRONG 9,0 mm	63-125	++++	620	4400	340	60-150 (+ 3-5 m)	109
POWER 11,0 mm	63-150	++++	770	6250	500	100-300 (+ 3-5 m)	109
KING 15,0 mm	100-250	++++	1150	15000	550	150-450 (+ 3-5 m)	109
PERLON® 3,0 mm	16	+	80	200	110	5-15 (+ 2-3 m)	102
SPIRAL 4,0 mm	20-32	+	180	115	115	10-25 (+ 3-5 m)	102

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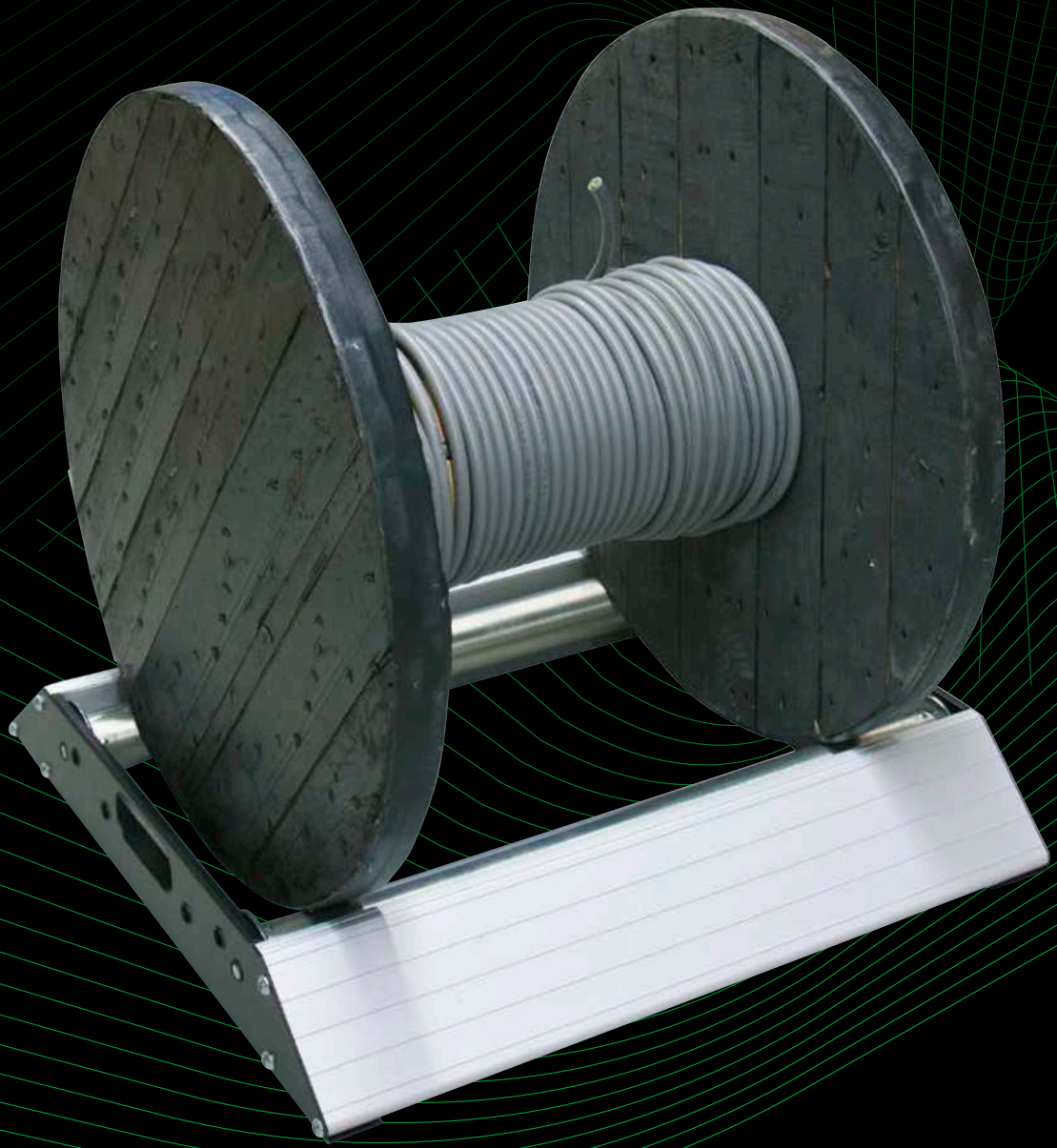
Decoiler



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Decoiler

Decoiler 600

The HAUPA decoiler have been designed for daily intensive use. The most important characteristics of this product are the ease of operation and the light weight. The side elements are made from galvanised powder-coated steel. The ball bearing drums can be adjusted without the need for specialist tools. Four vibration-damping feet prevent unwanted movement of the roller and protect the floor.

Technical data
Length: 350 mm
Width: 350 mm
Height: 105 mm

Art. no.	Drum/kg	Drum-Ø	Drum width	kg	PU
143398	50	600	330	3,500	1

Decoiler 1200

The HAUPA cable decoilers are developed for intensive use. Ease of use and a low weight are fundamental characteristics of this product. The front and the rear sides are made of anodized aluminum with antiskid ribs. For the left and the right side, sink steel with powder coating has been used. Because of this construction, the decoilers are strong, flexible to use, and resistant against heavy circumstances. The roles have bearings and a sliding axis, which make it easy to change the position of the roles without any special tools. Four antiskid buffers ensure that vibrations are subdued and floors remain intact.

Technical data
Length: 610 mm
Width: 570 mm
Height: 115 mm

Art. no.	Drum/kg	Drum-Ø	Drum width	kg	PU
143400 ✱	175	1200	560	9,000	1

Decoiler 1200 +

The HAUPA cable decoilers are developed for intensive use. Ease of use and a low weight are fundamental characteristics of this product. The front and the rear sides are made of anodized aluminum with antiskid ribs. For the left and the right side, sink steel with powder coating has been used. Because of this construction, the decoilers are strong, flexible to use, and resistant against heavy circumstances. The roles have bearings and a sliding axis, which make it easy to change the position of the roles without any special tools. Four antiskid buffers ensure that vibrations are subdued and floors remain intact.

Technical data
Length: 705 mm
Width: 670 mm
Height: 115 mm

Art. no.	Drum/kg	Drum-Ø	Drum width	kg	PU
143402	300	1200	660	10,500	1

Cable unwinder

4 box cable unwinder.

Carton size 240 x 240 x 60 mm

Art. no.	Drum/kg	kg	PU
143406	11	5,500	1

Cable unwinder

Length: 400 mm
Width: 400 mm
Height: 390 mm

VIDEO 143404

Art. no.	Drum/kg	Drum-Ø	kg	PU
143404	50	600	8,000	1

CableGo

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INFO

CableGo

An innovation in the cable pulling device technology

- suitable for all cable pulling devices
- quick and easy, with just one person
- reduced force expenditure
- no damage to cables, thus particularly suitable for cables in the field of data technology (for example, fiber optic cables)

Cable pulling device CableGo starter

Contents in plastic case:
1 x CableGo basic module + 3 guide brackets
1 x CableGo clamp
1 x CableGo mounting crossbar

Art. no.	set	kg	PU
143420	6	3,000	1

Cable pulling device CableGo profi

Contents in the plastic case:
3 x CableGo basic module + 3 guide brackets
3 x CableGo clamp
3 x CableGo mounting crossbar
1 x CableGo basic module connection set

VIDEO 143422

Art. no.	set	kg	PU
143422	14	5,000	1

Cable pulling device CableGo master

Contents in the plastic case:
5 x CableGo basic module + 3 guide brackets
5 x CableGo clamps
5 x CableGo mounting crossbars
1 x CableGo basic module connection set

Art. no.	set	kg	PU
143424	17	7,000	1

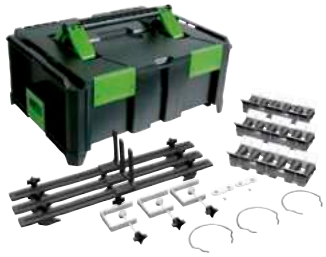
SysCon cable pulling device CableGo starter

Contents in SysCon stacking box Art. 220372:
1 x CableGo basic module + 3 guide brackets
1 x CableGo clamp
1 x CableGo mounting bracket

Art. no.	set	kg	PU
143430	6	3,700	1

SysCon cable pulling device CableGo profi

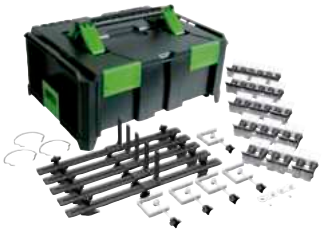
Contents in SysCon stacking box art. 220372:
3 x CableGo basic module + 3 guide brackets
3 x CableGo clamps
3 x CableGo mounting crossbar
1 x CableGo basic module connection set



Art. no.	set	kg	PU
143432	14	5,700	1

SysCon cable pulling device CableGo master

Contents in SysCon stacking box art. 220372:
5 x CableGo basic module + 3 guide brackets
5 x CableGo clamps
5 x CableGo fastening crossbars
1 x CableGo basic module connection set



Art. no.	set	kg	PU
143434	17	7,700	1

Basic module CableGo + 3 wire brackets

Basic module to facilitate cable feed-throughs in corners and curves.

Art. no.	set	kg	PU
143440	4	0,495	1

Table clamp CableGo

Clamping rails for fastening the base modules.

Art. no.	kg	PU
143441	0,085	1

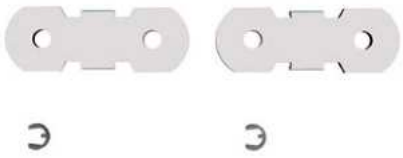
Mounting bracket CableGo

Fixing crossbar for fixing the base modules.

Art. no.	set	kg	PU
143442	7	0,350	1

Connection set basic module CableGo

Connection set for connecting several basic modules.

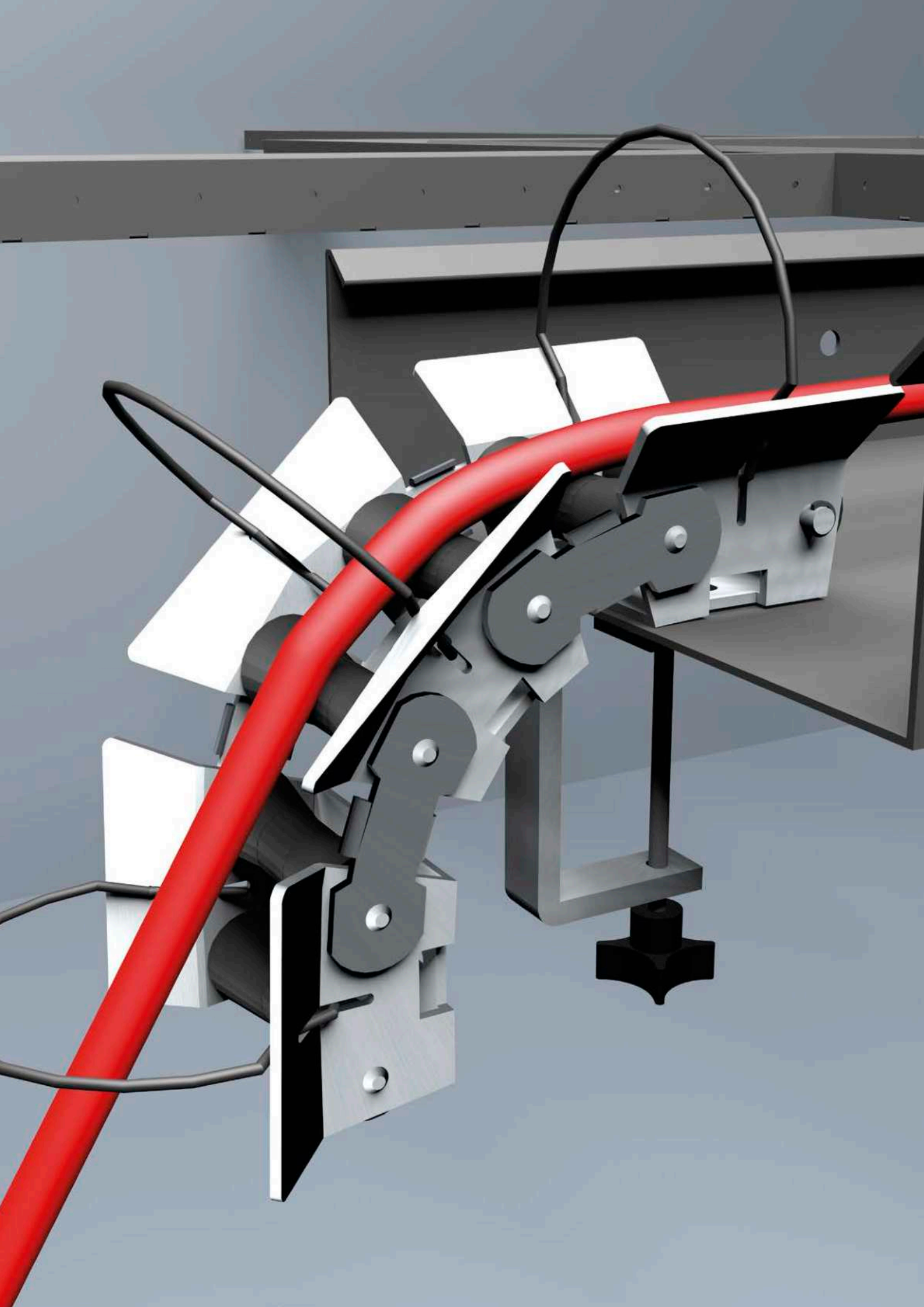


Art. no.	set	kg	PU
143443	2	0,010	1

Set 3 wire brackets CableGo

Wire brackets for basic modules.

Art. no.	set	kg	PU
143444	3	0,045	1



Connecting clamps

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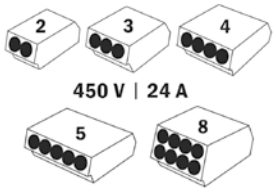
RoHS

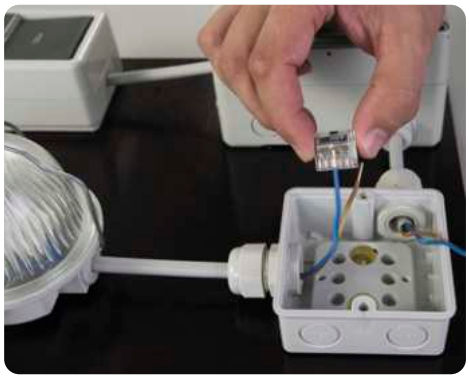
Connecting clamps, Nylon

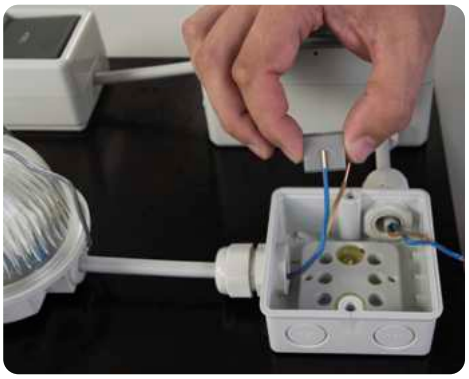
Nylon

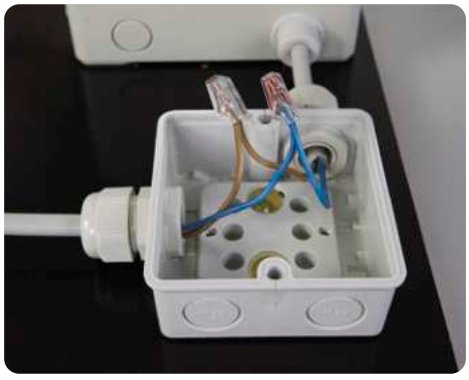
• Connecting clamps, 2-5 pin, Nylon

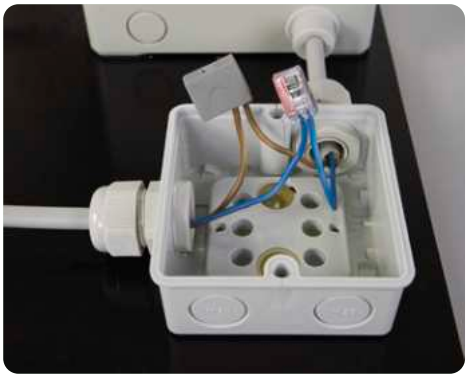
Art. no.	CSS	Pol	Volt	A	kg/100	PU
265033	**1 - 2,5**	2	450	24	0,130	100
265034	**1 - 2,5**	3	450	24	0,130	100
265035	**1 - 2,5**	4	450	24	0,130	100
265036	**1 - 2,5**	5	450	24	0,130	100











End sleeves

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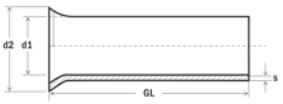
RoHS

End sleeves

Cu

- of electrolytic copper, bare
- Dimensions to DIN 46228, Part 1



Art. no.	CSS	d1	d2	s	⟷	kg/100	PU
270141	**0,34**	0,85	1,8	0,15	5	0,0028	1000
270140/500	**0,5**	1	2,1	0,15	6	0,0020	500
270142	**0,75**	1,2	2,3	0,15	6	0,0050	1000
270142/500		1,2	2,3	0,15	6	0,0030	500
270143		1,2	2,3	0,15	10	0,0050	1000
270143/500		1,2	2,3	0,15	10	0,0050	500
270144		1,2	2,3	0,15	12	0,0070	1000
270146	**1**	1,4	2,5	0,15	6	0,0050	1000
270146/500		1,4	2,5	0,15	6	0,0040	500
270148		1,4	2,5	0,15	10	0,0070	1000
270148/500		1,4	2,5	0,15	10	0,0060	500
270149		1,4	2,5	0,15	12	0,0090	1000
270149/500		1,4	2,5	0,15	12	0,0090	500
270150	**1,5**	1,7	2,8	0,15	7	0,0050	1000
270150/500		1,7	2,8	0,15	7	0,0050	500
270152		1,7	2,8	0,15	10	0,0090	1000
270152/500		1,7	2,8	0,15	10	0,0080	500
270154		1,7	2,8	0,15	12	0,012	1000
270154/500		1,7	2,8	0,15	12	0,0090	500
270156		1,7	2,8	0,15	18	0,014	1000
270156/500		1,7	2,8	0,15	18	0,014	500
270158	**2,5**	2,5	3,4	0,15	7	0,0080	1000
270158/500		2,5	3,4	0,15	7	0,010	500
270159		2,5	3,4	0,15	10	0,013	1000
270159/500		2,5	3,4	0,15	10	0,013	500
270160		2,5	3,4	0,15	12	0,012	1000
270160/500		2,5	3,4	0,15	12	0,011	500
270164	**4**	2,8	4	0,2	9	0,018	1000
270164/500		2,8	4	0,2	9	0,014	500
270166		2,8	4	0,2	12	0,019	1000
270166/500		2,8	4	0,2	12	0,018	500
270168		2,8	4	0,2	18	0,030	1000
270168/500		2,8	4	0,2	18	0,030	500
270170	**6**	3,5	4,7	0,2	10	0,020	250
270172		3,5	4,7	0,2	12	0,022	250
270174		3,5	4,7	0,2	15	0,034	250
270176		3,5	4,7	0,2	18	0,034	250
270178	**10**	4,5	5,8	0,2	12	0,028	250
270180		4,5	5,8	0,2	15	0,054	250
270182		4,5	5,8	0,2	18	0,040	250
270184	**16**	5,8	7,5	0,2	12	0,045	250
270186		5,8	7,5	0,2	15	0,057	250
270188		5,8	7,5	0,2	18	0,059	250
270190	**25**	7,3	9,5	0,2	12	0,058	250
270192		7,3	9,5	0,2	18	0,080	250
270194	**35**	8,3	11	0,2	18	0,114	100
270195		8,3	11	0,2	20	0,108	100
270196		8,3	11	0,2	22	0,100	100
270198		8,3	11	0,2	26	0,110	100

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

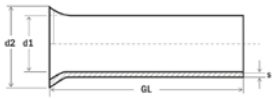
* Bestseller Premium product

RoHS

End sleeves

Cu

- of electrolytic copper, tin-plated
- Dimensions to DIN 46228, Part 1



Art. no.	CSS	d1	d2	s	⟷	kg/100	PU
270066	**0,25**	0,75	1,7	0,15	5	0,0030	1000
270066/500		0,75	1,7	0,15	5	0,0015	500
270068	**0,34**	0,85	1,8	0,15	5	0,0028	1000
270068/500		0,85	1,8	0,15	5	0,0014	500
270070	**0,5**	1	2,1	0,15	6	0,0031	1000
270070/500		1	2,1	0,15	6	0,0031	500
270072	**0,75**	1,2	2,3	0,15	6	0,0034	1000
270072/500		1,2	2,3	0,15	6	0,0025	500
270074		1,2	2,3	0,15	12	0,0073	1000
270074/500		1,2	2,3	0,15	12	0,0034	500
270076	**1**	1,4	2,5	0,15	6	0,0041	1000
270077		1,4	2,5	0,15	8	0,0054	1000
270078		1,4	2,5	0,15	10	0,0068	1000
270078/500		1,4	2,5	0,15	10	0,0033	500
270079		1,4	2,5	0,15	12	0,0078	1000
270079/500		1,4	2,5	0,15	12	0,0042	500
270080	**1,5**	1,7	2,8	0,15	7	0,0060	1000
270082		1,7	2,8	0,15	10	0,0085	1000
270082/500		1,7	2,8	0,15	10	0,0045	500
270084		1,7	2,8	0,15	12	0,0101	1000
270084/500		1,7	2,8	0,15	12	0,0052	500
270086		1,7	2,8	0,15	18	0,010	1000
270086/500		1,7	2,8	0,15	18	0,010	500
270087		1,7	2,8	0,15	20	0,0177	1000
270088	**2,5**	2,2	3,4	0,15	7	0,0079	1000
270089		2,2	3,4	0,15	10	0,017	1000
270089/500		2,2	3,4	0,15	10	0,017	500
270090		2,2	3,4	0,15	12	0,011	1000
270090/500		2,2	3,4	0,15	12	0,011	500
270091		2,2	3,4	0,15	15	0,015	1000
270091/500		2,2	3,4	0,15	15	0,015	500
270092		2,2	3,4	0,15	18	0,023	1000
270092/500		2,2	3,4	0,15	18	0,023	500
270093		2,2	3,4	0,15	20	0,020	1000
270093/500		2,2	3,4	0,15	20	0,020	500
270094	**4**	2,8	4	0,2	9	0,015	1000
270096		2,8	4	0,2	12	0,020	1000
270097		2,8	4	0,2	15	0,024	1000
270098		2,8	4	0,2	18	0,030	1000
270100	**6**	3,5	4,7	0,2	10	0,020	250
270102		3,5	4,7	0,2	12	0,024	250
270104		3,5	4,7	0,2	15	0,031	250
270106		3,5	4,7	0,2	18	0,036	250
270107		3,5	4,7	0,2	20	0,040	250
270108	**10**	4,5	5,8	0	12	0,032	250
270110		4,5	5,8	0,2	15	0,039	250
270112		4,5	5,8	0,2	18	0,045	250
270114	**16**	5,8	7,5	0,2	12	0,044	250
270116		5,8	7,5	0,2	15	0,056	250
270118		5,8	7,5	0,2	18	0,068	250
270119		5,8	7,5	0,2	24	0,104	250
270120	**25**	7,3	9,5	0,2	12	0,063	250
270121		7,3	9,5	0,2	15	0,075	250
270122		7,3	9,5	0,2	18	0,085	250
270123		7,3	9,5	0,2	25	0,121	50
270124	**35**	8,3	11	0,2	18	0,112	100
270126		8,3	11	0,2	22	0,132	100
270128		8,3	11	0,2	25	0,143	100
270131	**50**	10,3	13	0,3	22	0,202	100
270132	**70**	12,5	15	0,4	25	0,259	100
270134	**95**	14,5	17	0,4	30	0,500	50
270135	**120**	16,5	19	0,5	32	0,660	50
270136	**150**	18,5	21	0,5	38	0,529	50
270137	**185**	20	23,5	0,6	40	1,350	25

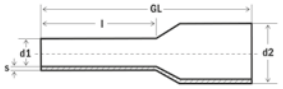
End sleeves

RoHS

End sleeves, colour range I, (french)

Cu

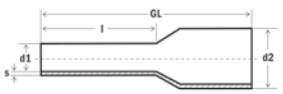
- insulated
- Electrolytic copper, tin-plated
- Dimensions to DIN 46228. Part 4
- Colour range I, french



Art. no.	CSS	Color	d1	d2	s	↔	l	kg/100	PU
270800 ✷	**0,5**	white	1,1	3,1	0,15	14	8	0,010	100
270801		white	1,1	3,1	0,15	14	8	0,010	500
270802	**0,75**	grey	1,25	3,3	0,15	14	8	0,010	500
270803 ✷		grey	1,25	3,3	0,15	14	8	0,010	100
272803		grey	1,2	2,8	0,15	16	10	0,013	100
270804	**1**	red	1,5	3,5	0,15	14,6	8	0,010	100
270805		red	1,5	3,5	0,15	14,6	8	0,010	500
272804		red	1,4	3	0,15	16	10	0,013	100
270806		red	1,5	3,5	0,15	18	12	0,010	500
270807	**1,5**	black	1,7	4	0,15	14,6	8	0,010	500
270808 ✷		black	1,7	4	0,15	14,6	8	0,010	100
270809		black	1,7	4	0,15	14,6	10	0,010	500
270810 ✷	**2,5**	blue	2,3	4,9	0,15	15	8	0,020	100
270811		blue	2,3	4,9	0,15	15	8	0,020	500
270812		blue	2,3	4,9	0,15	16,5	10	0,020	500
272812		blue	2,3	4,9	0,15	17,4	10	0,013	100
270813		blue	2,3	4,9	0,15	25	18	0,030	500
270814 ✷	**4**	grey	2,9	5,6	0,2	17,7	10	0,030	100
270815		grey	2,9	5,6	0,2	17,7	10	0,030	500
270816		grey	2,9	5,6	0,2	25,7	18	0,040	100
270818 ✷	**6**	yellow	3,6	7	0,2	20	12	0,050	100
270820		yellow	3,6	7	0,2	26	18	0,060	100
270822 ✷	**10**	red	4,6	8,4	0,2	21,5	12	0,060	100
270824		red	4,6	8,4	0,2	27,5	18	0,070	100
270826 ✷	**16**	blue	6	9,6	0,2	22,2	12	0,080	100
270828		blue	6	9,6	0,2	28,2	18	0,100	100
270830 ✷	**25**	yellow	7,3	12	0,2	30	16	0,140	50
270832		yellow	7,3	12	0,2	32	18	0,150	50
270834		yellow	7,3	12	0,2	36	22	0,170	50
270836 ✷	**35**	red	8,3	13,5	0,2	30	16	0,170	50
270838		red	8,3	13,5	0,2	32	18	0,180	50
270840		red	8,3	13,5	0,2	39	25	0,220	50
270842 ✷	**50**	blue	10,3	15	0,3	36	20	0,340	50
270844		blue	10,3	15	0,3	40	25	0,400	50
270762	**70**	yellow	13,5	17,2	0,4	37	21	0,540	25
270859	**95**	red	14,8	15,6	0,4	44	25	0,600	10
270861	**120**	blue	16,7	17,7	0,5	47,6	27	0,780	10
270863	**150**	yellow	19,6	20,6	0,5	57,6	32	1,230	10

End sleeves colour range III, DIN SmallPack

- insulated
- Electrolytic copper, tin-plated
- Dimensions to DIN 46228. Part 4
- DIN colour range III



Art. no.	CSS	Color	d1	d2	s	↔	l	kg/100	▭	PU
270800/25	**0,5**	white	1,1	3,1	0,15	14	8	0,010	250	25
270803/25	**0,75**	grey	1,25	3,3	0,15	14	8	0,010	250	25
270804/25	**1**	red	1,5	3,5	0,15	14,6	8	0,010	250	25
270808/25	**1,5**	black	1,7	4	0,15	14,6	8	0,010	250	25
270810/25	**2,5**	blue	2,3	4,9	0,15	15	8	0,010	250	25
270814/25	**4**	grey	2,9	5,6	0,2	17,7	10	0,010	250	25
270818/10	**6**	yellow	3,6	7	0,2	20	12	0,010	100	10
270822/10	**10**	red	4,6	8,4	0,2	21,5	12	0,010	100	10
270826/10	**16**	blue	6	9,6	0,2	22,2	12	0,010	100	10
270830/5	**25**	yellow	7,3	12	0,2	30	16	0,010	50	5
270836/5	**35**	red	8,3	13,5	0,2	30	16	0,010	50	5

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

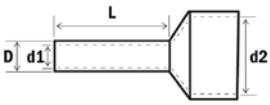
✷ Bestseller Premium product

RoHS

End sleeves for short-circuit-proof cables

Cu

- for short-circuit-proof cables with extra thick insulation (NSFGAFÖU) Application: Infeed or branches in front of mains switch, in switching stations, distributors or with rail vehicles, solar heating units, ignition cables

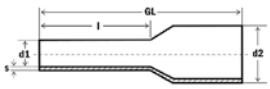


Art. no.	CSS	Color	d1	d2	l	kg/100	PU
270900	**1,5**	black	1,8	6,8	8	0,030	100
270902		black	1,8	6,8	10	0,020	100
270904	**2,5**	blue	2,3	7,8	8	0,033	100
270906		blue	2,3	7,8	12	0,040	100
270908	**4**	grey	2,9	7,8	10	0,046	100
270910	**6**	yellow	3,8	7,3	12	0,062	100
270912	**10**	red	4,5	9,8	12	0,081	100
270914	**16**	blue	6	12,2	12	0,110	100

End sleeves, colour range I, (french)

Cu

- insulated
- Electrolytic copper, tin-plated
- Dimensions to DIN 46228. Part 4
- Colour range I, french



Art. no.	CSS	Color	d1	d2	s	⟷	l	kg/100	PU
270014	**0,25**	yellow	0,8	2,3	0,15	10,4	6	0,010	100
270015		yellow	0,8	2,3	0,15	10,4	6	0,020	500
270016	**0,34**	green	0,8	2,5	0,15	12,4	6	0,020	500
270800 ✸	**0,5**	white	1,1	3,1	0,15	14	8	0,010	100
270801		white	1,1	3,1	0,15	14	8	0,010	500
270021	**0,75**	blue	1,25	3,3	0,15	14,5	8	0,020	100
270022		blue	1,25	3,3	0,15	14,5	8	0,020	500
270804	**1**	red	1,5	3,5	0,15	14,6	8	0,010	100
270805		red	1,5	3,5	0,15	14,6	8	0,010	500
270808 ✸	**1,5**	black	1,7	4	0,15	14,6	8	0,010	100
270027		black	1,7	4	0,15	24,4	18	0,020	100
270028		black	1,7	4	0,15	24,4	18	0,020	500
270029	**2,5**	grey	2,3	4,9	0,15	15	8	0,020	100
270030		grey	2,3	4,9	0,15	15	8	0,020	500
270031		grey	2,3	4,9	0,15	21	18	0,030	100
270032		grey	2,3	4,9	0,15	21	18	0,030	500
270033	**4**	orange	2,9	5,6	0,2	17,7	10	0,030	100
270034		orange	2,9	5,6	0,2	17,7	10	0,030	500
270036		orange	2,9	5,6	0,2	25,7	18	0,040	100
270038	**6**	green	3,6	7	0,2	20	12	0,040	100
270040		green	3,6	7	0,2	26	18	0,070	100
270042	**10**	brown	4,6	8,4	0,2	21,5	12	0,050	100
270044		brown	4,6	8,4	0,2	27,5	18	0,070	100
270046	**16**	ivory	6	9,6	0,2	24,2	12	0,080	100
270048		ivory	6	9,6	0,2	28,2	18	0,100	100
270049	**25**	black	7,3	12	0,2	30	16	0,070	50
270050		black	7,3	12	0,2	32	18	0,080	50

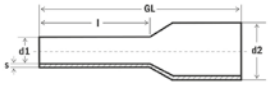
End sleeves

RoHS

End sleeves, colour range II, (german)

Cu

- insulated
- Electrolytic copper, tin-plated
- Colour range II, german

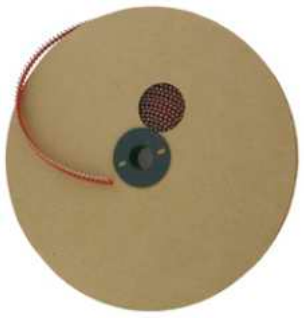


Art. no.	CSS	Color	d1	d2	s	⟷	l	kg/100	PU
270714	**0,25**	blue	0,8	2,3	0,15	10,4	6	0,010	100
270715		blue	0,8	2,3	0,15	10,4	6	0,010	500
270716	**0,34**	blue	0,8	2,5	0,15	10,4	6	0,010	500
270719	**0,5**	orange	1,1	3,1	0,15	14	8	0,010	100
270720		orange	1,1	3,1	0,15	14	8	0,010	500
270721	**0,75**	white	1,25	3,3	0,15	14,6	8	0,010	100
270722		white	1,25	3,3	0,15	14,6	8	0,010	500
272721		white	1,2	2,8	0,15	16	10	0,013	100
270723	**1**	yellow	1,5	3,5	0,15	14,6	8	0,010	100
270724		yellow	1,5	3,5	0,15	14,6	8	0,010	500
272723		yellow	1,4	3	0,15	16	10	0,013	100
270725	**1,5**	red	1,7	4	0,15	14,6	8	0,020	100
270726		red	1,7	4	0,15	14,6	8	0,010	500
272725		red	1,7	3,5	0,15	16	10	0,013	100
270727		red	1,7	4	0,15	24,4	18	0,020	100
270728		red	1,7	4	0,15	24,4	18	0,020	500
270810 ✷	**2,5**	blue	2,3	4,9	0,15	15	8	0,020	100
270811		blue	2,3	4,9	0,15	15	8	0,020	500
270812		blue	2,3	4,9	0,15	16,5	10	0,020	500
272812		blue	2,3	4,9	0,15	17,4	10	0,013	100
270813		blue	2,3	4,9	0,15	25	18	0,030	500
270814 ✷	**4**	grey	2,9	5,6	0,2	17,7	10	0,030	100
270815		grey	2,9	5,6	0,2	17,7	10	0,030	500
270816		grey	2,9	5,6	0,2	25,7	18	0,040	100
270738	**6**	black	3,6	7	0,2	20	12	0,050	100
270740		black	3,6	7	0,2	26	18	0,060	100
270742	**10**	ivory	4,6	8,4	0,2	21,5	12	0,070	100
270744		ivory	4,6	8,4	0,2	27,5	18	0,080	100
270746	**16**	green	6	9,6	0,2	22,2	12	0,080	100
270748		green	6	9,6	0,2	28,2	18	0,100	100
270750	**25**	brown	7,3	11,2	0,2	29	16	0,130	50
270754	**35**	beige	8,3	12,7	0,2	30	16	0,170	50
270756		beige	8,3	12,7	0,2	39	25	0,400	50
270758	**50**	ivory	10,3	15	0,3	36,4	20	0,330	25
270760		ivory	10,3	15	0,3	41	25	0,300	25
270762	**70**	yellow	13,5	17,2	0,4	37	21	0,540	25

Punteras en rollos, serie de color III, DIN 46228 P. 4

Cu

- aisladas
- Cobre/Plástico, superficie estañada
- DIN 46228 T 4



Art. no.	CSS	Color	l		kg/100	PU
272250	**0,5**	white	8	**Ø 250 mm**	0,010	3000
272254	**0,75**	grey	8	**Ø 250 mm**	0,030	3000
272260	**1**	red	8	**Ø 250 mm**	0,010	3000
272264	**1,5**	black	8	**Ø 250 mm**	0,010	2500
272268	**2,5**	blue	8	**Ø 250 mm**	0,010	1500

End sleeves in tape form, to DIN 46228 P. 4

- insulated
- Copper/plastic, tin-plated surface

Art. no.	CSS	Color	l		kg/100	PU
272280	**0,5**	white	8	**150x150x18 mm**	0,010	1000
272284	**0,75**	grey	8	**150x150x18 mm**	0,010	1000
272290	**1**	red	8	**150x150x18 mm**	0,010	1000
272294	**1,5**	black	8	**150x150x18 mm**	0,010	1000
272298	**2,5**	blue	8	**150x150x18 mm**	0,010	500

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller

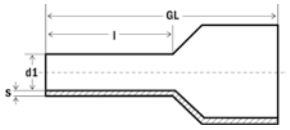
Premium product

RoHS

Twin-end sleeves two cables DIN

Cu

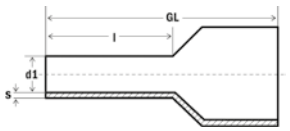
- tube section of electrolytic copper
- galvanically tin-plated
- plastic collar of PP
- heat-resistant to 105°C



Art. no.	CSS	Color	d1	s	⟷	l	kg/100	PU
270778 ✷	**0,5**	white	1,5	0,15	15	8	0,010	100
270780 ✷	**0,75**	grey	1,8	0,15	15	8	0,010	100
270782		grey	1,8	0,15	17	10	0,010	100
270784 ✷	**1**	red	2,05	0,15	15	8	0,010	100
270787		red	2,05	0,15	17	10	0,020	100
270788 ✷	**1,5**	black	2,3	0,15	16	8	0,020	100
270790		black	2,3	0,15	20	12	0,020	100
270792 ✷	**2,5**	blue	2,9	0,2	18,5	10	0,030	100
270794 ✷		blue	2,9	0,2	21,5	13	0,030	100
270796 ✷	**4**	grey	3,8	0,2	23	12	0,050	100
270797 ✷	**6**	yellow	4,9	0,2	25	14	0,070	100
270798 ✷	**10**	red	6,5	0,2	26	14	0,090	100
270799 ✷	**16**	blue	8,3	0,2	31	16	0,080	50

Twin-end sleeves two cables DIN SmallPack

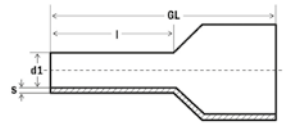
- tube section of electrolytic copper
- galvanically tin-plated
- plastic collar of PP
- heat-resistant to 105°C



Art. no.	CSS	Color	d1	s	⟷	l	kg/100	▭	PU
270778/25	**0,5**	white	1,5	0,15	15	8	0,011	250	25
270780/25	**0,75**	grey	1,8	0,15	15	8	0,011	250	25
270784/25	**1**	red	2,05	0,15	15	8	0,011	250	25
270788/25	**1,5**	black	2,3	0,15	16	8	0,011	250	25
270792/25	**2,5**	blue	2,9	0,2	18,5	10	0,011	250	25
270796/10	**4**	grey	3,8	0,2	23	12	0,011	100	10
270797/10	**6**	yellow	4,9	0,2	25	14	0,011	100	10
270798/5	**10**	red	6,5	0,2	26	14	0,011	100	5
270799/5	**16**	blue	8,3	0,2	31	16	0,011	50	5

Twin-end sleeves two cables, colour range I, (french)

- tube section of electrolytic copper
- galvanically tin-plated
- plastic collar of PP
- heat-resistant to 105°C



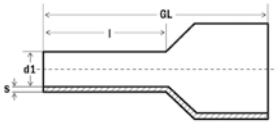
Art. no.	CSS	Color	d1	s	⟷	l	kg/100	PU
273400	**0,75**	blue	1,8	0,15	15	8	0,010	100
273402		blue	1,8	0,15	17	10	0,010	100
270788 ✷	**1,5**	black	2,3	0,15	16	8	0,020	100
270790		black	2,3	0,15	20	12	0,020	100
273404	**2,5**	grey	2,9	0,2	18,5	10	0,030	100
273406		grey	2,9	0,2	21,5	13	0,030	100
273408	**4**	orange	3,8	0,2	23	12	0,050	100
273410	**6**	green	6,5	0,2	26	14	0,070	100
273412	**10**	brown	6,5	0,2	26	14	0,090	100
273414	**16**	white	8,5	0,2	31	16	0,080	50

RoHS

Twin-end sleeves, colour series II (German)

Cu

- insulated
- Copper/plastic, tin-plated surface
- Colour range II, german



Art. no.	CSS	Color	d1	s	⟷	l	kg/100	PU
273350	**0,5**	orange	1,5	0,15	15	8	0,031	100
273352	**0,75**	white	1,8	0,15	15	8	0,031	100
273354		white	1,8	0,15	17	10	0,031	100
273356	**1**	yellow	2,05	0,15	15	8	0,031	100
273358		yellow	1,7	0,15	17	12	0,031	100
273360	**1,5**	red	2,3	0,15	16	8	0,031	100
273362		red	2,3	0,15	20	12	0,031	100
273392	**2,5**	blue	2,9	0,2	18,5	10	0,029	100
273394		blue	2,9	0,2	21,5	13	0,029	100
273396	**4**	grey	3,8	0,2	23	12	0,049	100
273364	**6**	black	4,9	0,2	25	14	0,031	100
273366	**10**	ivory	6,5	0,2	26	14	0,031	100
273368	**16**	green	8,3	0,2	31	16	0,031	50

RoHS

Empty dispenser box

Art. no.	quantity	kg	PU
270870	0	0,049	5

Dispenser box with uninsulated end sleeves

Contents: tín-plated end sleeves
700 pcs. 0.5 mm², art. 270070
1000 pcs. 0.75 mm², art. 270072
800 pcs. 1.0 mm², art. 270076
500 pcs. 1.5 mm², art. 270080
450 pcs. 2.5 mm², art. 270088

Art. no.	quantity	kg	PU
270217	3450	0,240	1

Dispenser box with uninsulated end sleeves

Contents: tín-plated end sleeves
200 pcs. 4 mm², art. 270094
100 pcs. 6.0 mm², art. 270102
50 pcs. 10.0 mm², art. 270108
50 pcs. 16.0 mm², art. 270114

Art. no.	quantity	kg	PU
270218	395	0,158	1

Dispenser box with insulated end sleeves (DIN)

Contents: Colour range III, DIN
50 pcs. white, 0.5 mm², art. 270800
100 pcs. grey, 0.75 mm², art. 270802
100 pcs. red, 1.0 mm², art. 270804
100 pcs. black, 1.5 mm², art. 270807
50 pcs. blue, 2.5 mm², art. 270810

Art. no.	quantity	kg	PU
270854 ✷	400	0,090	1

Dispenser box with insulated end sleeves (DIN)

Contents: Colour range III, DIN
50 pcs. grey, 4 mm², art. 270815
20 pcs. yellow, 6 mm², art. 270818
20 pcs. red, 10 mm², art. 270822
10 pcs. blue, 16 mm², art. 270826

Art. no.	quantity	kg	PU
270858	100	0,089	1

Dispenser box with Twin end sleeves (DIN)

Contents:
50 pcs. grey, 0.75 mm², art. 270780
50 pcs. red, 1.0 mm², art. 270784
50 pcs. black, 1.5 mm², art. 270788
50 pcs. blue, 2.5 mm², art. 270792

Art. no.	quantity	kg	PU
270795 ✷	200	0,080	1

Dispenser box with insulated end sleeves (german)

Contents: Colour range II
50 pcs. orange, 0.5 mm², art. 270719
100 pcs. white, 0.75 mm², art. 270721
100 pcs. yellow, 1.0 mm², art. 270723
100 pcs. red, 1.5 mm², art. 270725
50 pcs. blue, 2.5 mm², art. 270810

Art. no.	quantity	kg	PU
270852	400	0,089	1

Dispenser box with insulated end sleeves (german)

Contents: Colour range II
50 pcs. grey, 4 mm², art. 270814
20 pcs. black, 6 mm², art. 270738
20 pcs. ivory, 10 mm², art. 270742
10 pcs. green, 16 mm², art. 270746

Art. no.	quantity	kg	PU
270856	100	0,087	1

Dispenser box with insulated end sleeves (french)

Contents: Colour range I
50 pcs. white, 0.5 mm², art. 270800
100 pcs. blue, 0.75 mm², art. 270021
100 pcs. red, 1.0 mm², art. 270804
100 pcs. black, 1.5 mm², art. 270808
50 pcs. grey, 2.5 mm², art. 270029

Art. no.	quantity	kg	PU
270850	400	0,090	1

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... convincing solutions

RoHS

Slide Box with DIN end sleeves

The transparent sliding lids enable easy access and prevent the contents from becoming mixed up.
Product features:
Handy plastic box with Euro holes, 5 separate compartments, simple access through sliding lids, no mixing of contents.
Dimensions: 165 x 58 x 38 mm (L x W x H)
Content: Colour range III DIN
50 pcs white, 0.5 mm², art. 270800
100 pcs. grey, 0.75 mm², art. 270802
100 pcs. red, 1.0 mm², art. 270804
100 pcs. black, 1.5 mm², art. 270807
50 pcs. blue, 2.5 mm², art. 270810

Art. no.	quantity	kg	PU
270864	400	0,109	1
270866	225	0,104	1

Assortments of wire-end sleeves

Content: 5.000 insulated wire-end sleeves, 1 crimping pliers (21 08 04), crimping range 0,08 – 10 mm² in plastic bulk storage chest 415 x 335 x 90 mm.
100 Twin end sleeves 8/0,5, white, art. 270778
100 Twin end sleeves 8/0,75, grey, art. 270780
100 Twin end sleeves 8/1, red, art. 270784
100 Twin end sleeves 8/1,5, black, art. 270788
100 Twin end sleeves 10/2,5, blue, art. 270792
100 Twin end sleeves 12/4,0, grey, art. 270796
100 Twin end sleeves 14/6,0, yellow, art. 270797
500 insulated end sleeves 8/0,5, white, art. 270801
500 insulated end sleeves 8/0,75, grey, art. 270802
1.000 insulated end sleeves 8/1, red, art. 270805
1.000 insulated end sleeves 8/1,5, black, art. 270807
500 insulated end sleeves 8/2,5, blue, art. 270811
500 insulated end sleeves 10/4, grey, art. 270815
200 insulated end sleeves 12/6, yellow, art. 270818
200 insulated end sleeves 12/10, red, art. 270822

Art. no.	quantity	type	kg	PU
270888	5100	DIN	2,150	1
270890	5100	II	2,150	1

Assortments of wire-end sleeves

Content: 5.300 insulated wire-end sleeves, 1 crimping pliers (21 08 42), crimping range 1 – 10 mm², in plastic bulk storage chest 415 x 335 x 90 mm.
1.000 insulated end sleeves 8/1, red, art. 270805
1.000 insulated end sleeves 8/1,5, black, art. 270807
1.000 insulated end sleeves 8/2,5, blue, art. 270811
500 insulated end sleeves 10/4, grey, art. 270815
200 insulated end sleeves 12/6, yellow, art. 270818
200 insulated end sleeves 12/10, red, art. 270822
500 insulated end sleeves 12/1, red, art. 270806
300 insulated end sleeves 18/1,5, black, art. 270027
250 insulated end sleeves 18/2,5, blue, art. 270813
200 insulated end sleeves 18/4, grey, art. 270816
100 insulated end sleeves 18/6, yellow, art. 270820
50 insulated end sleeves 18/10, red, art. 270824

Art. no.	quantity	type	kg	PU
270891	5300	DIN	2,100	1
270892	5300	I	2,100	1
270893	5300	II	2,100	1

End sleeve assortment – serie DIN

Content: 1.150 insulated end sleeves
crimping pliers (art. no. 210824), crimp 0,75 - 16,0 mm², in plastic bulk storage chest 415 x 335 x 90 mm.
200 insulated end sleeves 8/0,75, grey, art. 270803
200 insulated end sleeves 8/1, red, art. 270804
200 insulated end sleeves 8/1,5, black, art. 270808
200 insulated end sleeves 8/2,5, blue, art. 270810
100 insulated end sleeves 10/4, grey, art. 270814
100 insulated end sleeves 12/6, yellow, art. 270818
100 insulated end sleeves 18/10, red, art. 270824
50 insulated end sleeves 18/16, blue, art. 270828

Art. no.	quantity	type	kg	PU
270882/DIN	1150	DIN	1,740	1
270882	1150	I	1,700	1
270894	1150	II	2,150	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

RoHS

End sleeve assortment – serie DIN

Content: 4.700 insulated end sleeves, in plastic bulk storage chest 415 x 335 x 90 mm.
100 Twin end sleeves 8/0,5, white, art. 270778
100 Twin end sleeves 8/0,75, grey, art. 270780
100 Twin end sleeves 8/1, red, art. 270784
100 Twin end sleeves 8/1,5, black, art. 270788
100 Twin end sleeves 10/2,5, blue, art. 270792
100 Twin end sleeves 12/4, grey, art. 270796
100 Twin end sleeves 14/6, yellow, art. 270797
100 Twin end sleeves 14/10, red, art. 270798
500 insulated end sleeves 8/0,5, white, art. 270801
500 insulated end sleeves 8/0,75, grey, art. 270802
500 insulated end sleeves 8/1, red, art. 270805
1000 insulated end sleeves 8/1,5, black, art. 270807
500 insul. end sleeves 8/2,5, blue, art. 270811
500 insulated end sleeves 10/4, grey, art. 270815
200 insul. end sl. 10/6, yellow, art. 270818
200 insul. end sl. 12/10, red, art. 270822

Art. no.	quantity	kg	PU
270899	4700	2,150	1

Assortment for Combi-Crimp

Content: 1 crimping pliers (210784) for insulated terminals 0,5 - 2,5 mm² and end sleeves 0,5 - 6 mm², 2.700 insulated end sleeves, 1.100 insulated terminals in plastic bulk storage chest 415 x 335 x 90 mm.
500 insulated end sleeves 0,5/8, white, art. 270801
500 insulated end sleeves 0,75/8, grey, art. 270802
500 insulated end sleeves 1/8, red, art. 270805
500 insulated end sleeves 1,5/8, black, art. 270807
500 insulated end sleeves 2,5/8, blue, art. 270811
100 insulated end sleeves 4/10, grey, art. 270814
100 insulated end sleeves 6/12, yellow, 270818
200 insulated butt connectors 0,25-1,5, art. 260350
200 insulated butt connectors 1,5-2,5, art. 260352
100 insulated socket sleeves 0,25-1,5/6,3x0,8, art. 260392
100 insulated socket sleeves 1,5-2,5/6,3x0,8, art. 260394
100 insulated ring terminals 0,25-1,5, M5, art. 260258
100 insulated ring terminals 1,5-2,5, M4, art. 260270
100 insulated ring terminals 1,5-2,5, M5, art. 260272
100 insulated ring terminals 1,5-2,5, M6, art. 260274
100 insulated ring terminals 0,25-1,5, M4, art. 260256

Art. no.	quantity	type	kg	PU
270895 ✷	3800	DIN	3,900	1
270896	3800	I	4,300	1
270897	3800	II	4,300	1

Assortments of end sleeves

RoHS

SysCon end sleeves & 210804

SysCon

Content: 4100 insulated end sleeves

1	220370	ABS plastic box SysCon S	
1	220375	Assortment insert SysCon	
1	220399	Foam SysCon 400 x 300 x 10 mm	
1	210804	Crimping pliers for end sleeves 0,08 – 10 mm²	
1000	270805	insulated end sleeves, red	1/8
1000	270802	insulated end sleeves, grey	0,75/8
500	270807	insulated end sleeves, black	1,5/8
500	270811	insulated end sleeves, blue	2,5/8
500	270815	insulated end sleeves, grey	4/10
100	270818	insulated end sleeves, yellow	6/12
200	270788	Twin-end sleeves, black	1,5/8
200	270792	Twin-end sleeves, blue	2,5/10
100	270796	Twin-end sleeves, grey	4,0/12

Art. no.	quantity	kg	PU
220382	4100	4,300	1

SysCon end sleeves & 210842

SysCon

Content: 4950 insulated end sleeves

1	220370	ABS plastic box SysCon S	
1	220399	Foam SysCon 400 x 300 x 10 mm	
1	220375	Assortment insert SysCon	
1	210842	Crimping pliers for end sleeves 1 – 10 mm²	
1000	270805	insulated end sleeves, red	1/8
1000	270807	insulated end sleeves, black	1,5/8
1000	270811	insulated end sleeves, blue	2,5/8
500	270815	insulated end sleeves, grey	4/10
200	270818	insulated end sleeves, yellow	6/12
200	270822	insulated end sleeves, red	10/12
500	270806	insulated end sleeves, red	1/12
300	270027	insulated end sleeves, black	1,5/18
250	270813	insulated end sleeves, blue	2,5/18

Art. no.	quantity	kg	PU
220390	4950	4,300	1

Insulated crimp terminals

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... convincing solutions

INFO

The Quality

The elimination of every need to weld complicated operations to effect an electrical connection, the high productivity in cable termination, the low contact resistance as well as the high connection reliability are only some of the multiple advantages guaranteed by the HAUPA crimp systems.

Variety
The wide and complete range of crimp terminals satisfies the most different connection requirements with the widest application field even referring to the hardest and least favourable conditions of operation.

Materials
The high conductivity and the top mechanical caracteristics are guaranteed by the purity (up to 99,9%) of the copper utilized for the production of crimp terminals.
Hot treatment
In order to ensure the maximum malleability of materials during the crimping operations all copper terminals undergo a hot treatment with forced ventilation and controlled temperature.

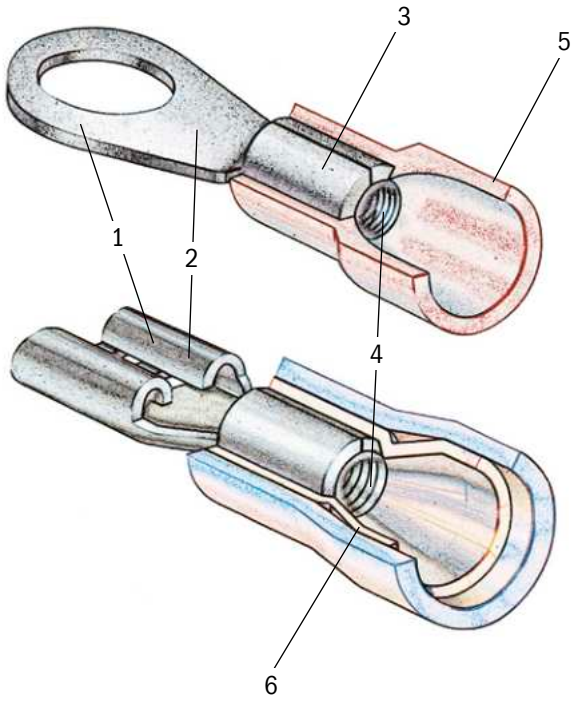
Surface treatment
The crimp terminals are treated with processes of electrolytic tin plating. This method guarantees the maximum adhesion of tin to the crimp terminal surface in order to reduce the electrical resistance to a minimum and to maximalize the protection against corrosion.

Insulation
The standard models are available with insulation in special self-extinguishing PVC or in Nylon and in colours according to International Standards. The high quality of the insulation materials employed for all crimp terminals ensure a high degree of resistance to the mechanical solicitations that they must undergo during the crimping operations without alteration of their insulation characterictics.

PVC insulated crimp terminals Easy Entry

1. Sleeves, made of purest copper
2. Treated with processes of electrolytic tin plating
3. Hot treatment
4. Internal serration for the best most electric contact
5. Insulation Easy Entry sleeve
6. Copper sleeve Easy Entry: for quick wire insertions with no strand turn-back and a strong mechanical retention.

Funnel shaped insulating sleeve



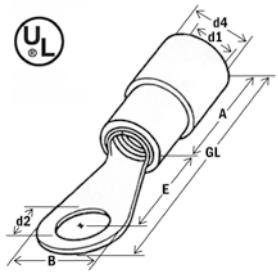
Underwriters Laboratories Inc.
Listed File E338116, E336314

RoHS

Ring terminals DIN 46237

- of electrolytic copper, tin-plated, soldered
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC -75°/600V

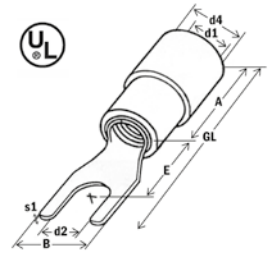


Art. no.	CSS	M	d2	d1	d2	s	A	⟷	E	B	kg/100		PU
260250	**0,5 - 1,0**	2,5	2,6	1,95	4,2	0,8	10,4	22,2	8,6	8	0,070	500	100
260252		3	3,2	1,95	4,2	0,8	10,4	15,4	4,4	5,5	0,072	500	100
260254		3,5	3,6	1,95	4,2	0,8	10,4	22,2	7,8	8	0,065	500	100
260256 ✷		4	4,2	1,95	4,2	0,8	10,4	22	7,5	8	0,079	500	100
260258 ✷		5	5,2	1,95	4,2	0,8	10,4	22,4	8	8	0,096	500	100
260260 ✷		6	6,2	1,95	4,2	0,8	10,4	23,7	8,6	10	0,106	500	100
260262		8	8,3	1,95	4,2	0,8	10,4	30	12,6	14	0,136	500	100
260264		10	10,4	1,95	4,2	0,8	10,4	30	12,8	14	0,190	500	100
260267	**1,5 - 2,5**	3	3,2	2,45	4,8	0,8	11	18,5	4,3	6,4	0,078	500	100
260268		3,5	3,7	2,45	4,8	0,8	11	23	8	8	0,078	500	100
260270 ✷		4	4,2	2,45	4,8	0,8	11	23	8	8	0,092	500	100
260272 ✷		5	5,2	2,45	4,8	0,8	11	26	9,8	10	0,111	500	100
260274 ✷		6	6,2	2,45	4,8	0,8	11	28	11,7	11	0,123	500	100
260276		8	8,2	2,45	4,8	0,8	11	33	14,5	15	0,147	500	100
260278		10	10,5	2,45	4,8	0,8	11	33	14,5	15	0,200	500	100
260282	**4 - 6**	3,5	3,7	3,5	6,6	1	14	26,5	8,4	8	0,163	500	100
260284		4	4,2	3,5	6,6	1	14	26,5	8,4	8	0,168	500	100
260286		5	5,2	3,5	6,6	1	14	29,6	10,2	10	0,186	500	100
260288 ✷		6	6,2	3,5	6,6	1	14	30,6	11	11	0,196	500	100
260290 ✷		8	8,2	3,5	6,6	1	14	37	15,3	15	0,243	500	100
260292		10	10,5	3,5	6,6	1	14	40	16,5	19	0,299	500	100

Fork terminals DIN 46237

- of electrolytic copper, tin-plated, soldered
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC -75°/600V

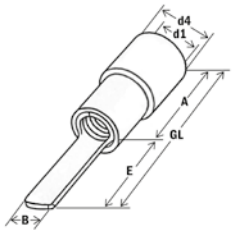


Art. no.	CSS	M	d2	d1	d2	s	A	⟷	E	B	kg/100		PU
260300	**0,5 - 1,0**	3	3,2	1,95	4,2	0,8	10,4	20	6,7	5,6	0,065	500	100
260302		3,5	3,7	1,95	4,2	0,8	10,4	19,4	6,5	6,5	0,065	500	100
260304 ✷		4	4,2	1,95	4,2	0,8	10,4	20,9	6,3	6,4	0,070	500	100
260306		5	5,2	1,95	4,2	0,8	10,4	21,2	8	8	0,092	500	100
260308		6	6,2	1,95	4,2	0,8	10,4	22,4	8,3	9,2	0,101	500	100
260310	**1,5 - 2,5**	3	3,2	2,45	4,8	0,8	11	23	8,4	5,6	0,079	500	100
260312		3,5	3,7	2,45	4,8	0,8	11	20,3	5,3	6,6	0,085	500	100
260314 ✷		4	4,2	2,45	4,8	0,8	11	20,3	5,3	6,6	0,084	500	100
260316		5	5,2	2,45	4,8	0,8	11	25	9,5	9,1	0,109	500	100
260318		6	6,3	2,45	4,8	0,8	11	27	11,2	10	0,118	500	100
260320	**4 - 6,0**	4	4,2	3,5	6,6	1	14	26	7,2	8,1	0,116	500	100
260322 ✷		5	5,2	3,5	6,6	1	14	28,5	10,5	9	0,179	500	100
260324		6	6,3	3,5	6,6	1	14	29,5	11	11	0,188	500	100
260326		8	8,2	3,5	6,6	1	14	35,2	15	15,2	0,229	500	100
260328		10	10,5	3,5	6,6	1	14	38	16,6	19	0,291	500	100

Socket sleeves (male) DIN 46231

- of electrolytic copper, tin-plated, soldered
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC -75°/600V



Art. no.	CSS	d1	d2	A	⟷	E	B	kg/100		PU
260330	**0,5 - 1,0**	1,7	4,2	10,4	19,4	9	2,8	0,058	500	100
260331		1,7	4,2	10,4	24,9	14,5	3	0,070	500	100
260332	**1,5 - 2,5**	2,3	4,8	10,4	19,4	9	2,8	0,066	500	100
260333		2,3	4,8	10,4	26,4	16	2,8	0,080	500	100
260334	**4 - 6**	3,4	6,8	13,5	23,5	10	2,8	0,120	500	100
260335		3,4	6,8	13,5	31,7	18,2	4,5	0,170	500	100

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Crimp terminals, PVC-insulated

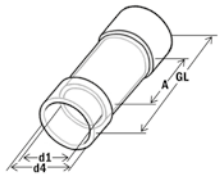
RoHS

Butt connectors

- of electrolytic copper, tin-plated
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC -75°/600V

Art. no.	CSS	d1	d2	width	⟷	kg/100	▭	PU
260350 ✸	**0,5 - 1,0**	1,7	4	15	22,7	0,110	500	100
260352 ✸	**1,5 - 2,5**	2,3	4,5	15	22,7	0,130	500	100
260354 ✸	**4 - 6,0**	3,4	6,8	15	26,7	0,230	500	100

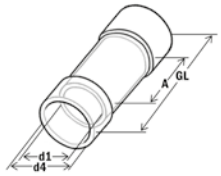


Parallel connectors

- of electrolytic copper, tin-plated
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC -75°/600V

Art. no.	CSS	d1	d2	width	⟷	kg/100	▭	PU
260360	**0,5 - 1,0**	1,7	4	8	16	0,060	500	100
260362	**1,5 - 2,5**	2,3	4,5	8	16	0,080	500	100
260364	**4 - 6,0**	3,4	6,8	8	20,5	0,140	500	100

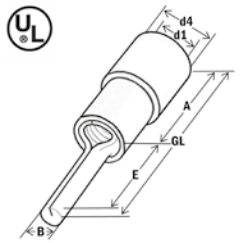


Round pins

- of electrolytic copper, tin-plated
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC -75°/600V

Art. no.	CSS	d1	d2	A	⟷	E	B	kg/100	▭	PU
260370	**0,5 - 1,0**	1,95	4,2	10,4	22,4	12	1,8	0,070	500	100
260371		1,95	4,2	10,4	20	9	1,8	0,060	500	100
260372	**1,5 - 2,5**	2,45	4,8	11	23	12	1,8	0,080	500	100
260373		2,45	4,8	11	20	9	1,8	0,070	500	100
260374	**4 - 6,0**	3,5	6,6	14	28	14	2,6	0,170	500	100

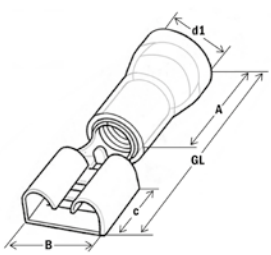


Socket sleeves (female)

- Brass, tin-plated, PVC-insulated
- with vibration-free copper sleeve
- Easy Entry

PVC -75°/600V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100	▭	PU
260380	**0,5 - 1,0**	2,8x0,5	3,5	9,5	17,9	6,4	3,2	0,070	500	100
260382		2,8x0,8	3,5	9,5	17,9	6,4	3,2	0,070	500	100
260384		4,8x0,5	3,5	9,5	18,7	6	5	0,080	500	100
260386		4,8x0,8	3,5	9,5	18,7	6	5	0,080	500	100
260400		5,2x0,8	3,5	9,5	18,7	6,4	5,5	0,090	500	100
260392 ✸		6,3x0,8	3,5	9,5	20,5	7,8	6,6	0,100	500	100
260388	**1,5 - 2,5**	4,8x0,5	4,3	9,5	18,7	6	5	0,090	500	100
260390		4,8x0,8	4,3	9,5	18,7	6	5	0,090	500	100
260402		5,2x0,8	4,3	9,5	18,7	6,4	5,5	0,090	500	100
260394 ✸		6,3x0,8	4,3	9,5	20,5	7,8	6,6	0,120	500	100
260396 ✸	**4 - 6,0**	6,3x0,8	6,2	13,5	24,5	7,8	6,6	0,190	500	100
260404		9,8x1,1	6,2	13,5	29,2	12	10	0,260	500	100



PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Crimp terminals, PVC-insulated

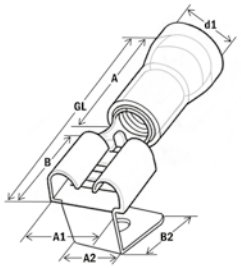
RoHS

Socket sleeves (female) with branch

- Brass, tin-plated, PVC-insulated
- with vibration-free copper sleeve
- Easy Entry

PVC -75°/600V

Art. no.	CSS	plug	d1	A	⟷	A1	A2	B	B2	kg/100		PU
260410	**0,5 - 1,0**	6,3x0,8	3,5	9,5	22,2	6,6	6,3	7,8	8	0,140	500	100
260412	**1,5 - 2,5**	6,3x0,8	4,3	9,5	22,2	6,8	6,3	7,8	8	0,150	500	100
260411	**4 - 6,0**	6,3x0,8	4,3	9,5	22,2	6,8	6,3	7,8	8	0,280	500	100

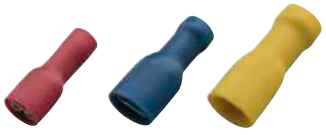


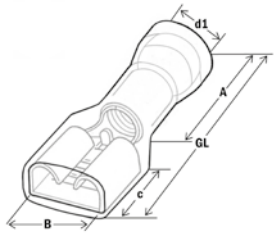
Socket sleeves (female), fully-insulated

- Brass, tin-plated, PVC-insulated
- with vibration-free copper sleeve
- Easy Entry

PVC -75°/600V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
260414 ✷	**0,5 - 1,0**	6,3x0,8	2,7	11	22	6,8	6,6	0,129	500	100
260415		4,8x0,8	2,7	11	20	6	5	0,100	500	100
260416 ✷	**1,5 - 2,5**	6,3x0,8	3,2	11	22	6,8	6,6	0,130	500	100
260417		4,8x0,8	3,2	11	20	6	5	0,110	500	100
260418 ✷	**4 - 6,0**	6,3x0,8	3,8	14	25	6,8	6,6	0,220	500	100



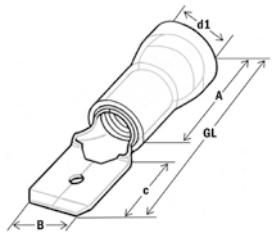


Flat terminals

- Brass, tin-plated, PVC-insulated
- with vibration-free copper sleeve
- Easy Entry

PVC -75°/600V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
260510	**0,5 - 1,0**	2,8x0,5	3,8	10,5	19,2	6,5	2,8	0,060	500	100
260512		2,8x0,8	3,8	10,5	19,2	6,5	2,8	0,065	500	100
260514		4,8x0,5	3,8	10,5	19,2	6,5	4,8	0,075	500	100
260516		4,8x0,8	3,8	10,5	19,2	6,7	4,8	0,080	500	100
260422 ✷		6,3x0,8	3,5	10	20,5	7,7	6,3	0,090	500	100
260518	**1,5 - 2,5**	4,8x0,5	3,8	10,5	19,2	6,5	4,8	0,085	500	100
260520		4,8x0,8	3,8	10,5	19,2	6,7	4,8	0,090	500	100
260424 ✷		6,3x0,8	4	10	20,5	7,7	6,3	0,100	500	100
260426 ✷	**4 - 6,0**	6,3x0,8	5,5	13,5	24,5	7,7	6,3	0,180	500	100

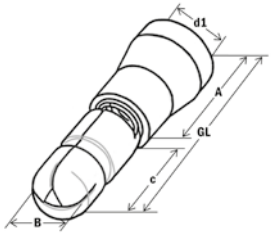


Round terminals

- of electrolytic copper, tin-plated
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC -75°/600V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
260446	**0,5 - 1,0**	4 mm	3,5	9,5	20,2	8,7	4	0,090	500	100
260448	**1,5 - 2,5**	5 mm	4,3	9,5	20,7	8,7	5	0,110	500	100
260449		4 mm	4,3	9,5	20,2	8,7	4	0,100	500	100
260450	**4 - 6,0**	5 mm	6,5	13,5	25	10	5	0,170	500	100



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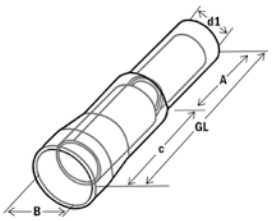
Crimp terminals, PVC-insulated

RoHS

Round sleeves

- of electrolytic copper, tin-plated
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC
-75°/600V



Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100	▭	PU
260440	**0,5 - 1,0**	4 mm	3,5	9,5	20,2	8,7	4	0,130	500	100
260442	**1,5 - 2,5**	5 mm	4,3	9,5	20,7	8,7	5	0,150	500	100
260443		4 mm	4,3	9,5	20,2	8,7	4	0,130	500	100
260444	**4 - 6,0**	5 mm	6,5	13	25	12	5	0,250	500	100

Rapid connectors

- of electrolytic copper, tin-plated
- Polypropylene

Art. no.	CSS	B	⟷	kg/100	PU
260336 ✸	**0,5 - 1,0**	20	27	0,130	100
260500		9,8	37	0,100	100
260337	**1,5 - 2,5**	20	27	0,130	100
260502		9,8	37	0,120	100
260338	**4 - 6,0**	20,5	34,5	0,290	100
260504		9,8	37	0,140	100

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

RoHS

INFO

Counter display for small packages

Small package in resealable, transparent plastic packaging with blister hanger.
Ideally suited to sale on space-saving counter stands and small display units.

Counter display

- Ring terminals
- Butt connectors
- Twin-end sleeves
- Shrinkable connectors
- Socket sleeves (female)

Art. no.		Width	Height	Depth	kg	PU
300169	**350 SmallPacks**	410	580	180	4,300	1

Ring terminals DIN 46237 SmallPack

- of electrolytic copper, tin-plated
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC +75°/600V

Art. no.	CSS		d2	d1	d2	s	A	⟷	E	B	kg/100		PU
260256/10	**0,5 - 1,0**	4	4,2	1,95	4,2	0,8	10,4	22	7,5	8	0,079	100	10
260258/10		5	5,2	1,95	4,2	0,8	10,4	22,4	8	8	0,079	100	10
260270/10	**1,5 - 2,5**	4	4,2	2,45	4,8	0,8	11	23	8	8	0,079	100	10
260272/10		5	5,2	2,45	4,8	0,8	11	26	9,8	10	0,079	100	10
260274/10		6	6,2	2,45	4,8	0,8	11	28	11,7	11	0,079	100	10
260288/10	**4 - 6**	6	6,2	3,5	6,6	1	14	30,6	11	11	0,079	100	10
260290/10		8	8,2	3,5	6,6	1	14	37	15,3	15	0,079	100	10

Fork terminals DIN 46237 SmallPack

- of electrolytic copper, tin-plated
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC +75°/600V

Art. no.	CSS		d2	d1	d2	s	A	⟷	E	B	kg/100		PU
260304/10	**0,5 - 1,0**	4	4,2	1,95	4,2	0,8	10,4	20,9	6,3	6,4	0,079	100	10
260306/10		5	5,2	1,95	4,2	0,8	10,4	21,2	8	8	0,080	100	10
260314/10	**1,5 - 2,5**	4	4,2	2,45	4,8	0,8	11	20,3	5,3	6,6	0,079	100	10
260316/10		5	5,2	2,45	4,8	0,8	11	25	9,5	9,1	0,079	100	10
260324/10	**4 - 6,0**	6	6,3	3,5	6,6	1	14	29,5	11	11	0,079	100	10

Butt connectors SmallPack

- of electrolytic copper, tin-plated
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC +75°/600V

Art. no.	CSS	d1	d2	width	⟷	kg/100		PU
260350/10	**0,5 - 1,0**	1,7	4	15	22,7	0,110	100	10
260352/10	**1,5 - 2,5**	2,3	4,5	15	22,7	0,110	100	10
260354/10	**4 - 6,0**	3,4	6,8	15	26,7	0,110	100	10

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Small packages

RoHS

Socket sleeves (female) SmallPack

- Brass, tin-plated, PVC-insulated
- with vibration-free copper sleeve
- Easy Entry

PVC ·75°/600V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
260386/10	**0,5 - 1,0**	4,8x0,8	3,5	9,5	18,7	6	5	0,080	100	10
260392/10		6,3x0,8	3,5	9,5	20,5	7,8	6,6	0,100	100	10
260390/10	**1,5 - 2,5**	4,8x0,8	4,3	9,5	18,7	6	5	0,080	100	10
260394/10		6,3x0,8	4,3	9,5	20,5	7,8	6,6	0,100	100	10
260396/10	**4 - 6,0**	6,3x0,8	6,2	13,5	24,5	7,8	6,6	0,100	100	10

Socket sleeves (female), fully-insulated

- Brass, tin-plated, PVC-insulated
- with vibration-free copper sleeve
- Easy Entry

PVC ·75°/600V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
260414/10	**0,5 - 1,0**	6,3x0,8	2,7	11	22	6,8	6,6	0,100	100	10
260416/10	**1,5 - 2,5**	6,3x0,8	3,2	11	22	6,8	6,6	0,100	100	10

Flat terminals SmallPack

- Brass, tin-plated, PVC-insulated
- with vibration-free copper sleeve
- Easy Entry

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
260516/10	**0,5 - 1,0**	4,8x0,8	3,8	10,5	19,2	6,7	4,8	0,080	100	10
260422/10		6,3x0,8	3,5	10	20,5	7,7	6,3	0,090	100	10
260520/10	**1,5 - 2,5**	4,8x0,8	3,8	10,5	19,2	6,7	4,8	0,080	500	10
260424/10		6,3x0,8	4	10	20,5	7,7	6,3	0,090	100	10
260426/10	**4 - 6,0**	6,3x0,8	5,5	13,5	24,5	7,7	6,3	0,090	100	10

Round terminals SmallPack

- of electrolytic copper, tin-plated
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
260448/10	**1,5 - 2,5**	5 mm	4,3	9,5	20,7	8,7	5	0,110	100	10

Round sleeves SmallPack

- of electrolytic copper, tin-plated
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
260442/10	**1,5 - 2,5**	5 mm	4,3	9,5	20,7	8,7	5	0,110	100	10

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

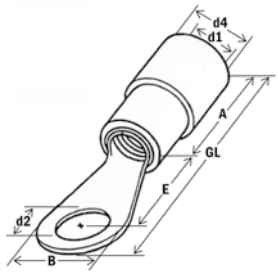
Crimp terminals, Nylon-insulated

RoHS

Ring terminals DIN 46237

- of electrolytic copper, tin-plated, soldered
- Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

Nylon +105°/600V

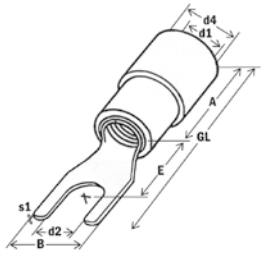


Art. no.	CSS	M	d2	d1	d2	s	A	⟷	E	B	kg/100		PU
260243	**0,2 - 0,5**	2	2,2	1	2,3	0,5	8	16,5	6	5	0,070	500	100
260245		3	3,2	1	2,3	0,5	8	16,5	6	5	0,070	500	100
260246		3,5	3,7	1	2,3	0,5	8	16,5	8	6	0,070	500	100
260247		4	4,3	1	2,3	0,5	8	19,25	8	6,5	0,070	500	100
260248		5	5,3	1	2,3	0,5	8	20	8	8	0,070	500	100
260650	**0,5 - 1,0**	2,5	2,6	1,95	4,2	0,8	10,4	22,2	8,6	8	0,072	500	100
260651		3	3,2	1,95	4,2	0,8	10,4	22,2	8,6	8	0,070	500	100
260654		3,5	3,6	1,95	4,2	0,8	10,4	22,2	7,8	8	0,067	500	100
260656		4	4,2	1,95	4,2	0,8	10,4	22	7,5	8	0,079	500	100
260658		5	5,2	1,95	4,2	0,8	10,4	22,4	8	8	0,096	500	100
260660		6	6,2	1,95	4,2	0,8	10,4	23,7	8,6	10	0,105	500	100
260662		8	8,3	1,95	4,2	0,8	10,4	30	12,6	14	0,136	500	100
260664		10	10,4	1,95	4,2	0,8	10,4	30	12,8	14	0,103	500	100
260666	**1,5 - 2,5**	3	3,2	2,45	4,8	0,8	11	23	8	8	0,110	500	100
260667		3,5	3,7	2,45	4,8	0,8	11	23	8	8	0,080	500	100
260670		4	4,2	2,45	4,8	0,8	11	23	8	8	0,088	500	100
260672		5	5,2	2,45	4,8	0,8	11	26	9,8	10	0,107	500	100
260674		6	6,2	2,45	4,8	0,8	11	28	11,7	11	0,120	500	100
260676		8	8,2	2,45	4,8	0,8	11	33	14,5	15	0,142	500	100
260678		10	10,5	2,45	4,8	0,8	11	33	14,5	15	0,133	500	100
260682	**4 - 6,0**	3,5	3,7	3,5	6,6	1	14	26,5	8,4	8	0,150	500	100
260684		4	4,2	3,5	6,6	1	14	26,5	8,4	8	0,165	500	100
260686		5	5,2	3,5	6,6	1	14	29,6	10,2	10	0,182	500	100
260688		6	6,2	3,5	6,6	1	14	30,6	11	11	0,190	500	100
260690		8	8,2	3,5	6,6	1	14	37	15,3	15	0,237	500	100
260692		10	10,5	3,5	6,6	1	14	40	16,5	19	0,311	500	100

Fork terminals DIN 46237

- of electrolytic copper, tin-plated, soldered
- Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables

Nylon +105°/600V

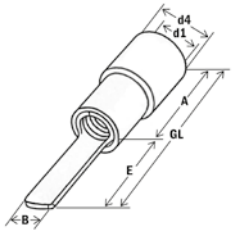


Art. no.	CSS	M	d2	d1	d2	s	A	⟷	E	B	kg/100		PU
260700	**0,5 - 1,0**	3	3,2	1,95	4,2	0,8	10,4	20	6,7	5,6	0,068	500	100
260702		3,5	3,7	1,95	4,2	0,8	10,4	19,4	6,5	6,5	0,066	500	100
260704		4	4,2	1,95	4,2	0,8	10,4	20,9	6,3	6,4	0,071	500	100
260706		5	5,2	1,95	4,2	0,8	10,4	21,2	8	8	0,092	500	100
260708		6	6,2	1,95	4,2	0,8	10,4	22,4	8,3	9,2	0,080	500	100
260710	**1,5 - 2,5**	3	3,2	2,45	4,8	0,8	11	23	8,4	5,6	0,079	500	100
260712		3,5	3,7	2,45	4,8	0,8	11	20,3	5,3	6,6	0,086	500	100
260714		4	4,2	2,45	4,8	0,8	11	20,3	5,3	6,6	0,084	500	100
260716		5	5,2	2,45	4,8	0,8	11	25	9,5	9,1	0,110	500	100
260718		6	6,3	2,45	4,8	0,8	11	27	11,2	10	0,170	500	100
260721	**4 - 6,0**	4	4,2	3,5	6,6	1	14	26	7,2	8,1	0,157	500	100
260722		5	5,2	3,5	6,6	1	14	28,5	10,5	9	0,179	500	100
260724		6	6,3	3,5	6,6	1	14	29,5	11	11	0,190	500	100
260726		8	8,2	3,5	6,6	1	14	35,2	15	15,2	0,230	500	100
260728		10	10,5	3,5	6,6	1	14	38	16,6	19	0,273	500	100

Socket sleeves (male) DIN 46231

- of electrolytic copper, tin-plated, soldered
- Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables

Nylon +105°/600V



Art. no.	CSS	d1	d2	A	⟷	E	B	kg/100		PU
260730	**0,5 - 1,0**	1,7	4,2	10,4	19,4	9	2,8	0,059	500	100
260731		1,7	4,2	10,4	24,9	14,5	3	0,072	500	100
260732	**1,5 - 2,5**	2,3	4,8	10,4	19,4	9	2,8	0,067	500	100
260733		2,3	4,8	10,4	26,4	16	2,8	0,084	500	100
260734	**4 - 6,0**	3,4	6,8	13,5	23,5	10	2,8	0,160	500	100
260735		3,4	6,8	13,5	31,7	18,2	4,5	0,173	500	100

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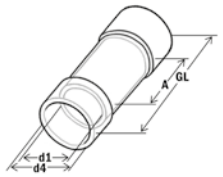
Crimp terminals, Nylon-insulated

RoHS

Butt connectors

- of electrolytic copper, tin-plated
- Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables

Nylon +105°/600V

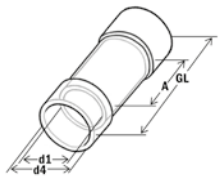


Art. no.	CSS	d1	d2	width	⟷	kg/100		PU
260750	**0,5 - 1,0**	1,7	4	15	22,7	0,103	500	100
260752	**1,5 - 2,5**	2,3	4,5	15	22,7	0,128	500	100
260754	**4 - 6,0**	3,4	6,8	15	26,7	0,221	500	100

Parallel connectors

- of electrolytic copper, tin-plated
- Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables

Nylon +105°/600V

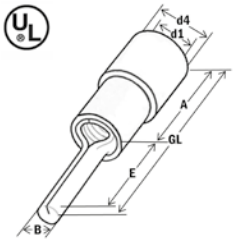


Art. no.	CSS	d1	d2	width	⟷	kg/100		PU
263360	**0,5 - 1,0**	1,7	4	8	16	0,069	500	100
263362	**1,5 - 2,5**	2,3	4,5	8	16	0,080	500	100
263364	**4 - 6,0**	3,4	6,8	8	16	0,150	500	100

Round pins

- of electrolytic copper, tin-plated
- Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables

Nylon +105°/600V

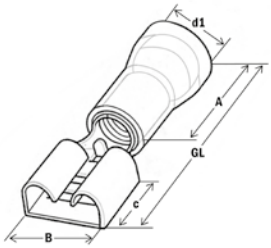


Art. no.	CSS	d1	d2	A	⟷	E	B	kg/100		PU
260770	**0,5 - 1,0**	1,95	4,2	10,4	22	12	1,9	0,072	500	100
260771		1,95	4,2	10,4	20	9	1,9	0,064	500	100
260772	**1,5 - 2,5**	2,45	4,8	11	23	12	1,9	0,079	500	100
260773		2,45	4,8	11	20	9	1,9	0,074	500	100
260774	**4 - 6,0**	3,6	6,6	14	28	14	2,7	0,078	500	100
260376	**10**	4,5	8,3	21,5	38	15	4	0,300	500	100

Socket sleeves (female)

- Brass, tin-plated, Nylon-insulated
- with vibration-free copper sleeve
- Easy Entry

Nylon +105°/600V



Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
263380	**0,5 - 1,0**	2,8x0,5	3,5	9,5	17,9	6,4	3,2	0,070	500	100
263382		2,8x0,8	3,5	9,5	17,9	6,4	3,2	0,077	500	100
263384		4,8x0,5	3,5	9,5	18,7	6	5	0,080	500	100
263386		4,8x0,8	3,5	9,5	18,7	6	5	0,080	500	100
263400		5,2x0,8	3,5	9,5	18,7	6,4	5,5	0,090	500	100
263392		6,3x0,8	3,5	9,5	20,5	7,8	6,6	0,100	500	100
263388	**1,5 - 2,5**	4,8x0,5	4,3	9,5	18,7	6	5	0,090	500	100
263393		4,8x0,8	4,3	9,5	18,7	6	5	0,100	500	100
263402		5,2x0,8	4,3	9,5	18,7	6,4	5,5	0,090	500	100
263394		6,3x0,8	4,3	9,5	20,5	7,8	6,6	0,110	500	100
263396	**4 - 6,0**	6,3x0,8	6,2	13,5	24,5	7,8	6,6	0,190	500	100
263404		9,8x1,1	6,2	13,5	29,2	12	10	0,260	500	100

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

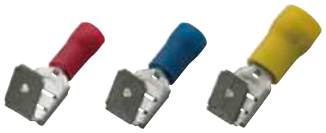
Crimp terminals, Nylon-insulated

RoHS

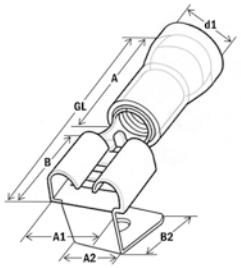
Socket sleeves (female) with branch

- Brass, tin-plated, Nylon-insulated
- with vibration-free copper sleeve
- Easy Entry

Nylon ›105°/600V



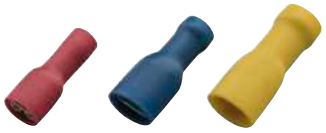
Art. no.	CSS	plug	d1	A	↔	A1	A2	B	B2	kg/100		PU
263410	**0,5 - 1,0**	6,3x0,8	3,5	9,5	22,2	6,8	6,3	7,8	8	0,140	500	100
263412	**1,5 - 2,5**	6,3x0,8	4,3	9,5	22,2	6,8	6,3	7,8	8	0,150	500	100
263413	**4 - 6,0**	6,3x0,8	4,3	9,5	22,2	6,8	6,3	7,8	8	0,200	500	100



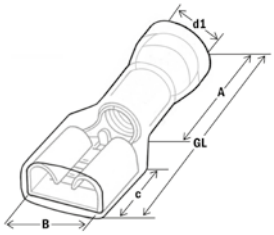
Socket sleeves (female), fully-insulated

- Brass, tin-plated, Nylon-insulated
- with vibration-free copper sleeve
- Easy Entry

Nylon ›105°/600V



Art. no.	CSS	plug	d1	A	↔	c	B	kg/100		PU
263451	**0,5 - 1,0**	2,8x0,5	4	11	19,5	6,5	3,2	0,085	500	100
263452		2,8x0,8	4	11	19,5	6,5	3,2	0,086	500	100
263453		4,8x0,5	4	11	20,2	6,4	5	0,088	500	100
263414		6,3x0,8	4	11	21,5	7,5	6,6	0,120	500	100
263415		4,8x0,8	4	11	20,2	6,4	5	0,100	500	100
263456	**1,5 - 2,5**	4,8x0,5	5	11	20,2	6,4	5	0,104	500	100
263416		6,3x0,8	5	11	21,5	7,5	6,6	0,130	500	100
263417		4,8x0,8	5	11	20,2	6,4	5	0,110	500	100
263418	**4 - 6,0**	6,3x0,8	6,5	13	24,2	7,5	6,6	0,220	500	100

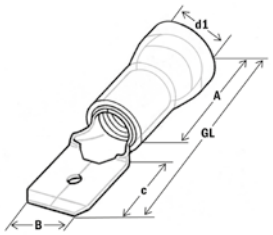


Flat terminals

- Brass, tin-plated, Nylon-insulated
- with vibration-free copper sleeve
- Easy Entry

Nylon ›105°/600V

Art. no.	CSS	plug	d1	A	↔	c	B	kg/100		PU
263510	**0,5 - 1,0**	2,8x0,5	3,8	10,5	19,2	6,5	2,8	0,068	500	100
263512		2,8x0,8	3,5	10,5	19,2	6,5	2,8	0,066	500	100
263514		4,8x0,5	3,8	10,5	10,5	6,5	4,8	0,076	500	100
263516		4,8x0,8	3,8	10,5	19,2	6,7	4,8	0,077	500	100
263422		6,3x0,8	3,5	10	20,5	7,7	6,3	0,090	500	100
263518	**1,5 - 2,5**	4,8x0,5	3,8	10,5	19,2	6,5	4,8	0,080	500	100
263520		4,8x0,8	3,8	10,5	19,2	6,7	4,8	0,086	500	100
263424		6,3x0,8	4	10	20,5	7,7	6,3	0,100	500	100
263426	**4 - 6,0**	6,3x0,8	5,5	13,5	24,5	7,7	6,3	0,180	500	100

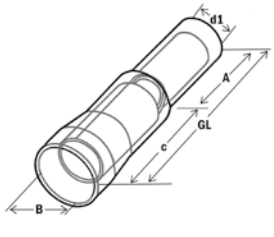


Round sleeves

- of electrolytic copper, tin-plated
- Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables

Nylon ›105°/600V

Art. no.	CSS	plug	d1	A	↔	c	B	kg/100		PU
263440	**0,5 - 1,0**	4 mm	3,5	9,5	20,2	8,7	4	0,130	500	100
263442	**1,5 - 2,5**	5 mm	4,3	9,5	20,7	8,7	5	0,150	500	100
263443		4 mm	4,3	9,5	20,2	87	4	0,130	500	100



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Crimp terminals, Nylon-insulated

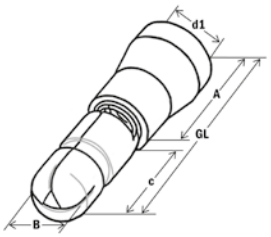
RoHS

Round terminals

- of electrolytic copper, tin-plated
- Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables

Nylon ›105°/600V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100	▭	PU
263446	**0,5 - 1,0**	4 mm	3,5	9,5	20,2	8,7	4	0,090	500	100
263448	**1,5 - 2,5**	5 mm	4,3	9,5	20,7	8,7	5	0,110	500	100
263449		4 mm	4,3	9,5	20,2	8,7	4	0,100	500	100
263450	**4 - 6,0**	5 mm	6,5	13,5	25	10	5	0,200	500	100

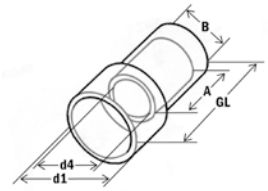


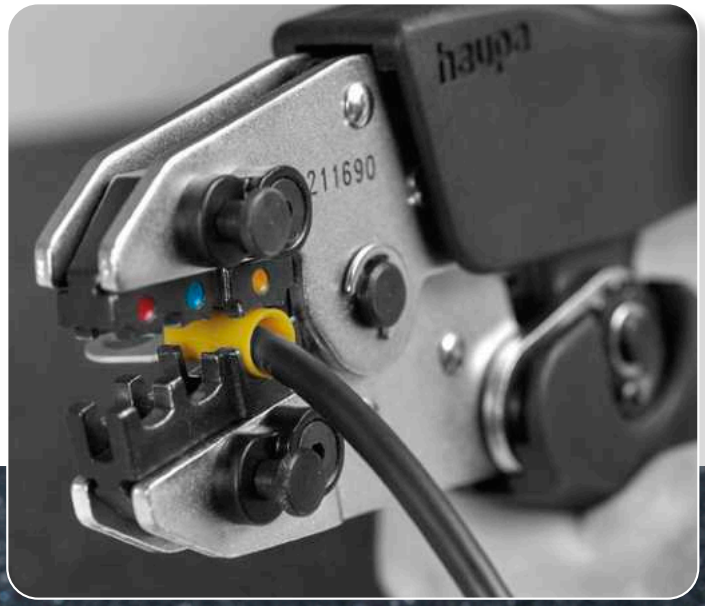
End connectors

- of electrolytic copper, tin-plated
- Nylon-insulated

Nylon ›105°/600V

Art. no.	CSS	d1	d2	A	B	kg/100	▭	PU
260427 ✸	**0,5 - 1,0**	6,2	2,2	8	5	0,060	500	100
260428	**1,5 - 2,5**	6,5	2,5	8	5,9	0,065	500	100
260430	**4 - 6,0**	9,4	3,5	8,5	7,3	0,125	500	100
260431	**10**	12	4,6	9,5	9,3	0,260	500	100





Crimp terminals, PC-insulated

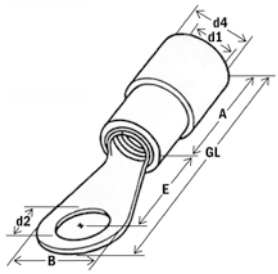
RoHS

Ring terminals DIN 46237

- of electrolytic copper, tin-plated, soldered
- suitable for harmonised cables
- PC-insulated, with expanded insulating sleeve
- Easy Entry

PC ·125°/600V

Art. no.	CSS	M	d2	d1	d2	s	A	⟷	E	B	kg/100		PU
340256	**0,5 - 1,0**	4	4,3	1,6	4	0,8	11	22	7	8	0,070	500	100
340258		5	5,3	1,6	4	0,8	11	24	8	10	0,070	500	100
340270	**1,5 - 2,5**	4	4,3	2,3	4,5	0,8	11	22	7	8	0,070	500	100
340272		5	5,3	2,3	4,5	0,8	11	25	9	10	0,070	500	100
340274		6	6,5	2,3	4,5	0,8	11	27,5	11	11	0,070	500	100
340288	**4,0 - 6,0**	6	6,5	3,6	6,4	1	13	28,5	10	11	0,070	500	100
340290		8	8,4	3,6	6,4	1	13	33	13	14	0,070	500	100

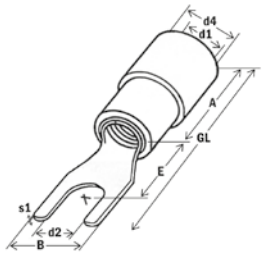


Fork terminals DIN 46237

- of electrolytic copper, tin-plated, soldered
- suitable for harmonised cables
- PC-insulated, with expanded insulating sleeve
- Easy Entry

PC ·125°/600V

Art. no.	CSS	M	d2	d1	s	A	⟷	E	B	kg/100		PU
340304	**0,5 - 1,0**	4	4,3	1,6	0,8	11	22,3	7	6,6	0,070	500	100
340314	**1,5 - 2,5**	4	4,3	2,3	0,8	11	22,3	7	6,6	0,070	500	100
340322	**4,0 - 6,0**	6	6,5	3,6	1	13	29,5	10	10,7	0,070	500	100

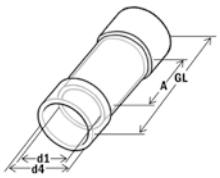


Butt connectors

- of electrolytic copper, tin-plated, soldered
- suitable for harmonised cables
- PC-insulated, with expanded insulating sleeve
- Easy Entry

PC ·125°/600V

Art. no.	CSS	d1	d2	A	⟷	kg/100		PU
340350	**0,5 - 1,0**	1,7	4	14,7	25	0,070	500	100
340352	**1,5 - 2,5**	2,3	4,5	14,7	25	0,070	500	100
340354	**4,0 - 6,0**	3,4	6,3	14,7	27	0,070	500	100

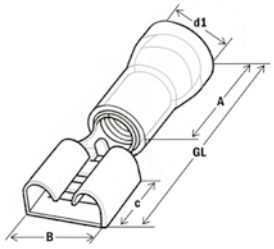


Socket sleeves (female)

- Brass, tin-plated
- PC-insulated
- with vibration-free copper sleeve
- Easy Entry

PC ·125°/300V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
340392	**0,5 - 1,0**	6,3x0,8	4	11	21,5	7,5	6,6	0,070	500	100
340394	**1,5 - 2,5**	6,3x0,8	4,5	11	21,5	7,5	6,6	0,070	500	100
340396	**4,0 - 6,0**	6,3x0,8	6,3	13	23,5	7,5	6,6	0,070	500	100



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Crimp terminals, PC-insulated

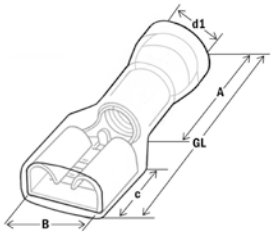
RoHS

Socket sleeves (female), fully-insulated

- Brass, tin-plated
- PC-insulated
- with vibration-free copper sleeve
- Easy Entry

PC +125°/300V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
340414	**0,5 - 1,0**	6,3x0,8	4	10	21,5	7,5	6,6	0,070	500	100
340416	**1,5 - 2,5**	6,3x0,8	4,5	10	21,5	7,5	6,6	0,070	500	100

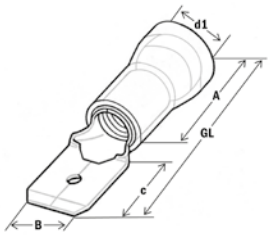


Flat terminals

- Brass, tin-plated
- PC-insulated
- with vibration-free copper sleeve
- Easy Entry

PC +125°/300V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
340422	**0,5 - 1,0**	6,3x0,8	4	11	22	7,7	6,35	0,070	500	100
340424	**1,5 - 2,5**	6,3x0,8	4,5	11	22	7,7	6,35	0,070	500	100
340426	**4,0 - 6,0**	6,3x0,8	6,3	13	24	7,7	6,35	0,070	500	100



Crimp terminals, PVC-insulated

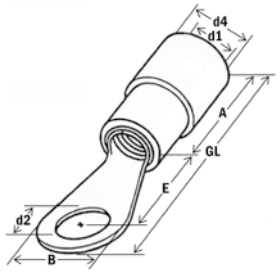
RoHS

Ring terminals ECO-Line

- of electrolytic copper, tin-plated, not soldered
- PVC-insulated, with expanded insulating sleeve
- suitable for harmonised cables

PVC ECO-Line +75°/300V

Art. no.	CSS	M	d2	d1	d2	s	A	⟷	E	B	kg/100		PU
370256	**0,5 - 1,0**	4	4,3	1,7	4	0,75	10	19,4	6,3	6,6	0,070	500	100
370258		5	5,3	1,7	4	0,75	10	20,8	7	8	0,070	500	100
370270	**1,5 - 2,5**	4	4,3	2,3	4,5	0,8	10	19,4	6,3	6,6	0,070	500	100
370272		5	5,3	2,3	4,5	0,8	10	21,8	7,8	8,5	0,070	500	100
370274		6	6,4	2,3	4,5	0,8	10	26,8	11	12	0,070	500	100
370288	**4,0 - 6,0**	6	6,4	3,4	6,4	1	13	29,5	10,5	12	0,070	500	100
370290		8	8,4	3,4	6,4	1	13	34	13,3	15	0,070	500	100

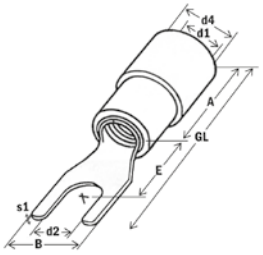


Fork terminals ECO-Line

- of electrolytic copper, tin-plated, not soldered
- PVC-insulated, with expanded insulating sleeve
- suitable for harmonised cables

PVC ECO-Line +75°/300V

Art. no.	CSS	M	d2	d1	d2	s	A	⟷	E	B	kg/100		PU
370304	**0,5 - 1,0**	4	4,3	1,7	4	0,75	10	21	6,5	6,4	0,070	500	100
370314	**1,5 - 2,5**	4	4,3	2,3	4,5	0,8	10	21	6,5	6,4	0,070	500	100
370322	**4,0 - 6,0**	6	6,4	3,4	6,4	1	13	25,5	7	9	0,070	500	100

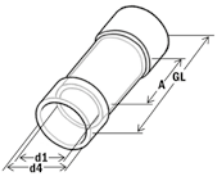


Butt connectors ECO-Line

- of electrolytic copper, tin-plated
- PVC-insulated, with expanded insulating sleeve
- suitable for harmonised cables

PVC ECO-Line +75°/300V

Art. no.	CSS	d1	d2	A	⟷	kg/100		PU
370350	**0,5 - 1,0**	1,7	4	14	24,6	0,070	500	100
370352	**1,5 - 2,5**	2,5	4,5	14	24,6	0,070	500	100
370354	**4,0 - 6,0**	3,4	6,3	14	26,5	0,070	500	100

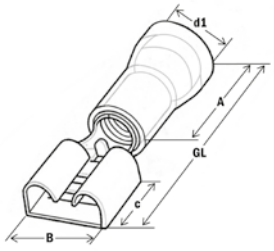


Socket sleeves (female) ECO-Line

- Brass, tin-plated
- PVC-insulated
- with vibration-free copper sleeve

PVC ECO-Line +75°/300V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
370392	**0,5 - 1,0**	6,3x0,8	4	10	20,5	7,5	6,6	0,070	500	100
370394	**1,5 - 2,5**	6,3x0,8	4,5	10	20,5	7,5	6,6	0,070	500	100
370396	**4,0 - 6,0**	6,3x0,8	5,5	13	23,5	7,5	6,6	0,070	500	100



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Crimp terminals, PVC-insulated

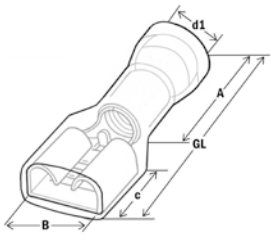
RoHS

Socket sleeves (female), fully-insulated ECO-Line

- Brass, tin-plated
- PVC-insulated
- with vibration-free copper sleeve

PVC ECO-Line +75°/300V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
370414	**0,5 - 1,0**	6,3x0,8	4	10	22	7,5	6,6	0,070	500	100
370416	**1,5 - 2,5**	6,3x0,8	4,5	10	22	7,5	6,6	0,070	500	100

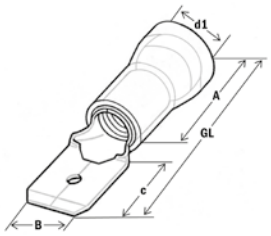


Flat terminals ECO-Line

- Brass, tin-plated
- PVC-insulated
- with vibration-free copper sleeve

PVC ECO-Line +75°/300V

Art. no.	CSS	plug	d1	A	⟷	c	B	kg/100		PU
370422	**0,5 - 1,0**	6,3x0,8	4	10	21	7,7	6,35	0,070	500	100
370424	**1,5 - 2,5**	6,3x0,8	4,5	10	21	7,7	6,35	0,070	500	100
370426	**4,0 - 6,0**	6,3x0,8	5,5	13	24	7,7	6,35	0,070	500	100



INFO

Shrinkable connectors

These shrinkable connectors are an insulated connecting element for the production of cable connections and circuit points. Their outstanding properties are based on the use of a Polyolefi n shrinkable tube, which is coated with a special adhesive on the inside, which protects the metal crimp connections from environmental infl uences. These connectors or terminal clamps are used wherever a reliable connection is needed under severe environmental conditions.
The shrinkable connectors of the HAUPA-SHRINK series combine crimp technology with the completely waterproof shrink technology in one part: crimp first – **then shrink and make waterproof!**

USE: To create simple, durable and weatherproof electrical connections. Particularly suitable well as in the motor vehicle, agricultural machinery and commercial vehicle sector.

SPECIAL FEATURE: The fusible inside adhesive cover provides excellent durability and is safer than traditional connectors.

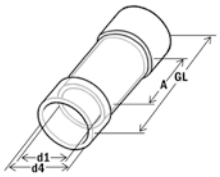
SUITABLE FOR MAKING WATERPROOF CONNECTIONS: • Shrink ratio 3:1 • Shrink temperature: >+125°C
• Temperature resistance: -55°C to + 125°C • Insulating sleeve: Polyolefi n with inside adhesive
• Non-halogen • RoHS conform • No additional insulating and sealing required • Waterproof splice connection
• Space-saving and compact • Extremely high strain relief • Easy installation • Full visual testing possible

INSTRUCTIONS: The connector is crimped and then shrunk using a hot air blower.
The connection Check whether the fusible inside adhesive comes out on the sides to ensure optimal tightness.

Butt connectors

- Copper, tin-plated
- Insulating cover: Polyolefin with inside adhesive
- RoHS conform

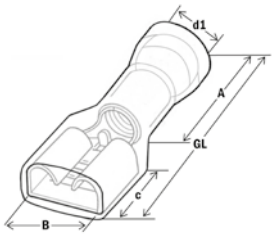
Art. no.	CSS	width		kg/100		PU
363500 ✷	**0,5 - 1,0**	14	36	0,120	500	100
363502 ✷	**1,5 - 2,5**	15	36	0,132	500	100
363504 ✷	**4 - 6,0**	15	41	0,300	400	100



Socket sleeves (female)

- Brass, tin-plated
- Insulating cover: Polyolefin with inside adhesive
- RoHS conform

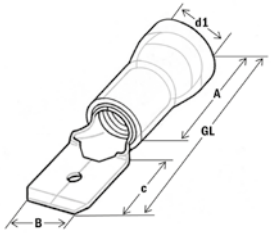
Art. no.	CSS	plug		B	kg/100		PU
363510	**0,5 - 1,0**	6,3x0,8	30	6,6	0,129	500	100
363512	**1,5 - 2,5**	6,3x0,8	30	6,6	0,138	500	100
363514	**4 - 6,0**	6,3x0,8	30	6,6	0,200	500	100



Flat terminals

- Brass, tin-plated
- Insulating cover: Polyolefin with inside adhesive
- RoHS conform

Art. no.	CSS	plug		B	kg/100		PU
363520	**0,5 - 1,0**	6,3x0,8	30	6,6	0,092	500	100
363522	**1,5 - 2,5**	6,3x0,8	30	6,6	0,106	500	100
363524	**4 - 6,0**	6,3x0,8	30	6,6	0,159	500	100



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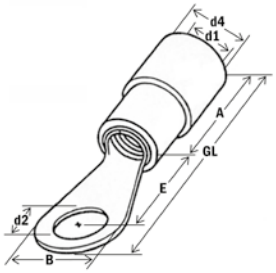
Shrinkable connectors, Polyolefin-insulated

RoHS

Ring terminals

- Copper, tin-plated
- Insulating cover: Polyolefin with inside adhesive
- RoHS conform



Art. no.	CSS	M	d2	⟷	B	kg/100	▭	PU
363530	**0,5 - 1,0**	4	4,3	28,5	8	0,073	500	100
363532		5	5,3	28,5	8	0,066	500	100
363534		6	6,5	34,5	11,6	0,104	500	100
363536		8	8,4	34,5	11,6	0,089	500	100
363538		10	10,5	37,5	13,6	0,112	500	100
363540	**1,5 - 2,5**	4	4,3	30,5	8,5	0,085	500	100
363542		5	5,3	30,5	9,5	0,083	500	100
363544		6	6,5	35,5	12	0,122	500	100
363546		8	8,4	35,5	12	0,118	500	100
363548		10	10,5	37,5	13,6	0,128	500	100
363550	**4 - 6,0**	4	4,3	34,2	9,5	0,173	500	100
363552		5	5,3	34	9,5	0,172	500	100
363554		6	6,5	37,5	12	0,201	500	100
363556		8	8,4	42	15	0,251	500	100
363558		10	10,5	42	15	0,226	500	100

Butt connectors SmallPack

- Copper, tin-plated
- RoHS-conform
- Insulating cover: Polyolefin with inside adhesiver

Art. no.	CSS	width	⟷	kg/100	▭	PU
363500/10	**0,5 - 1,0**	14	36	0,120	100	10
363502/10	**1,5 - 2,5**	15	36	0,120	100	10
363504/5	**4 - 6,0**	15	41	0,120	50	5

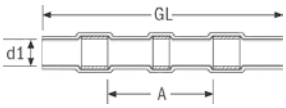
Welded shrink connectors

- Copper, tin-plated
- Insulating cover: Polyolefin with inside adhesive
- RoHS conform

Art. no.	CSS	d2	⟷	kg/100	▭	PU
363600	**0,5 - 1,0**	4,2	37	0,090	500	100
363602	**1,5 - 2,5**	4,7	37	0,110	500	100
363604	**4 - 6,0**	6	42	0,160	500	100

Welded shrink connector, transparent

- Copper, tin-plated
- RoHS conform
- Insulating cover: Polyolefin with inside adhesive
- transparent



Art. no.	CSS	d1	A	⟷	kg/100	▭	PU
363606	**0,5 - 1**	2,7	15,2	42	0,090	500	100
363607	**1,5 - 2,5**	4,5	15,2	42	0,110	500	100
363608	**4 - 6**	6	15,2	42	0,160	500	100

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

RoHS

Assortment of insulated terminals

Content: 1.250 crimping terminals, crimping pliers (art. no. 210761),
crimp 0,5 - 6,0 mm², in plastic bulk storage chest 415 x 335 x 90 mm.
100 insulated ring terminals 0,25-1,5 M3 260252
100 insulated ring terminals 0,25-1,5 M4 260256
100 insulated ring terminals 0,25-1,5 M5 260258
100 insulated ring terminals 1,5-2,5 M4 260270
100 insulated ring terminals 1,5-2,5 M5 260272
50 insulated ring terminals 1,5-2,5 M6 260274
100 insulated ring terminals 2,5-6 M5 260286
50 insulated ring terminals 2,5-6 M6 260288
50 insulated fork type 0,25-1,5 M4 260304
50 insulated fork type 1,5-2,5 M4 260314
50 insulated fork type 2,5-6 M5 260322
50 insulated butt connectors 0,25-1,5 260350
50 insulated butt connectors 1,5-2,5 260352
50 insulated butt connectors 2,5-6 260354
50 insulated round pin 0,25-1,5 260370
50 insulated round pin 1,5-2,5 260372
50 insulated round pin 2,5-6 260374
50 insul. socket sl. 1,5-2,5/6,3x0,8 260394
50 insul. flat term. 1,5-2,5/6,3x0,8 260424

Art. no.	quantity	Insulation	Ø	kg	PU
260762	1250	PVC	0.5 6	3,139	1

Assortment of insulated terminals

Content: 1.200 Crimping terminals, 1 crimping pliers for insulated crimping terminals (art. 210761), range 0.5 - 6 mm² in plastic bulk storage chest.
100 insulated ring terminals 0,25-1,5, M4, art. 260256
100 insulated ring terminals 0,25-1,5, M5, art. 260258
100 insulated ring terminals 0,25-1,5, M6, art. 260260
100 insulated ring terminals 1,5-2,5, M4, art. 260270
100 insulated ring terminals 1,5-2,5, M5, art. 260272
100 insulated ring terminals 1,5-2,5, M6, art. 260274
100 insulated ring terminals 2,5-6, M5, art. 260286
100 insulated ring terminals 2,5-6, M6, art. 260288
100 insulated ring terminals 2,5-6, M8, art. 260290
100 insulated butt connectors 0,25-1,5, art. 260350
100 insulated butt connectors 1,5-2,5, art. 260352
100 insulated butt connectors 2,5-6, art. 260354

Art. no.	quantity	Insulation	kg	PU
260765 ✷	1200	PVC	3,367	1

Assortment of insulated terminals

Content: 1250 insulated terminals, 1 crimping pliers (art. 210802), press range 1.5 - 6 mm², in plastic bulk storage chest.
100 insulated ring terminals 0,25-1,5, M3, art. 260252
100 insulated ring terminals 0,25-1,5, M4, art. 260256
100 insulated ring terminals 0,25-1,5, M5, art. 260258
100 insulated ring terminals 1,5-2,5, M4, art. 260270
100 insulated ring terminals 1,5-2,5, M5, art. 260272
50 insulated ring terminals 1,5-2,5, M6, art. 260274
100 insulated ring terminals 2,5-6, M5, art. 260286
50 insulated ring terminals 2,5-6, M6, art. 260288
50 insulated fork type 0,25-1,5, M4, art. 260304
50 insulated fork type 1,5-2,5, M4, art. 260314
50 insulated fork type 2,5-6, M5, art. 260322
50 insulated butt connectors 0,25-1,5, art. 260350
50 insulated butt connectors 1,5-2,5, art. 260352
50 insulated butt connectors 2,5-6, art. 260354
50 insulated round pin 0,25-1,5, art. 260370
50 insul. round pin 1,5-2,5, art. 260372
50 insul. round pin 2,5-6, art. 260374
50 insul. socket sleeves 1,5-2,5/6,3x0,8, art. 260394
50 insul. flat terminals 1,5-2,5/6,3x0,8, art. 260424

Art. no.	quantity	Insulation	for	kg	PU
260764	1250	PVC	210802	3,2776	1
262048	1250	PVC	without pliers	3,400	1

Assortment of insulated terminals

Content: 1.200 crimping terminals, crimping pliers (art. 210802),
crimp 0,5 - 6,0 mm², in plastic bulk storage chest 415 x 335 x 90 mm.
100 insulated ring terminals 0,25-1,5, M4, art. 260256
100 insulated ring terminals 0,25-1,5, M5, art. 260258
100 insulated ring terminals 0,25-1,5, M6, art. 260260
100 insulated ring terminals 1,5-2,5, M4, art. 260270
100 insulated ring terminals 1,5-2,5, M5, art. 260272
100 insulated ring terminals 1,5-2,5, M6, art. 260274
100 insulated ring terminals 2,5-6, M5, art. 260286
100 insulated ring terminals 2,5-6, M6, art. 260288
100 insulated ring terminals 2,5-6, M8, art. 260290
100 insulated butt connectors 0,25-1,5, art. 260350
100 insulated butt connectors 1,5-2,5, art. 260352
100 insulated butt connectors 2,5-6, art. 260354

Art. no.	quantity	Insulation	kg	PU
260777 ✷	1200	PVC	2,980	1

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RoHS

SysCon insulated terminals & 210761

Content: 1500 insulated terminals

1	220370	ABS plastic box SysCon S			
1	220375	Assortment insert SysCon			
1	220399	Foam SysCon 400 x 300 x 10 mm			
1	210761	Crimping pliers for insulated terminals 0,5 – 6 mm²			
200	260350	Butt connectors, red	0,5/1,0		PVC
200	260352	Butt connectors, blue	1,5/2,5		PVC
100	260354	Butt connectors, yellow	4,0/6,0		PVC
200	260256	Ring terminals, red	0,5/1,0	M4	PVC
200	260258	Ring terminals, red	0,5/1,0	M5	PVC
200	260270	Ring terminals, blue	1,5/2,5	M4	PVC
200	260272	Ring terminals, blue	1,5/2,5	M5	PVC
100	260288	Ring terminals, yellow	4,0/6,0	M6	PVC
100	260290	Ring terminals, yellow	4,0/6,0	M8	PVC

Art. no.	quantity	Insulation	type	kg	PU
220381	1500	PVC	DIN	4,300	1

SysCon insulated terminals / end sleeves & 210784

Content: insulated terminals and end sleeves

1	220370	ABS plastic box SysCon S			
1	220375	Assortment insert SysCon			
1	220399	Foam SysCon 400 x 300 x 10 mm			
1	210784	Crimping pliers for insulated terminals and end sleeves			
200	260350	Butt connectors, red	0,5-1,0		PVC
200	260352	Butt connectors, blue	1,5-2,5		PVC
200	260256	Ring terminals, red	0,5-1,0	M4	PVC
200	260272	Ring terminals, blue	1,5-2,5	M5	PVC
200	260274	Ring terminals, blue	1,5-2,5	M6	PVC
1000	270807	End sleeves, black	1,5/8		
1000	270811	End sleeves, blue	2,5/8		
500	270815	End sleeves, grey	4/10		
200	270818	End sleeves, yellow	6/12		

Art. no.	quantity	Insulation	type	kg	PU
220391	3700	PVC	DIN	4,300	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Socket sleeves

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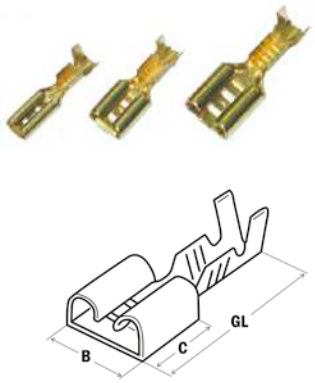
Socket sleeves (male and female)

RoHS

Socket sleeves (female)

- bare brass
- not insulated, to DIN 46247/part 1 - 3 and similar

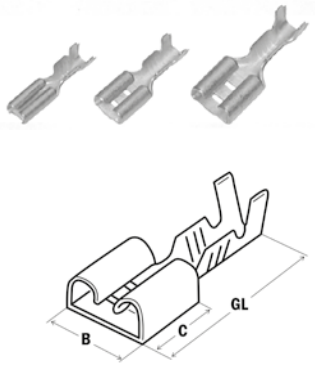
Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280000	**0,5 - 1**	6,3x0,8	19,2	7,6	7,6	0,073	200
280004	**1 - 2,5**	6,3x0,8	19,2	7,6	7,6	0,079	200
280008	**0,5 - 1,25**	4,8x0,8	15	6,4	5,6	0,075	200
280012		4,8x0,5	15	6,4	5,6	0,043	200
280016		2,8x0,8	16	6,4	3,75	0,040	200
280020		2,8x0,5	16	6,4	3,75	0,020	200



Socket sleeves (female)

- bare brass
- not insulated, to DIN 46247/part 1 - 3 and similar

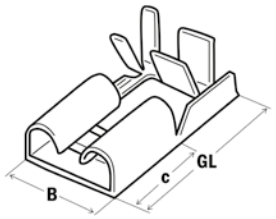
Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280030	**0,5 - 1,0**	6,3x0,8	19,2	7,6	7,6	0,073	200
280034	**1 - 2,5**	6,3x0,8	19,2	7,6	7,6	0,038	200
280038	**0,5 - 1,25**	4,8x0,8	15	6,4	5,6	0,0495	200
280042		4,8x0,5	15	6,4	5,6	0,0265	200
280046		2,8x0,8	16	6,4	3,75	0,0225	200
280050		2,8x0,5	16	6,4	3,75	0,0265	200



Socket sleeves (female)

- bare brass
- not insulated, to DIN 46247/part 1 - 3 and similar

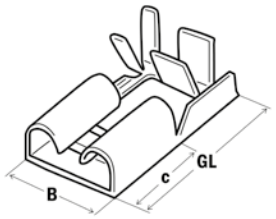
Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280060	**0,5 - 1,0**	6,3x0,8	14,1	7,6	7,6	0,073	200
280064	**1 - 2,5**	6,3x0,8	14,1	7,6	7,6	0,0775	200



Socket sleeves (female)

- bare brass
- not insulated, to DIN 46247/part 1 - 3 and similar

Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280070	**0,5 - 1,0**	6,3x0,8	14,1	7,6	7,6	0,075	200
280074	**1 - 2,5**	6,3x0,8	14,1	7,6	7,6	0,0775	200



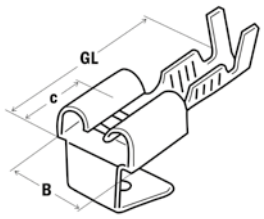
Socket sleeves (male and female)

RoHS

Socket sleeves (female) with branch

- bare brass
- not insulated, to DIN 46247/part 1 - 3 and similar

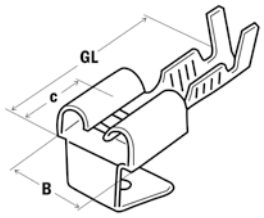
Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280080	**0,5 - 1,0**	6,3x0,8	19,6	7,7	7,6	0,1075	200
280084	**1 - 2,5**	6,3x0,8	16,2	7,7	7,6	0,103	200



Socket sleeves (female) with branch

- bare brass
- not insulated, to DIN 46247/part 1 - 3 and similar

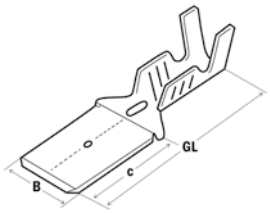
Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280090	**0,5 - 1,0**	6,3x0,8	19,6	7,7	7,6	0,110	200
280094	**1 - 2,5**	6,3x0,8	16,2	7,7	7,6	0,112	200



Flat terminals

- bare brass
- uninsulated

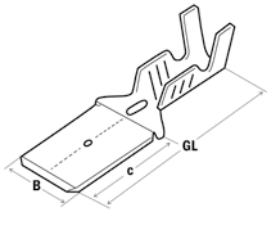
Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280100	**0,5 - 1,0**	6,3x0,8	20,6	6,35	6,3	0,055	200
280104	**1 - 2,5**	6,3x0,8	17,2	6,35	6,3	0,057	200



Flat terminals

- tin-plated brass
- uninsulated

Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280110	**0,5 - 1,0**	6,3x0,8	20,6	6,35	6,3	0,054	200
280114	**1 - 2,5**	6,3x0,8	17,2	6,35	6,3	0,057	200



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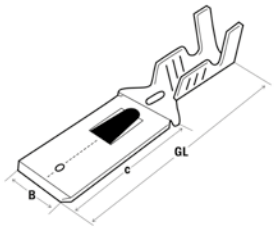
Socket sleeves (male and female)

RoHS

Socket sleeves (male) with latching tongue

- bare brass
- uninsulated

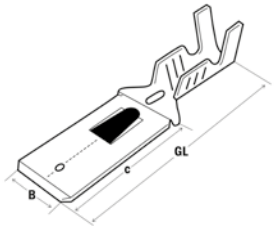
Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280101	**0,5 - 1,0**	6,3x0,8	20	8	6,3	0,200	200
280105	**1 - 2,5**	6,3x0,8	20	8	6,3	0,085	200



Socket sleeves (male) with latching tongue

- tin-plated brass
- uninsulated

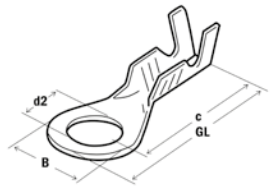
Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280111	**0,5 - 1,0**	6,3x0,8	20	8	6,3	0,082	200
280115	**1 - 2,5**	6,3x0,8	20	8	6,3	0,089	200



Ring terminals

- bare brass
- uninsulated

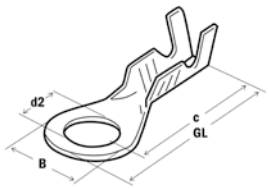
Art. no.	CSS	M	d2	⟷	B	kg/100	PU
280120	**0,5 - 1,0**	3	3,2	21	8	0,054	200
280124		4	4,3	21	8	0,038	200
280128		5	5,08	22	9,5	0,068	200
280132	**1 - 2,5**	3	3,2	21	8	0,076	200
280136		4	4,3	21	8	0,046	200
280140		5	5,08	22	9,5	0,045	200



Ring terminals

- tin-plated brass
- uninsulated

Art. no.	CSS	M	d2	⟷	B	kg/100	PU
280150	**0,5 - 1,0**	3	3,2	21	8	0,057	200
280154		4	4,3	21	8	0,040	200
280158		5	5,08	22	9,5	0,056	200
280162	**1 - 2,5**	3	3,2	21	8	0,076	200
280166		4	4,3	21	8	0,046	200
280170		5	5,08	22	9,5	0,043	200



PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Socket sleeves (male and female)

RoHS

Flat terminals

- bare brass
- uninsulated

Art. no.	plug	d2	⟷	form		kg/100	PU
280180	6,3x0,8	4,2	19,2	1	0°	0,076	200
280182	6,3x0,8	4,2	10,2	5	45°	0,082	200
280184	6,3x0,8	4,2	11,3	2	90°	0,085	200
280186	6,3x0,8	4,2	30,3	4	0°	0,136	200
280188	6,3x0,8	4,2	11,45	3	90°	0,134	200

Flat terminals

- tin-plated brass
- uninsulated

Art. no.	plug	form	⟷	d2		kg/100	PU
280190	6,3x0,8	1	19,2	4,2	0°	0,083	200
280192	6,3x0,8	5	10,2	4,2	45°	0,084	200
280194	6,3x0,8	2	11,3	4,2	90°	0,095	200
280196	6,3x0,8	4	30,3	4,2	0°	0,1365	200
280198	6,3x0,8	3	11,45	4,2	90°	0,272	200

Insulating sleeves

- of PVC and nylon

Art. no.	plug	form	Insulation	kg/100	PU
280200	6,3x0,8	1	PVC	0,056	100
280202	6,3x0,8	2	Nylon	0,069	100
280204	4,8x0,8	6	PVC	0,047	100
280206	4,8x0,8	2	Nylon	0,071	100
280208	2,8x0,8	6	PVC	0,036	100
280210	2,8x0,8	5	Nylon	0,043	100
280212	6,3x0,8	4	PVC	0,063	100
280214	6,3x0,8	3	Nylon	0,048	100

Elastic connectors with socket sleeves (male)

- 1 - 12 pole
- PVC, natural colour

Art. no.	plug	⟷	form	B	Insulation	kg/100	PU
280460	2,8x0,8	7,5	1	35	PVC	0,157	100
280482	2,8x0,8	88	12	35	PVC	1,770	10
280490	4,8x0,8	12,5	1	28	PVC	0,200	100
280512	4,8x0,8	147	12	28	PVC	2,800	10
280520	6,3x0,8	12,5	1	28	PVC	0,240	100
280542	6,3x0,8	147	12	28	PVC	2,850	10
280550	2,8x0,8	12,5	1	28	PVC	0,250	100
280572	2,8x0,8	147	12	28	PVC	0,440	50

Elastic cable distributors

- PVC, natural colour

Art. no.	plug	⟷	form	c	Insulation	kg/100	PU
280580	6,3x0,8	53	1	15	PVC	0,500	50
280582	6,3x0,8	51	2	13	PVC	0,500	50

Small packages

RoHS

Socket sleeves (female) SmallPack

- bare brass
- not insulated

Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280000/20	**0,5 - 1**	6,3x0,8	19,2	7,6	7,6	0,073	20
280004/20	**1 - 2,5**	6,3x0,8	19,2	7,6	7,6	0,073	20
280008/20	**0,5 - 1,25**	4,8x0,8	15	6,4	5,6	0,073	20

Socket sleeves (female) SmallPack with branch

- bare brass
- not insulated

Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280084/20	**1 - 2,5**	6,3x0,8	16,2	7,7	7,6	0,073	20

Flat terminals SmallPack

- bare brass
- not insulated

Art. no.	CSS	plug	⟷	c	B	kg/100	PU
280100/20	**0,5 - 1,0**	6,3x0,8	20,6	6,35	6,3	0,073	20
280104/20	**1 - 2,5**	6,3x0,8	17,2	6,35	6,3	0,073	20

Cable lugs and connectors

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... convincing solutions

INFO

Instructions

1. The choice of the connector

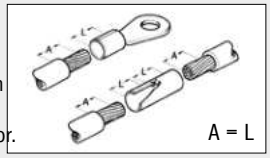
In order to obtain a connection that can be guaranteed for a long time it is necessary to select the connectors suitable to the application field and strictly conform to the section of the cable to be crimped.
In the large range of Haupa products you will certainly find the ideal solution for every requirement.

2. Stripping

Every crimping operation requires first that the cable is stripped without deforming the wires (+10% - since length expansion of crimp sleeve).

3. Cleaning

The conductor ends have to be solidly cleaned from oxidation and every rest of dirt before mounting.

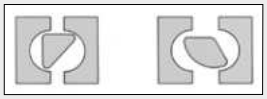


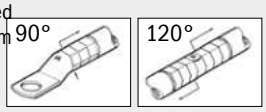
4. Assembling

a) Fit the connector to the cable with a round section in the complete lenght of the stripped area.
b) Verify that there are no wires outside the connector.
If you need to use sectoral cables you must arrange a previous rounding crimping operation of the cable.

5. Choice of the crimping tool

All dies and punchings of the Haupa crimp system guarantee a high degree of connection between connector and cable. Exercise the crimping operation as shown in drawing 1 on the terminals and as drawing 2 on the butt connectors. The elevated pressure exerted by dies on terminals cause a uniform deformation on the whole crimping area.





6. Caution

For aluminium cables shoes and connectors, excess, escaped pressing additives must be wiped away.

7. Tensile strength

When correctly processed in accordance with the HAUPA pressing instructions and using HAUPA pressing tools, a tensile strength is ensured in accordance with DIN EN61238-1.

Pressing number for HAUPA conduit terminals and connectors

	HAUPA standard tubular cable lugs commonly-a vailable version VDE 0295 class 2		HAUPA F-Type tubular cable lugs Cable class 5 / 6
conductor cross section CSS	quantity crimpings slim 5 mm	quantity crimpings wide > 8 mm	quantity crimpings
0,75	1	-	-
1,5	1	-	-
2,5	1	-	-
4	1	-	-
6	1	-	-
10	1	1	-
16	1	1	1
25	2	1	1
35	2	1	1
50	2	1	1
70	2	1	1
95	2	1	1
120	2	1	1
150	2	1	2
185	2	**1***	2
240	4	2	2
300	4	2	2
400	4	2	-
500	4	2	-
625	4	2	-

* when using the four thorn pressing, number of pressings: 2

Temperature resistance

Connector	Temperature
Cable lugs & connectors copper	max.120° C (in acc. DIN 46234)
Cable lugs & connectors aluminium	max.120° C (in acc. IEC 61238)
Cable lugs & connectors of pure nickel	max. 500° C
End sleeves without insulation	max. 120° C (in acc. DIN 46234)
End sleeves insulated	max. 120° C (in acc. DIN 46234)
Insulated terminals PVC	- 10° C --> + 75° C
Insulated terminals Nylon	- 55° C --> + 105° C
Insulated terminals PC	- 40° C --> + 125° C
Shrinking terminals	- 55° C --> + 105° C
Socket sleeves male & female, tin-coated brass, uninsulated	- 55° C --> + 100° C

HAUPA cable connections with insulated cables, maximum power loads

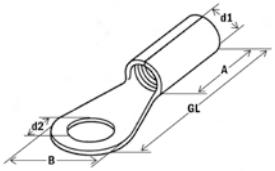
Core cross-section mm²	Duct-laid single core cables		Mehrdrähtige Leitungen		Exposed air laid single core (gap corresponds to diameter at the least)	
CU	AL	CU	AL	CU	AL	
(A)	(A)	(A)	(A)	(A)	(A)	
0,75	-	-	12	-	15	-
1	11	-	15	-	19	-
1,5	15	-	15	-	19	-
2,5	20	-	26	-	32	-
4	25	-	34	-	42	-
6	33	-	44	-	54	-
10	45	-	61	48	73	57
16	61	48	82	64	98	77
25	83	65	108	85	129	103
35	103	81	135	105	158	124
50	132	103	168	132	198	155
70	165	-	207	163	245	193
95	197	-	250	197	292	230
120	235	-	292	230	344	268
150	-	-	335	263	391	310
185	-	-	383	301	448	353
240	-	-	453	357	528	414
300	-	-	504	409	608	479
400	-	-	-	-	726	569
500	-	-	-	-	830	649

Valid at ambient temperatures of 30 degrees Celsius

RoHS

Crimp ring terminals without insulation DIN 46234

- Material: 99,9% electrolytic copper
- Surface: tin-plated
- Ring type
- For conductors, e.g. to VDE 0295 class 2,5,6
- Hard soldered in crimping area
- Grooved profile for improved contact caracteristics

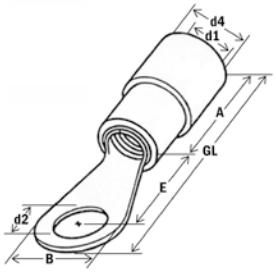


Art. no.	CSS	M	d2	d1	A	↔	B	kg/100	PU
290619	**0,5 - 1,0**	2,5	2,6	1,95	5,2	17,25	8	0,056	100
290620 ✷		3	3,2	1,95	5,2	17,25	8	0,055	100
290621		3,5	3,7	1,95	5,2	17,25	8	0,039	100
290622		4	4,2	1,95	5,2	16,65	8	0,065	100
290624		5	5,2	1,95	5,2	17,25	8	0,082	100
290623 ✷		6	6,2	1,95	5,2	18,5	10	0,091	100
290625		8	8,2	1,95	5,2	25	14	0,121	100
290617		10	10,5	1,95	5,2	25	14	0,178	100
290626	**1,5 - 2,5**	3	3,2	2,45	5,2	17,25	8	0,065	100
290627		3,5	3,7	2,45	5,2	17,25	8	0,058	100
290628		4	4,2	2,45	5,2	17,25	8	0,076	100
290630 ✷		5	5,2	2,45	5,2	20	10	0,097	100
290632 ✷		6	6,2	2,45	5,2	22	11	0,110	100
290634		8	8,2	2,45	5,2	26,8	15	0,132	100
290635		10	10,5	2,45	5,2	26,8	15	0,1383	100
290636	**4 - 6,0**	4	4,2	3,5	6,5	18,7	8	0,131	100
290637		3,5	3,7	3,5	6,5	18,7	8	0,058	100
290646 ✷		5	5,3	3,6	6	15	10	0,157	100
290648 ✷		6	6,5	3,6	6	16	11	0,166	100
290650		8	8,4	3,6	6	19	14	0,214	100
290652		10	10,5	3,6	6	21	18	0,281	100
290654		12	13	3,6	6	21	18	0,219	100
290656	**10**	5	5,3	4,5	8	16	10	0,216	100
290658 ✷		6	6,4	4,5	8	17	11	0,227	100
290660		8	8,4	4,5	8	20	14	0,280	100
290662		10	10,5	4,5	8	21	18	0,339	100
290663		12	13	4,5	8	23	22	0,300	100
290664	**16**	5	5,3	5,8	10	20	10	0,353	100
290666		6	6,4	5,8	10	20	11	0,362	100
290668 ✷		8	8,4	5,8	10	22	14	0,404	100
290670		10	10,5	5,8	10	24	18	0,477	100
290672		12	13	5,8	10	26	22	0,565	100
290676	**25**	6	6,4	7,5	11	25	12	0,706	50
290678 ✷		8	8,4	7,5	11	25	16	0,776	50
290680		10	10,5	7,5	11	26	18	0,764	50
290682		12	13	7,5	11	31	22	0,886	50
290684		16	17	7,5	11	35	28	1,190	50
290686 ✷	**35**	8	8,4	9	12	26	16	0,896	50
290688		10	10,5	9	12	27	18	0,900	50
290690		12	13	9	12	31	22	1,000	50
290692		16	17	9	12	36	28	1,400	50
290694	**50**	8	8,4	11	16	34	18	1,600	50
290696 ✷		10	10,5	11	16	34	18	1,600	50
290698		12	13	11	16	36	22	1,700	50
290700		16	17	11	16	40	28	2,000	25
290701	**70**	8	8,4	13	18	38	22	2,500	25
290702 ✷		10	10,5	13	18	38	22	2,500	25
290704		12	13	13	18	38	22	2,400	20
290707	**95**	8	8,4	15	20	42	24	3,800	20
290708 ✷		10	10,5	15	20	42	24	3,800	20
290710 ✷		12	13	15	20	42	24	3,700	20
290712		16	17	15	20	44	28	3,900	20
290713 ✷	**120**	10	10,5	16,5	22	44	24	5,200	25
290714 ✷		12	13	16,5	22	44	24	5,200	25
290716		16	17	16,5	22	48	28	6,200	25
290717		20	21	16,5	22	53	32	5,900	25
290719	**150**	10	10,5	19	24	50	30	7,500	25
290721 ✷		12	13	19	24	50	30	7,400	25
290718		16	17	19	24	50	30	6,800	25
290720 ✷	**185**	16	17	21	25	50	36	9,400	10

RoHS

Insulated crimp cable lugs

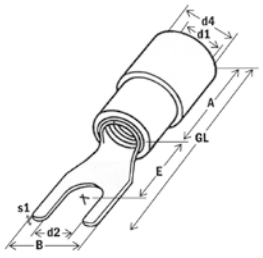
- Nylon-insulated
- Material: 99,9% E-Cu
- Surface: tin-plated
- Ring type
- For conductors, e.g. to VDE 0295 class 2, 5, 6
- Hard soldered in crimping area
- Grooved profile for improved contact caracteristics
- Crimp direct with insulation



Art. no.	CSS	M	d2	d1	d2	A	⟷	kg/100	PU
260902	**10**	5	5,3	4,5	8	16,5	24,5	0,283	100
260904 ✸		6	6,5	4,5	8	16,5	25,5	0,240	100
260906		8	8,4	4,5	8	16,5	28,5	0,200	100
260908		10	10,5	4,5	8	16,5	29,5	0,400	100
260910		12	13	4,5	8	16,5	31,5	0,420	100
260912	**16**	5	5,3	5,8	11	21,5	31,5	0,400	100
260914		6	6,5	5,8	11	21,5	31,5	0,400	100
260916 ✸		8	8,4	5,8	11	21,5	33,5	0,500	100
260918		10	10,5	5,8	11	21,5	35,5	0,600	100
260920		12	13	5,8	11	21,5	37,5	0,600	100
260922	**25**	5	5,3	7,5	13	24	38	0,800	100
260924		6	6,5	7,5	13	24	38	0,800	100
260926 ✸		8	8,4	7,5	13	24	38	0,900	100
260928		10	10,5	7,5	13	24	39	1,000	100
260930		12	13	7,5	13	24	44	1,100	100
260932		16	17	7,5	13	24	48	1,300	100
260934	**35**	6	6,5	9	14,5	27	41	1,100	100
260936 ✸		8	8,4	9	14,5	27	41	1,000	100
260938		10	10,5	9	14	27	42	1,000	100
260940		12	13	9	14,5	27	46	1,260	100
260942		16	17	9	14,5	27	51	1,550	100
260944	**50**	6	6,5	11	16,5	29,5	47,5	3,300	50
260946 ✸		8	8,4	11	16,5	29,5	47,5	3,300	50
260948		10	10,5	11	16,5	29,5	47,5	3,200	50
260950		12	13	11	16,5	29,5	49,5	3,600	50
260952		16	17	11	16,5	29,5	53,5	4,200	50
260954	**70**	6	6,5	13	18,7	31,5	51	5,200	50
260956		8	8,4	13	18,7	31,5	51	5,000	50
260960		12	13	13	18,7	31,5	51	5,000	50
260962		16	17	13	18,7	31,5	55	5,400	50
260964 ✸	**95**	8	8,4	15	21,7	35,5	57,5	8,000	50
260966		10	10,5	15	21,7	35,5	57,5	8,200	50
260968		12	13	15	21,7	35,5	57,5	7,800	50
260970		16	17	15	21,7	35,5	59,5	8,200	50
260972	**120**	8	8,4	16,5	24,2	40	62	10,600	25
260974 ✸		10	10,5	16,5	24,2	40	62	11,200	25
260976		12	13	16,5	24,2	40	62	10,800	25
260978		16	17	16,5	24,2	40	66	11,600	25
260980	**150**	10	10,5	19	27,2	44	70	16,800	25
260982		12	13	19	27,2	44	70	16,800	25
260984		16	17	19	27,2	44	70	16,800	25

Solderless terminals for meter connection

- Nylon-insulated
- Material: 99,9% E-Cu
- Surface: tin-plated
- Fork type
- For conductors, e.g. to VDE 0295 class 2, 5, 6
- Hard soldered in crimping area
- Grooved profile for improved contact caracteristics
- Crimp direct with insulation



Art. no.	CSS	M	kg/100	PU
260858	**10**	5	0,302	50
260860 ✸		6	0,320	50
260862	**16**	6	0,584	50
260863 ✸		8	0,630	50

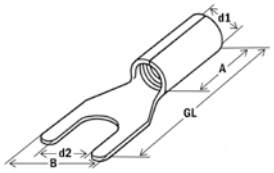
PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

RoHS

Fork terminals without insulation

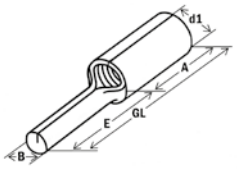
- Material: 99,9% E-Cu
- Surface: tin-plated
- Fork type
- For conductors, e.g. to VDE 0295 class 2, 5, 6
- Hard soldered in crimping area
- Grooved profile for improved contact caracteristics



Art. no.	CSS	M	d2	d1	A	⟷	B	kg/100	PU
290730 ✷	**0,5 - 1,0**	3	3,2	1,95	5,2	14,6	5,6	0,076	100
290731		3,5	3,7	1,95	5,2	14,9	6,5	0,077	100
290732		4	4,2	1,95	5,2	15	6,4	0,058	100
290734		5	5,2	1,95	5,2	16,25	8	0,086	100
290735		6	6,2	1,95	5,2	17,5	9,2	0,087	100
290736	**1,5 - 2,5**	3	3,2	2,45	5,2	17,25	5,6	0,088	100
290739		3,5	3,7	2,45	5,2	14,3	6,6	0,083	100
290738 ✷		4	4,2	2,45	5,2	14,3	6,6	0,082	100
290740		5	5,2	2,45	5,2	19,25	9,1	0,095	100
290742		6	6,2	2,45	5,2	21	10,8	0,120	100
290744	**4 - 6,0**	4	4,2	3,5	6,5	18,6	8	0,152	100
290746		5	5,2	3,5	6,5	21,1	9	0,176	100
290748 ✷		6	6,2	3,5	6,5	22,3	11	0,161	100
290750		8	8,2	3,5	6,5	27,3	15,2	0,252	100
290751		10	10,5	3,5	6,5	30,2	19	0,319	100
290752	**10**	5	5,2	4,7	8,5	20,8	10,5	0,248	100
290754 ✷		6	6,4	4,7	8,5	20,8	10,3	0,260	100
290756 ✷	**16**	6	6,4	5,8	10,5	25,5	11	0,513	100

Pin terminals without insulation DIN 46230

- Material: 99,9% E-Cu
- Surface: tin-plated
- Pin type
- For conductors, e.g. to VDE 0295 class 2, 5, 6
- Hard soldered in crimping area
- Grooved profile for improved contact caracteristics



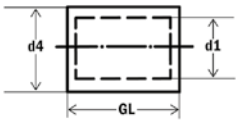
Art. no.	CSS	d1	A	⟷	E	B	kg/100	PU
290770 ✷	**0,5 - 1,0**	1,85	5	17,3	12	1,8	0,083	100
290771		1,85	5	17,3	9	1,8	0,078	100
290773 ✷	**1,5 - 2,5**	2,4	5	17,3	12	1,8	0,065	100
290775		2,4	5	17,3	9	1,8	0,058	100
290777	**4 - 6,0**	3,6	6	24,5	12,5	2,6	0,157	100
290776	**10**	4,5	8,5	20,5	14	4	0,300	100
290778 ✷	**16**	5,8	10,5	26,5	14	4,5	0,411	100
290780 ✷	**25**	7	14	33	15	7	0,600	100
290782	**35**	8,2	16	40	20	8	1,238	100
290784	**50**	9,5	19	45	20	9,5	1,800	100
290786	**70**	11,2	24	55	25	11,5	3,053	50
290788	**95**	13,59	24	55	25	13,5	4,100	50

Connectors

RoHS

Parallel connectors DIN 46341 part 1, type A

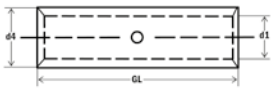
- Material: 99,9% electrolytic copper
- Surface: tin-plated
- For connecting different conductor cross-sections
- Hard soldered in crimping area
- Grooved profile for improved contact caracteristics



Art. no.	CSS	d1	d2	⟷	kg/100	▭	PU
291090 ✷	**0,5 - 1,0**	1,6	3,3	7	0,064	2000	100
291092	**1,5 - 2,5**	2,3	4,2	7	0,070	2000	100
291096	**4 - 6**	3,6	5,5	7	0,090	1800	100
291098 ✷	**10**	4,5	7	9	0,165	2000	100
291100	**16**	5,5	8,5	10	0,274	1000	100
291102	**25**	7	10	13	0,500	600	100
291104	**35**	8,5	12	16	0,800	300	50
291106	**50**	10	14	19	1,200	300	50
291108	**70**	12	16,5	19	1,600	200	50
291110	**95**	13,5	18	20	2,400	150	25
291112	**120**	15	19,5	22	3,500	100	25
291114	**150**	16,5	21	26	3,000	80	20

Solderless butt connectors DIN 46341 part 1, type B

- Material: 99.9% electrolytic copper
- Surface: tin-plated
- annealing for easier crimping
- For stranded conductors e.g. VDE 0295 class 2, 5, 6
- With buttmarks for precise cable insertion



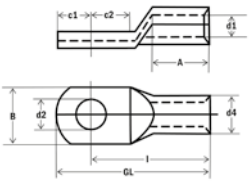
Art. no.	CSS	d1	d2	⟷	kg/100	▭	PU
291119 ✷	**0,5 - 1,0**	1,6	3,3	15	0,200	2000	100
291120 ✷	**1,5 - 2,5**	2,3	4,2	15	0,127	2000	100
291124 ✷	**4 - 6**	3,6	5,5	15	0,200	2000	100
291126 ✷	**10**	4,5	7	21	0,300	800	100
291128 ✷	**16**	5,5	8,5	26	0,600	500	100
291130	**25**	7	10	29	1,100	400	50
291132	**35**	8,5	12	32	1,500	150	25
291134	**50**	10	14	48	2,300	150	25
291136	**70**	12	16,5	48	3,400	100	25
291138	**95**	13,5	18	48	5,800	50	25
291140	**120**	15	19,5	48	8,500	50	25
291142	**150**	16,5	21	48	11,100	40	20

RoHS

Tubular terminals, Light T series

light

- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated
- with sight hole



Art. no.	CSS	M	d2	d1	A	⟷	kg/100	▭	PU
294000	**1,5**	4	4,3	2,4	7	19	0,105	2000	100
294002 ✸		5	5,3	2,4	7	19	0,101	2000	100
294004		6	6,4	2,4	7	20	0,101	2000	100
294006	**2,5**	4	4,3	2,7	7	19	0,117	2000	100
294008 ✸		5	5,3	2,7	7	19	0,113	2000	100
294010		6	6,4	2,7	7	21	0,119	2000	100
294012		8	8,3	2,7	7	23	0,121	2000	100
294014	**4**	4	4,3	3,1	9,5	21,5	0,162	2000	100
294016 ✸		5	5,3	3,1	9,5	21,5	0,152	2000	100
294018		6	6,4	3,1	9,5	23,5	0,100	2000	100
294020		8	8,3	3,1	9,5	28,5	0,200	2000	100
294022	**6**	4	4,3	3,8	10	26	0,200	1800	100
294024 ✸		5	5,3	3,8	10	26	0,200	1800	100
294026 ✸		6	6,4	3,8	10	26	0,300	1400	100
294028		8	8,3	3,8	10	29	0,200	1400	100
294034	**10**	5	5,3	4,7	11,5	27,5	0,300	1000	100
294036 ✸		6	6,4	4,7	11,5	27,5	0,300	1000	100
294038 ✸		8	8,3	4,7	11,5	30,5	0,300	800	100
294040		10	10,5	4,7	11,5	30,5	0,300	600	100
294044	**16**	5	5,3	5,6	12	27,5	0,400	600	100
294046		6	6,4	5,6	12	27,5	0,400	600	100
294048 ✸		8	8,3	5,6	12	31	0,500	400	100
294050		10	10,5	5,6	12	32	0,400	400	100
294052		12	13,2	5,6	12	37,5	0,500	400	100
294054	**25**	6	6,4	7,1	13,5	34	0,700	400	50
294056 ✸		8	8,3	7,1	13,5	34	0,700	400	50
294058		10	10,5	7,1	13,5	37	0,700	300	50
294060 ✸		12	13,2	7,1	13,5	40	0,800	300	50
294062	**35**	6	6,4	8,2	16	39	1,300	240	50
294064 ✸		8	8,3	8,2	16	39	2,900	240	50
294066		10	10,5	8,2	16	43	1,300	160	50
294068		12	13,2	8,2	16	43	1,200	160	50
294070		14	14,5	8,2	16	48	1,300	160	50
294080	**50**	6	6,4	9,5	20	45	1,700	150	40
294082		8	8,3	9,5	20	45	1,700	150	40
294084 ✸		10	10,5	9,5	20	49	1,900	150	40
294086		12	13,2	9,5	20	49	1,800	100	40
294088		14	14,5	9,5	20	54	1,900	100	30
294094	**70**	8	8,3	11,5	20	47,6	2,700	100	25
294096 ✸		10	10,5	11,5	20	51,6	2,800	100	25
294098		12	13,2	11,5	20	51,6	2,600	100	25
294100		14	14,5	11,5	20	62,6	3,300	80	20
294102		16	16,5	11,5	20	62,6	3,100	80	20
294106	**95**	8	8,3	13,5	22	55,8	3,500	80	20
294108		10	10,5	13,5	22	55,8	3,500	80	20
294110 ✸		12	13,2	13,5	22	55,8	2,900	80	20
294112		14	14,5	13,5	22	66,8	4,000	60	15
294114		16	16,5	13,5	22	66,8	3,900	60	15
294118	**120**	10	10,5	15,6	27	71,5	6,900	80	10
294120 ✸		12	13,2	15,6	27	71,5	6,800	80	10
294122		14	14,5	15,6	27	71,5	6,600	40	10
294124		16	16,5	15,6	27	71,5	6,400	40	10
294128	**150**	10	10,5	16,5	32	78	8,000	40	10
294130 ✸		12	13,2	16,5	32	78	8,000	40	10
294132		14	14,5	16,5	32	78	7,800	40	10
294134		16	16,5	16,5	32	78	7,500	40	10
294138	**185**	10	10,5	18,4	34	84	11,200	40	10
294140		12	13,2	18,4	34	84	11,200	40	20
294142		14	14,5	18,4	34	84	10,800	40	20
294144		16	16,5	8,4	34	84	10,800	40	20
294150	**240**	12	13,2	21,2	37	90	13,300	20	10
294152		14	14,5	21,2	37	90	13,000	20	10
294154 ✸		16	16,5	21,2	37	90	15,000	20	10
294160	**300**	12	13,2	23,4	40	96	15,400	16	8
294162		14	14,5	23,4	40	96	15,000	16	8
294164		16	16,5	23,4	40	96	2,900	16	8
294174	**400**	16	16,5	26,8	37	104,7	22,700	10	5
294176		20	21	26,8	37	104,7	22,000	10	5
294184	**500**	16	16,5	29,8	46,5	115,5	42,000	6	3
294196	**630**	20	21	34,5	50	133	66,800	6	3

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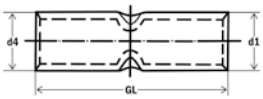
Tubular terminals and connectors, standard series

RoHS

Butt connectors, Light M series

light

- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated
- annealing for easier crimping
- for stranded conductors e.g. VDE 0295 class 2
- with buttmarks for precise cable insertion



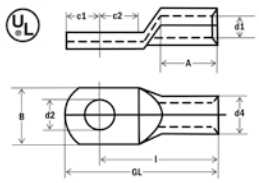
Art. no.	CSS	d1	d2	⟷	kg/100	▭	PU
294200	**1,5**	2,4	4	22	0,080	2000	200
294202	**2,5**	2,7	4,3	22	0,080	2000	200
294204	**4**	3,1	4,8	25	0,300	1000	100
294206	**6**	3,8	5,5	25	0,300	1000	100
294208	**10**	4,7	6,9	25	0,400	600	100
294210	**16**	5,6	7,8	29	0,500	600	100
294212	**25**	7,1	9,5	29	0,700	500	50
294214	**35**	8,2	11	35	1,200	300	50
294218	**50**	9,5	12,5	35	1,400	240	40
294220	**70**	11,5	15	45	2,700	120	20
294222	**95**	13,5	17	47	3,200	40	20
294224	**120**	15,6	20	52	5,500	40	20
294226	**150**	16,5	21	59	6,500	40	20
294228	**185**	18,4	23,6	65	9,200	40	20
294230	**240**	21,2	26,4	75	11,900	20	10
294232	**300**	23,4	28,6	90	14,500	10	5
294234	**400**	26,8	32,8	106	24,200	10	5

Tubular cable lugs, standard series

HUPtype

- For stranded round shaped conductors e.g. VDE 0295 class 2
- For preround sector shaped conuctors
- Annealed material for easier crimping
- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated
- Vibration and shock proofing DIN EN 61373:1999-11, Cat. 1, Cl. B

available with and without sight hole e.g. 29 09 00/S (add xx xx xx/s when ordering)



Art. no.	CSS	M	d2	d1	d2	A	v1	v2	l	B	c1	c2	kg/100	▭	PU
290900 ✸	**0,75**	3	3,2	1,3	2,8	6	1	-	12	6	3,25	4	0,073	2000	100
290902		4	4,3	1,3	2,8	6	1	-	13	6,5	4	5	0,064	2000	100
290904	**1,5**	3	3,2	1,8	3,3	6	1	-	12	6,5	3,25	4	0,060	2000	100
290906 ✸		4	4,3	1,8	3,3	6	1	-	13	6,5	4	5	0,066	2000	100
290908 ✸		5	5,3	1,8	3,3	6	1	-	14	7,5	4,75	5,5	0,087	2000	100
290910		6	6,5	1,8	3,3	6	1	-	16	9	6,5	6,5	0,097	2000	100
290912	**2,5**	3	3,2	2,3	4,2	6	1	-	12	7,5	3,25	4	0,103	2000	100
290914		4	4,3	2,3	4,2	6	1	-	13	7,5	4	5	0,112	2000	100
290916 ✸		5	5,3	2,3	4,2	6	1	-	14	8,5	4,75	5,5	0,121	2000	100
290918		6	6,5	2,3	4,2	6	1	-	16	9,5	6,5	6,5	0,143	2000	100
290920		8	8,5	2,3	4,2	6	1	-	20	13	7,75	9,5	0,151	2000	100
290922	**4**	4	4,3	3	5	8	1	-	17	8,5	4,75	5,5	0,200	2000	100
290924 ✸		5	5,3	3	5	8	1	-	17	9	4,75	6	0,161	2000	100
290926 ✸		6	6,5	3	5	8	1	-	19	10	6,5	6,5	0,220	2000	100
290928		8	8,5	3	5	8	1	-	22	13	8,5	9,5	0,300	2000	100
290930	**6**	4	4,3	3,5	6,5	9	1	-	18	8,5	5	5,5	0,452	1800	100
290932 ✸		5	5,3	3,5	6,5	9	1	-	21	10	6,5	7,5	0,475	1800	100
290934 ✸		6	6,5	3,5	6,5	9	1	-	21	12	6,5	7,5	0,400	1400	100
290936		8	8,5	3,5	6,5	9	1	-	23	15	10	10	0,500	1400	100
290938	**10**	5	5,3	4,5	7	10	1	-	22	12	6,5	7,5	0,400	1000	100
290940 ✸		6	6,5	4,5	7	10	1	-	22	12	6,5	7,5	0,400	1000	100
290942 ✸		8	8,5	4,5	7	10	1	-	25	15	10	10	0,540	800	100
290944		10	10,5	4,5	7	10	1	-	27	17	12	12	0,573	600	100
290946		12	13	4,5	7	10	1	-	29	19	13	13	0,600	600	100
290948	**16**	5	5,3	5,5	8,5	13	1	1	26	12	5,5	6,5	0,800	600	100
290950		6	6,5	5,5	8,5	13	1	1	27	12	6,25	7,5	0,700	600	100
290952 ✸		8	8,5	5,5	8,5	13	1	1	29	15	8,5	9,5	0,800	400	100
290954		10	10,5	5,5	8,5	13	1	1	31	17	10,5	11,5	0,950	400	100
290956		12	13	5,5	8,5	13	1	1	33	19	12	13	1,000	400	100
290958	**25**	6	6,5	7	10	15	2	1	30	14	7,5	7,5	1,100	400	50
290960 ✸		8	8,5	7	10	15	2	1	32	16	10	10	1,200	400	50
290962		10	10,5	7	10	15	2	1	34	18	12	12	1,200	300	50
290964		12	13	7	10	15	2	1	35	19	13	13	1,300	300	50

Brunel
access to excellence

c UL us
LISTED
(E338116)

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

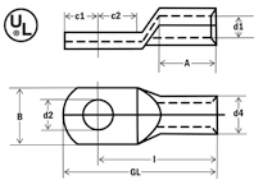
RoHS

Tubular cable lugs, standard series

HUPtype

- For stranded round shaped conductors e.g. VDE 0295 class 2
- For preround sector shaped conuctors
- Annealed material for easier crimping
- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated
- Vibration and shock proofing DIN EN 61373:1999-11, Cat. 1, Cl. B

available with and without sight hole e.g. 29 09 00/S (add xx xx xx/s when ordering)



Brunel
access to excellence

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LISTED
(E338116)

Art. no.	CSS	M	d2	d1	d2	A	v1	v2	l	B	c1	c2	kg/100		PU
290966	**35**	6	6,5	8,5	12	17	2	1	32	17	7,5	7,5	1,900	240	40
290968 ✸		8	8,5	8,5	12	17	2	1	34	17	10	10	1,900	240	40
290970		10	10,5	8,5	12	17	2	1	37	19	12	12	2,100	160	40
290972		12	13	8,5	12	17	2	1	38	21	13	13	2,000	160	40
290974		16	17	8,5	12	17	2	1	42	26	16	16	2,100	160	40
290976	**50**	6	6,5	10	14	19	2	1	37	20	10	10	2,900	160	40
290978 ✸		8	8,5	10	14	19	2	1	37	20	10	10	2,700	160	40
290980 ✸		10	10,5	10	14	19	2	1	39	20	12	12	2,900	160	25
290982		12	13	10	14	19	2	1	43	23	13	13	3,300	100	25
290984		16	17	10	14	19	2	1	46	28	16	16	3,100	100	25
290985	**70**	6	6,5	12	16,5	21	2	1	43	23	10	10	4,200	100	25
290986		8	8,5	12	16,5	21	2	1	43	23	10	10	4,200	100	25
290988 ✸		10	10,5	12	16,5	21	2	1	44	23	12	12	4,300	100	25
290990		12	13	12	16,5	21	2	1	46	23	13	13	4,500	100	25
290991		14	15	12	16,5	21	2	1	48	23	14,5	14,5	4,600	100	25
290992		16	17	12	16,5	21	2	1	50	28	16	16	5,100	100	25
290994	**95**	8	8,5	13,5	18	25	2	1	48	26	12	12	5,300	100	25
290996		10	10,5	13,5	18	25	2	1	48	26	12	12	5,100	100	25
290998 ✸		12	13	13,5	18	25	2	1	49	26	13	13	5,200	100	25
290999		14	15	13,5	18	25	2	1	51	26	14,5	14,5	5,400	60	15
291000		16	17	13,5	18	25	2	1	54	28	16	16	5,600	60	15
291002		20	21	13,5	18	25	2	1	60	36	22	22	6,000	60	15
290004	**120**	8	8,5	15	19,5	26	2	1	51	28	14	14	6,300	60	15
290006 ✸		10	10,5	15	19,5	26	2	1	51	28	14	14	6,200	60	15
290008 ✸		12	13	15	19,5	26	2	1	51	28	14	14	6,100	60	15
290009		14	15	15	19,5	26	2	1	52	28	15	15	5,900	72	18
290010		16	17	15	19,5	26	2	1	54	30	16	16	6,200	60	15
290012		20	21	15	19,5	26	2	1	63	36	22	22	7,900	60	15
290014	**150**	10	10,5	16,5	21	30	2	1	56	31	14	14	7,500	60	15
290016 ✸		12	13	16,5	21	30	2	1	57	31	15	15	7,300	60	15
290017		14	15	16,5	21	30	2	1	57	31	15	15	7,900	60	15
290018		16	17	16,5	21	30	2	1	58	31	16	16	7,500	60	15
290020		20	21	16,5	21	30	2	1	66	36	22	22	8,800	48	12
290022 ✸	**185**	12	13	19	24	30	2	1	65	35	18	18	11,100	40	20
290023		14	15	19	24	30	2	1	65	35	18	18	11,800	40	20
290024 ✸		16	17	19	24	30	2	1	65	35	18	18	10,700	40	20
290026		20	21	19	24	30	2	1	69	39	22	22	10,700	40	20
290028 ✸	**240**	12	13	21	26	35	4	2	72	39	21,5	19	13,700	30	15
290029		14	15	21	26	35	4	2	72	39	21,5	19	13,400	30	15
290030 ✸		16	17	21	26	35	4	2	72	39	21,5	19	13,400	30	15
290034	**300**	12	13	23,5	29,5	44	4	2	87	43	24	24	22,000	16	8
290036		14	15	23,5	29,5	44	4	2	87	43	24	24	21,700	16	8
290038		16	17	23,5	29,5	44	4	2	87	43	24	24	21,300	16	8
290040		20	21	23,5	29,5	44	4	2	87	43	24	24	21,400	16	8
290046	**400**	16	17	27	34	44	4	2	90	49	24	24	31,800	10	5
290048		20	21	27	34	44	4	2	90	49	24	24	30,500	10	5
290041	**500**	16	17	31	38	70	4	2	103	55	24	24	45,000	12	6
290043		20	21	31	38	70	4	2	103	55	24	24	45,000	12	6
290045	**625**	16	17	34	41	70	4	2	108	60	24	24	49,200	6	3
290047		20	21	34	41	70	4	2	108	60	24	24	49,200	6	3

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Tubular terminals and connectors, standard series

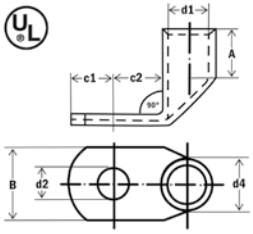
RoHS

Angled tubular cable lugs 90°, standard series

HUPtype

- For stranded round shaped conductors e.g. VDE 0295 class 2
- For preround sector shaped conuctors
- Annealed material for easier crimping
- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated

Cu



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Art. no.	CSS	M	d2	d1	d2	A	v1	v2	↔	B	c1	c2	kg/100	▭	PU
290932/90	**6**	5	5,3	3,5	6,5	9	1	-	21	10	6,5	7,5	0,475	1800	100
290934/90		6	6,5	3,5	6,5	9	1	-	21	12	6,5	7,5	0,400	1400	100
290936/90		8	8,5	3,5	6,5	9	1	-	23	15	10	10	0,500	1400	100
290938/90	**10**	5	5,3	4,5	7	10	1	-	22	12	6,5	7,5	0,400	1000	100
290940/90		6	6,5	4,5	7	10	1	-	22	12	6,5	7,5	0,400	1000	100
290942/90		8	8,5	4,5	7	10	1	-	25	15	10	10	0,540	800	100
290944/90		10	10,5	4,5	7	10	1	-	27	17	12	12	0,573	600	100
290948/90	**16**	5	5,3	5,5	8,5	13	1	1	26	12	5,5	6,5	0,800	600	100
290950/90		6	6,5	5,5	8,5	13	1	1	27	12	6,25	7,5	0,700	600	100
290952/90		8	8,5	5,5	8,5	13	1	1	29	15	8,5	9,5	0,800	400	100
290954/90		10	10,5	5,5	8,5	13	1	1	31	17	10,5	11,5	0,950	400	100
290956/90		12	13	5,5	8,5	13	1	1	33	19	12	13	1,000	400	100
290958/90	**25**	6	6,5	7	10	15	2	1	30	14	7,5	7,5	1,100	400	50
290960/90		8	8,5	7	10	15	2	1	32	16	10	10	1,200	400	50
290962/90		10	10,5	7	10	15	2	1	34	18	12	12	1,200	300	50
290964/90		12	13	7	10	15	2	1	35	19	13	13	1,300	300	50
290966/90	**35**	6	6,5	8,5	12	17	2	1	32	17	7,5	7,5	1,900	240	40
290968/90		8	8,5	8,5	12	17	2	1	34	17	10	10	1,900	240	40
290970/90		10	10,5	8,5	12	17	2	1	37	19	12	12	2,100	160	40
290972/90		12	13	8,5	12	17	2	1	38	21	13	13	2,000	160	40
290976/90	**50**	6	6,5	10	14	19	2	1	37	20	10	10	2,900	160	40
290978/90		8	8,5	10	14	19	2	1	37	20	10	10	2,700	160	40
290980/90		10	10,5	10	14	19	2	1	39	20	12	12	2,900	150	25
290982/90		12	13	10	14	19	2	1	43	23	13	13	3,300	100	25
290986/90	**70**	8	8,5	12	16,5	21	2	1	43	23	10	10	4,200	100	25
290988/90 ✸		10	10,5	12	16,5	21	2	1	44	23	12	12	4,300	100	25
290990/90		12	13	12	16,5	21	2	1	46	23	13	13	4,500	100	25
290992/90		16	17	12	16,5	21	2	1	50	28	16	16	5,100	100	25
290994/90	**95**	8	8,5	13,5	18	25	2	1	48	26	12	12	5,300	100	25
290996/90		10	10,5	13,5	18	25	2	1	48	26	12	12	5,100	100	25
290998/90		12	13	13,5	18	25	2	1	49	26	13	13	5,200	100	25
291000/90		16	17	13,5	18	25	2	1	54	28	16	16	5,600	60	15
291002/90		20	21	13,5	18	25	2	1	60	36	22	22	6,000	60	15
290006/90	**120**	10	10,5	15	19,5	26	2	1	51	28	14	14	6,200	60	15
290008/90		12	13	15	19,5	26	2	1	51	28	14	14	6,100	60	15
290010/90		16	17	15	19,5	26	2	1	54	30	16	16	6,200	60	15
290014/90	**150**	10	10,5	16,5	21	30	2	1	56	31	14	14	7,500	60	15
290016/90		12	13	16,5	21	30	2	1	57	31	15	15	7,300	60	15
290018/90		16	17	16,5	21	30	2	1	58	31	16	16	7,500	60	15
290020/90		20	21	16,5	21	30	2	1	66	36	22	22	8,800	60	12
291004/90	**185**	10	10,5	19	24	30	2	1	65	35	18	18	11,100	40	20
290022/90		12	13	19	24	30	2	1	65	35	18	18	11,100	40	20
290024/90		16	17	19	24	30	2	1	65	35	18	18	10,700	40	20
290028/90	**240**	12	13	21	26	35	4	2	72	39	21,5	19	13,700	30	15
290030/90		16	17	21	26	35	4	2	72	39	21,5	19	13,400	30	15

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller

Premium product

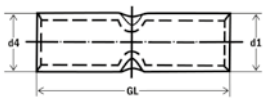
Tubular terminals and connectors, standard series

RoHS

Butt connectors, standard series

HUPtype

- Material: 99.9% E-CU DIN 40500
- Surface: tin-plated
- Annealed material for easier crimping
- For stranded conductors e.g. VDE 0295 class 2
- with buttmarks for precise cable insertion



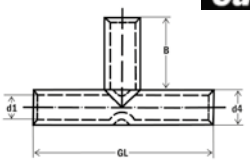
c UL us LISTED (E338116)

Art. no.	CSS	d1	d2	v1	v2	⟷	kg/100	▭	PU
291050	**0,75**	1,3	2,8	1	-	14	0,051	2000	100
291052	**1,5**	1,8	3,3	1	-	14	0,074	2000	100
291054	**2,5**	2,3	4,2	1	-	16	0,150	2000	100
291056	**4**	3	5	1	-	19	0,195	1000	100
291058	**6**	3,5	6,5	1	-	19	0,350	1000	100
291060	**10**	4,5	7	1	-	30	0,558	600	100
291062	**16**	5,5	8,5	1	1	35	0,984	500	50
291064	**25**	7	10	2	1	40	1,350	200	50
291066	**35**	8,5	12	2	1	45	2,150	200	50
291068	**50**	10	14	2	1	50	3,100	100	25
291070	**70**	12	16,5	2	1	55	4,700	50	25
291072	**95**	13,5	18	2	1	60	5,600	50	25
291074	**120**	15	19,5	2	1	65	6,800	60	15
291076	**150**	16,5	21	2	1	70	7,800	40	20
291078	**185**	19	24	2	1	80	11,700	30	5
291080	**240**	21	26	4	2	90	13,900	20	10
291082	**300**	23,5	29,5	4	2	100	22,300	10	5
291084	**400**	27	34	4	2	100	29,000	10	5

T-connectors, standard series

HUPtype

- Material: 99.9% E-CU DIN 40500
- Annealed material for easier crimping
- Surface: tin-plated
- For stranded conductors e.g. VDE 0295 class 2



Art. no.	CSS	d1	d2	width	⟷	kg/100	PU
291330	**1,5**	1,9	3,9	12	30	0,400	25
291332	**2,5**	2,4	4,4	12	30	0,400	25
291334	**4**	3	5	12	30	0,600	25
291336	**6**	3,7	5,5	14	35	1,100	25
291338	**10**	4,3	6,7	14	35	1,500	25
291340	**16**	5,4	7,8	21	50	2,300	25
291342	**25**	6,9	9,4	23	55	2,200	25
291344	**35**	8,3	11,3	30	70	3,800	25
291348	**50**	9,6	13,1	34	80	6,000	25
291350	**70**	11,5	15,3	35	85	10,100	25
291352	**95**	13,5	17,5	36	90	11,600	25
291354	**120**	15,5	20	38	95	17,800	10
291356	**150**	16,8	21,3	44	110	17,900	10
291358	**185**	19	24	45	115	28,300	1
291360	**240**	21	26	52	130	31,200	1

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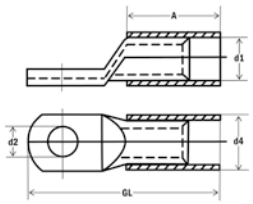
Tubular terminals and connectors, standard series

RoHS

Tubularcable lugs, nylon-insulated, standard series

Nylon

- Material: 99.9% E-CU DIN 40500
- Surface: tin-plated
- annealed material for easier crimping
- For stranded conductors e.g. VDE 0295 class 2
- With inspection hole
- crimp directly with insulation



Art. no.	CSS	M	d2	d1	d2	A	⟷	kg/100	PU
290800	**10**	5	5,5	7	9	17	35,5	0,400	100
290801		6	6,5	7	9	17	35,5	0,600	100
290802		8	8,5	7	9	17	42	0,500	100
290804		10	10,5	7	9	17	46	0,700	50
290806	**16**	5	5,5	8,5	10,5	21	39,5	0,600	100
290810		6	6,5	8,5	10,5	21	41,3	0,900	50
290812		8	8,5	8,5	10,5	21	45,5	1,000	50
290814		10	10,5	8,5	10,5	21	49,5	1,000	50
290816		12	13	8,5	10,5	21	54	1,000	50
290818	**25**	6	6,5	10	12	24	46,5	1,200	25
290820		8	8,5	10	12	24	51	1,300	25
290822		10	10,5	10	12	24	55	1,500	25
290824		12	13	10	12	24	57	1,400	25
290826	**35**	6	6,5	12	14	27	49,5	2,100	25
290830		8	8,5	12	14,5	27	54	2,100	25
290832		10	10,5	12	14,5	27	59	2,300	25
290834		12	13	12	14,5	27	61	2,300	25
290836	**50**	6	6,5	14	16,5	32	59	3,100	25
290840		8	8,5	14	16,5	32	59	3,100	25
290842		10	10,5	14	16,5	32	63	3,300	25
290844		12	13	14	16,5	32	68	3,400	25
290846		14	15	14	16,5	32	71,5	3,600	20
290848	**70**	8	8,5	16,4	18,9	33,5	65,5	3,100	15
290850		10	10,5	16,4	18,9	33,5	66,5	5,000	15
290852		12	13	16,4	18,9	33,5	70,5	5,000	15
290854		14	15	16,4	18,9	33,5	73,5	5,000	15
290856		16	17	16,4	18,9	33,5	78,5	5,000	15
290858	**95**	8	8,5	17,8	20,8	40	74	5,800	25
290860		10	10,5	17,8	20,8	40	74	5,800	25
290862		12	13	17,8	20,8	40	76	5,200	25
290864		14	15	17,8	20,8	40	79,5	6,200	25
290866		16	17	17,8	20,8	40	84	6,200	25
290868	**120**	8	8,5	19,3	22,3	41,5	80,5	6,500	25
290870		10	10,5	19,3	22,3	41,5	80,5	7,000	25
290872		12	13	19,3	22,3	41,5	80,5	6,200	20
290874		14	15	19,3	22,3	41,5	82,5	6,600	20
290876		16	17	19,3	22,3	41,5	85,5	6,500	20
290878	**150**	10	10,5	20,8	23,8	48	88	8,800	20
290880		12	13	20,8	23,8	48	89	8,400	20
290882		14	15	20,8	23,8	48	90	8,500	20
290884		16	17	20,8	23,8	48	92	8,100	20
290886		20	21	20,8	23,8	48	106	8,100	20

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

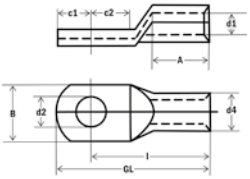
* Bestseller Premium product

RoHS

Tubular cable lugs for fine-wired, high flexible conductors

F-type

- For fine stranded conductors, DIN VDE 60228 e.g. VDE 0295 class 5/6
- Material: 99.9% E-CU DIN 40500
- Surface: tin-plated
- With inspection hole



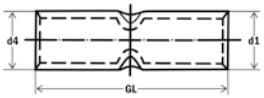
Art. no.	CSS	M	d2	d1	d2	A		c1	c2	kg/100		PU
290250 ✸	**10**	6	6,4	5	8	16	23	6	7	0,700	1000	100
290252		8	8,4	5	8	17	26	7	9	0,700	800	100
290254		10	10,5	5	8	16	26	8	10	0,800	600	100
290256		12	13	5	8	17	31	10	14	0,800	600	100
290258	**16**	6	6,4	6	9	17	26	7	9	0,900	600	100
290260 ✸		8	8,4	6	9	17	26	7	9	0,900	400	100
290262		10	10,5	6	9	16	28	10	12	1,000	400	100
290264		12	13	6	9	22	35	12	13	1,000	400	100
290266	**25**	6	6,4	8	11	20	30	7	10	1,300	400	50
290268 ✸		8	8,4	8	11	20	30	8	10	1,300	400	50
290270		10	10,5	8	11	20	32	10	12	1,500	300	50
290272		12	13	8	11	22	35	12	13	1,500	300	50
290276 ✸	**35**	8	8,4	9	13	25	35	10	10	2,500	240	40
290278		10	10,5	9	13	24	35	10	11	2,500	160	40
290280		12	13	9	13	26	40	12	14	2,600	160	40
290282	**50**	8	8,4	11	14,5	27	39	11	12	3,000	150	25
290284 ✸		10	10,5	11	14,5	27	39	11	12	2,900	150	25
290286 ✸		12	13	11	14,5	27	41	12	14	2,900	100	25
290288		16	17	11	14,5	27	44	15	17	3,000	100	25
290290	**70**	8	8,4	13	17	32	44	11	12	4,400	100	25
290292 ✸		10	10,5	13	17	32	44	11	12	4,000	100	25
290294		12	13	13	17	32	46	12	14	4,400	100	25
290296		16	17	13	17	32	49	15	17	4,500	100	25
290300	**95**	10	10,5	15	20	37	54	15	17	7,700	100	25
290302 ✸		12	13	15	20	37	54	15	17	7,400	100	25
290304		16	17	15	20	37	54	15	17	7,000	100	25
290306	**120**	10	10,5	17	22	41	58	15	17	9,400	80	20
290308 ✸		12	13	17	22	41	58	15	17	8,900	80	20
290310		16	17	17	22	41	58	15	17	8,700	72	18
290316 ✸	**150**	12	13	19	25	48	65	15	17	13,300	48	12
290318		16	17	19	25	48	65	15	17	12,700	48	12
290320		20	21	19	25	48	68	19	20	8,200	48	10
290322	**185**	12	13	21	27	54	71	15	17	16,200	40	20
290324		16	17	21	27	54	71	15	17	15,800	40	20
290326		20	21	21	27	54	74	19	20	14,200	40	15
290328 ✸	**240**	12	13	24	30	56	76	19	20	20,300	30	15
290330		16	17	24	30	56	76	19	20	20,700	30	15
290332		20	21	24	30	56	76	19	20	18,300	30	15
290334	**300**	12	13	26	32	62	93	21	31	30,000	16	8
290336		16	17	26	32	62	93	21	31	28,100	16	8
290338		20	21	26	32	62	93	21	31	26,200	16	8

RoHS

Butt-connector for fine stranded high flexible conductors

F-type

- For fine stranded conductors, DIN VDE 60228 e.g. VDE 0295 class 5/6
- Material: 99.9% E-CU DIN 40500
- Surface: tin-plated
- With buttmarks for precise cable insertion



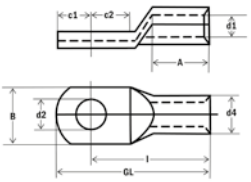
Art. no.	CSS	d1	d2		kg/100		PU
290350	**10**	5	8	30	0,800	600	50
290352	**16**	6	9	35	1,000	500	50
290354	**25**	8	11	35	1,300	200	50
290356	**35**	9	13	35	2,100	200	25
290358	**50**	11	14,5	45	3,700	100	25
290360	**70**	13	17	45	4,600	50	25
290362	**95**	15	20	45	7,300	50	25
290364	**120**	17	22	55	6,900	50	25
290366	**150**	19	25	65	9,800	50	25
290368	**185**	21	27	70	13,600	36	18
290370	**240**	24	30	70	16,000	12	6
290372	**300**	26	32	75	7,000	6	6
290374	**400**	30	36	100	11,100	6	6

RoHS

Cable lugs acc. to DIN 46235

DIN

- Material: 99,9% E-Cu DIN 40500
- Tube dimension acc. to DIN 46235
- Surface: bare
- With marks for correct crimping
- Annealed material for easier crimping



Art. no.	CSS	M	Id.	d2	d1	d2	A	v1	v2	⟷	c1	c2	B	kg/100	▭	PU
290001	**6**	5	5	5,3	3,8	5,5	10	1	-	24	6,5	7,5	8,5	0,300	800	100
290003		6	5	6,4	3,8	5,5	10	1	-	24	7,5	8	8,5	0,300	800	100
290005		8	5	8,4	3,8	5,5	10	1	-	24	10	10	13	0,300	800	100
290007	**10**	5	6	5,3	4,5	6	10	1	-	27	7	8,5	9	0,700	800	100
290011		6	6	6,4	4,5	6	10	1	-	27	7,5	8,5	9	0,600	800	100
290013		8	6	8,4	4,5	6	10	1	-	27	10	10	13	0,300	800	100
290015		10	6	10,5	4,5	6	10	1	-	28	10	10	15	0,500	800	100
290019	**16**	6	8	6,4	5,5	8,5	20	2	1	36	7,5	8	13	1,100	500	50
290021		8	8	8,4	5,5	8,5	20	2	1	36	10	10	13	1,100	400	50
290025		10	8	10,5	5,5	8,5	20	2	1	36	12	12	17	1,200	400	50
290027		12	8	13	5,5	8,5	20	2	1	36	13	13	18	1,200	400	50
290031	**25**	6	10	6,4	7	10	20	2	1	38	7,5	8	14	1,300	300	50
290033		8	10	8,4	7	10	20	2	1	38	10	10	16	1,400	300	50
290035		10	10	10,5	7	10	20	2	1	38	12	12	17	1,600	300	50
290037		12	10	13	7	10	20	2	1	38	13	13	19	1,400	300	50
290039	**35**	6	12	6,4	8,2	12,5	20	2	1	42	7,5	8	17	2,700	150	25
290042		8	12	8,4	8,2	12,5	20	2	1	42	10	10	17	2,900	150	15
290044		10	12	10,5	8,2	12,5	20	2	1	42	12	12	19	3,000	150	25
290049		12	12	13	8,2	12,5	20	2	1	42	13	13	21	2,800	150	25
290050	**50**	8	14	8,4	10	14,5	28	3	1	52	10	10	20	4,500	100	25
290051		10	14	10,5	10	14,5	28	3	1	52	12	12	22	4,400	100	25
290052		12	14	13	10	14,5	28	3	1	52	13	13	24	4,400	100	25
290053		16	14	17	10	14,5	28	3	1	52	16	16	28	4,300	100	20
290054	**70**	8	16	8,4	11,5	16,5	28	3	1	55	10	10	24	5,900	100	25
290055		10	16	10,5	11,5	16,5	28	3	1	55	12	12	24	6,000	100	25
290056		12	16	13	11,5	16,5	28	3	1	55	13	13	24	5,300	100	25
290057		16	16	17	11,5	16,5	28	3	1	55	16	16	30	5,600	80	20
290058	**95**	10	18	10,5	13,5	19	35	4	2	65	12	12	28	8,900	60	15
290059		12	18	13	13,5	19	35	4	2	65	13	13	28	8,500	60	15
290060		16	18	17	13,5	19	35	4	2	65	16	16	32	8,700	60	15
290061	**120**	10	20	10,5	15,5	21	35	4	2	70	15	16	32	11,100	40	20
290063		12	20	13	15,5	21	35	4	2	70	16	17	32	11,000	40	20
290064		16	20	17	15,5	21	35	4	2	70	19	20	32	10,600	40	20
290065		20	20	21	15,5	21	35	4	2	70	21	22	38	11,100	40	20
290066	**150**	10	22	10,5	17	23,5	35	4	2	78	15	16	34	15,800	30	15
290067		12	22	13	17	23,5	35	4	2	78	16	17	34	15,600	30	15
290068		16	22	17	17	23,5	35	4	2	78	19	20	34	15,700	30	15
290069		20	22	21	17	23,5	35	4	2	78	21	22	40	15,800	30	12
290070	**185**	10	25	10,5	19	25,5	40	4	2	82	15	16	37	17,200	20	10
290071		12	25	13	19	25,5	40	4	2	82	16	17	37	18,300	20	10
290072		16	25	17	19	25,5	40	4	2	82	19	20	37	17,700	20	10
290073		20	25	21	19	25,5	40	4	2	82	21	22	40	18,900	20	10
290074	**240**	12	28	13	21,5	29	40	5	2	92	16	17	42	26,400	16	8
290075		16	28	17	21,5	29	40	5	2	92	19	20	42	26,900	16	8
290076		20	28	21	21,5	29	40	5	2	92	21	22	45	26,900	16	8
290077	**300**	16	32	17	24,5	32	50	-	2	100	19	22	46	33,000	8	4
290078		20	32	21	24,5	32	50	-	2	100	19	22	46	33,000	8	4
290079	**400**	16	38	17	27,5	38,5	70	-	3	115	25	25	55	70,200	6	6
290080		20	38	21	27,5	38,5	70	-	3	115	25	25	54	45,100	6	6
290081	**500**	20	42	21	31	42	70	-	3	125	25	25	60	76,600	6	6
290082	**625**	20	44	21	34,5	44	80	-	3	125	25	25	64	78,000	1	1
290083	**800**	20	52	21	40	52	100	-	3	165	30	30	75	148,600	1	1
290084	**1000**	20	58	21	44	58	100	-	3	165	30	30	83	195,200	1	1

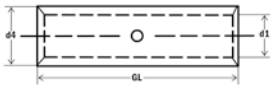
RoHS

Compression joints acc. to DIN 46267 Part 1 (for non-tension connections)

DIN

- Material: 99.9% E-Cu DIN 40500
- Surface: bare
- With marks for correct crimping
- Annealed material for easier crimping

Cu



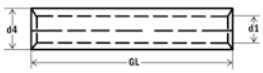
Art. no.	CSS	Id.	d1	d2	v1	v2		kg/100		PU
291520	**6**	5	3,8	5,5	1	-	30	0,300	1600	100
291522	**10**	6	4,5	6	1	-	30	0,600	1000	100
291524	**16**	8	5,5	8,5	2	1	50	1,450	300	50
291526	**25**	10	7	10	2	1	50	1,700	300	50
291528	**35**	12	8,2	12,5	2	1	50	3,100	200	50
291530	**50**	14	10	14,5	3	1	55	4,400	100	25
291532	**70**	16	11,5	16,5	3	1	55	5,300	100	25
291534	**95**	18	13,5	19	4	2	70	8,400	50	15
291536	**120**	20	15,5	21	4	2	70	9,600	50	25
291538	**150**	22	17	23,5	4	2	80	14,500	30	15
291540	**185**	25	19	25,5	4	2	85	16,200	30	5
291542	**240**	28	21,5	29	5	2	90	22,400	20	10
291544	**300**	32	24,5	32	-	2	100	29,500	10	5
291546	**400**	38	27,5	38,5	-	3	150	72,500	8	8
291548	**500**	42	31	42	-	3	160	85,600	5	5
291550	**625**	44	34,5	44	-	3	160	79,900	6	1
291552	**800**	52	40	52	-	3	200	151,000	6	1
291554	**1000**	58	44	58	-	3	1000	198,000	6	1

Compression joints acc. to DIN 48085, Part 1 (for full-tension cable connections)

DIN

- Material: 99.9% E-Cu DIN 40500
- Surface: bare
- With marks for correct crimping
- Annealed material for easier crimping
- For full-tension cable connectiones, overhead line construction

Cu



Art. no.	CSS	Id.	d1	d2	v1	v2		kg/100	PU
291440	**6**	6	3,8	6,5	8	-	65	1,200	50
291442	**10**	8	4,5	8,5	10	-	80	2,800	50
291444	**16**	8	5,5	8,5	10	-	95	2,300	50
291446	**25**	10	7	10	10	-	95	2,600	50
291448	**35**	12	8,2	12,5	10	-	95	5,800	25
291450	**50**	14	10	14,5	10	-	110	7,000	25
291452	**70**	16	11,5	16,5	10	-	110	9,000	25
291454	**95**	20	13,5	21	16	8	145	8,600	10
291456	**120**	22	15	23,5	16	8	160	29,200	10
291458	**150**	25	16,5	25,5	16	8	180	117,100	10
291460	**185**	32	18,5	31,5	-	10	260	17,000	5
291462	**240**	34	21	34,5	-	12	310	163,700	5
291464	**300**	38	23,5	38,5	-	14	360	29,200	5

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

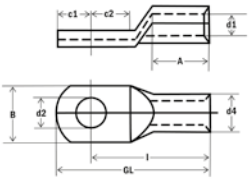
RoHS

Cable lugs acc. to DIN 46235

DIN

- Material: 99,9% E-Cu DIN 40500
- Tube dimension acc. to DIN 46235
- Surface: tin-plated
- With marks for correct crimping
- Annealed material for easier crimping

Cu



Art. no.	CSS	M	Id.	d2	d1	d2	A	v1	v2	⟷	c1	c2	B	kg/100	▭	PU
290404 ✸	**6**	6	5	6,4	3,8	5,5	10	1	-	24	7,5	8	8,5	0,300	800	100
290406		8	5	8,4	3,8	5,5	10	1	-	24	10	10	13	0,300	800	100
290408	**10**	5	6	5,3	4,5	6	10	1	-	27	7	8,5	9	0,400	800	100
290410 ✸		6	6	6,4	4,5	6	10	1	-	27	7,5	8,5	9	0,400	800	100
290412 ✸		8	6	8,4	4,5	6	10	1	-	27	10	10	13	0,400	800	100
290414		10	6	10,5	4,5	6	10	1	-	28	10	10	15	0,400	800	100
290416	**16**	6	8	6,4	5,5	8,5	20	2	1	36	7,5	8	13	1,200	500	50
290418 ✸		8	8	8,4	5,5	8,5	20	2	1	36	10	10	13	1,200	400	50
290420		10	8	10,5	5,5	8,5	20	2	1	36	12	12	17	1,100	400	50
290422		12	8	13	5,5	8,5	20	2	1	36	13	13	18	1,200	400	50
290424	**25**	6	10	6,4	7	10	20	2	1	38	7,5	8	14	1,300	300	50
290426 ✸		8	10	8,4	7	10	20	2	1	38	10	10	16	1,400	300	50
290428		10	10	10,5	7	10	20	2	1	38	12	12	17	1,600	300	50
290430		12	10	13	7	10	20	2	1	38	13	13	19	1,500	300	50
290432	**35**	6	12	6,4	8,2	12,5	20	2	1	42	7,5	8	17	2,700	150	25
290434 ✸		8	12	8,4	8,2	12,5	20	2	1	42	10	10	17	2,900	150	25
290436		10	12	10,5	8,2	12,5	20	2	1	42	12	12	19	2,900	150	25
290438		12	12	13	8,2	12,5	20	2	1	42	13	13	21	2,700	150	25
290440	**50**	8	14	8,4	10	14,5	28	3	1	52	10	10	20	4,400	100	25
290442 ✸		10	14	10,5	10	14,5	28	3	1	52	12	12	22	4,500	100	25
290444		12	14	13	10	14,5	28	3	1	52	13	13	24	4,400	100	25
290446		16	14	17	10	14	28	3	1	52	16	16	28	4,200	100	20
290448	**70**	8	16	8,4	11,5	16,5	28	3	1	55	10	10	24	5,900	100	25
290450 ✸		10	16	10,5	11,5	16,5	28	3	1	55	12	12	24	5,900	100	25
290452		12	16	13	11,5	16,5	28	3	1	55	13	13	24	5,900	100	25
290454		16	16	17	11,5	16,5	28	3	1	55	16	16	30	5,800	80	20
290456 ✸	**95**	10	18	10,5	13,5	19	35	4	2	65	12	12	28	8,800	60	15
290458 ✸		12	18	13	13,5	19	35	4	2	65	13	13	28	8,900	60	15
290460		16	18	17	13,5	19	35	4	2	65	16	16	32	8,700	60	15
290462	**120**	10	20	10,5	15,5	21	35	4	2	70	15	16	32	11,000	40	20
290464 ✸		12	20	13	15,5	21	35	4	2	70	16	17	32	11,100	40	20
290466		16	20	17	15,5	21	35	4	2	70	19	20	32	10,500	40	20
290468		20	20	21	15,5	21	35	4	2	70	21	22	38	11,300	30	15
290470	**150**	10	22	10,5	17	23,5	35	4	2	78	15	16	34	15,600	30	15
290472 ✸		12	22	13	17	23,5	35	4	2	78	16	17	34	15,700	30	15
290474		16	22	17	17	23,5	35	4	2	78	19	20	34	15,900	30	15
290476		20	22	21	17	23,5	35	4	2	78	21	22	40	16,000	30	25
290478	**185**	10	25	10,5	19	25,5	40	4	2	82	15	16	37	18,000	20	10
290480 ✸		12	25	13	19	25,5	40	4	2	82	16	17	37	18,400	20	10
290482 ✸		16	25	17	19	25,5	40	4	2	82	19	20	37	18,400	20	10
290484		20	25	21	19	25,5	40	4	2	82	21	22	40	17,700	20	10
290486 ✸	**240**	12	28	13	21,5	29	40	5	2	92	16	17	42	26,500	16	8
290488 ✸		16	28	17	21,5	29	40	5	2	92	19	20	42	26,600	16	8
290490		20	28	21	21,5	29	40	5	2	92	21	22	45	27,600	16	8
290492	**300**	16	32	17	24,5	32	50	-	2	100	19	22	46	34,300	10	5
290494		20	32	21	24,5	32	50	-	2	100	19	22	46	33,100	10	5
290496	**400**	16	38	17	27,5	38,5	70	-	3	115	25	25	54	69,800	6	3
290498		20	38	21	27,5	38,5	70	-	3	115	25	25	54	66,400	8	1
290516	**500**	20	42	21	31	42	70	-	3	125	25	25	60	82,600	8	1
290518	**625**	20	44	21	34,5	44	80	-	3	125	25	25	64	79,000	6	1
290520	**800**	20	52	21	40	52	100	-	3	165	30	30	75	139,400	6	1
290522	**1000**	20	58	21	44	58	100	-	3	165	30	30	83	195,000	6	1

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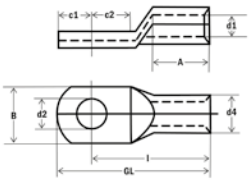
RoHS

Cable lugs SmallPack acc. to DIN 46235

- Werks Material: 99,9% electrolytic copper toff: 99,9% Elektrolyt-Kupfer, geglühtes Material
- Surface: tin-plated



Art. no.	CSS	M	Id.	d2	d1	d2	A	v1	v2	⟷	c1	c2	B	kg/100	PU
290404/10	**6**	6	5	6,4	3,8	5,5	10	1	-	24	7,5	8	8,5	0,300	10
290406/10		8	5	8,4	3,8	5,5	10	1	-	24	10	10	13	0,300	10
290410/10	**10**	6	6	6,4	4,5	6	10	1	-	27	7,5	8,5	9	0,300	10
290412/10		8	6	8,4	4,5	6	10	1	-	27	10	10	13	0,300	10
290416/10	**16**	6	8	6,4	5,5	8,5	20	2	1	36	7,5	8	13	0,300	10
290418/10		8	8	8,4	5,5	8,5	20	2	1	36	10	10	13	0,300	10
290420/10		10	8	10,5	5,5	8,5	20	2	1	36	12	12	17	0,300	10
290426/10	**25**	8	10	8,4	7	10	20	2	1	38	10	10	16	14,000	10
290428/10		10	10	10,5	7	10	20	2	1	38	12	12	17	14,000	10
290434/10	**35**	8	12	8,4	8,2	12,5	20	2	1	42	10	10	17	0,300	10
290436/10		10	12	10,5	8,2	12,5	20	2	1	42	12	12	19	0,300	10

Sleeves for round compacted conductors DIN

- for multiple-wire, thinned, compacted conductors (e.g. VDE 0295 Kl. 2)
- for securely pressed and processed DIN cable lugs and connectors
- Material: CU EN 13600
- Surface: tin-plated

Art. no.	CSS	d1	d2	⟷	kg/100	PU
290561	**16**	5	5,3	16	0,030	100
290562	**25**	6,4	6,7	16	0,040	100
290563	**35**	7,7	8,2	17	0,090	100
290564	**50**	9	9,5	23	0,120	50
290565	**70**	10,6	11,2	24	0,180	50
290566	**95**	12,4	13	28	0,230	50
290567	**120**	13,9	14,5	30	0,270	50
290568	**150**	15,4	16	30	0,350	25
290569	**185**	17,6	18,2	38	0,400	25
290570	**240**	19,9	20,5	38	0,510	25
290571	**300**	22,4	23	48	0,730	5
290572	**400**	25,4	26,2	58	1,110	5

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

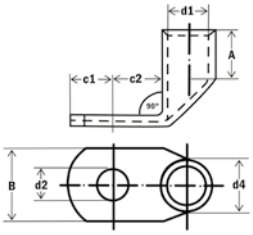
RoHS

Angled cable lugs 90° acc. to DIN 46325

DIN

- Material: 99,9% E-Cu DIN 40500
- Tube dimension acc. to DIN 46235
- Surface: tin-plated
- With marks for correct crimping
- Annealed material for easier crimping

Cu



Art. no.	CSS	M	Id.	d2	d1	d2	A	v1	v2	c1	B	c2	kg/100	PU
291700	**6**	5	5	5,3	3,8	5,5	10	1	-	6,5	8,5	9	0,400	100
291702 ✷		6	5	6,4	3,8	5,5	10	1	-	7,5	8,5	10	0,300	100
291704	**10**	5	6	5,3	4,5	6	10	1	-	7	9	10	0,400	100
291706		6	6	6,4	4,5	6	10	1	-	7,5	9	10	0,500	100
291708		8	6	8,4	4,5	6	10	1	-	10	13	13	1,100	100
291710	**16**	6	8	6,4	5,5	8,5	20	2	1	7,5	13	11	1,200	50
291712 ✷		8	8	8,4	5,5	8,5	20	2	1	10	13	13	1,100	50
291714		10	8	10,5	5,5	8,5	20	2	1	12	17	15	1,200	50
291716		12	8	13	5,5	8,5	20	2	1	13	18	18	1,200	50
291718	**25**	6	10	6,4	7	10	20	2	1	7,5	14	11	1,500	50
291720 ✷		8	10	8,4	7	10	20	2	1	10	16	13	1,500	50
291722		10	10	10,5	7	10	20	2	1	12	17	15	1,500	50
291724		12	10	13	7	10	20	2	1	13	19	18	1,500	50
291726 ✷	**35**	8	12	8,4	8,2	12,5	20	2	1	10	17	13	2,600	25
291728		10	12	10,5	8,2	12,5	20	2	1	12	19	15	2,900	25
291730		12	12	13	8,2	12,5	20	2	1	13	21	18	2,900	25
291732	**50**	8	14	8,4	10	14	28	3	1	10	20	16	4,100	25
291734 ✷		10	14	10,5	10	14	28	3	1	12	22	16	4,200	20
291736		12	14	13	10	14,5	28	3	1	13	24	18	4,500	20
291738		16	14	17	10	14,5	28	3	1	16	28	22	4,100	20
291740	**70**	8	16	8,4	11,5	16,5	28	3	1	10	24	14	5,400	30
291742 ✷		10	16	10,5	11,5	16,5	28	3	1	12	24	16	5,500	30
291744		12	16	13	11,5	16,5	28	3	1	13	24	18	6,000	15
291746		16	16	17	11,5	16,5	28	3	1	16	30	22	5,600	30
291748	**95**	10	18	10,5	13,5	19	35	4	2	12	28	17	8,400	10
291750		12	18	13	13,5	19	35	4	2	13	28	18	8,700	10
291752		16	18	17	13,5	19	35	4	2	16	32	22	8,700	10
291754	**120**	10	20	10,5	15,5	21	35	4	2	15	32	17	10,000	20
291756 ✷		12	20	13	15,5	21	35	4	2	16	32	18	10,000	20
291758		16	20	17	15,5	21	35	4	2	18	32	22	10,200	20
291760		20	20	21	15,5	21	35	4	2	21	38	24	9,800	15
291762	**150**	10	22	10,5	17	23,5	35	4	2	15	34	17	13,100	15
291764 ✷		12	22	13	17	23,5	35	4	2	16	34	18	13,200	15
291766		16	22	17	17	23,5	35	4	2	19	34	22	14,100	15
291768		20	22	21	17	23,5	35	4	2	21	40	24	13,700	10
291770	**185**	10	25	10,5	19	25,5	40	4	2	15	37	22	16,400	10
291772		12	25	13	19	25,5	40	4	2	16	37	22	15,600	10
291774		16	25	17	19	25,5	40	4	2	19	37	22	18,600	10
291776		20	25	21	19	25,5	40	4	2	21	40	24	17,500	10
291778	**240**	12	28	13	21,5	29	40	5	2	16	42	22	22,400	10
291780		16	28	17	21,5	29	40	5	2	19	42	22	22,900	10
291782		20	28	21	21,5	29	40	5	2	21	45	24	21,000	10

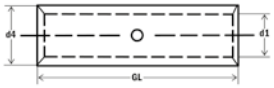
RoHS

Compression joints acc. to DIN 46267, Part 1 (for non-tension connections)

DIN

- Material: 99.9% E-CU DIN 40500
- Tube dimension acc. to DIN
- Surface: tin-plated
- Annealed material for easier crimping
- For stranded conductors e.g. VDE 0295 class 2
- With buttmarks for precise cable insertion

Cu



Art. no.	CSS	ld.	d1	d2	v1	v2	⟷	kg/100	▭	PU
291521	**6**	5	3,8	5,5	1	-	30	0,300	1600	100
291523	**10**	6	4,5	6	1	-	30	0,600	1000	100
291525	**16**	8	5,5	8,5	2	1	50	1,450	300	50
291527	**25**	10	7	10	2	1	50	1,600	300	50
291529	**35**	12	8,2	12,5	2	1	50	3,000	200	50
291531	**50**	14	10	14,5	3	1	55	4,100	100	25
291533	**70**	16	11,5	16,5	3	1	55	5,400	100	25
291535	**95**	18	13,5	19	4	2	70	8,300	50	25
291537	**120**	20	15,5	21	4	2	70	9,500	50	25
291539	**150**	22	17	23,5	4	2	80	14,200	30	15
291541	**185**	25	19	25,5	4	2	85	16,900	30	5
291543	**240**	28	21,5	29	5	2	90	22,600	20	10
291545	**300**	32	24,5	32	-	2	100	29,700	10	5
291547	**400**	38	27,5	38,5	-	3	150	74,000	8	8
291549	**500**	42	31	42	-	3	160	89,100	5	5
291551	**625**	44	34,5	44	-	3	160	79,000	1	1
291553	**800**	52	40	52	-	3	200	151,300	1	1
291555	**1000**	58	44	58	-	3	1000	198,000	1	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

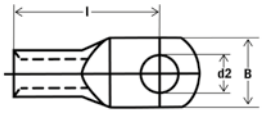
* Bestseller Premium product

RoHS

Tubular cable lugs of pure nickel, ring type

- Material: nickel
- Temperature resistant to 500° C

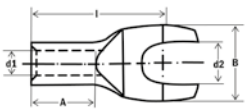
Art. no.	CSS	M	d2	d1	⟷	A	kg/100	PU
292560	**0,5**	4	4,3	1,6	13	6	0,105	100
292562		5	5,3	1,6	14	6	0,086	100
292564	**1,5**	4	4,3	2,3	13	6	0,109	100
292566		5	5,3	2,3	14	6	0,122	100
292568		6	6,5	2,3	16	6	0,134	100
292570	**4**	4	4,3	3,6	18	8	0,300	100
292572		5	5,3	3,6	8	19	0,200	100
292574		6	6,5	3,6	19	8	0,300	100



Tubular terminals of pure nickel, forke type

- Material: nickel
- Temperature resistant to 500° C

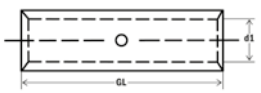
Art. no.	CSS	M	d2	d1	⟷	A	kg/100	PU
292580	**0,5**	4	4,3	1,6	13	6	0,073	100
292582		5	5,3	1,6	14	6	0,070	100
292584	**1,5**	4	4,3	2,3	13	6	0,100	100
292586		5	5,3	2,3	14	6	0,100	100
292588		6	6,5	2,3	14	6	0,110	100
292590	**4**	4	4,3	3,6	18	8	0,300	100
292592		5	5,3	3,6	19	8	0,300	100



Butt-connectors, made from pure nickel

- Material: nickel
- Temperature resistant to 500° C
- With buttmarks for precise able insertion

Art. no.	CSS	d1	⟷	kg/100	PU
292596	**0,5 - 1**	1,6	15	0,101	100
292598	**1,5 - 2,5**	2,3	15	0,110	100
292600	**4 - 6**	3,6	15	0,190	100



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RoHS

Aluminium tubular cable lugs, standard series

- Material: E-Al 99.5%
- Surface: bare
- For strain-relieved connections of aluminium conductors according to DIN EN 60228 and aluminium cables according to DIN EN 50182
- For round shaped sector conductors
- Including contact grease

Art. no.	CSS	M	d2	d1	⟷	A	kg/100	PU
294500	**16**	6	6,4	5,2	47	23	0,620	50
294502		8	8,4	5,2	47	23	0,620	50
294504		10	10,5	5,2	47	23	0,620	50
294506	**25**	6	8,4	6,4	58	23	0,880	50
294508		8	8,4	6,4	58	23	0,880	50
294510		10	10,5	6,4	58	23	0,880	50
294512	**35**	8	8,4	7,6	60	28	1,170	50
294514		10	10,5	7,6	60	28	1,170	50
294516	**50**	8	8,4	9,2	72	34	1,790	50
294518		10	10,5	9,2	72	34	1,790	50
294520		12	13	9,2	72	34	1,790	50
294522		16	17	9,2	72	34	1,790	50
294524	**70**	8	8,4	10,6	78	40	2,280	50
294526		10	10,5	10,6	78	40	2,280	50
294528		12	13	10,6	78	40	2,280	50
294530		16	17	10,6	78	40	2,280	50
294532	**95**	10	10,5	12,8	80	43	2,850	20
294534		12	13	12,8	80	43	2,850	20
294536		16	17	12,8	80	43	2,850	20
294538	**120**	8	8,4	14,3	97	52	3,930	20
294540		10	10,5	14,3	97	52	3,930	20
294542		12	13	14,3	97	52	3,930	20
294544		14	15	14,3	97	52	3,930	20
294546	**150**	8	8,4	16,2	106	55	5,170	20
294548		10	10,5	16,2	106	55	5,170	20
294550		12	13	16,2	106	55	5,170	20
294552		16	17	16,2	106	55	5,170	20
294554	**185**	8	8,4	17,8	110	60	6,260	20
294556		10	10,5	17,8	110	60	6,260	20
294558		12	13	17,8	110	60	6,260	20
294560		16	17	17,8	110	60	6,260	20
294562	**240**	8	8,4	20,2	110	64	10,590	20
294564		10	10,5	20,2	110	64	10,590	20
294566		12	13	20,2	110	64	10,590	20
294568		14	15	20,2	110	64	10,590	20
294570		16	17	20,2	110	64	10,590	20

RoHS

Aluminium butt connectors, standard series

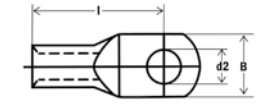
- Material: E-Al 99.5%
- Surface: bare
- For strain-relieved connections of aluminium conductors according to DIN EN 60228 and aluminium cables according to DIN EN 50182
- For round shaped sector conductors
- Including contact grease

Art. no.	CSS	d1	⟷	kg/100	PU
294580	**16**	5,2	50	0,660	50
294582	**25**	6,4	58	0,880	50
294584	**35**	7,6	63	1,220	50
294586	**50**	9,2	76	1,890	50
294588	**70**	10,6	84	2,440	50
294590	**95**	12,8	96	3,390	20
294592	**120**	14,3	105	4,240	20
294594	**150**	16,2	120	5,820	20
294596	**185**	17,8	125	7,090	20
294598	**240**	20,2	136	11,490	20

Al compression cable lugs

DIN

- Material: Al 99,5%
- Surface: bare
- Tube dimension to DIN 46329
- With marks for correct crimping
- For non-tension connections of Al-cables DIN 48201, part 1 and DIN EN 50182
- For pre-rounded sm/se sector shaped conductors
- including contact grease



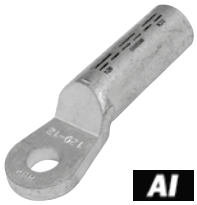
Art. no.	CSS rm/sm	se	M	ld.	d2	d1	v1	v2	⟷	B	kg/100	PU
292904 ✷	**16**	25	8	12	8,5	5,8	4	2	52	18	1,400	50
292906		25	10	12	10,5	5,8	4	2	52	18	1,400	50
292908 ✷	**25**	35	8	12	8,5	6,8	4	2	60	18	1,400	50
292910		35	10	12	10,5	6,8	4	2	60	18	1,400	50
292912 ✷	**35**	50	10	14	10,5	8	5	2	67	21	2,100	50
292914		50	12	14	13	8	5	2	67	21	2,000	50
292916 ✷	**50**	70	10	16	10,5	9,8	5	2	72	25	2,700	50
292918		70	12	16	13	9,8	5	2	72	25	2,700	50
292920 ✷	**70**	95	10	18	10,5	11,2	6	3	86	28	4,400	40
292922		95	12	18	13	11,2	6	3	86	28	4,200	40
292924	**95**	120	10	22	10,5	13,2	6	3	90	32	6,300	25
292926 ✷		120	12	22	13	13,2	6	3	90	32	6,400	30
292928		120	16	22	17	13,2	6	3	90	34	6,400	25
292930 ✷	**120**	150	12	22	13	14,7	6	3	91	32	6,700	25
292932		150	16	22	17	14,7	6	3	91	34	7,000	25
292934 ✷	**150**	185	12	25	13	16,3	6	3	103	35	9,400	20
292936		185	16	25	17	16,3	6	3	103	35	8,300	20
292938		185	20	25	21	16,3	6	3	103	41	9,100	20
292940 ✷	**185**	240	12	28	13	18,3	6	3	106	40	11,700	15
292942		240	16	28	17	18,3	6	3	106	40	11,600	15
292944		240	20	28	21	18,3	6	3	106	40	12,000	15
292946 ✷	**240**	300	12	32	13	21	8	3	116	45	16,900	10
292948		300	16	32	17	21	8	3	116	45	16,900	12
292950		300	20	32	21	21	8	3	116	45	16,200	10

RoHS

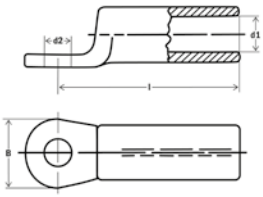
Al compression cable lugs acc. to DIN 46329

DIN

- Material: Al 99,5%
- Surface: bare
- Design with oil stop
- Tube dimension to DIN 46329
- With marks for correct crimping
- For non-tension connections of Al-cables DIN 48201, part 1 and DIN EN 50182
- For pre-rounded sm/se sector shaped conductors
- Including contact grease



Al



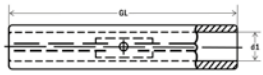
Art. no.	CSS rm/sm	se	M	Id.	d2	d1	v1	v2	⟷	B	kg/100	PU
292770	**35**	50	10	14	10,5	8	5	2	62	25	2,000	50
292772		50	12	14	13	8	5	2	62	25	2,000	50
292774	**50**	70	10	16	10,5	9,8	5	2	62	25	2,800	50
292776		70	12	16	13	9,8	5	2	62	25	2,600	50
292778 ✷	**70**	95	10	18	10,5	11,2	6	3	72	25	3,900	25
292780		95	12	18	13	11,2	6	3	72	25	3,500	25
292782 ✷	**95**	120	10	22	10,5	13,2	6	3	75	25	5,900	25
292784		120	12	22	13	13,2	6	3	75	25	5,600	25
292786 ✷	**120**	150	12	22	13	14,7	6	3	80	30	6,400	25
292788		150	16	22	17	14,7	6	3	80	30	6,600	25
292790 ✷	**150**	185	10	25	10,5	16,3	6	3	90	30	8,400	25
292792		185	12	25	13	16,3	6	3	90	30	8,300	25
292794		185	16	25	17	16,3	6	3	90	30	8,200	20
292796	**185**	240	10	28	10,5	18,3	6	3	91	30	10,400	20
292798 ✷		240	12	28	13	18,3	6	3	91	30	10,500	20
292800		240	16	28	17	18,3	6	3	91	30	12,000	20
292802 ✷	**240**	300	12	32	13	21	8	3	103	38	16,100	10
292804		300	16	32	17	21	8	3	103	38	15,900	10
292806		300	20	32	21	21	8	3	103	38	15,200	10
292808 ✷	**300**	-	12	34	13	23,3	8	3	103	38	17,200	10
292810		-	16	34	17	23,3	8	3	103	38	18,500	10
292812		-	20	34	21	23,3	8	3	103	38	17,300	10
292814	**400**	-	12	38	13	26	-	4	116	38	24,700	10
292816		-	16	38	17	26	-	4	116	38	23,000	10
292818		-	20	38	21	26	-	4	116	38	23,500	10
292820	**500**	-	12	44	13	29	-	4	122	44	43,600	6
292822		-	16	44	17	29	-	4	155	44	33,200	6
292824		-	20	44	21	29	-	4	122	44	43,000	6

Al-Crimp connector DIN 46267 Part 2

DIN

- Material: Al 99,5%
- Surface: bare
- Design with oil stop
- Manufactured DIN 46267, part 2
- With marks for correct crimping
- For non-tension connections of Al conductors to DIN 48201, DIN EN 50182
- For pre-rounded sm/se sector shaped conductors
- Including contact grease

Al



Art. no.	CSS rm/sm	se	d1	v1	v2	⟷	Id. / Al	kg/100	PU
293542	**25**	35	6,8	8	4	70	12	1,600	100
293544	**35**	50	8	10	4	85	14	2,700	100
293546	**50**	70	9,8	10	4	85	16	3,300	50
293548	**70**	95	11,2	12	6	105	18	5,800	50
293550	**95**	120	13,2	12	6	105	22	8,200	25
293552	**120**	150	14,7	12	6	105	22	7,900	25
293554	**150**	185	16,3	12	6	125	25	11,500	25
293556	**185**	240	18,3	12	6	125	28	12,300	20
293558	**240**	300	21	16	6	145	32	21,200	15

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller

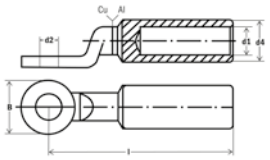
Premium product

RoHS

Al and Cu cable lugs, longitudinally sealed

DIN

- Material: Al 99,5% copper screw-on palm E-Cu 99,9%
- Surface: bare
- With marking for correct crimping
- Barrier design with oil stop
- For pre-rounded sector shaped conductors
- For non-tension connections of Al-cables DIN 48201, part 1 and DIN EN 50182
- including contact grease

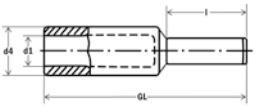


Art. no.	CSS rm/sm	se	M	ld.	d2	d1	v1	v2	⟷	B	kg/100	PU
293300 ✷	**25**	35	8,5	12	8,5	6,8	4	2	61	20	2,600	50
293302		35	10	12	10,5	6,8	4	2	61	20	2,500	50
293304		35	12	12	13	6,8	4	2	61	20	2,900	50
293306 ✷	**35**	50	10	14	10,5	8	5	2	71	20	3,200	50
293308		50	12	14	13	8	5	2	71	20	3,500	50
293310 ✷	**50**	70	10	16	10,5	9,8	5	2	72	20	3,400	50
293312		70	12	16	13	9,8	5	2	72	25	4,100	50
293314 ✷	**70**	95	10	18	10,5	11,2	6	3	82	25	6,100	50
293316		95	12	18	13	11,2	6	3	82	25	5,500	50
293318 ✷	**95**	120	12	22	13	13,2	6	3	85	25	8,200	25
293320		120	16	22	17	13,2	6	3	85	30	8,500	25
293321	**120**	150	10	22	10,5	14,7	6	3	87	25	8,500	25
293322 ✷		150	12	22	13	14,7	6	3	87	25	8,500	25
293324		150	16	22	17	14,7	6	3	87	30	8,700	25
293326 ✷	**150**	185	12	25	13	16,3	6	3	104	30	11,000	25
293328		185	16	25	17	16,3	6	3	104	30	11,200	25
293330 ✷	**185**	240	12	28	13	18,3	6	3	105	30	14,100	10
293332		240	16	28	17	18,3	6	3	105	30	14,300	10
293334 ✷	**240**	300	12	32	13	21	8	3	120	30	18,000	5
293336		300	20	32	21	21	8	3	120	35	20,000	5
293338 ✷	**300**	300	12	34	13	23,3	8	3	120	36	21,500	5

Al/Cu non-tension compession joints with Cu bolt

DIN

- Material: Al 99,5% E-Cu 99,9%
- Surface: bare
- Marking for correct crimping
- Barrier design with oil stop
- For pre-rounded sector shaped conductors
- For non-tension connections of Al-cables DIN 48201, part 1 and DIN EN 50182
- For non-tension Al-connections in Cu clamps
- including contact grease



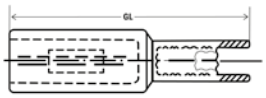
Art. no.	CSS rm/sm	se	d1	d2	⟷	l	Øbo.	Ørope	ld. / Al	kg/100	PU
293960	**25**	35	6,8	12	58	20	6	6,3	12	1,600	1
293962	**35**	50	8	14	71	22	7	7,5	14	2,800	1
293964	**50**	70	10	16	74	25	8	9	16	3,800	1
293966	**70**	95	11,5	18,5	87	30	10	10	18	5,400	1
293968	**95**	120	13,2	23	91	33	12	12,5	22	10,600	1
293970	**120**	150	15	23	97	38	12	14	22	9,000	1
293972	**150**	185	16,5	25,5	108	38	12	15,8	25	10,900	1
293974	**185**	240	18,5	28,5	116	44	14	17,5	28	15,700	1
293976	**240**	300	21,5	32,5	128	44	16	20,3	32	17,000	1
293978	**300**	-	23,5	34,5	131	46	18	22,5	34	23,200	1

RoHS

Al-Cu reducing connectors

DIN

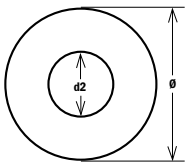
- for connections with tension relief of Al/Cu conductors to DIN 28201
- Material: Al 99,5%, DIN 40501, E-Cu DIN 40500
- Surface: bare pickled
- including contact grease



Art. no.	CSS rm/sm	rm/sm CU	se	⟷	ØCu	ØAl	Id. Cu	Id. / Al	kg/100	PU
293578	**25**	16	35	61	5,5	7,6	8	12	1,600	10
293582	**35**	16	50	71	5,5	8	8	14	2,100	10
293584		7	50	71	-	8	10	14	2,500	10
293598	**50**	25	70	71,5	7	9,8	10	16	3,100	10
293600		35	70	71,5	8,2	9,8	12	16	3,300	10
293606	**70**	25	95	79	7	11,2	10	18	4,400	10
293608		35	95	79	8,2	11,2	12	18	5,500	10
293610		50	95	85	10	11,2	14	18	5,700	10
293622	**95**	35	120	79	8,2	13,2	12	22	6,000	5
293624		50	120	85	10	13,2	14	22	8,900	5
293626		70	120	87	11,5	13,2	16	22	8,200	5
293634	**120**	50	150	87	10	14,7	14	22	7,900	5
293636		70	150	89	11,5	14,7	16	22	9,500	5
293638		95	150	97	13,5	14,7	18	22	10,000	5
293652	**150**	95	185	107,5	13,5	16,3	18	25	11,700	5
293654		120	185	107,5	15,5	16,3	20	25	14,200	5
293656		150	185	124	17,5	16,3	22	25	16,700	5
293664	**185**	185	240	108	15,5	18,3	20	28	2,600	5
293666		150	240	113	17	18,3	22	28	19,500	5
293678	**240**	150	300	124	17	21	22	32	23,300	5
293680		185	300	127	19	21	25	32	25,500	5
293688	**300**	25	400	128	18,5	19	25	34	32,700	5
293690		240	400	128	21,5	23,5	28	34	37,500	5

Cupal washer

- Compound material made from aluminium and copper
- Galvanic isolation between Cu and Al
- Processing only in a dry environment
- Al-sided plated with Cu



Art. no.	M	s1	d2	Ø	kg/100	PU
293810	10	1,5	10,5	22	0,300	50
293812	12	2	13	26	0,900	50
293814	14	2	15	28	11,100	50
293816	16	2	17	35	11,100	50

Screw terminals

haupa®
... convincing solutions

Screw terminals 10 - 30 KV

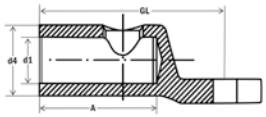
RoHS

AL screw terminals medium voltage 10-30 KV

Al

- Material: AL 99,5%
- for tension relief connections of Al medium-voltage cables
- Tin-plated surface

Art. no.	CSS	M	d1	d4	A	⟷	⬡	kg/100	PU
293140	**16-95**	12	12,5	24	32	60	1	6,400	1
293142	**50-150**	12	15,5	30	35	79	1	13,900	1
293144		16	15,5	30	35	79	1	14,500	1
293146	**95-240**	12	20	33	56	95	2	23,700	1
293148		16	20	33	56	95	2	24,400	1
293150	**120-300**	12	25	38	67	100	2	33,300	1
293152		16	25	38	67	100	2	32,700	1
293154	**185-400**	12	26	42	82	115	3	48,000	1
293156		16	26	42	82	115	3	48,200	1

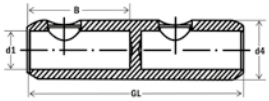


AL screw connectors medium voltage

Al

- Material: AL 99,5%
- Screws: Tin-galvanised brass
- Tin-plated surface

Art. no.	CSS	d1	d2	⟷	⬡	kg/100	PU
293130	**16-95**	12,5	24	70	2	9,800	1
293132	**50-150**	15,5	30	85	2	17,700	1
293134	**95-240**	20	33	120	4	33,500	1
293136	**120-300**	25	38	142	4	49,000	1
293138	**185-400**	26	42	170	6	78,900	1



CSS

	AL			CU		
	rm	re	sm	rm	sm	⬡
Terminals	16 - 95	16.50/95	25 - 70	16 - 95	25 - 70	1
	50 - 150	50 - 150	50 - 120	35 - 120	50 - 120	1
	95 - 240	95 - 240	95 - 185	95 - 240	95 - 185	2
	120 - 300	120 - 300	120 - 240	120 - 300	120 - 240	2
	155 - 400	185 - 240/400	185 - 300	185 - 300	185 - 300	3
Connectors						
	16 - 95	16.50/95	25 - 70	16 - 95	25 - 70	2
	50 - 150	50 - 150	50 - 120	35 - 120	50 - 120	2
	95 - 240	95 - 240	95 - 185	95 - 240	95 - 185	4
	120 - 300	120 - 300	120 - 240	120 - 300	120 - 240	4
	155 - 400	185 - 240/400	185 - 300	185 - 300	185 - 300	6

Screw lugs and connectors

Screw connectors are a reliable and economic way of connecting identical or different conductor cross-sections. They can be used up to 36kV. All lugs and connectors are fitted with torque-limited shear-off screws. The actual cross-section of the cable does not need to be known, because each screw lug or connector covers many cable sizes. This results in simplified logistics, a small stock of lugs will cover a wide range of applications. Also, the tin-plated surface means that they can be used on both copper and aluminium cables.

The principle of multiple tear-off screws

The screws of the Haupa screw lugs and connectors have a hexagon head and socket, which clamps the conductor cross-section with optimal clamping torque and therefore reduces assembly time. As the screw is tightened it will shear off when correct torque is reached and a good joint is made.

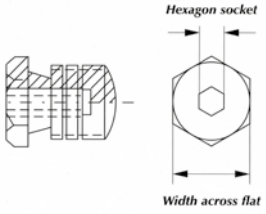
Advantages of the tear-off screw

- simple assembly
- the screw head shears off when clamping torque is right
- no torque key required
- screw can be detached using the hexagon socket

1. The screw is fitted with several tear-off spots, with different shear-off torque, a hexagon head and socket.

2. The tear-off torques are defined in such as way that generally the biggest conductor cross-section is clamped with the biggest clamping torque and the smaller conductor cross-section with the smaller clamping torque. This happens by allocating hexagon head and socket.

3. Assembly is much simpler than with the telescopic screw, because each screw needs to be pulled and torn off only once.



Video

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

RoHS

Tubular cable lugs assortment standard

Content: 380 crimping terminals, crimping pliers (art. 210805), crimp standard 6 - 50 mm², hexagon crimping, in plastic bulk storage chest 415 x 335 x 90 mm.

50 crimping terminal, 6, M6, art. 290934
50 crimping terminal, 6, M8, art. 290936
50 crimping terminal, 10, M6, art. 290940
50 crimping terminal, 10, M8, art. 290942
30 crimping terminal, 16, M8, art. 290952
40 crimping terminal, 16, M10, art. 290954
25 crimping terminal, 25, M8, art. 290960
25 crimping terminal, 25, M10, art. 290962
20 crimping terminal, 35, M8, art. 290968
20 crimping terminal, 35, M10, art. 290970
20 crimping terminal, 50, M8, art. 290978

Art. no.	quantity		kg	PU
290380	380		6,000	1

Tubular cable lugs assortment DIN 46235

Content: 380 crimping terminals
crimping pliers (art. 210805K), crimp DIN 6 - 50 mm²,
hexagon crimping, in plastic bulk storage chest 415 x 335 x 90 mm.

50 Crimping terminal DIN 46235, 6, M6, art. 290404
50 Crimping terminal DIN 46235, 6, M8, art. 290406
50 Crimping terminal DIN 46235, 10, M6, art. 290410
50 Crimping terminal DIN 46235, 10, M8, art. 290412
30 Crimping terminal DIN 46235, 16, M8, art. 290418
40 Crimping terminal DIN 46235, 16, M10, art. 290420
25 Crimping terminal DIN 46235, 25, M8, art. 290426
25 Crimping terminal DIN 46235, 25, M10, art. 290428
20 Crimping terminal DIN 46235, 35, M8, art. 290434
20 Crimping terminal DIN 46235, 35, M10, art. 290436
20 Crimping terminal DIN 46235, 50, M8, art. 290440

Art. no.	quantity		kg	PU
290382	380	DIN	6,600	1

SysCon cable lugs DIN & 210805 K

Content: 380 cable lugs DIN 46235, tinned

1	220370	ABS plastic box SysCon S		
2	220376	Foam SysCon 400 x 300 x 15 mm		
1	500270	Foam for sets 160 x 400 mm		
1	210805 K	Crimping pliers hexagonal crimping 6 – 50 mm²		
50	290404	Cable lugs DIN	6	M6
50	290406	Cable lugs DIN	6	M8
50	290410	Cable lugs DIN	10	M6
50	290412	Cable lugs DIN	10	M8
30	290418	Cable lugs DIN	16	M8
40	290420	Cable lugs DIN	16	M10
25	290426	Cable lugs DIN	25	M8
25	290428	Cable lugs DIN	25	M10
20	290434	Cable lugs DIN	35	M8
20	290436	Cable lugs DIN	35	M10
20	290440	Cable lugs DIN	50	M8

Art. no.	quantity	type	kg	PU
220385	380	DIN	4,300	1

SysCon cable lugs DIN 46235

Content: 389 cable lugs DIN, tinned

1	220370	ABS plastic box SysCon S		
2	220376	Foam SysCon 400 x 300 x 15 mm		
100	290404	Cable lugs DIN	6	M6
100	290412	Cable lugs DIN	10	M8
50	290418	Cable lugs DIN	16	M8
50	290426	Cable lugs DIN	25	M8
25	290434	Cable lugs DIN	35	M8
18	290442	Cable lugs DIN	50	M10
12	290450	Cable lugs DIN	70	M10
10	290458	Cable lugs DIN	95	M12
12	290464	Cable lugs DIN	120	M12
4	290472	Cable lugs DIN	150	M12
4	290480	Cable lugs DIN	185	M12
4	290486	Cable lugs DIN	240	M12

Art. no.	quantity	type	kg	PU
220387	389	DIN	4,300	1

SysCon cable lugs standard & 210805

Content: 380 cable lugse standard, tinned

1	220370	ABS plastic box SysCon S		
2	220376	Foam SysCon 400 x 300 x 15 mm		
1	500270	Foam for sets 160 x 400 mm		
1	210805	Crimping plier hexagonal crimping 6 – 50 mm²		
50	290934	Cable lugs standard	6	M6
50	290936	Cable lugs standard	6	M8
50	290940	Cable lugs standard	10	M6
50	290942	Cable lugs standard	10	M8
30	290952	Cable lugs standard	16	M8
40	290954	Cable lugs standard	16	M10
25	290960	Cable lugs standard	25	M8
25	290962	Cable lugs standard	25	M10
20	290968	Cable lugs standard	35	M8
20	290970	Cable lugs standard	35	M10
20	290978	Cable lugs standard	50	M8

Art. no.	kg	PU
220386	4,300	1

SysCon cable lugs standard

Content: 389 cable lugs standard

1	220370	ABS plastic box SysCon S		
2	220376	Foam SysCon 400 x 300 x 15 mm		
100	290934	Cable lugs standard	6	M6
100	290942	Cable lugs standard	10	M8
50	290952	Cable lugs standard	16	M8
50	290960	Cable lugs standard	25	M8
25	290968	Cable lugs standard	35	M8
18	290980	Cable lugs standard	50	M10
12	290988	Cable lugs standard	70	M10
10	290998	Cable lugs standard	95	M12
12	290008	Cable lugs standard	120	M12
4	290016	Cable lugs standard	150	M12
4	290022	Cable lugs standard	185	M12
4	290028	Cable lugs standard	240	M12

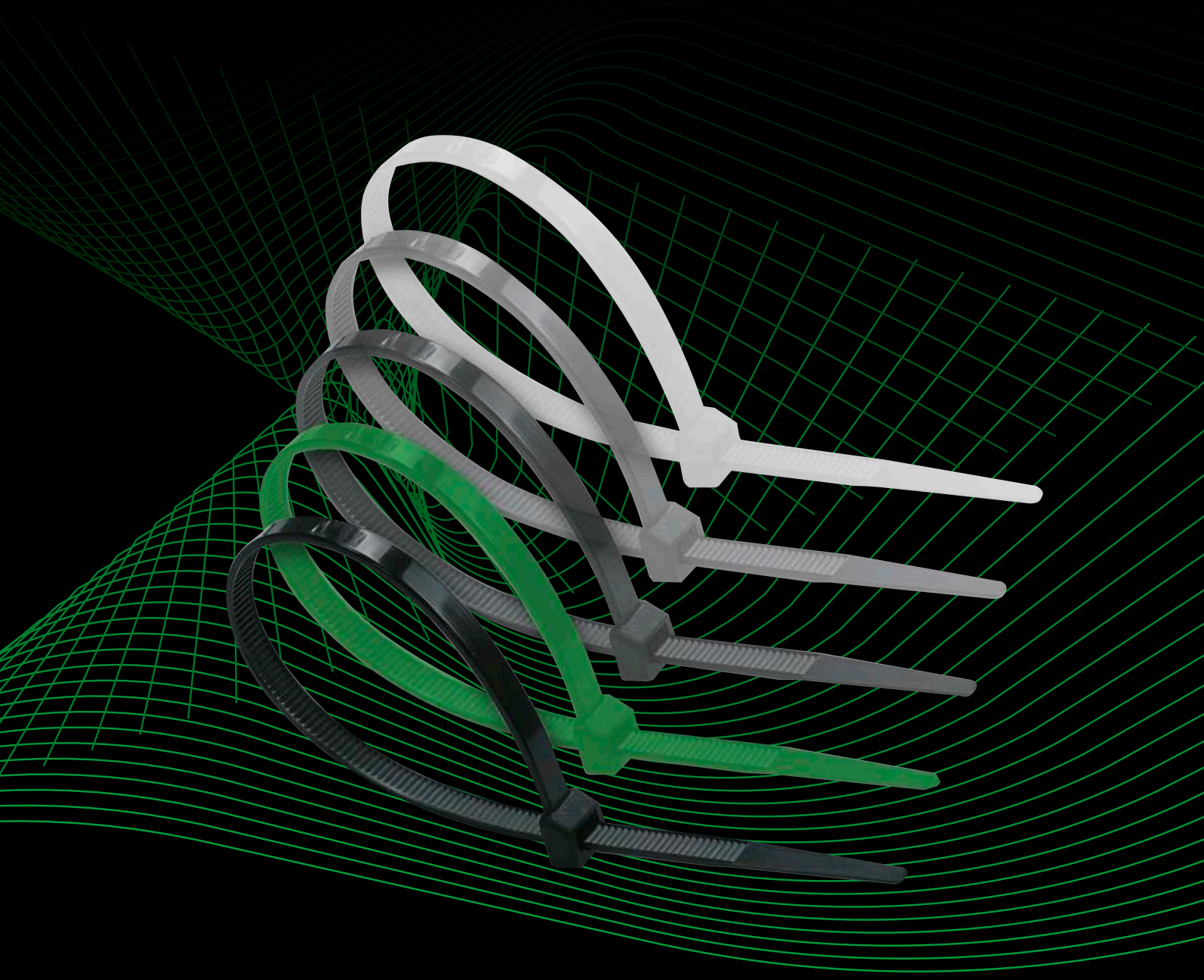
Art. no.	quantity	type	kg	PU
220388	389		4,300	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Cable ties, accessories



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INFO

Cable ties

HAUPA cable ties are characterised by their tightness, high tensile strength of the loop and extreme flexibility of the cord.
As a result of these characteristics, HAUPA cable ties are able to cope with even the most extreme installation practices, which conventional cable ties would not be able to cope with. All HAUPA cable ties conform to WEEE/RoHS guidelines.

The cable ties product range includes:

- **cable ties**
  colour: transparent/black
- **cable ties**
  colour: black (UV-resistant)
- **releasable ties**
  colour: black
- **double-locking cable ties**
  colour: black
- **cable ties with fixing eye**
  colour: transparent
- **cable ties with label**
  colour: transparent
- **hook and loop ties**
  colour: black, green

Accessories:
- adhesive base, screw base, plug mount base

Ideal storage conditions for cable ties made from nylon
Cable ties are made from high-quality nylon. This technical plastic is usually processed through injection moulding, but it can also be extruded. Nylon is a hygroscopic plastic that absorbs water and can release it. In order to process the ties optimally, it is important that the material is in a balanced state with a water content of approx. 2.5%. The original HAUPA cable tie packaging provides constant water content in the material.

The cable ties should be stored as follows:

Storage in a closed plastic bag made from polyethylene

No direct sunlight

Storage without direct exposure to heat (radiator etc.)

Ideal storage temperature (standard Central European climatic conditions) up to 23° with 50% humidity 23°C

All HAUPA cable ties are made from plastic and are recyclable. The internal toothing of the ties gives you the necessary strength to tie the material. The cable ties can be simply used by hand or with a HAUPA cable tie tool. The slightly bent end allows the tie to be inserted into the head easily.

Use: For bundling and fastening cables, wires and tubes. NH (non-halogen) – RoHS conform

Cable ties

material: nylon, colour transparent, quick and simple to fix by hand or with tensioning tools, extremely resistant to sea water, oil, grease, etc., manufactured in accordance with UL and MIL specification requirements, - 40° C to 85° C

Art. no.		width			kg/100		PU
262500/1	75	2,4	15	80	0,028	30.000	100
262500	96	2,5	23	80	0,028	30.000	100
262502 ✸	100	2,5	25	80	0,030	25.000	100
262504 ✸	142	2,5	35	80	0,044	25.000	100
262506 ✸	203	2,5	55	80	0,070	13.000	100
262508 ✸	142	3,2	35	180	0,083	10.000	100
262509/1	203	3,6	53	180	0,110	10.000	100
262510/1	250	3,6	68	180	0,150	6.000	100
262510 ✸	292	3,6	85	180	0,155	7.000	100
262512/1	120	4,8	27	220	0,080	10.000	100
262515	157	4,8	40	220	0,110	6.000	100
262512 ✸	188	4,8	54	220	0,143	8.000	100
262516 ✸	199	4,8	54	220	0,130	7.000	100
262518 ✸	250	4,8	68	220	0,203	6.000	100
262511/1	290	4,8	81	180	0,210	5.000	1000
262520 ✸	302	4,8	84	220	0,220	5.000	100
262522 ✸	371	4,8	106	220	0,260	4.000	100
262523	430	4,8	125	220	0,330	4.000	100
262528	200	7,6	54	540	0,300	2.000	100
262530	290	7,6	82	540	0,400	2.000	100
262532 ✸	370	7,6	101	533	0,490	2.500	100
262534	450	7,6	130	540	0,800	1.000	50
262534/1	540	7,6	160	540	0,820	1.000	50
262536 ✸	425	8,8	115	790	0,760	500	50
262537	523	8,8	150	790	0,860	500	50
262538	610	8,8	180	790	1,270	500	50
262535	774	8,8	220	790	1,440	600	50
262540	800	8,8	235	790	1,600	500	20
262542	920	8,8	270	790	1,720	500	50
262543	1219	9	374	790	2,400	500	20
262545	246	12,4	64	1120	0,760	500	50
262546	550	12,7	166	1120	1,520	500	50
262547	1030	12,7	312	1120	3,000	500	100

Cable ties

material: nylon - colour black, all other data and properties like No. 262500 - 46, weather- and UV-resistant

Art. no.		width			kg/100		PU
262600/1	75	2,4	15	80	0,028	30.000	100
262600	96	2,5	23	80	0,040	30.000	100
262602 ✷	100	2,5	25	80	0,040	25.000	100
262604 ✷	142	2,5	35	80	0,040	20.000	100
262606 ✷	203	2,5	55	80	0,070	10.000	100
262608 ✷	142	3,2	35	180	0,070	10.000	100
262609/1	203	3,6	53	180	0,110	10.000	100
262610 ✷	292	3,6	85	180	0,150	6.000	100
262610/1	250	3,6	68	180	0,120	7.000	100
262611/1	372	3,6	106	180	0,170	4.000	1000
262616 ✷	203	4,6	52	220	0,140	6.000	100
262612/1	120	4,8	27	220	0,080	10.000	100
262615	157	4,8	40	220	0,110	6.000	100
262618 ✷	250	4,8	68	220	0,180	6.000	100
262620 ✷	302	4,8	84	220	0,220	5.000	100
262622 ✷	371	4,8	106	220	0,270	4.000	100
262623	430	4,8	125	220	0,330	4.000	100
262628	200	7,6	54	540	0,300	2.000	100
262630	290	7,6	82	540	0,400	2.000	100
262632 ✷	370	7,6	101	533	0,530	2.500	100
262634	450	7,6	130	540	0,800	1.000	50
262634/1	540	7,6	160	540	0,820	1.000	50
262636 ✷	425	8,8	115	800	0,880	500	50
262637	523	8,8	150	800	0,860	500	50
262638	610	8,8	180	800	1,160	500	50
262635	774	8,8	220	800	1,400	600	50
262640	800	8,8	235	800	1,600	500	20
262642	920	8,8	270	800	1,860	500	50
262643	1219	8,8	374	800	2,400	500	25
262645	246	12,4	64	1140	0,760	500	50
262646	550	12,7	166	1140	1,560	500	50
262647	1030	12,7	312	1140	3,000	500	20

Cable ties

material: polyamide 6,6 - colour transparent, resistant to milden and rotting, extremely resistant to sea water, oil, grease, hydrocarbons and hydraulic fluids, operating temperature: -40° to +85° C, these binders meet the requirements of the military specification Mil.-Spec. 23 190C (WEP) MS-3367

Art. no.		width			kg/100		PU
262100	100	2,5	23	80	0,031	25.000	100
262101	203	3,6	55	180	0,131	10.000	100
262102	142	3,2	35	180	0,074	10.000	100
262106	203	4,6	55	220	0,150	7.000	100
262108	310	4,8	89	220	0,228	5.000	100
262110	368	4,8	102	220	0,227	4.000	100
262114	380	7,6	110	550	0,560	2.000	50
262116	550	12,7	166	1120	1,600	500	50

Cable ties

material: polyamide 6,6 - colour black, all other data and properties like No. 26 21 00 - 16, resistant to sea water, oil, grease, etc., not UV-resistant

Art. no.		width			kg/100		PU
262120	100	2,5	25	80	0,030	25.000	100
262122	142	3,2	35	180	0,065	10.000	100
262124	203	3,6	55	180	0,116	10.000	100
262126	199	4,8	54	220	0,145	6.000	100
262128	302	4,8	84	220	0,248	5.000	100
262130	368	4,8	102	220	0,269	4.000	100
262132	290	7,6	82	550	0,397	2.000	100
262134	370	7,6	106	550	0,580	2.000	50
262136	618	12,4	181	1120	1,600	500	50

Cable ties Uvplus

Long-term weather resistant, for industrial uses, black, UV resistant, material - polyamide, 7 year guarantee

Art. no.		width			kg/100	PU
262950	100	2,5	25	80	0,030	100
262952	202	2,5	50	80	0,070	100
262954	150	3,3	38	133	0,070	100
262956	201	3,6	52	133	0,150	100
262958	290	3,6	82	180	0,160	100
262960	199	4,8	50	220	0,150	100
262962	250	4,8	72	220	0,200	100
262964	290	4,8	83	220	0,220	100
262966	371	4,8	106	220	0,270	100
262968	290	7,6	82	540	0,410	100
262970	370	7,6	108	540	0,550	100
262972	542	7,6	162	540	0,750	100
262974	523	8,8	156	790	1,000	50
262976	709	8,8	185	790	1,000	50
262978	774	8,8	220	790	1,000	50
262980	920	8,8	279	790	1,000	50

Cable ties

material: nylon - colour transparent, all other data and properties like No. 262500 - 46, big packing unit 1000 pcs.

Art. no.		width			kg/100	PU
262501	96	2,5	23	80	0,028	1000
262503	100	2,5	25	80	0,0264	1000
262505	142	2,5	35	80	0,0396	1000
262507	203	2,5	55	80	0,0648	1000
262509	142	3,2	35	180	0,070	1000
262511	290	3,6	82	180	0,158	1000
262513	188	4,8	54	220	0,140	1000
262517	199	4,8	54	220	0,140	1000

Heat-resistant cable ties

Material nylon 6/6, colour light green, UL94V-2, for high temperature applications between -40°C and +105°C

Art. no.		width			kg/100	PU
263000	100	2,5	21	80	0,030	100
263004	200	2,5	55	80	0,070	100
263006	120	3,6	37	180	0,040	100
263008	160	4,6	40	220	0,080	100
263010	199	4,6	54	220	0,140	100
263012	371	4,6	106	220	0,260	100

UV heat-resistant cable ties, black

Material nylon 6/6, colour black, UL94V-2, for high temperature applications between -40°C and +145°C, UV-stabilized

Art. no.		width			kg/100	PU
263022	160	2,5	21	80	0,050	100
263024	200	2,5	21	80	0,070	100
263026	199	4,6	54	220	0,130	100
263028	302	4,6	84	220	0,180	100
263030	370	7,6	106	540	0,490	100

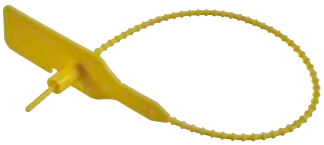
HUPimpact cable ties

Material shock-resistant nylon 6/6, colour black, UL 94HB, for use in temperatures between -40°C and +80°C, extremely high flexibility in cold environments

Art. no.		width			kg/100	PU
263100	199	4,6	54	220	0,130	100
263102	288	4,6	81	220	0,170	100
263104	302	4,6	84	220	0,250	100
263106	371	4,6	106	220	0,270	100
263108	290	7,5	82	540	0,250	100
263110	370	7,5	106	540	0,530	100
263112	774	8,7	220	790	1,020	100

HUPsecure cable ties

Material PP, colour: yellow, can be used as a seal /connector



Art. no.		width		kg/100	PU
263200	245	3,6	43	0,440	100
263204	295	3,6	60	0,490	100
263208	397	3,6	92	0,540	100

Releasable cable ties for frequent opening and closing

for temporary wiring and sub-assembly, material: polyamide 6,6 - colour black, operation temperature: -40° to +85° C, UL E 341152

Art. no.		width			kg/100	PU
262140	150	7,6	33	220	0,201	100
262142	200	7,6	49	220	0,249	100
262144	300	7,6	80	220	0,349	100

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Double-locking-cable ties

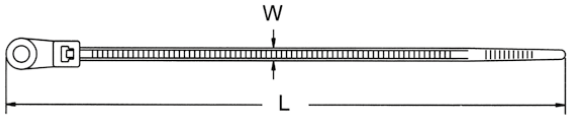
material: nylon - colour black, (262710 Nylon 12).
Benefits:
- Flat head geometry
- Exterior
- Smooth side is up against the insulation - no dents or damages
- Wide contact surface protects the cable loom from damages

Application:
- Bundling of tubes in narrow shafts
- Cable bundling in hollow wall spaces
- Pull-out forces are well distributed thanks to the extra-wide tie

Art. no.		width			kg/100	PU
262700	180	9	45	550	0,319	100
262702	300	9	88	550	0,512	100
262704	360	9	100	550	0,629	100
262710	300	9	88	550	0,463	100

Cable ties with fixing eye

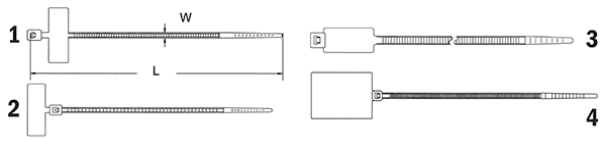
material: nylon, colour transparent, quick and simple to fix by hand or with tensioning tools, extremely resistant to sea water, oil, grease, etc., manufactured in accordance with UL and MIL specification requirements, - 40° C bis 85° C



Art. no.		width	Ø			kg/100	PU
262820	100	2,5	3	25	80	0,044	100
262822	170	3,7	4,8	40	180	0,100	100
262824	170	3,7	4	40	180	0,105	100
262826 ✷	205	4,2	4,6	60	220	0,133	100
262828 ✷	300	4,8	4,8	85	220	0,224	100
262830	300	7,8	6	80	540	0,443	100
262832	370	4,8	4,9	102	220	0,276	100
262834	398	7,9	6,1	122	540	0,595	100

Cable ties with marking space

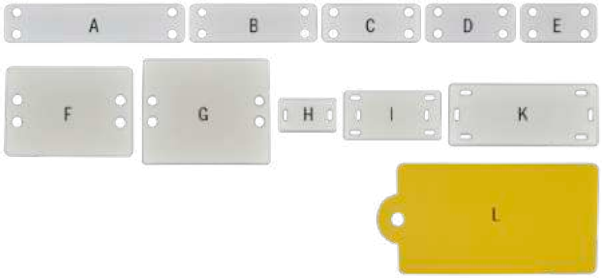
These cable ties are suitable for simple labelling and simultaneous bundling ofcable loops. This saves one work step. Material: nylon, colour natural, can be fastened quickly and easily using a tool or by hand. Extremely resistant to sea water, oil, fats etc, manufactured according to UL gema tested nylon.
Technical data: material polyamide 6.6 (N66), operating temperature -40 to +85 C.
Group features: HF (non-halogen), RoHS-conform



Art. no.			width	label			kg/100	PU
262840 ✷	1	100	2,5	25 x 8	25	80	0,049	100
262842 ✷	4	130	2,5	28 x 20	25	80	0,093	100
262844	2	110	2,5	25 x 8	25	80	0,058	100
262846	3	200	4,6	28 x 13	50	220	0,147	100
262848 ✷	1	200	2,5	30 x 15	50	80	0,128	100
262850	3	270	4,6	28 x 13	75	220	0,198	100

Identification label for cable ties / marking cables

Material PE, for marking cables, pipes and lines, low weight, permanent labelling



Art. no.		Width	Height		kg/100	PU
262179	26	15	1,2	**H**	0,050	100
262180	42,2	21	1,2	**I**	0,110	100
262181	60,8	25	1,2	**K**	0,200	100
262182	62,2	51	1,3	**G**	0,460	100
262183	38,5	19	0,4	**E**	0,040	100
262184	45,3	19,1	0,4	**D**	0,050	100
262185	50,5	19,1	0,4	**C**	0,050	100
262186	65	19,1	0,4	**B**	0,070	100
262187	63,8	44,8	0,4	**F**	0,170	100
262188	90	19,1	0,4	**A**	0,100	100
262189	160	80	0,6	**L**	1,110	100

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Labelling box

Material PE, for attaching using cable ties (widths up to 4.8mm)
Instructions: Open box, insert labelled paper, snap box shut and attach using cable ties

Art. no.	⟷	Width	Height		kg/100	PU
262190	11,5	32,6	3	**1**	0,090	100
262191	19,1	43,5	4,6	**2**	0,260	100

Self adhesive sockets

for cable ties and a quick and reliable fastening of line or cable bundles and other objects

Art. no.	⟷	Color	Max. Width	Width	kg/100	PU
262160 ✷	19	white	3,6	19	0,078	100
262161	19	black	3,6	19	0,075	100
262162 ✷	28	white	4,8	28	0,178	100
262163	28	black	4,8	28	0,190	100

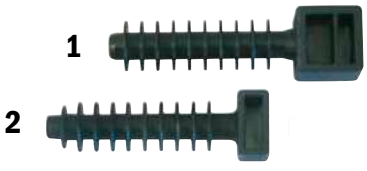
Screw type sockets

for cable ties and a quick and reliable fastening of large diam. Cable bundles and other objects, not UV-resistant

Art. no.	⟷	Color	Max. Width	Width	kg/100	PU
262164 ✷	1,5	white	7,8	1	0,121	100
262165 ✷	1,5	black	7,8	1	0,136	100

Dowel Mounting sockets/Christmas trees

for cable ties up to a width of 9 mm, 2 types with different wall-distances, available wall-fixing avoid the friction of the cable on the wall, black colour



Art. no.	⟷	Max. Width	Width		kg/100	PU
262170 ✷	37	9	10	**1**	0,201	100
262172	37	9	10	**2**	0,280	100

Tensioning tools for cable ties

Prevents overstretching and constriction by continnuonsly adjustable stress limitation. The built-in knife will cut only, when the requested tension has been reached

Art. no.	Width	material	kg	PU
262151 ✷	5	plastic	0,240	1
262152 ✷	5	metal	0,334	1
262153	5	metal	0,334	1
262154	13	metal	0,365	1
262158 ✷	10	metal	0,303	1

Hook-and-loop cable ties

made from extruded polyamide-velour laminate, thickness approx. 1.4 mm, selfadhesive back to back, suitable for approx. 200 uses. Colours: black and green Hook-and-loop cable ties with loop, cut to binder measurements for all standard electrical installations

Art. no.	⟷	Width	kg/100	PU
262750	125	12	0,220	20
262752	135	12	0,240	20
262754	180	12	0,300	20
262756	210	16	0,420	20
262758	310	16	0,560	20
262760	125	12	0,220	20
262762	135	12	0,230	20
262764	180	12	0,300	20
262768	310	16	0,610	20

Hook and loop tape for electrical installations

Hook and loop cable tie black roll 10m x 15mm

Art. no.	⟷	Width	kg/100	PU
262780	10000	15	8,800	1
262782	10000	20	10,000	1

Solar fastening clip

- Clip with cable tie 200 x 4.8 mm
- UV-stable and heat-resistant
- Guide on the clip, cable strap at a 90-degree angle to the edge-Attachment to the profile, lengthwise to the profile
- For edges from 0.7 mm to 3.0 mm
- Temperature range: -40 °C to 120 °C

Art. no.	⟷	Width	Ø	kg	PU
262194	15	12	16	0,0149	1

Solar fastening clip

- Clip with cable tie 200 x 4.8 mm
- UV-stable and heat-resistant
- Guide on the side of the clip, cable strap at a 90-degree angle to the edge
- Attachment to the profile, lengthwise to the profile
- For edges from 0.7 mm to 3.0 mm
- Temperature range: -40 °C to 120 °C

Art. no.	⟷	Width	Ø	kg	PU
262195	15,5	14,6	14	0,0133	1

Solar fastening clip

- Clip with cable tie 200 x 4.8 mm
- UV-stable and heat-resistant
- Guide on the side of the clip, cable tie parallel to the edge
- Attachment to the profile, lengthwise to the profile
- For edges from 0.7 mm to 3.0 mm
- Temperature range: -40 °C to 120 °C

Art. no.	⟷	Width	Ø	kg	PU
262196	15	16	14	0,0137	1

Solar fastening clip

- Clip with cable tie 200 x 4.8 mm
- UV-stable and heat-resistant
- Guide on the clip and on the side of the clip, can be mounted in four directions
- Attachment to the profile
- For edges from 0.7 mm to 3.0 mm
- Temperature range: -40 °C to 120 °C

Art. no.	⟷	Width	Ø	kg	PU
262197	15	14	14	0,0129	1

Solar fastening clip

- Expansion anchor with cable tie 200 x 4.8 mm
- UV-stable and heat-resistant
- Expansion anchor plug-in dimensions: M14, 6.4+ mm deep
- Can be attached in two directions
- Temperature range: -40 °C to 120 °C

Art. no.	⟷	Width	Ø	kg	PU
262198	22	12	12	0,0091	1

Solar fastening clip

- For 2 x 6 mm² cable, without cable ties
- Fixing the cable directly in the clamp
- Attachment on the profile, along the profile, next to the edge
- For edges 0.7 mm to 3.0 mm
- Temperature range: -40 °C to 120 °C

Art. no.	⟷	Width	Ø	kg	PU
262199	20	17	17	0,0132	

Solar fastening clip

- For 2 x 6 mm² cable, without cable ties
- Fixing the cable directly in the clamp
- Attachment to the profile, lengthwise to the profile, above the edge
- For edges 0.7 mm to 3.0 mm
- Temperature range: -40 °C to 120 °C

Art. no.	⟷	Width	Ø	kg	PU
262173	15	29	9,4	0,0106	1

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HAUPA GmbH, Lange Str. 40, D-42857 Remscheid, Germany, Phone: +49 (0)2191 8418-0, Fax: +49 (0)2191 8418-840, E-mail: sales@haupa.com

Polyethene spiral binding

natural, non-flame resistant

Art. no.	⟷	Ø	kg	PU
262060	30 m	1,5	0,141	1
262062 ✸	30 m	4	0,390	1
262064 ✸	30 m	9	0,780	1

Polyethene spiral binding

white, nearly flame resistant

Art. no.	⟷	Ø	kg	PU
262066	30 m	1,5	0,156	1
262068 ✸	30 m	4	0,360	1
262069	30 m	9	0,964	1

Polyethene spiral binding

white, nearly flame resistant

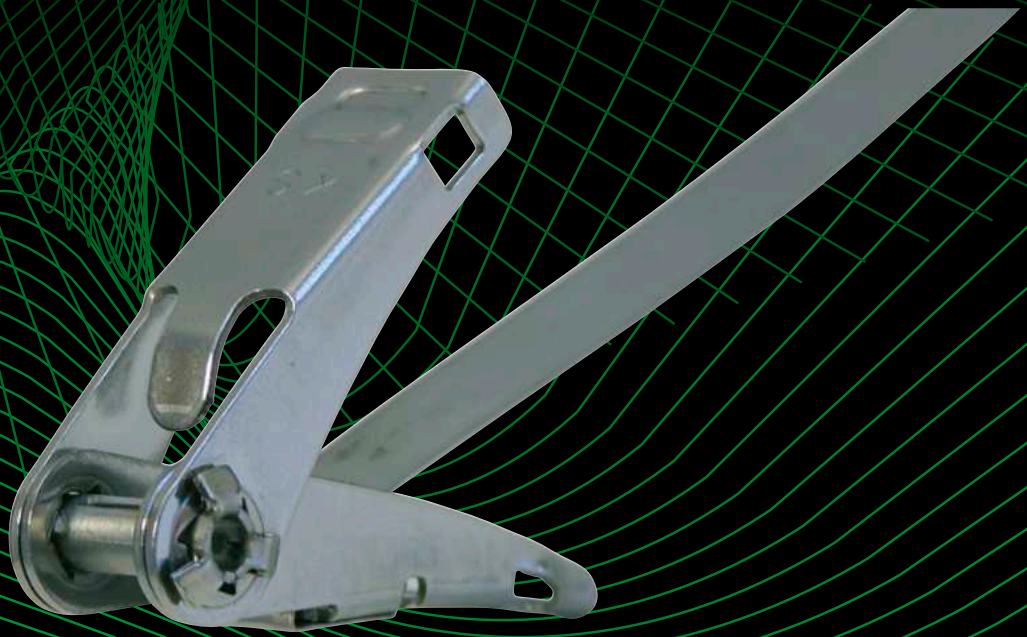
Art. no.	⟷	Ø	kg	PU
262030	2 m	8	0,141	1
262031	2 m	15	0,141	1
262032	2 m	20	0,141	1
262033	2 m	25	0,141	1

Polyethene spiral binding

black, nearly flame resistant

Art. no.	⟷	Ø	kg	PU
262034	2 m	8	0,141	1
262035	2 m	15	0,141	1
262036	2 m	20	0,141	1
262037	2 m	25	0,141	1

Steel cable ties, accessories



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Steel cable ties, SS 316 (V4A) with ball closure

made from stainless steel 316 (DIN 1.4401), corrosion and radiation resistant, non-magnetic, extremely resistant to high temperatures (steel –80 °C to +538 °C) and aggressive chemicals, steel thickness 0.3 mm.
For use in machinery, vehicles, signalling, shipping and mining, in the food and chemical industries, in power plants, underground systems, on drilling platforms, wind-power generation plants and telecommunications, radio technology, stage construction, trade fair construction.

Art. no.	width			kg/100	PU
262940/125 ✷	125	4,5	22	440	0,190	100
262940/152 ✷	152	4,5	25	440	0,230	100
262940/200 ✷	200	4,5	50	440	0,280	100
262940/250 ✷	250	4,5	60	440	0,330	100
262940/300 ✷	300	4,5	75	440	0,420	100
262940/360 ✷	360	4,5	102	440	0,450	100
262940/520 ✷	520	4,5	152	440	0,660	100
262950/152	152	8	25	1100	0,480	50
262950/200	200	8	50	1100	0,680	50
262950/300	300	8	75	1100	0,750	50
262950/360	360	8	102	1100	0,920	50
262950/520	520	8	152	1100	1,280	25
262950/680	680	8	203	1100	1,550	25
262950/840	840	8	254	1100	1,840	50
262950/1050	1050	8	318	1100	2,100	25
262960/290	290	12	80	2670	1,500	25
262960/360	360	12	102	2670	1,700	25
262960/520	520	12	152	2670	2,800	25
262960/680	680	12	203	2670	3,300	25
262960/840	840	12	254	2670	4,500	25
262960/1000	1000	12	302	2670	5,000	25
262960/1200	1200	12	351	2670	5,500	25

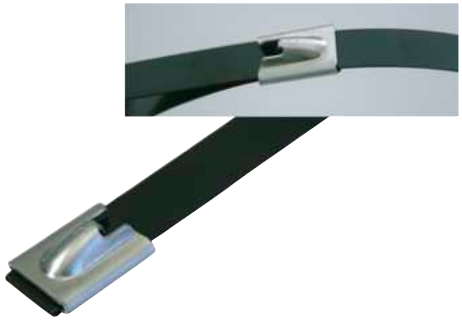
Steel cable ties, SS 316 (V4A) with ratchet function

made from stainless steel 316 (DIN 1.4401), corrosion and radiation resistant, non-magnetic, extremely resistant to high temperatures (steel –80 °C to +538 °C) and aggressive chemicals, steel thickness 0.3 mm; installation without additional tools.
For use in machinery, vehicles, signalling, shipping and mining, in the food and chemical industries, in power plants, underground systems, on drilling platforms, wind-power generation plants and telecommunications.

Art. no.	width				kg/100	PU
262970/1100	1100	10	330	1960	5,500	10
262970/1315	1315	10	380	1960	6,000	10

Steel cable ties, SS 316 (V4A) with ball closure

with cable protection sleeve made of epoxy resin polyester, free from halogen, black made from stainless steel 316 (DIN 1.4401), corrosion and radiation resistant, non-magnetic, extremely resistant to high temperatures (steel –80 °C to +538 °C) and aggressive chemicals, steel thickness 0.3 mm.
For use in machinery, vehicles, signalling, shipping and mining, in the food and chemical industries, in power plants, underground systems, on drilling platforms, wind-power generation plants and telecommunications, radio technology, stage construction, trade fair construction.
Benefits:
- Soft edges
- Easy installation comfort and handling
- Fully coated to prevent contact corrosion
- Gentle fixture
- Material: 99,9% E-Cu DIN 40500



Art. no.	width			kg/100	PU
262942/125	125	4,5	22	440	0,190	100
262942/152	152	4,5	25	440	0,230	100
262942/200	200	4,5	50	440	0,280	100
262942/250	250	4,5	60	440	0,330	100
262942/300	300	4,5	75	440	0,420	100
262942/360	360	4,5	102	440	0,450	100
262942/520	520	4,5	152	440	0,660	100
262952/152	152	8	25	1100	0,480	50
262952/200	200	8	50	1100	0,680	50
262952/300	300	8	75	1100	0,750	50
262952/360	360	8	102	1100	0,920	50
262952/520	520	8	152	1100	1,280	50
262952/680	680	8	203	1100	1,550	50
262952/840	840	8	254	1100	1,840	50
262952/1050	1050	8	318	1100	25,600	25
262962/290	290	12	80	2670	1,500	25
262962/360	360	12	102	2670	1,700	25
262962/520	520	12	152	2670	2,800	25
262962/680	680	12	203	2670	3,300	25
262962/840	840	12	254	2670	4,500	25
262962/1000	1000	12	302	2670	5,000	25
262962/1200	1200	12	351	2670	5,500	25

Tensioning tools for steel cable ties

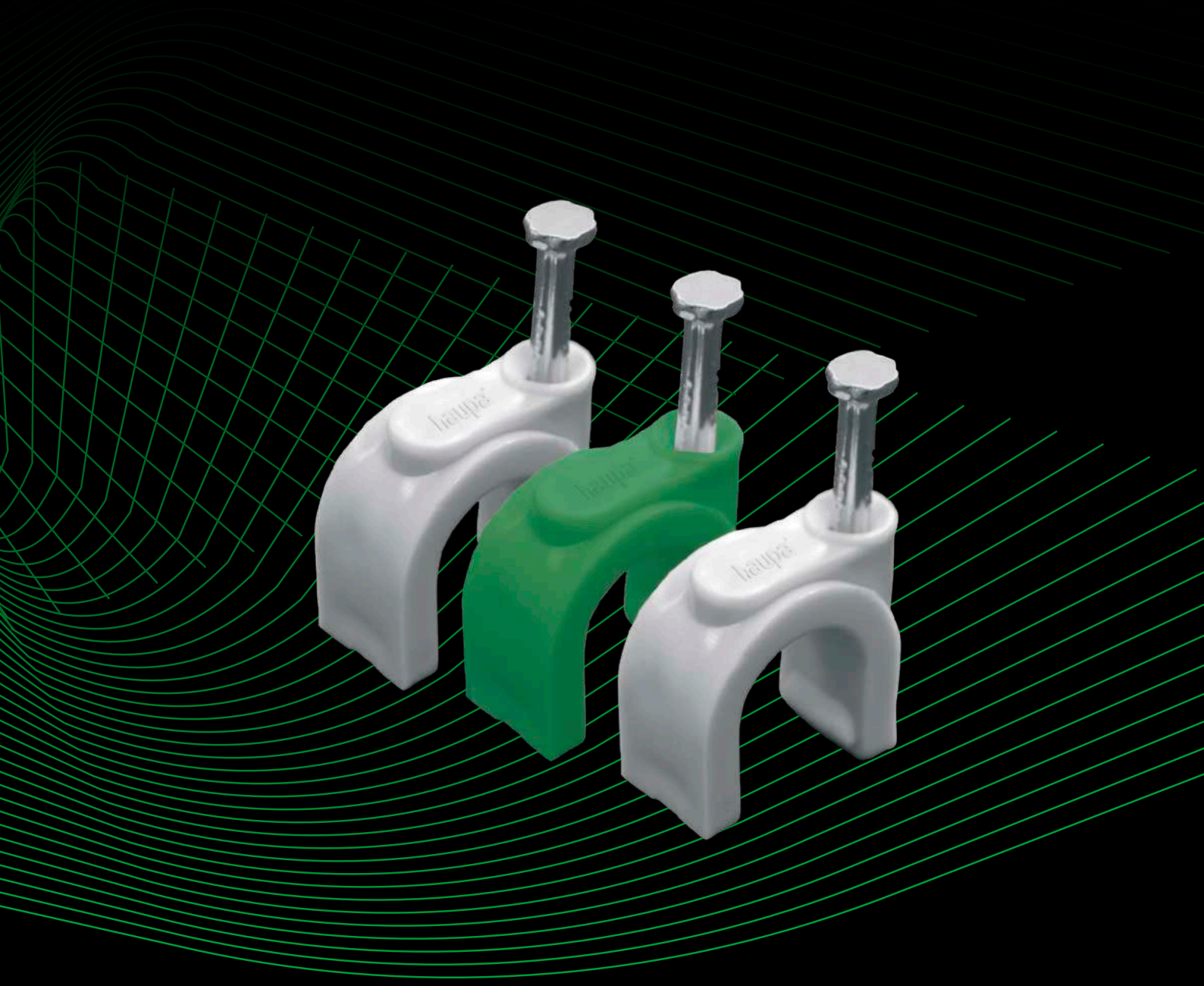
Steel cable ties are tensioned by the tool and can be cut off flush. Cutting is implemented manually using a hand lever, the force cannot be pre-set. Only suitable for steel cable ties (coated and not coated).
Processing width: 4.5 – 12.0 mm, max. thickness of cable ties: 0.3 mm

Art. no.	material	width	kg	PU
262159	metal	4,5 - 12	0,560	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

Nailing clips



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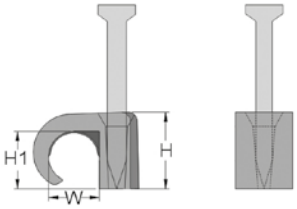
Nailing clips

Nailing clips for round cable

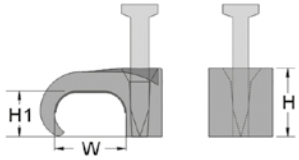
for attaching and fixing electrical cables, optimum claw shape for secure fixing of the cable, can be fixed to the cable, version with inserted galvanised nail, material: hammer-proof polyethylene (PE), halogen-free, temperature resistant: – 40 °C to + 80 °C, and for short periods up to approximately 100 °C.



Art. no.	Color	Ø	H	H1	W	NL	ND	kg/100	PU
262200	transparent	2-3	4,3	2,8	2,8	15	1,2	0,032	100
262202	transparent	3-5	5,6	3,7	2,9	20	1,2	0,038	100
262204	white	3-5	5,6	3,7	2,9	15	2	0,038	100
262206	black	5-7	8	6	5,3	25	2	0,100	100
262208	transparent	5-7	8	6	5,3	20	2	0,100	100
262209	grey	5-7	8	6	5,3	35	2	0,100	100
262210	white	5-7	8	6	5,3	20	2	0,102	100
262212	black	7-10	9,5	7,1	6,8	25	1,6	0,093	100
262214	brown	7-10	9,5	7,1	6,8	25	2	0,092	100
262215	grey	7-10	9,5	7,1	6,8	35	2	0,092	100
262216	orange	7-10	9,5	7,1	6,8	25	2	0,093	100
262218	white	7-10	9,5	7,1	6,8	25	2	0,092	100
262219	grey	8-12	9,5	7,1	6,8	35	2	0,138	100
262220	black	10-14	13	10,3	9,4	30	2	0,166	100
262222	white	10-14	13	10,3	9,4	35	2	0,162	100
262223	grey	10-14	13	10,3	9,4	44	2	0,162	100
262224	black	14-20	17,1	13,7	13,1	35	2	0,136	50
262226	white	14-20	17,1	13,7	13,1	40	2,5	0,138	50
262227	grey	14-20	17,1	13,7	13,1	44	2,5	0,138	50
262228	black	18-22	19,5	17	16,4	45	2,5	0,402	50
262230	white	18-22	19,5	17	16,4	38	3,2	0,396	50
262231	grey	18-22	19,5	17	16,4	45	2	0,138	50
262232	black	22-26	21	19,5	24	45	2,5	0,464	50
262234	white	22-26	21	19,5	24	38	3,2	0,458	50
262235	grey	22-26	21	19,5	24	38	3,2	0,458	50

Nailing clips for flat cable

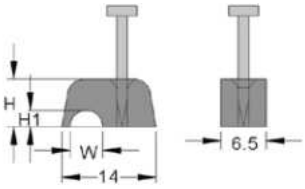
for attaching and fixing electrical cables, optimum claw shape for secure fixing of the cable, can be fixed to the cable, version with inserted galvanised nail, material: hammer-proof polyethylene (PE), halogen-free, temperature resistant: – 40 °C to + 80 °C, and for short periods up to approximately 100 °C.



Art. no.	Color	Ø	H	H1	W	NL	ND	kg/100	PU
262236	transparent	2-4	4	2	4	15	2	0,032	100
262238	transparent	3-5	5,2	3,3	4,6	15	2	0,038	100
262240	transparent	4-6	5,9	3,8	5,8	15	2	0,047	100
262242	grey	5-8	7,5	4,9	7,9	25	2	0,107	100
262243	white	5-8	7,5	4,9	7,9	25	2	0,103	100
262244	grey	6-10	8,2	5,8	9,8	25	2	0,120	100
262245	white	6-10	8,2	5,8	9,8	25	2	0,120	100
262246	grey	7-14	9,3	6,5	11,8	25	2	0,176	100
262247	white	7-14	9,3	6,5	11,8	25	2	0,174	100
262248	grey	9-18	12,2	9,4	16,7	22	2,5	0,237	100
262249	white	9-18	12,2	9,4	16,7	22	2,5	0,236	100

Nailing clips for round cable

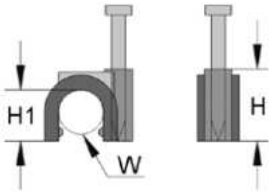
for attaching and fixing electrical cables, version with inserted galvanised nail, material: hammer-proof polyethylene (PE), halogen-free, temperature resistant: – 40 °C to + 80 °C, and for short periods up to approximately 100 °C.



Art. no.	Color	Ø	W	NL	ND	kg/100	PU
262254	grey	4,1	4,1	15	2	0,083	100
262256	grey	4,1	4,1	20	2	0,089	100
262258	grey	7	7	20	2	0,103	100
262260	grey	9	9	20	2	0,178	100
262262	grey	13,2	13,2	20	2	0,225	100

ISO nailing clips

for attaching and fixing electrical cables, can be fixed to the cable, version with inserted galvanised nail, material: hammer-proof polyethylene (PE), halogen-free, temperature resistant: – 40 °C to + 80 °C, and for short periods up to approximately 100 °C.



Art. no.	Color	Ø	H	H1	W	NL	ND	kg/100	PU
262264	grey	2,75	4,5	2,6	2,75	20	2	0,083	100
262266	grey	6	9	6,6	6	20	2	0,100	100
262268	grey	8	12,9	9	8	25	2	0,131	100
262270	grey	9	12	8	9	22	2	0,132	100
262272	grey	10	13,8	10,4	9,3	25	2	0,145	100
262274	grey	2,75	4,5	2,6	2,75	19	1,65	0,047	100
262276	grey	3,5	5,9	3,7	3,5	15	2	0,060	100
262278	grey	4	6,6	4,2	4	18	2,5	0,091	100
262280	grey	5	7,6	5	5	18	2,5	0,100	100
262282	grey	6	9	6,6	6	18	2,5	0,106	100
262284	grey	6	10,5	6,9	6	20	2,5	0,119	100
262286	grey	7	11	7,5	7	22	2,5	0,128	100
262288	grey	8	12,9	8,15	8	22	2,5	0,136	100
262290	grey	9	12	9	9	22	2,5	0,138	100
262292	grey	9,5	13,8	10,4	9,3	25	2,5	0,156	100
262294	grey	11	16,6	12,2	11	27	2,5	0,234	100
262296	grey	12	16	12,3	12	27	2,5	0,223	100
262298	grey	14	20,5	15,6	14	35	3	0,345	100
262300	grey	16	21,7	17	16,5	38	3,2	0,472	100
262302	grey	18	22	17,5	18	38	3,2	0,457	100
262304	grey	20	23,5	18,5	20	38	3,2	0,500	50
262306	grey	22	27,8	23	22	42	3,2	0,321	50
262308	grey	25	30,4	25	25	47	3,2	0,800	50
262310	grey	32	40	33,5	32	56	3,6	0,306	25

NL = nail length
N-Ø = nail diameter
H = height
H1 = height 1
W = width (opening)

E186042

Cable glands, IP68

haupa®

... convincing solutions

INFO

Cable glands polyamide IP68

Properties:
integrated strain relief, fully mounted, RoHS-compliant.
HAUPA cable glands do protect electric equipment (switchboards, distribution boxes) against mechanical influences, dust, and humidity by connecting a cable tight and sealed to the housing.
HAUPA offers next to metric as well PG cable glands.
HAUPA cable glands are IP68 (dust and humidity) to protect human against the potential risk during usage.

Cable glands IP 68, metric or PG, assembled with washer and lock nut, fully mounted

material: polyamide 6.6, (gland body: PA 6.6, halogen free, seal: TPR, halogen free, washer: PVC), colour: light-grey or black, temperature range: – 40°C to + 85°C, vibration protection: integrated anti-twist protection for vibration-firm assembly, fire class: according to UL 94 V–2, protection category: IP68, properties: integrated strain relief; easy to install, RoHS-compliant, completely assembled as shown

Art. no.	Color		KB	D1	D2	B1	L1	L2	L3	WS	kg/100		PU
250040	grey	**M12**	3 - 6,5	12	8,3	6,9	7,9	19,6	13,6	15	0,480	4.250	10
250042 ✷	grey	**M16**	5 - 10	16	10,9	10,5	15,5	23,4	16,9	19	1,500	1.700	10
250044 ✷	grey	**M20**	8 - 12	20	14,1	12,5	10	25	18,1	24	1,650	1.200	10
250046	grey	**M20**	10 - 14	20	15	14	10	28,5	18,5	27	1,800	1.190	10
250048	grey	**M20**	10 - 14	20	15	14	15	28,5	18,5	27	1,660	1.190	10
250050 ✷	grey	**M25**	13 - 18	25	18,6	18,4	15,2	29,4	22,3	30	2,710	680	10
250052	grey	**M32**	18 - 25	32	26	25	14,7	34,5	25,7	36	4,430	340	10
250054	grey	**M40**	22 - 32	40	33,7	33	18,4	41,7	31,3	46	7,760	230	5
250056	grey	**M50**	30 - 38	50	41,9	40	17,8	44,2	31,3	55	10,200	160	5
250058	grey	**M63**	34 - 44	63	55	44	18,5	44,6	32,7	66	11,400	120	5

Art. no.	Color		KB	D1	D2	B1	L1	L2	L3	WS	kg/100		PU
250080	black	**M12**	3 - 6,5	12	8,3	6,9	7,9	19,6	13,6	15	0,600	4.250	10
250082	black	**M16**	5 - 10	16	10,9	10,5	15,5	23,4	16,9	19	1,000	1.700	10
250084	black	**M20**	8 - 12	20	14,1	12,5	10	25	18,1	24	1,300	1.200	10
250086	black	**M20**	10 - 14	20	15	14	10	28,5	18,5	27	1,620	1.190	10
250088	black	**M20**	10 - 14	20	15	14	15	28,5	18,5	27	1,700	1.190	10
250090	black	**M25**	13 - 18	25	18,6	18,4	15,2	29,4	22,3	30	2,690	680	10
250092	black	**M32**	18 - 25	32	26	25	14,7	34,5	25,7	36	4,560	340	10
250094	black	**M40**	22 - 32	40	33,7	33	18,4	41,7	31,3	46	8,100	230	5
250096	black	**M50**	30 - 38	50	41,9	40	17,8	44,2	31,3	55	10,100	160	5
250098	black	**M63**	34 - 44	63	55	44	18,5	44,6	32,7	66	11,400	120	5

Art. no.	Color		KB	D1	D2	B1	L1	L2	L3	WS	kg/100		PU
250060	grey	**PG7**	3,5 - 6	12,5	8,3	6,9	7,9	20	13,3	15	0,540	4.250	10
250062 ✷	grey	**PG9**	4 - 8	15,2	10,5	8	7,9	22	15,1	19	0,760	2.980	10
250064 ✷	grey	**PG11**	5 - 10	18,3	13,2	10,5	7,9	23,7	18,3	22	1,020	2.040	10
250066 ✷	grey	**PG13,5**	6 - 12	20,4	15,5	12	8,9	24,6	18,9	24	1,270	1.530	10
250068 ✷	grey	**PG16**	10 - 14	22,5	17,2	14	9,8	26,2	19,5	27	1,600	1.190	10
250070	grey	**PG21**	13 - 18	28,3	22,4	18,4	10,8	30	23,7	33	2,400	680	10
250072	grey	**PG29**	18 - 25	37	30,6	25	10,8	35	27,4	42	4,110	380	10
250074	grey	**PG36**	22 - 32	47	35,3	35,5	14,5	42,3	30,3	53	8,600	200	5
250076	grey	**PG42**	30 - 38	54	40	40	14,5	44	31,2	60	11,100	140	5
250078	grey	**PG48**	34 - 44	59,3	43,2	46	15,6	42,7	31,3	65	12,700	130	5

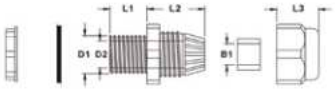
Art. no.	Color		KB	D1	D2	B1	L1	L2	L3	WS	kg/100		PU
250100	black	**PG7**	3,5 - 6	12,5	8,3	6,9	7,9	20	13,3	15	0,560	4.250	10
250102	black	**PG9**	4 - 8	15,2	10,5	8	7,9	22	15,1	19	0,750	2.980	10
250104	black	**PG11**	5 - 10	18,3	13,2	10,5	7,9	23,7	18,3	22	1,030	2.040	10
250106	black	**PG13,5**	6 - 12	20,4	15,5	12	8,9	24,6	18,9	24	1,400	1.530	10
250108	black	**PG16**	10 - 14	22,5	17,2	14	9,8	26,2	19,5	27	1,560	1.190	10
250110	black	**PG21**	13 - 18	28,3	22,4	18,4	10,8	30	23,7	33	2,480	680	10
250112	black	**PG29**	18 - 25	37	30,6	25	10,8	35	27,4	42	4,160	380	10
250114	black	**PG36**	22 - 32	47	35,3	35,5	14,5	42,3	30,3	53	8,240	200	5
250116	black	**PG42**	30 - 38	54	40	40	14,5	44	31,2	60	10,800	140	5
250118	black	**PG48**	34 - 44	59,3	43,2	46	15,6	42,7	31,3	65	11,600	130	5

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

SlimTop - cable glands IP 68, metric or PG, assembled with washer and lock nut, industry

material: polyamide 6.6, (gland body: PA 6.6, halogen free, seal: TPR, halogen free, washer: PVC), colour: light-grey or black, temperature range: – 40°C to + 85°C, vibration protection: integrated anti-twist protection for vibration-firm assembly, fire class: according to UL 94 V-2, protection category: IP68, properties: integrated strain relief; easy to install, RoHS-compliant, completely assembled as shown

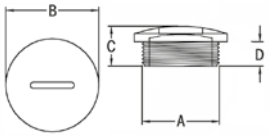


Art. no.	Color		KB	D1	D2	B1	L1	L2	L3	WS	kg/100		PU
250140	grey	**M12**	3 - 6,5	12	7,3	7,1	8	19,6	12,7	15	0,330	4,250	10
250142	grey	**M16**	5 - 10	16	10,7	10,4	8	23,3	16,1	20	0,630	1.700	10
250044 ✸	grey	**M20**	8 - 12	20	14,1	12,5	10	25	18,1	24	1,650	1.200	10
250144	grey	**M25**	11 - 17	25	18	17,3	8	30	20	24	1,630	680	10
250146	grey	**M32**	15 - 21	32	25,7	21,6	10	35,4	24,1	36	2,620	340	10
250148	grey	**M40**	20 - 28	40	32,7	28,6	10	39,4	27,5	46	4,240	230	5
250150	grey	**M50**	27 - 35	50	42,4	35,8	12	43,4	31,8	55	7,400	160	5
250152	grey	**M63**	32 - 42	63	55	48,8	12	46,4	33,7	68	10,320	120	5

Art. no.	Color		KB	D1	D2	B1	L1	L2	L3	WS	kg/100		PU
250120	black	**M12**	3 - 6,5	12	7,3	7,1	8	19,6	12,7	15	0,330	4,250	10
250122	black	**M16**	5 - 10	16	10,7	10,4	8	23,3	16,1	20	0,630	1.700	10
250084	black	**M20**	8 - 12	20	14,1	12,5	10	25	18,1	24	1,300	1.200	10
250124	black	**M25**	11 - 17	25	18	17,3	8	30	20	29	1,630	680	10
250126	black	**M32**	15 - 21	32	25,7	21,6	10	35,4	24,1	36	2,620	340	10
250128	black	**M40**	20 - 28	40	32,7	28,6	10	39,4	27,5	46	4,240	230	5
250130	black	**M50**	27 - 35	50	42,4	35,8	12	43,4	31,8	55	7,300	160	5
250132	black	**M63**	32 - 42	63	55	48,8	12	46,4	33,7	68	10,320	120	5

Dummy plugs

Dummy plugs light- grey and black



Art. no.	colour		A	B	C	D	kg/100	PU
250196	light-grey	**M12**	11,7	15,0	10,0	6,0	0,070	100
250198	light-grey	**M16**	15,7	20,0	10,5	6,0	0,110	100
250200	light-grey	**M20**	19,9	24,0	12,8	6,0	0,190	100
250202	light-grey	**M25**	24,7	29,7	12,8	7,8	0,220	100
250204	light-grey	**M32**	31,7	36,6	13,3	7,8	0,470	50
250206	light-grey	**M40**	39,9	45,8	13,4	7,8	0,770	50
250208	light-grey	**M50**	49,4	55,5	16,2	9,8	1,260	10
250210	light-grey	**M63**	62,4	69,3	17,5	11,8	1,930	10
250212	light-grey	**PG7**	12,2	14,8	10,0	6,0	0,060	100
250214	light-grey	**PG9**	15,1	18,7	10,4	6,0	0,070	100
250216	light-grey	**PG11**	18,5	21,7	10,4	6,0	0,110	100
250218	light-grey	**PG13,5**	20,3	23,7	10,3	6,0	0,190	100
250220	light-grey	**PG16**	22,3	27,0	10,3	6,0	0,220	100
250222	light-grey	**PG21**	28,2	32,8	12,8	7,8	0,470	100
250224	light-grey	**PG29**	37,0	44,1	13,2	7,8	0,770	50
250226	light-grey	**PG36**	47,0	52,6	13,7	7,8	1,260	50
250228	light-grey	**PG42**	54,0	59,5	16,2	9,6	1,930	10
250230	light-grey	**PG48**	59,6	64,2	17,5	11,8	2,000	10
250160	black	**M12**	11,7	15,0	10,0	6,0	0,070	100
250162	black	**M16**	15,7	20,0	10,5	6,0	0,110	100
250164	black	**M20**	19,9	24,0	10,5	6,0	0,190	100
250166	black	**M25**	24,7	29,7	12,8	7,8	0,220	100
250168	black	**M32**	31,7	36,6	13,3	7,8	0,470	50
250170	black	**M40**	39,9	45,8	13,4	7,8	0,770	50
250172	black	**M50**	49,4	55,5	16,2	9,8	1,260	10
250174	black	**M63**	62,4	69,3	17,5	11,8	1,930	10
250176	black	**PG7**	12,2	14,8	10,0	6,0	0,060	100
250178	black	**PG9**	15,1	18,7	10,4	6,0	0,070	100
250180	black	**PG11**	18,5	21,7	10,4	6,0	0,110	100
250182	black	**PG13,5**	20,3	23,7	10,3	6,0	0,190	100
250184	black	**PG16**	22,3	27,0	10,3	6,0	0,220	100
250186	black	**PG21**	28,2	32,8	12,8	7,8	0,470	100
250188	black	**PG29**	37,0	44,1	13,2	7,8	0,770	50
250190	black	**PG36**	47,0	52,6	13,7	7,8	1,260	50
250192	black	**PG42**	54,0	59,5	16,2	9,6	1,930	10
250194	black	**PG48**	59,6	64,2	17,5	11,8	2,000	10

haupa®

... convincing solutions

Cable glands brass nickel-plated, IP68

INFO

Cable glands polyamide IP68

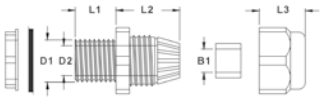
Properties:
integrated strain relief, fully mounted, RoHS-compliant.
HAUPA cable glands do protect electric equipment (switchboards, distribution boxes) against mechanical influences, dust, and humidity by connecting a cable tight and sealed to the housing.
HAUPA offers next to metric as well PG cable glands.

For an EMC-compatible installation, brass cable glands inclusive EMC insets should be used.

HAUPA cable glands are IP68 (dust and humidity) to protect human against the potential risk during usage.

Cable glands brass nickel-plated, IP68, fully mounted

Material: brass nickel-plated, (halogen free)
lock nut/washer: TPR
temperature range: – 40°C to + 120°C
protection category: IP68
Material: brass nickel-plated, (halogen free)
lock nut/washer: TPR
temperature range: – 40°C to + 120°C
protection category: IP68



Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250600	**M12**	3 - 8,5	8,4	12	6,8	6,2	17	10,9	14	1,300	10
250602 ✷	**M16**	4 - 8	12	16	8,6	7,7	18	12,9	18	2,400	10
250604 ✷	**M20**	6 - 12	16	20	11,9	8,1	20	13,9	22	3,000	10
250606 ✷	**M25**	10 - 14	20,5	25	14,5	8,5	20,2	14	24 - 27	4,300	10
250608 ✷	**M32**	15 - 22	27	32	21,5	10	24,5	18	35	8,500	10
250610	**M40**	18 - 25	35,5	40	25,5	11	27	19	40 - 45	14,000	5
250611	**M40**	22 - 30	35	40	30,5	11	28	20,5	45	14,000	5
250612	**M50**	32 - 38	44	50	39	13	32	23	55 - 57	26,000	5
250614	**M63**	37 - 44	55,5	63	44,5	14	34	22	64 - 68	38,000	5

Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250630	**PG7**	3 - 6,5	8,5	12	6,9	6,5	16,5	10,8	14	1,300	10
250632 ✷	**PG9**	4 - 8	11,8	14,8	8,5	8,1	18,9	12,7	17	1,900	10
250634 ✷	**PG11**	5 - 10	14,2	18,2	10,5	8	18,5	13,5	20 - 21	2,800	10
250636 ✷	**PG13,5**	6 - 12	16,2	20,1	12,1	7,7	20,5	13,9	23 - 22	3,300	10
250638 ✷	**PG16**	10 - 14	18,3	22,2	14,5	8,3	19,7	14,2	25 - 24	3,800	10
250640 ✷	**PG21**	13 - 18	23,8	28,2	18,2	8,8	23,3	16,5	30	6,000	10
250642 ✷	**PG29**	18 - 25	32,4	36,6	25,2	10	26,3	19,4	40	11,100	10
250644	**PG36**	25 - 33	41,5	46	33,2	11	32	22	50	19,000	5
250646	**PG42**	32 - 38	47,7	53,8	38,7	12	32	22	57	25,500	5
250648	**PG48**	37 - 44	52,6	59	44,5	12,6	33,9	22,8	64	34,500	5

PG threads

Threads Ident.	external mm	Core-hole mm
Pg 7	12,5	11,3
Pg 9	15,2	13,9
Pg 11	18,6	17,3
Pg 13,5	20,4	19,1
Pg 16	22,5	21,2
Pg 21	28,3	26,8
Pg 29	37,0	35,5
Pg 36	47,0	45,5
Pg 42	54,0	52,5
Pg 48	59,3	57,8

Metric thread

Threads Ident.	external mm	Core-hole mm
M 12	12,0	12,5
M 16	16,0	16,5
M 20	20,0	20,5
M 25	25,0	25,5
M 32	32,0	32,5
M 40	40,0	40,5
M 50	50,0	50,5
M 63	63,0	63,5

Converting PG to metric

PG size	Diameter mm	Cable diameter mm	Conversion to metric mm
Pg 7	12,5	6,0	M 12 x 1,5
Pg 7	12,5	6,0	M 16 x 1,5
Pg 9	15,5	8,0	M 16 x 1,5
Pg 11	18,6	10,0	M 20 x 1,5
Pg 13,5	20,4	12,0	M 20 x 1,5
Pg 13,5	20,4	12,0	M 25 x 1,5
Pg 16	22,5	14,0	M 20 x 1,5
Pg 16	22,5	14,0	M 25 x 1,5
Pg 21	28,3	18,0	M 25 x 1,5
Pg 21	28,3	18,0	M 32 x 1,5
Pg 29	28,3	18,0	M 32 x 1,5
Pg 29	28,3	18,0	M 40 x 1,5
Pg 36	47,0	32,0	M 50 x 1,5
Pg 42	54,0	38,0	M 50 x 1,5
Pg 42	54,0	38,0	M 63 x 1,5
Pg 48	59,3	43,0	M 63 x 1,5

Wrench size for cable glands

Connecting threads PG	Wrench size	Connecting threads metric	Wrench size
PG7	SW 15	M12 x 1,5	SW 15
PG9	SW 19	M16 x 1,5	SW 19
PG11	SW 22	M20 x 1,5	SW 24
PG13,5	SW 24	M25 x 1,5	SW 30
PG16	SW 27	M32 x 1,5	SW 36
PG21	SW 33	M40 x 1,5	SW 46
PG29	SW 42	M50 x 1,5	SW 55
PG36	SW 53	M63 x 1,5	SW 66
PG42	SW 60		
PG48	SW 65		

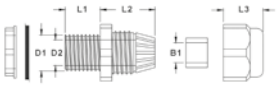
PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

Cable glands brass nickel-plated, IP68

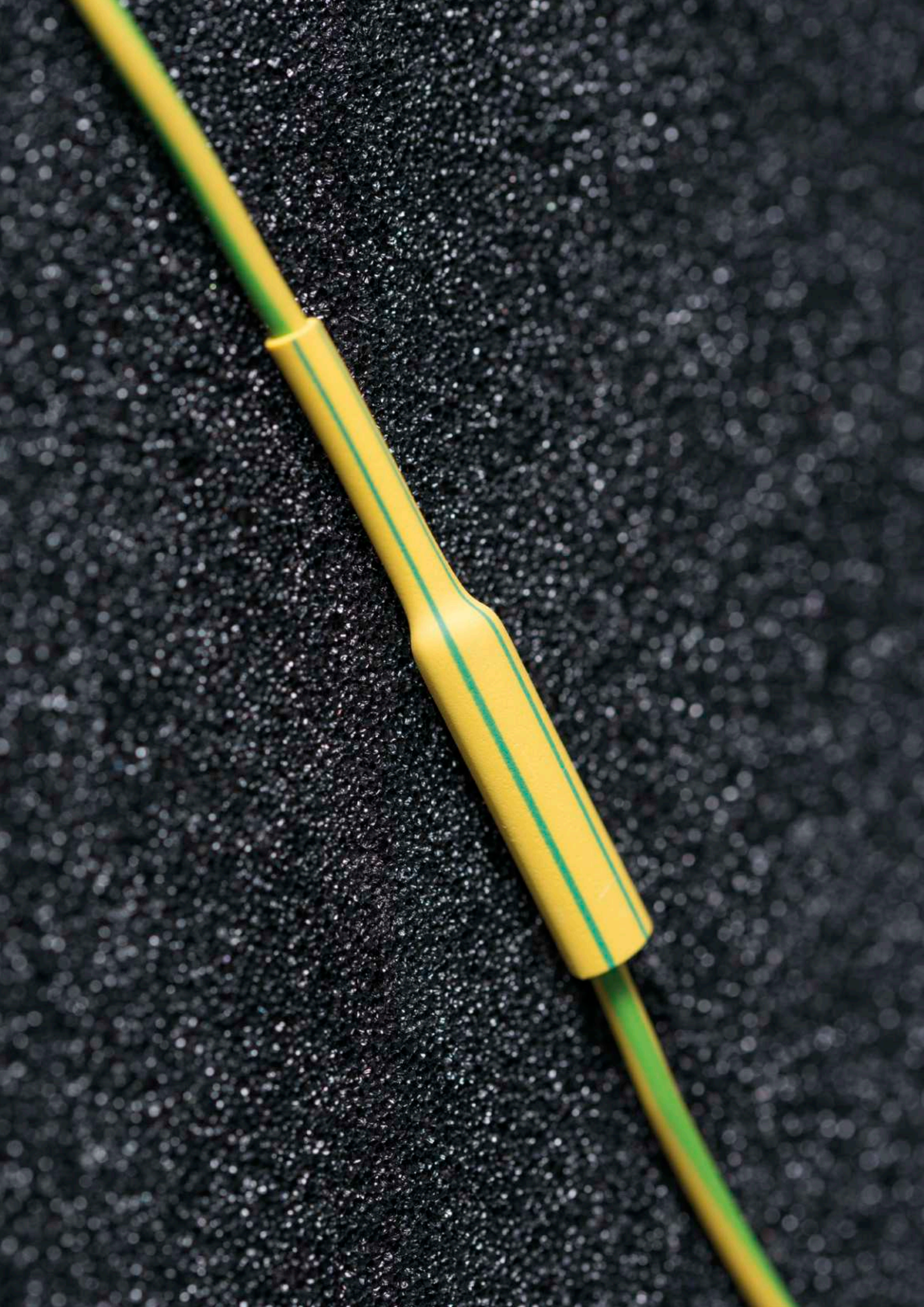
EMC-Cable glands brass nickel-plated, IP68, fully mounted

To ensure correct EMP installation, the brass cable screws with EMP inserts should be used.
Material: brass nickel-plated, (halogen free)
lock nut/washer: TPR
temperature range: – 40°C to + 120°C
protection category: IP68



Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250650	**M12**	3 - 8,5	8,4	12	6,8	6,2	17	10,9	14	1,300	10
250652	**M16**	4 - 8	12	16	8,6	7,7	18	12,9	18	2,400	10
250654	**M20**	6 - 12	16	20	11,9	8,1	20	13,9	22	3,000	10
250656	**M25**	10 - 14	20,5	25	14,5	8,5	20,2	14	24 - 27	4,300	10
250658	**M32**	15 - 22	27	32	21,5	10	24,5	18	35	8,500	10
250660	**M40**	18 - 25	35,5	40	25,5	11	27	19	40 - 45	14,000	5
250661	**M40**	22 - 30	35	40	30,5	11	28	20,5	45	14,000	5
250662	**M50**	32 - 38	44	50	39	13	32	23	55 - 57	26,000	5
250664	**M63**	37 - 44	55,5	63	44,5	14	34	22	64 - 68	38,000	5

Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250668	**PG9**	4 - 8	11,8	14,8	8,5	8,1	18,9	12,7	17	1,900	10
250670	**PG11**	5 - 10	14,2	18,2	10,5	8	18,5	13,5	20 - 21	2,800	10
250672	**PG13,5**	6 - 12	16,2	20,1	12,1	7,7	20,5	13,9	23 - 22	3,300	10
250674	**PG16**	10 - 14	18,3	22,2	14,5	8,3	19,7	14,2	25 - 24	3,800	10
250676	**PG21**	13 - 18	23,8	28,2	18,2	8,8	23,3	16,5	30	6,000	10
250678	**PG29**	18 - 25	32,4	36,6	25,2	10	26,3	19,4	40	11,100	10
250680	**PG36**	25 - 33	41,5	46	33,2	11	32	22	50	19,000	5
250682	**PG42**	32 - 38	47,7	53,8	38,7	12	32	22	57	25,500	5
250684	**PG48**	37 - 44	52,6	59	44,5	12,6	33,9	22,8	64	34,500	5



Heat shrinkable tubes
HUPshrink

haupa®
... convincing solutions

INFO

HUPshrink - HAUPA Heat shrinkable tubes

Shrinking tubes are plastic tubes that rapidly contract upon exposure to heat - mostly through the injection of hot air. The object is inserted into the tube prior to heating and is therefore electrically insulated against its environment and protected from mechanical damage.

Application:
Heat shrinkable tubes serve as insulation and mechanical protection. Areas of application are, for instance, the repairing of components in electrical engineering or the cutting of cables. The three main electronic and electrotechnical applications of the tubes are for sealing, insulation and protection.

Adhesive:
The HAUPA heat shrinkable tubes HUPshrink are available with or without an adhesive lining on the inside. The tubes with an adhesive lining allow for precise work, offer robust connections and very good protection against corrosion.

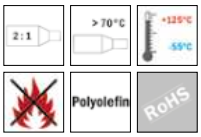
Shrink ratio:
The basic material (plastic) used and the thickness of the wall determine how much a shrinking tube can expand. The shrink ratio gives the size of the original heat shrink tube in relation to its shrunken, final form. (Original size to (:) Final size). The higher the shrink ratio, the greater the variation in diameter that can be covered.

Important electrical performance features:
- Dielectric strength 19 kV/mm
- Specific electrical resistance 1 x 1014 Ω/cm

Notes for using:
- Cut the heat shrinkable tubes to desired length, this should be done on a smooth surface
- Conduct the shrinking on a clean, preferably dust and grease-free surface
- Start the shrink process unilaterally from one end of the tube
- Shrink temperature:
  +70 °C - +115 °C (without adhesive lining) respectively
  +80 °C - +115 °C (with adhesive lining)
- Optimum results when used with the matching Industrial hot air blower

Set HUPshrink21TW thin-walled 2:1

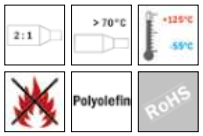
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C to 125° C, 160 pieces, in plastic box, thin-walled



Art. no.		quantity	kg/100	PU
267200 ✷	2:1	160	18,500	1

Set HUPshrink21TW thin-walled 2:1 coloured

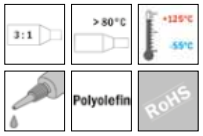
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C to 125° C, 160 pieces, in plastic box, thin-walled



Art. no.		quantity	kg/100	PU
267202 ✷	2:1	160	18,500	1

Set HUPshrink31DW-A double-walled 3:1 with adhesive lining

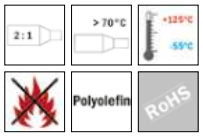
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 80° C, continuous operating temperature - 55° C to 125° C, 25 pieces, in plastic box, double-walled, with adhesive lining



Art. no.		quantity	kg/100	PU
267204 ✷	3:1	25	18,300	1

Set HUPshrink21TW thin-walled 2:1 coloured

Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C to 125° C, 160 pieces, in plastic box, thin-walled



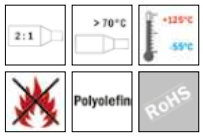
Art. no.		quantity	kg/100	PU
267206 ✷	2:1	160	18,500	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

HUPshrink21TW thin-walled 2:1

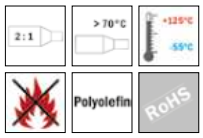
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C to 125° C, 50 pieces, 0.1 m long packaged in a polybag, thin-walled



Art. no.		⟷	Ø before	Ø after	kg/100	PU
267000	2:1	0,1 m	2,5	1	2,000	1
267002	2:1	0,1 m	3,5	1,5	3,500	1
267004	2:1	0,1 m	5	2,25	5,000	1
267006	2:1	0,1 m	6,5	3	6,670	1
267008	2:1	0,1 m	9,6	4,5	4,000	1
267010	2:1	0,1 m	12,7	6	2,170	1
267012	2:1	0,1 m	19	9	3,030	1
267014	2:1	0,1 m	26	12,5	5,000	1

HUPshrink21TW thin-walled 2:1 Box

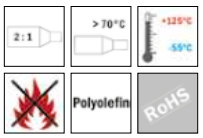
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C - 125° C, 5/10m roll in dispenser, thin-walled



Art. no.		⟷	Ø before	Ø after	kg/100	PU
267016	2:1	10 m	2,5	1	15,000	1
267018	2:1	10 m	3,5	1,5	16,000	1
267020	2:1	10 m	5	2,25	18,250	1
267022	2:1	5 m	6,5	3	11,050	1
267024	2:1	5 m	9,6	4,5	13,250	1
267026	2:1	5 m	12,7	6	21,000	1
267028	2:1	5 m	19	9	22,130	1
267030	2:1	5 m	26	12,5	35,000	1
267032	2:1	10 m	2,5	1	15,000	1
267034	2:1	10 m	3,5	1,5	16,000	1
267036	2:1	10 m	5	2,25	18,250	1
267038	2:1	5 m	6,5	3	11,050	1
267040	2:1	5 m	9,6	4,5	13,250	1
267042	2:1	5 m	12,7	6	21,000	1
267044	2:1	5 m	19	9	22,130	1
267046	2:1	5 m	26	12,5	35,000	1
267132	2:1	10 m	2,5	1	15,000	1
267134	2:1	10 m	3,5	1,5	16,000	1
267136	2:1	10 m	5	2,25	18,250	1
267138	2:1	5 m	6,5	3	11,050	1
267140	2:1	5 m	9,6	4,5	13,250	1
267142	2:1	5 m	12,7	6	21,000	1
267144	2:1	5 m	19	9	22,130	1
267146	2:1	5 m	26	12,5	35,000	1

HUPshrink21 thin-walled 2:1 blister package

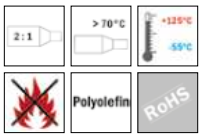
of polyolefin, radiation interlaced, self extinguished according to MV SS 302, thin and flexible, dielectric strength 15 - 25 KV/mm acc. to DIN 53481, operating temperature: - 55° C to 125° C, shrinking temperature: > 70°C, 1 m length in self-service-pack



Art. no.	Ø before	Ø after	kg/100	PU
262085	4,8	2,4	0,700	1
262086	6,4	3,2	1,000	1
262087	9,5	4,8	1,200	1
262088	12,7	6,4	1,700	1
262089	19	9,5	3,500	1
262090	25,4	12,7	4,500	1

HUPshrink21TW thin-walled 2:1

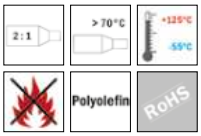
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C to 125° C, 25m roll packaged in a polybag, thin-walled



Art. no.		⟷	Ø before	Ø after	kg/100	PU
267250/200	2:1	200 m	1,2	0,6	18,500	1
267252/200	2:1	200 m	1,6	0,8	18,500	1
267254/200	2:1	200 m	2,5	1	18,500	1
267048	2:1	25 m	2,5	1	25,000	1
267256/200	2:1	200 m	3,5	1,5	18,500	1
267050	2:1	25 m	3,5	1,5	33,880	1
267258/100	2:1	100 m	5	2,25	18,500	1
267052	2:1	25 m	5	2,25	40,130	1
267260/50	2:1	50 m	6,5	3	18,500	1
267054	2:1	25 m	6,5	3	42,000	1
267262/50	2:1	50 m	9,6	4,5	18,500	1
267282/50	2:1	50 m	9,6	4,5	18,500	1
267056	2:1	25 m	9,6	4,5	44,500	1
267058	2:1	25 m	12,7	6	74,500	1
267264/100	2:1	100 m	12,7	6	18,500	1
267284/100	2:1	100 m	12,7	6	18,500	1
267060	2:1	25 m	19	9	87,600	1
267266/50	2:1	50 m	19	9	18,500	1
267062	2:1	25 m	26	12,5	132,000	1
267268/50	2:1	50 m	26	12,5	18,500	1
267410/25	2:1	25 m	38,1	19	137,500	1
267411/25	2:1	25 m	50,8	25,4	182,500	1
267412/25	2:1	25 m	76	38	275,000	1
267413/25	2:1	25 m	102	51	362,500	1
267480/100	3:1	100 m	12,7	4	150,000	1

HUPshrink21TW thin-walled 2:1

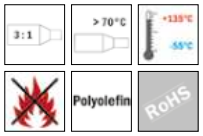
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C to 125° C, packaged in a polybag, thin-walled



Art. no.		⟷	Ø before	Ø after	kg/100	PU
267250	2:1	1,2 m	1,2	0,6	0,560	1
267252	2:1	1,2 m	1,6	0,8	0,600	1
267254	2:1	1,2 m	2,5	1	0,750	1
267256	2:1	1,2 m	3,5	1,5	0,890	1
267258	2:1	1,2 m	5	2,25	1,050	1
267260	2:1	1,2 m	6,5	3	1,400	1
267262	2:1	1,2 m	9,6	4,5	1,940	1
267264	2:1	1,2 m	12,7	6	2,350	1
267266	2:1	1,2 m	19	9	4,330	1
267268	2:1	1,2 m	26	12,5	6,080	1
267272	2:1	1,2 m	1,6	0,8	0,600	1
267274	2:1	1,2 m	2,5	1	0,750	1
267276	2:1	1,2 m	3,5	1,5	0,890	1
267278	2:1	1,2 m	5	2,25	1,050	1
267280	2:1	1,2 m	6,5	3	1,400	1
267282	2:1	1,2 m	9,6	4,5	1,940	1
267284	2:1	1,2 m	12,7	6	2,350	1
267286	2:1	1,2 m	19	9	4,330	1
267288	2:1	1,2 m	26	12,5	6,080	1
267292	2:1	1,2 m	1,6	0,8	0,600	1
267294	2:1	1,2 m	2,5	1	0,750	1
267296	2:1	1,2 m	3,5	1,5	0,890	1
267298	2:1	1,2 m	5	2,25	1,050	1
267300	2:1	1,2 m	6,5	3	1,400	1
267302	2:1	1,2 m	9,6	4,5	1,940	1
267304	2:1	1,2 m	12,7	6	2,350	1
267306	2:1	1,2 m	19	9	4,330	1
267308	2:1	1,2 m	26	12,5	6,080	1
267312	2:1	1,2 m	1,6	0,8	0,600	1
267314	2:1	1,2 m	2,5	1	0,750	1
267316	2:1	1,2 m	3,5	1,5	0,890	1
267318	2:1	1,2 m	5	2,25	1,050	1
267320	2:1	1,2 m	6,5	3	1,400	1
267322	2:1	1,2 m	9,6	4,5	1,940	1
267324	2:1	1,2 m	12,7	6	2,350	1
267326	2:1	1,2 m	19	9	4,330	1
267328	2:1	1,2 m	26	12,5	6,080	1
267332	2:1	1,2 m	1,6	0,8	0,600	1
267334	2:1	1,2 m	2,5	1	0,750	1
267336	2:1	1,2 m	3,5	1,5	0,890	1
267338	2:1	1,2 m	5	2,25	1,050	1
267340	2:1	1,2 m	6,5	3	1,400	1
267342	2:1	1,2 m	9,6	4,5	1,940	1
267344	2:1	1,2 m	12,7	6	2,350	1
267346	2:1	1,2 m	19	9	4,330	1
267348	2:1	1,2 m	26	12,5	6,080	1
267352	2:1	1,2 m	1,6	0,8	0,600	1
267354	2:1	1,2 m	2,5	1	0,750	1
267356	2:1	1,2 m	3,5	1,5	0,890	1
267358	2:1	1,2 m	5	2,25	1,050	1
267360	2:1	1,2 m	6,5	3	1,400	1
267362	2:1	1,2 m	9,6	4,5	1,940	1
267364	2:1	1,2 m	12,7	6	2,350	1
267366	2:1	1,2 m	19	9	4,330	1
267368	2:1	1,2 m	26	12,5	6,080	1
267372	2:1	1,2 m	1,6	0,8	0,600	1
267374	2:1	1,2 m	2,5	1	0,750	1
267376	2:1	1,2 m	3,5	1,5	0,890	1
267378	2:1	1,2 m	5	2,25	1,050	1
267380	2:1	1,2 m	6,5	3	1,400	1
267382	2:1	1,2 m	9,6	4,5	1,940	1
267384	2:1	1,2 m	12,7	6	2,350	1
267386	2:1	1,2 m	19	9	4,330	1
267388	2:1	1,2 m	26	12,5	6,080	1
267392	2:1	1,2 m	1,6	0,8	0,660	1
267394	2:1	1,2 m	2,5	1	0,800	1
267396	2:1	1,2 m	3,5	1,5	0,820	1
267398	2:1	1,2 m	5	2,25	1,080	1
267400	2:1	1,2 m	6,5	3	1,380	1
267402	2:1	1,2 m	9,6	4,5	2,040	1
267404	2:1	1,2 m	12,7	6	2,360	1
267406	2:1	1,2 m	19	9	4,140	1
267408	2:1	1,2 m	26	12,5	5,820	1

HUPshrink31DW double-walled 3:1

Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C to 135° C, 1.2m packaged in a polybag, double-walled



Art. no.		⟷	Ø before	Ø after	kg/100	PU
267430	3:1	1,2 m	3	1	0,860	1
267432	3:1	1,2 m	6	2	1,300	1
267434	3:1	1,2 m	9	3	2,000	1
267436	3:1	1,2 m	12	4	2,540	1
267438	3:1	1,2 m	18	6	3,860	1
267440	3:1	1,2 m	25	8	6,000	1
267442	3:1	1,2 m	3	1	0,820	1
267444	3:1	1,2 m	6	2	1,300	1
267446	3:1	1,2 m	9	3	1,920	1
267448	3:1	1,2 m	12	4	2,380	1
267450	3:1	1,2 m	18	6	4,100	1
267452	3:1	1,2 m	25	8	6,380	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

HUPshrink31MW-A | HUPshrink41MW-A medium-walled 3:1, 4:1 with adhesive lining

Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 80° C, continuous operating temperature - 45° C to 110° C, 1.2m packaged in a polybag, medium-walled, with adhesive lining

Art. no.			Ø before	Ø after	kg/100	PU
267102	4:1	1,2 m	8	2	5,000	1
267104	4:1	1,2 m	12	3	6,100	1
267106	4:1	1,2 m	22	6	11,800	1
267108	4:1	1,2 m	33	8	18,000	1
267110	3:1	1,2 m	40	12	21,000	1
267112	3:1	1,2 m	55	16	30,000	1
267114	3:1	1,2 m	65	19	38,000	1
267116	3:1	1,2 m	75	22	39,500	1
267118	4:1	1,2 m	95	25	51,000	1
267120	3:1	1,2 m	115	34	83,000	1

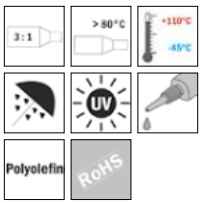
HUPshrink31DW-A | HUPshrink41DW-A double-walled 3:1, 4:1 with adhesive lining

Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 80° C, continuous operating temperature - 45° C to 110° C, 1.2m packaged in a polybag, double-walled, with adhesive lining

Art. no.			Ø before	Ø after	kg/100	PU
267064	3:1	1,2 m	3,2	1	2,500	1
267066	3:1	1,2 m	4,8	1,6	3,500	1
267068	3:1	1,2 m	6,4	2	4,000	1
267070	3:1	1,2 m	9,5	3	5,000	1
267074	3:1	1,2 m	12,7	4	6,000	1
267078	3:1	1,2 m	19,1	6	8,000	1
267080	3:1	1,2 m	24,5	8	0,700	1
267084	3:1	1,2 m	38,1	13	17,000	1
267088	4:1	1,2 m	52	13	29,000	1

HUPshrink31DW-A double-walled 3:1 with adhesive lining Box

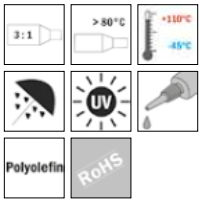
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 80° C, continuous operating temperature - 45° C - 110° C, 5/10m roll in dispenser, double-walled, with adhesive lining



Art. no.			Ø before	Ø after	kg/100	PU
267090	3:1	10 m	3	1	20,500	1
267092	3:1	5 m	6	2	21,500	1
267094	3:1	5 m	9	3	22,000	1

HUPshrink31DW-A double-walled 3:1 with adhesive lining

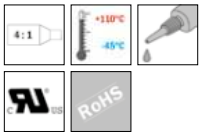
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 80° C, continuous operating temperature - 45° C - 110° C, 5m roll, double-walled, with adhesive lining



Art. no.			Ø before	Ø after	kg/100	PU
267096	3:1	5 m	12	4	32,000	1
267098	3:1	5 m	19	6	40,300	1
267100	3:1	5 m	24	8	57,000	1

HUPshrink41DW-A double-walled 4:1 with adhesive lining

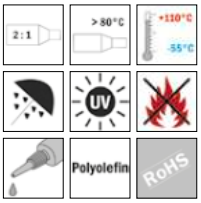
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 80° C, continuous operating temperature - 45° C to 110° C, 1.2m packaged in a polybag, double-walled, with adhesive lining



Art. no.			Ø before	Ø after	kg/100	PU
267460	4:1	1,2 m	4	1	1,300	1
267462	4:1	1,2 m	8	2	1,700	1
267464	4:1	1,2 m	12	3	3,000	1
267466	4:1	1,2 m	16	4	5,100	1
267468	4:1	1,2 m	24	6	10,300	1
267470	4:1	1,2 m	32	8	12,000	1
267472	4:1	1,2 m	52	13	18,300	1

Heat-shrinkable end caps

- Designed with a layer of spiral coated hot melt adhesive in the internal surface of the end cap.
- Provides highly resistant to moisture, fungus, and corrosion.
- Recommended for use both in open air and on underground power distribution cables with PVC, lead or XLPE sheaths.
- Shrinkable Ratio: 2:1.
- Electrical insulation to 1000V.
- Easy installation over the cable end.
- Abrasion resistance and mechanical protection.



Art. no.	Cable-Ø	KaL	WaSt	kg/100	PU
267500	4 - 10	15	2,6	0,260	100
267502	6 - 16	25	2,8	0,520	50
267506	18 - 32	40	3,3	1,840	25
267508	28 - 48	50	3,5	4,400	10
267510	45 - 68	55	4	6,400	10
267512	55 - 90	70	4	11,000	25
267514	65 - 110	70	4	14,300	20

Torch brazing set SolderingKit

12-pieces, for pocket lighter butane gas, with Piezo ignition, heating time: +/- 25 seconds (peak), performance can be infinitely regulated, temperatures with naked flame up to 1200 °C, brazing up to 550 °C, heat shrinking up to 680 °C, burn time approximately 60 minutes, in black plastic case.

Art. no.	Content	kg	PU
262098	12	0,670	1

Electrical insulating tape

haupa®

... convincing solutions

Electro insulating tape

INFO

Electro insulating tape

Typical uses in electrical installations

Insulation, Sealing, Padding, Protection from corrosion, heat, electromagnetic faults, cable marking, etc

Benefits:

- VDE tested
- DIN EN 60454-3-1
- Easy to unroll
- Very good adhesive properties
- High flexibility
- Wrinkle free adhesion to uneven surfaces
- Tear-proof and resistant to aging
- Flame retardant
- Self-extinguishing
- Temperature resistant from -30°C to 105°C
- Water, weather and UV resistant
- With many uses
- For insulating, bundling, marking
- Available in 10 colours

Electrical insulating tape HUPtape-15

Material: PVC, in tested VDE quality, in accordance with DIN EN 60454-3-1, flame retardant, self-extinguishing. Temperature resistant from -30°C to 105°C, water, weather and UV resistant. Highly flexible with very good adhesive properties, versatile in its uses, tear-resistant and durable, for insulating, bundling and marking. Available in ten colours.

DIN EN 60454-3-1

Art. no.	widht/mm		strength	kg		PU
263800 ✸	15	10 m	0,15	0,035	120	10
263802 ✸	15	10 m	0,15	0,035	120	10
263804	15	10 m	0,15	0,035	120	10
263806	15	10 m	0,15	0,035	120	10
263808 ✸	15	10 m	0,15	0,035	120	10
263810 ✸	15	10 m	0,15	0,035	120	10
263812	15	10 m	0,15	0,035	120	10
263814	15	10 m	0,15	0,035	120	10
263816	15	10 m	0,15	0,035	120	10
263818 ✸	15	10 m	0,15	0,035	120	10

Art. no.	widht/mm		strength	kg		PU
263822	15	20 m	0,15	0,060	60	10
263824	15	20 m	0,15	0,060	60	10
263826	15	20 m	0,15	0,060	60	10
263828	15	20 m	0,15	0,060	60	10
263830	15	20 m	0,15	0,060	60	10
263832	15	20 m	0,15	0,060	60	10
263834	15	20 m	0,15	0,060	60	10
263836	15	20 m	0,15	0,060	60	10
263838	15	20 m	0,15	0,060	60	10
263840	15	20 m	0,15	0,060	60	10

Art. no.	widht/mm		strength	kg		PU
263842 ✸	19	20 m	0,15	0,076	48	8
263844 ✸	19	20 m	0,15	0,076	48	8
263846	19	20 m	0,15	0,076	48	8
263848	19	20 m	0,15	0,076	48	8
263850 ✸	19	20 m	0,15	0,076	48	8
263852 ✸	19	20 m	0,15	0,076	48	8
263854	19	20 m	0,15	0,076	48	8
263856	19	20 m	0,15	0,076	48	8
263858	19	20 m	0,15	0,076	48	8
263860 ✸	19	20 m	0,15	0,076	48	8

Art. no.	widht/mm		strength	kg		PU
263902	19	25 m	0,15	0,084	48	10
263904	19	25 m	0,15	0,084	48	10
263906	19	25 m	0,15	0,084	48	10
263908	19	25 m	0,15	0,084	48	10
263910	19	25 m	0,15	0,084	48	10
263912	19	25 m	0,15	0,084	48	10
263914	19	25 m	0,15	0,084	48	10
263916	19	25 m	0,15	0,084	48	10
263918	19	25 m	0,15	0,084	48	10
263920	19	25 m	0,15	0,084	48	10

Art. no.	widht/mm		strength	kg		PU
263862	25	20 m	0,15	0,100	36	6
263864	25	20 m	0,15	0,100	36	6
263866	25	20 m	0,15	0,100	36	6
263868	25	20 m	0,15	0,100	36	6
263870	25	20 m	0,15	0,100	36	6
263872	25	20 m	0,15	0,100	36	6
263874	25	20 m	0,15	0,100	36	6
263876	25	20 m	0,15	0,100	36	6
263878	25	20 m	0,15	0,100	36	6
263880	25	20 m	0,15	0,100	36	6

Art. no.	widht/mm		strength	kg		PU
263882	19	33 m	0,15	0,120	48	8
263884	19	33 m	0,15	0,120	48	8
263886	19	33 m	0,15	0,120	48	8
263888	19	33 m	0,15	0,120	48	8
263890	19	33 m	0,15	0,120	48	8
263892	19	33 m	0,15	0,120	48	8
263894	19	33 m	0,15	0,120	48	8
263896	19	33 m	0,15	0,120	48	8
263898	19	33 m	0,15	0,120	48	8
263900	19	33 m	0,15	0,120	48	8

Rainbow-Pack

- VDE tested
- DIN EN 60454-3-1
- Water, weather and UV resistant

Art. no.	width		Ø	kg/100	PU
263820	15	10 m	0,15	34,000	1
263861	19	20 m	0,15	79,000	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Electro insulating tape

Cold-resistant insulation tape HUPtape-22plus

- Excellent wrapping properties
- Can be processed even at very low temperatures
- Extreme weather proof (UV resistant)
- Resistant to corrosion, acids and lyes
- Processing temperature: -18°C to + 60°C
- Individually packaged in plastic box

Art. no.	width	⟷	Ø	kg/100	PU
263930	19	20 m	0,215	12,000	1

Textile tape

Particularly strong adhesive, UV-resistant.

- 50 m

Art. no.	width	⟷	kg	PU
393016	50	50 m	0,269	1

Self-welding insulation tape HUPtape76seal

- Forms homogenous welding wraps
- Excellent dielectric properties
- Weather proof (UV resistant)
- Insulation on medium voltage cables up to 69 kV
- Resistant to corrosion, acids and lyes
- Individual in box packaging

Art. no.	s	⟷	Ø	kg/100	PU
263940		9 m	0,76	19,400	1

Routine tests

Safety advice for working with live voltage

The basic requirements for working with live voltage are safety-insulated tools.
Legal regulations and the following safety advice should always be observed:

1. Transport your safety tools such that damage to the insulation is avoided.
2. Before use, make sure that the insulation is not damaged. Damaged tools must not be used.
3. Keep your safety tools clean and dry.
4. When working overhead or when using cutting pliers, protective glasses must be worn.
5. For your own safety, keep your work space clean and tidy when working with live voltage.
6. In enclosed, cramped spaces, protective clothing and equipment must be worn (e.g. safety gloves, covering drapes, protective hoods)
7. Only use suitable and tested tools. Make sure that loose and cut off parts do not fall onto live components.

Routine tests in accordance with VDE Norm 1000 V IEC 60900:2012

Cold-heading test

In this test, the toughness of the PVC material is checked by dropping a weight onto the tools which have been cooled down to -25°C. The tools must not show any cracking or other damage after the test.

Testing the adhesive strength of the PVC coating

After pliers have been stored for 168 hours at +70°C, the adhesive power of the PVC coating is tested using a pulling force of 500 Nm. The insulation material must stay firmly attached to the basic tool.

Flame resistance test

To exclude any fire risks, only flame-proof PVC material is used.

Pressure test

No puncture must occur, while testing the tool with a voltage of 5,000 V AC when also applying a pressure of 20 Nm at a temperature of +70°C to the tool.

Testing the insulating properties

After storing the tools under water for 24 hours, the tools are tested using 10,000 V AC for three minutes, while simultaneously measuring the discharge current. During this time, no puncture or sparkover must occur.

Voltage test

Each safety tool is individually voltage tested. This means that all tools which bear the relevant mark have been tested at 10,000 V AC and are approved for a voltage of 1,000 V, ensuring 10-fold safety.

Screw profiles

- Slot
- Cross slot Phillips
- Cross slot Pozidriv
- Pozidriv/flat slot
- Tx
- Tx with safety pin
- Allen screw
- Hexagon head
- Ball point

Patent ratchet wrench

The HAUPA ratchet wrench has a number of patented advantages. it is characterised particularly ergonomic handling and high functional safety.
The excellent interlocking of the wrench insert, which must be able to withstand pull-out forces of up to 500 N is the main feature.

The ratchet can be operated with one hand due to a cross slide made from non-conducting material (polyamide). It is ergonomically designed such that it accessible with the thumb of the hand holding it. This cross slide, which is deep in the inside of the ratchet, also ensures that the testing voltage of 10 KV gema DIN 60900 can easily be achieved.

Safety of HAUPA products

All HAUPA products under the product area of "working with live voltage" have a 2-colour multi-layer insulation (wherever technically possible). This multi-layer insulation supports the current VBG4 regulations. This regulation requires that before use all tools are tested for any damage that can be seen externally. The 2-colourcoating – the second insulating layer contrast in yellow – ensures that any damages are visible immediately.

Safety tools

haupa®

... convincing solutions

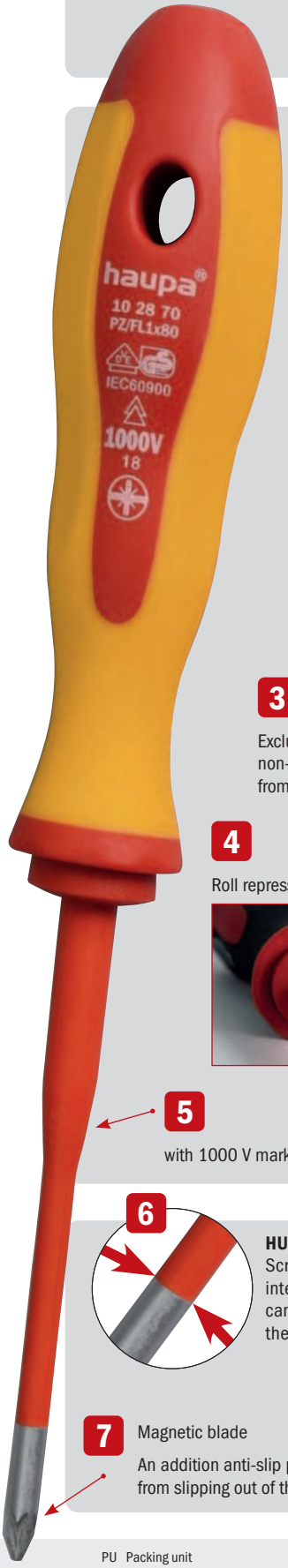
VDE screwdriver HUPslim 1000 V

INFO

Screwdriver range HUPslim — **Industrial quality**

Screwdriver range according to the new Norm IEC 60900.
All blades are made from a high-quality molybdenum-vanadium steel, are matte-chrome-plated and spayed with red polypropylene. This ergonomic moulded 2-component handles from PP/TPE material guarantees a high security with normal power transmission.
Every screwdriver is individually tested and marked according to the new Norm.

HUPslim



Injected blades profile on the top of the handle – for a fast access in the tool box, abrasion is not possible

2

Homogeneous sizes-adaptation of the screwdrivers haft for better power transmission. Increase of the soft area for stronger grip

3

Exclusive, ergonomic design, non-slipping 2-component handles from PP/TPE material

4

Roll repressive

5

with 1000 V marking injected

1000 V IEC 60900

6

HUPslim
Screwdriver with reduced blade diameter and integrated protective insulation. Deep screwing can be achieved to a better standard thanks to the reduced blade diameter.

HUPslim

7 Magnetic blade

An addition anti-slip protection on Phillips profiles prevents the tool from slipping out of the screw. *Silver tip protects from corrosion.*

Screwdriver HUPslim 1000 V with PZ slot profile

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated.

PREMIUM

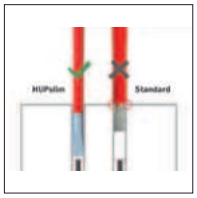
HUPslim
Screwdriver with reduced blade diameter and integrated protective insulation. Deep screwing can be achieved to a better standard thanks to the reduced blade diameter.

Specifications and advantages of the PZ/FL profile.
The PZ/FL profile can only be used for combination screws that were previously screwed with a slot or recessed head PZ type screwdriver. The screws have an inner PZ profile with an additional cross slot that also allows it to be screwed with a slot screwdriver.

Area of application for PZ/FL profile.
The screws are mainly used in electrical installation in automatic circuit breakers and safety switches.

1000 V IEC 60900

HUPslim



Art. no.	size	BL	⟷	form	kg	PU
102870	**1**	80	205	PZ/FL	0,060	1
102872	**2**	100	270	PZ/FL	0,094	1

Screwdriver set HUPslim 1000 V with PZ slot profile

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated.

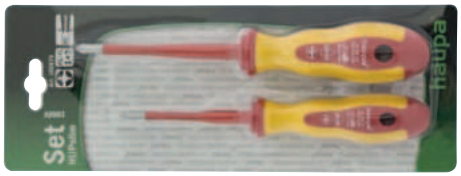
PREMIUM

HUPslim
Screwdriver with reduced blade diameter and integrated protective insulation. Deep screwing can be achieved to a better standard thanks to the reduced blade diameter.

Content:
- 102870
- 102872

1000 V IEC 60900

HUPslim



Art. no.	size	form	set	kg	PU
102879	**1 + 2**	PZ/FL	**2**	0,200	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✱ Bestseller PREMIUM Premium product

VDE screwdriver HUPslim 1000 V

Electricians' screwdrivers HUPslim 1000 V Slot

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated.

HUPslim
Screwdriver with reduced blade diameter and integrated protective insulation. Deep screwing can be achieved to a better standard thanks to the reduced blade diameter.

Art. no.	CW	KSt	BL	⟷	kg	PU
102914	**3,5**	**0,6**	100	185	0,035	1
102916	**4**	**0,8**	100	195	0,052	1
102918	**5,5**	**1**	125	230	0,070	1
102920	**6,5**	**1,2**	150	255	0,108	1

Electricians' screwdrivers HUPslim 1000 V Slot

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated.

HUPslim
Screwdriver with reduced blade diameter and integrated protective insulation. Deep screwing can be achieved to a better standard thanks to the reduced blade diameter.

Art. no.	CW	KSt	BL	⟷	kg	PU
102917	**4**	**1**	100	195	0,052	1

Cross slotted screwdrivers HUPslim 1000 V Phillips

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated, engraving on the blade ensures extra grip in the screw.

HUPslim
Screwdriver with reduced blade diameter and integrated protective insulation. Deep screwing can be achieved to a better standard thanks to the reduced blade diameter.

Art. no.	size	BL	⟷	form	kg	PU
102942	**1**	80	175	PH	0,061	1
102944	**2**	100	205	PH	0,100	1

Cross slotted screwdrivers HUPslim 1000 V Pozidriv

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated.

HUPslim
Screwdriver with reduced blade diameter and integrated protective insulation. Deep screwing can be achieved to a better standard thanks to the reduced blade diameter.

Art. no.	size	BL	⟷	form	kg	PU
102952	**1**	80	175	PZ	0,061	1
102954	**2**	100	205	PZ	0,095	1

Screwdrivers set HUPslim 1000 V

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated.

HUPslim
Screwdriver with reduced blade diameter and integrated protective insulation. Deep screwing can be achieved to a better standard thanks to the reduced blade diameter.

Content:
1 HUPslim flat head screwdriver in 3.5 x 100 mm, 4 x 100 mm, 5.5 x 125 mm and 6.5 x 150 mm, HUPslim Phillips screwdrivers in sizes 1 and 2

Art. no.	form	set	kg	PU
102999	PH	**6**	0,414	1

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VDE screwdriver HUPslim 1000 V

Screwdrivers set HUPslim 1000 V

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated.

HUPslim
Screwdriver with reduced blade diameter and integrated protective insulation. Deep screwing can be achieved to a better standard thanks to the reduced blade diameter.

Content:
1 HUPslim flat head screwdriver in 3.5 x 100 mm, 4 x 100 mm, 5.5 x 125 mm and 6.5 x 150 mm, HUPslim Pozidriv screwdrivers in sizes 1 and 2

1000 V IEC 60900
HUPslim

Art. no.	form	**set**	kg	PU
102999/PZ	PZ	**6**	0,416	1

Screwdrivers set HUPslimPlus 1000 V

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated, 12-pieces.

HUPslim
Screwdriver with reduced blade diameter and integrated protective insulation. Deep screwing can be achieved to a better standard thanks to the reduced blade diameter.

Content:
- Electricians' screwdrivers HUPslim 3,5 x 0,6 x 100 mm, 4 x 0,8 x 100 mm, 4 x 1,0 x 100 mm, 5,5 x 1,0 x 125 mm, 6,5 x 1,2 x 150 mm
- Cross slotted screwdrivers HUPslim Phillips, size 1 and 2
- Cross slotted screwdrivers HUPslim Pozidriv, size 1 and 2
- Screwdriver HUPslim with PZ slot profile, size 1 and 2
- Voltage testers 100 – 250 V, loose

1000 V IEC 60900
HUPslim

Art. no.	form	**set**	kg	PU
102980	Mix	**12**	0,850	1

HUPslim

HUPslim
Screwdriver with reduced blade diameter and integrated protective insulation. Deep screwing can be achieved to a better standard thanks to the reduced blade diameter.

INFO

Screwdriver range **Industrial quality**

Screwdriver range according to the new Norm IEC 60900.
All blades are made from a high-quality molybdenum-vanadium steel, are matte-chrome-plated and spayed with red polypropylene.
This ergonomic moulded 2-component handles from PP/TPE material guarantees a high security with normal power transmission.
Every screwdriver is individually tested and marked according to the new Norm.

1000 V IEC 60900

Injected blades profile on the top of the handle – for a fast access in the tool box, abrasion is not possible

2

Homogeneous sizes-adaptation of the screw-drivers haft for better power transmission. Increase of the soft area for stronger grip

3

Exclusive, ergonomic design, non-slipping 2-component handles from PP/TPE material

4

Roll repressive

5

with 1000 V marking injected

6

- Magnetic blade
- An addition anti-slip protection on Phillips profiles prevents the tool from slipping out of the screw. *Silver tip protects from corrosion.*

Screwdriver with PZ slot profile

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated.

PREMIUM

Specifications and advantages of the PZ/FL profile.
The PZ/FL profile can only be used for combination screws that were previously screwed with a slot or recessed head PZ type screwdriver. The screws have an inner PZ profile with an additional cross slot that also allows it to be screwed with a slot screwdriver.

Area of application for PZ/FL profile
The screws are mainly used in electrical installation in automatic circuit breakers and safety switches

1000 V IEC 60900

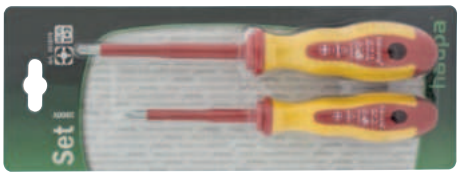
Art. no.	size	BL	⟷	form	kg	PU
101870 ✷	1	80	205	PZ/FL	0,060	1
101872 ✷	2	100	270	PZ/FL	0,094	1

Screwdriver set with PZ slot profile

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

Content:
- 101870
- 101872

1000 V IEC 60900



Art. no.	size	form	set	kg	PU
101879	1 + 2	PZ/FL	2	0,200	1

Electricians screwdrivers Slot

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

PREMIUM

1000 V IEC 60900

Art. no.	CW	KSt	BL	⟷	kg	PU
101910 ✷	2,5	0,4	75	155	0,027	1
101912 ✷	3	0,5	100	185	0,029	1
101914 ✷	3,5	0,6	100	185	0,035	1
101916 ✷	4	0,8	100	195	0,052	1
101918 ✷	5,5	1	125	230	0,070	1
101920	6,5	1,2	150	255	0,108	1
101922	8	1,2	175	295	0,177	1
101924	10	1,6	200	320	0,245	1

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VDE screwdrivers 1000 V

Electricians screwdrivers Slot

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

1000 V IEC 60900

Art. no.	CW	KSt	BL	⟷	kg	PU
101917	4	1	100	195	0,052	1

Cross slotted screwdrivers Phillips

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated, engraving on the blade ensures extra grip in the screw

1000 V IEC 60900

Art. no.	size	BL	⟷	form	kg	PU
101940	0	60	145	PH	0,034	1
101942 ✷	1	80	175	PH	0,061	1
101944 ✷	2	100	205	PH	0,100	1
101946	3	150	270	PH	0,165	1

Cross slotted screwdrivers Pozidriv

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

1000 V IEC 60900

Art. no.	size	BL	⟷	form	kg	PU
101950	0	60	135	PZ	0,033	1
101952 ✷	1	80	175	PZ	0,061	1
101954 ✷	2	100	205	PZ	0,095	1
101956	3	150	270	PZ	0,166	1

Screwdrivers Tx

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

1000 V IEC 60900

Art. no.	size	BL	⟷	form	kg	PU
101850	8	100	185	TX	0,053	1
101852	9	100	185	TX	0,051	1
101854	10	100	195	TX	0,053	1
101856 ✷	15	100	195	TX	0,053	1
101858 ✷	20	100	195	TX	0,052	1
101860	25	125	220	TX	0,070	1
101862	27	125	230	TX	0,072	1
101864	30	150	255	TX	0,109	1
101866	40	175	295	TX	0,178	1

Screwdrivers Square

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

1000 V IEC 60900

Art. no.	size	BL	⟷	form	kg	PU
102550	0	60	145	SQ	0,034	1
102552	1	80	175	SQ	0,061	1
102554	2	100	205	SQ	0,095	1
102556	3	150	270	SQ	0,166	1

Screwdrivers set 1000 V

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated, 6-pieces.

Content:
VDE Electricians' screwdriver 2,5 x 75 mm, 4 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm VDE cross slotted screwdrivers Phillips size 1 and 2

1000 V IEC 60900

Art. no.	form	set	kg	PU
101999 ✷	PH	6	0,414	1

VDE screwdrivers 1000 V

Screwdrivers set 1000 V

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated, 6-pieces.

Content:
VDE Electricians' screwdriver 2,5 x 75 mm, 4 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm VDE cross slotted screwdrivers Pozidriv size 1 and 2

1000 V IEC 60900

Art. no.	form	set	kg	PU
101999/PZ	PZ	6	0,416	1

Screwdrivers set Plus 1000 V

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated, 15-pieces.

Content:
- Electricians' screwdrivers 1000 V 2,5 x 0,4 x 75 mm, 3 x 0,5 x 100 mm, 4 x 0,8 x 100 mm, 5,5 x 1,0 x 125 mm
- Cross slotted screwdrivers 1000 V Phillips, size 1 and 2
- Cross slotted screwdrivers 1000 V Pozidriv, size 1 and 2
- Screwdriver 1000 V with PZ slot profile, size 1 and 2
- Screwdrivers 1000 V Tx, size 10, 15, 20, 25
- Voltage testers 100 – 250 V, loose

1000 V IEC 60900

Art. no.	form	set	kg	PU
101980	Mix	15	0,414	1

VDE socket wrenches 1000 V

Socket wrenches DIN 7445

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

1000 V IEC 60900

Art. no.	⇕⬡	BL	⟷	kg	PU
102520	4	125	220	0,105	1
102522	5	125	220	0,109	1
102524	5,5	125	220	0,116	1
102526	6	125	220	0,111	1
102528	7	125	230	0,116	1
102530	8	125	230	0,119	1
102532	9	125	230	0,122	1
102534	10	125	230	0,125	1
102536	11	125	245	0,167	1
102538	12	125	245	0,165	1
102540	13	125	245	0,175	1

Socket wrenches set DIN 7445

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated.

Content: 1 piece each 5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm

1000 V IEC 60900

Art. no.	set	kg	PU
102512	7	1,065	1

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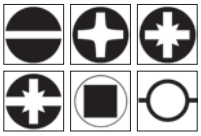
Vario 1000 V replaceable blade system

in robust nylon bag. **Content:** 2C exchangeable handle, screw cap, replaceable blade - slotted blade 0.4 x 2.5 / 0.5 x 3.0 / 0.8 x 4.0 / PH1 / PH2 or PZ1 / PZ2, PZ/FL 2, switch cabinet key – square 1, double-bit

Further characteristic feature include:
- High level of safety
- Exchangeable cap for use as an electronics screwdriver
- Switching cabinet key is integrated into the system
- Space-saving
- Weight-saving
- Cost-effective price/performance ratio
- Meets all relevant standards



1000 V IEC 60900

Art. no.	form	set	kg	PU
102000-1	Phillips	**10**	0,340	1
102000/PZ-1	Pozidriv	**10**	0,334	1

Vario nylon bag – empty

Robust nylon bag (with belt loop) wide hook and eye fastening and loop for hanging up

Art. no.	Width	Height	Depth	kg	PU
102042-1	215	290	30	0,088	1

Exchangeable Vario 1000 V handle

automatic locking mechanism ensures that blades do not fall out unexpectedly, ergonomically formed 2 component book of PP/TPE material

1000 V IEC 60900

Art. no.	form	⟷	kg	PU
102040	HEX	120	0,058	1

Vario screw cap

Additional screw cap when using as precision tool (electronics)

Art. no.	⟷	kg	PU
102044	10	0,002	1

Vario replaceable blade – pozidrive blade/slotted

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, with hexagonal shaft, greater torque transmission than a pure pozidrive or slotted blade

1000 V IEC 60900

Art. no.	form	size	BL	⟷	kg	PU
102010	PZ/FL	**1**	85	165	0,035	1
102012	PZ/FL	**2**	85	165	0,045	1

Vario replaceable blade – slotted blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

1000 V IEC 60900

Art. no.	form	BL	KSt	BL	⟷	kg	PU
102014	SL	**2,5**	**0,4**	85	165	0,013	1
102016	SL	**3**	**0,5**	85	165	0,015	1
102017	SL	**3,5**	**0,6**	85	165	0,080	1
102018	SL	**4**	**0,8**	85	165	0,022	1
102020	SL	**5,5**	**1**	85	165	0,034	1
102022	SL	**6,5**	**1,2**	85	165	0,045	1

Vario replaceable blade – Phillips blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

1000 V IEC 60900

Art. no.	form	size	BL	⟷	kg	PU
102001	PH	**0**	85	165	0,023	1
102002	PH	**1**	85	165	0,035	1
102004	PH	**2**	85	165	0,044	1

Vario replaceable blade – pozidrive blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

1000 V IEC 60900

Art. no.	form	size	BL	⟷	kg	PU
102005	PZ	**0**	85	165	0,023	1
102006	PZ	**1**	85	165	0,035	1
102008	PZ	**2**	85	165	0,045	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Vario replaceable blade – torx blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

1000 V IEC 60900

Art. no.	form	size	BL		kg	PU
102060	TX	**8**	85	165	0,016	1
102062	TX	**9**	85	165	0,016	1
102064	TX	**10**	85	165	0,016	1
102066	TX	**15**	85	165	0,021	1
102068	TX	**20**	85	165	0,021	1
102070	TX	**25**	85	165	0,034	1
102072	TX	**30**	85	165	0,041	1

Vario switch cabinet key – Square

individually tested with hexagonal shaft

1000 V IEC 60900

Art. no.			kg	PU
102030	**6**	47	0,010	1
102032	**8**	47	0,009	1

Vario switch cabinet key – Triangular

individually tested with hexagonal shaft

1000 V IEC 60900

Art. no.			kg	PU
102034	**9**	47	0,009	1

Vario switch cabinet key – Double-bit

individually tested with hexagonal shaft

1000 V IEC 60900

Art. no.			kg	PU
102036	**5,3**	47	0,009	1

VarioPro 1000 V replaceable blade system

The VarioPro replaceable blade system with insulated replaceable blades, switching cabinet key is integrated into the system, VDE pliers set and voltage tester.

Content:

- Slot: 0.4 x 2.5 x 100, 0.5 x 3.0 x 100, 0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 100, 1.2 x 6.5 x 100
- Phillips: 0 x 100, 1 x 100, 2 x 100
- Pozidriv: 0 x 100, 1 x 100, 2 x 100
- PZ/FL 1, PZ/FL 2
- Tx: 8 x 100, 9 x 100, 10 x 100, 15 x 100, 20 x 100, 25 x 100, 30 x 100
- Square: 8 x 47
- Double-bit: 5,3 x 47
- Screw cap, additional screw cap when using as precision tool (electronics)
- 2-component exchangeable handle: 120 mm
- Voltage testers VDE/GS: 100700, 125 – 250 V
- VDE 2C pliers: 211200*, 211204*, 211208*, 211214

***High leverage = with lever transmission**
(pliers with leverage ratio offer up to 50% power saving)

VIDEO 102052

1000 V IEC 60900

Placeholders for torque handle

Art. no.	**set**	width	height	depth	kg	PU
102052	**30**	410	310	85	3,100	1

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Tool case ElektroCombo

black plastic case with metal catch, complete tool set for electricians and network technicians, case: 490 x 375 x 100 mm

Content:

- 2C-VDE combination pliers, 180 mm*
- 2C-VDE side cutters, 160 mm*
- 2C-VDE wire stripping pliers, 160 mm
- 2C-VDE long chain nose pliers, straight, 200 mm*
- Cable cutter 160 mm, coating-insulated
- Crimping pliers for end sleeves 0,5 - 16 mm²
- Set ball point allen keys 9-pcs., extra long
- 2C exchangeable Vario handle
- Vario replaceable blade – slotted blade 2.5, 3, 4, 5.5 mm
- Vario replaceable blade – Phillips blade 1, 2
- Vario replaceable blade – pozidrive blade 1, 2
- Vario replaceable blade – pozidrive blade/slotted 1 + 2
- Voltage tester Basic, black | 125 - 250 V
- Spanners for switch-cabinets HUPkey
- Utility knives
- Junior hacksaw 150 mm
- Electricians' chisels 10 x 250 mm
- Cabinet levels 230 mm
- Measuring tape, 5 m
- Reversible ratchet 1/4"
- Engineers' hammer, 300 g
- Extension 1/4" 100 mm
- Sockets 1/4" WS: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm
- Ratchet screwdriver „FlexPlus" for long bits
- 1/4" Bits 50mm HEX 2, 2.5, 3, 4, 5, 6
- 1/4" Bits 50mm PH 0, 1, 2, 3
- 1/4" Bits 50mm PZ 0, 1, 2, 3
- 1/4" Bist 50mm FD 3, 4, 5, 6
- 1/4" Bits 50mm TX 10, 15, 20, 25, 30, 40
- 1/4" Bits 50mm PZ/FL 1 + 2
- 1/4" SQ x 1/4" HEX adapter 50 mm
- Assortment box 160 x 115 x 40 mm

***High leverage = with lever transmission**
(pliers with leverage ratio offer up to 50% power saving)

Art. no.	set	width	height	depth	kg	PU
104090	**78**	490	375	100	6,240	1

INFO

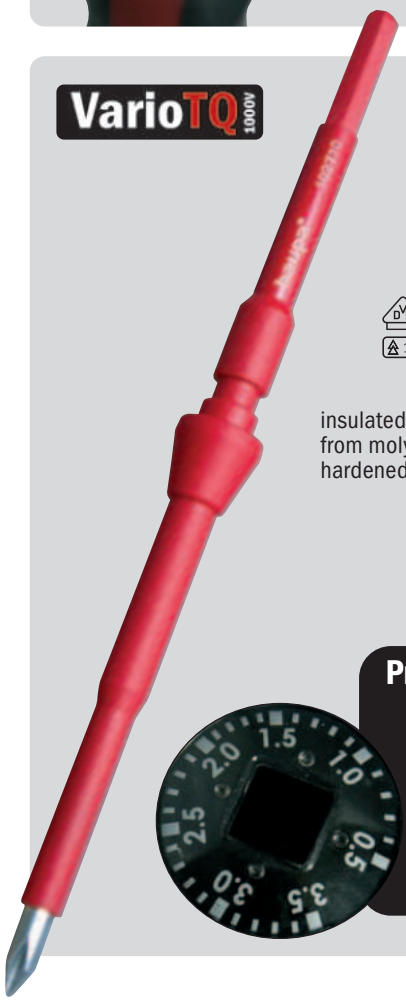
Dynamometric screwdriver with replaceable blades

The new HAUPA 1000 V VarioTQ dynamometric screwdriver is characterised by its precision and functionality.

The ergonomic handles can be adjusted individually.
1. 1.0 - 6.0 Nm
2. 0.5 - 3.5 Nm

HAUPA offers all relevant blade tip profiles as individual items and in set form in a high-quality nylon case.

- torque can be set using a separate key
- scale value can easily be read off
- clearly perceptible and audible signal when the set torque is achieved
- torque accuracy according to EN ISO 6789:2013-10



VarioTQ 1000V

with hexagonal shaft

1000 V IEC 60900

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted

Precisely adjustable torque

Two handle versions, also available individually:

Art. no. 102790
1.0 - 6.0 Nm

Art. no. 102792
0.5 - 3.5 Nm

VarioTQ 1000 V dynamometric screwdriver with replaceable blades - Phillips / Pozidriv

VarioTQ

PREMIUM

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, with hexagonal shaft, in robust nylon bag (with belt loop and hook and loop closure)

Content:
- 2-component exchangeable handle (1000 V) 1 - 6 Nm or 0,5 - 3,5 Nm
- slotted 0,4 x 2,5 / 0,5 x 3,0 / 0,8 x 4,0 / 1,0 x 5,5 / 1,2 x 6,5
- PH0 / PH1 / PH2 or PZ0 / PZ1 / PZ2
- PZ/FL 1
- PZ/FL 2
- Square socket key

TQ

1000 V IEC 60900

Art. no.	form	Nm	**set**	kg	PU
102700-1	PH	1 - 6	**12**	0,800	1
102701-1	PH	0,5 - 3,5	**12**	0,800	1
102700/PZ-1	PZ	1 - 6	**12**	0,800	1
102701/PZ-1	PZ	0,5 - 3,5	**12**	0,800	1

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VarioTQ 1000 V replaceable blade system

VarioTQ 1000 V dynamometric screwdriver with replaceable blades - Tx / Hex

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, with hexagonal shaft, in robust nylon bag (with belt loop and hook and loop closure)

Content:
- 2-component exchangeable handle (1000 V) 1 - 6 Nm
- TX 8 - 9 - 10 - 15 - 20 - 25 - 30
- PZ/FL 1
- PZ/FL 2
- Square socket key

Art. no.	form	Nm	set	kg	PU
102702-1	TX	1 - 6	**11**	0,760	1
102703-1	TX	0,5 - 3,5	**11**	0,760	1
102706-1	TX+HEX	1 - 6	**11**	0,800	1
102707-1	TX+HEX	0,5 - 3,5	**11**	0,800	1

VarioTQ 1000 V dynamometric screwdriver with replaceable blades - Hex

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, with hexagonal shaft, in robust nylon bag (with belt loop and hook and loop closure)

Content:
- 2-component exchangeable handle (1000 V) 1 - 6 Nm
- HEX 2 - 3 - 3,5 - 4 - 4,5 - 5 - 5,5 mm
- PZ/FL 1
- PZ/FL 2
- Square socket key

Art. no.	form	Nm	set	kg	PU
102704-1	HEX	1 - 6	**11**	0,340	1
102705-1	HEX	0,5 - 3,5	**11**	0,340	1

Torque screwdriver for a proper screw connection

- The use of tightening torques is a prerequisite for manufacturer-compliant fastening with type-tested switchgear.
- Screws are tightened neither too much, nor too little. Thus an increased transfer resistance and the emergence of glowing contacts are prevented.
- **NO FIRE HAZARD**

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

VarioTQ 1000 V replaceable blade system

VarioTQ 1000 V nylon bag – empty

Robust nylon bag (with belt loop) wide hook and eye fastening and loop for hanging up

Art. no.	width	height	depth	kg	PU
102785-1	215	290	30	0,115	1

Exchangeable VarioTQ 1000 V handle

automatic locking mechanism ensures that blades do not fall out unexpectedly, ergonomically formed 2 component book of PP/TPE material, precisely adjustable torque

TQ

1000 V IEC 60900

Art. no.	↔	Nm	kg	PU
102790	122	1 - 6	0,180	1
102792	122	0,5 - 3,5	0,180	1

Square socket key

for adjustment of the torque for VarioTQ replacement blades

Art. no.	form	BL	**BL**	kg	PU
102784	SQ	40	**8**	0,050	1

Exchangeable Vario 1000 V handle

automatic locking mechanism ensures that blades do not fall out unexpectedly, ergonomically formed 2 component book of PP/TPE material

1000 V IEC 60900

Art. no.	form	↔	kg	PU
102040	HEX	120	0,058	1

VarioTQ 1000 V replaceable blade – PZ/FL

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

1000 V IEC 60900

Art. no.	form	**size**	BL	↔	kg	PU
102780	PZ/FL	**1**	195	195	0,050	1
102782	PZ/FL	**2**	195	195	0,050	1

VarioTQ 1000 V replaceable blade – slotted blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

1000 V IEC 60900

Art. no.	form	**BL**	**KSt**	BL	↔	kg	PU
102710	SL	**2,5**	**0,4**	195	195	0,050	1
102712	SL	**3**	**0,5**	195	195	0,050	1
102714	SL	**4**	**0,8**	195	195	0,050	1
102716	SL	**5,5**	**1**	195	195	0,050	1
102718	SL	**6,5**	**1,2**	195	195	0,050	1

VarioTQ 1000 V replaceable blade – Phillips blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

1000 V IEC 60900

Art. no.	form	**size**	BL	↔	kg	PU
102720	PH	**0**	195	195	0,050	1
102722	PH	**1**	195	195	0,050	1
102724	PH	**2**	195	195	0,050	1
102726	PH	**3**	195	195	0,050	1

VarioTQ 1000 V replaceable blade – pozidrive blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

1000 V IEC 60900

Art. no.	form	**size**	BL	↔	kg	PU
102730	PZ	**0**	195	195	0,050	1
102732	PZ	**1**	195	195	0,050	1
102734	PZ	**2**	195	195	0,050	1
102736	PZ	**3**	195	195	0,050	1

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VarioTQ 1000 V replaceable blade system

VarioTQ 1000 V replaceable blade – torx blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

Art. no.	form	size	BL		kg	PU
102740	TX	8	195	195	0,050	1
102742	TX	9	195	195	0,050	1
102744	TX	10	195	195	0,050	1
102746	TX	15	195	195	0,050	1
102748	TX	20	195	195	0,050	1
102750	TX	25	195	195	0,050	1
102752	TX	30	195	195	0,050	1

VarioTQ 1000 V replaceable blade – hex blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

Art. no.	form	size	BL		kg	PU
102760	HEX	2	195	195	0,050	1
102762	HEX	3	195	195	0,050	1
102764	HEX	3,5	195	195	0,050	1
102766	HEX	4	195	195	0,050	1
102768	HEX	4,5	195	195	0,050	1
102770	HEX	5	195	195	0,050	1
102772	HEX	5,5	195	195	0,050	1

VarioPro 1000 V replaceable blade system + TQ-Handle

The VarioPro replaceable blade system with insulated replaceable blades, switching cabinet key is integrated into the system, plus VDE pliers set. Including a TQ-Handle (Art. no. 102790 1-6 Nm) and Square socket key.

Content: 31 pcs.
- Slot: 0.4 x 2.5 x 100, 0.5 x 3.0 x 100, 0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 100, 1.2 x 6.5 x 100
- Phillips: 0 x 100, 1 x 100, 2 x 100
- Pozidriv: 0 x 100, 1 x 100, 2 x 100
- PZ/FL 1, PZ/FL 2
- Tx: 8 x 100, 9 x 100, 10 x 100, 15 x 100, 20 x 100, 25 x 100, 30 x 100
- Square: 8 x 47
- Double-bit: 5,3 x 47
- Screw cap, additional screw cap when using as precision tool (electronics)
- 2-component exchangeable handle: 120 mm
- 2-component exchangeable torque handle: 120 mm
- Square socket key
- VDE 2C pliers: 211200*, 211204*, 211208*, 211214

*** High leverage | perfected cutting force performance**
(high leverage pliers offer power saving of up to 50%)

Art. no.	width	height	depth	kg	PU
102052/TQ	410	310	85	3,280	1

* Bestseller Premium product

INFO

2 component pliers **Industrial quality**

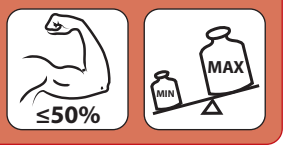
HAUPA divides the VDE pliers assortment into three groups.

1. 2C VDE pliers with plug-on handles
2. VDE pliers, coating-insulated, treated with a 2-coloured coatingisolation (outside red/inside yellow)
3. VDE pliers with a 2-coloured coating-isolation (outside red/inside yellow), working head insulated

These pliers fulfil the VDE standard IEC 60900.

High leverage | perfected cutting force performance

High leverage pliers offer power saving of up to 50%.



Combination pliers DIN ISO 5746 VDE

german pattern, comfort grip, alloyed carbon steel, C 45, oil-hardened, cutting edges induction hardened, for soft and hard wire, chrome plated, sheathed handles, **leveraged, perfected cutting force performance**.

PREMIUM

Art. no.	⟷		kg	PU
211198	160	IEC 60900	0,287	1
211200 ✷	180	VDE	0,287	1
211202	200	VDE	0,364	1

Side cutters DIN ISO 5749 VDE

swedish pattern, high alloyed carbon steel, oil-hardened, C 60, cutting edges induction hardened, for soft and hard wire, chrome plated, sheathed handles, **leveraged, perfected cutting force performance**.

PREMIUM

Art. no.	⟷		kg	PU
211199	140	IEC 60900	0,237	1
211204 ✷	160	VDE	0,237	1
211206	180	VDE	0,296	1

Side cutting pliers with stripping function 1000 V

Swedish design, power class H, C 60, oil-hardened, induction hardened blades, for hard and soft wire, chrome plated, push-on grips. Aside from their traditional advantages, these side cutting pliers also possess an additional wire stripping function. (art. 211207, **leveraged, perfected cutting force performance**.)

PREMIUM

Art. no.	⟷		kg	PU
211203	160	IEC 60900	0,296	1
211207	180	IEC 60900	0,296	1

Wire stripping pliers VDE

C 45, oil-hardened, with spring and adjustment screw, for cable of 0,2 - 6 mm Ø, chrome plated, sheathed handles

Art. no.	⟷	Ø		kg	PU
211214 ✷	160	0,2-6	VDE	0,202	1

Heavy duty side cutters DIN ISO 5745 VDE

C 60, cutting edges induction hardened, chrome plated, sheathed handles, **leveraged, perfected cutting force performance**.

PREMIUM

Art. no.	⟷		kg	PU
211211	160	IEC 60900	0,268	1
211217 ✷	170	VDE	0,268	1

Heavy duty side cutters DIN ISO 5749 VDE

C 60, cutting edges induction hardened, chrome plated, sheathed handles, **leveraged, perfected cutting force performance**.

PREMIUM

Art. no.	⟷		kg	PU
211219 ✷	200	VDE	0,322	1

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VDE pliers, sheathed handles 1000 V

Long chain nose pliers DIN ISO 5745 VDE, straight

with side cutter, straight, C 45, oil-hardened, cutting edges induction hardened, for soft and hard wire, chrome plated, sheathed handles, **leveraged, perfected cutting force performance**.

Art. no.			kg	PU
211213	160	IEC 60900	0,255	1
211208 ✷	200	VDE	0,255	1

Long chain nose pliers DIN ISO 5745 VDE, 45° angled nose

with side cutter, 45° angled nose, C 45, oil-hardened, cutting edges induction hardened, for soft and hard wire, chrome plated, sheathed handles, **leveraged, perfected cutting force performance**.

Art. no.		form		kg	PU
211209	160	45°	IEC 60900	0,260	1
211210	200	45°	VDE	0,260	1

Short flat nose pliers DIN ISO 5745 VDE

C 45, oil-hardened, chrome plated, short body, sheathed handles

Art. no.			kg	PU
211212	160	VDE	0,168	1

Short round nose pliers DIN ISO 5745 VDE

C 45, alloyed carbon steel, oil-hardened, chrome plated, sheathed handles

Art. no.			kg	PU
211216	160	VDE	0,161	1

Water pump pliers DIN ISO 8976 VDE

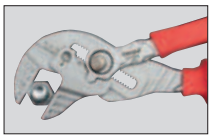
self-clamping water pump plier with head adjustment, non-slip, chrome plated, sheathed handles

Art. no.			kg	PU
211221	240	VDE	0,392	1

Pliers wrench VDE

- Stepless gripping of all wrench widths thanks to the parallel jaws
- Easy tightening and releasing of screw connections
- Weight-reduced for very light working that is gentle on the joints
- Secure setting of the gripping jaws prevents the joint slipping through
- Gentle on surfaces thanks to the smooth, polished gripping surfaces
- 10-fold manual force amplification for very high clamping force
- With comfortable single-hand adjustment pushbutton
- With finger clamp protection for safe working
- Chrome-vanadium tool steel ensures high durability and a long product life
- Individually tested acc. to DIN EN IEC 60900 for working safely on live parts

Replaces entire open wrench set!
Thanks to the parallel jaws, screw edges are not damaged!



Art. no.				kg	PU
211224	280	**50**	VDE	0,392	1

Cable cutters VDE HUPtriCut

- For cutting Cu/Al cables, fine and multi-wiring
- Chrome vanadium steel, plug-on handles
- Insulating function in upper head area
- Cable measuring function thanks to the 180 degree crossover of the legs
- Not for solid conductors

Art. 211225 (Art. 211223)
- Data, telephone and control cable, maximum Ø 8 mm (Ø 12 mm)
- Cu single wire, maximum 16 mm² (16 mm²)
- Cu fine wire, maximum 16 mm² (35 mm²)
- Cu multi-wire, maximum 16 mm² (25 mm²)
- Al single wire, maximum 16 mm² (25 mm²)
- Al multi-wire, maximum Ø 10 mm = 16 mm² (25 mm²)

Art. no.		Ø	mm²		kg	PU
211225 ✷	160	8	16	VDE	0,215	1
211223	200	12	35	VDE	0,352	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

VDE pliers, sheathed handles 1000 V

Cable cutters VDE with spring joint

- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Chrome vanadium steel
- Self-opening joint spring
- Enormous cutting power with reduced force expenditure
- Not for solid conductors

Art. no.	⟷	Ø	mm²		kg	PU
211226	170	10	25	VDE	0,268	1
211228 ✷	230	15	70	VDE	0,457	1

Pliers set VDE, sheathed handles

with VDE-safety-isolation, best quality, pliers chrome plated, 4-pieces.

Content:

- Combination pliers 180 mm
- Side cutter 160 mm
- Long chain nose pliers 200 mm
- Wire stripping pliers 160 mm

Art. no.	set		kg	PU
220123 ✷	4	VDE	1,063	1

Fully insulating 1000 V PVC flat nose pliers

all of plastic, specially for mounting and blocking of electricmeters

Art. no.	⟷	kg	PU
120051	190	0,109	1

Flat nose pliers 1000 V

all of plastic, specially for mounting and blocking of electricmeters

Art. no.	⟷	kg	PU
120052	160	0,084	1

single wire		wire rope	
multi-wire		armoured steel cable (SWA)	
sector-shaped		ACSR	
fine wire		bolt	
communication		solid steel	

VDE-pliers, 2-coloured coating-insulation 1000 V

Combination pliers DIN ISO 5746 VDE

alloyed carbon steel, C 45, oil-hardened, cutting edges induction hardened, for soft and hard wire, german pattern, chrome plated, 2-coloured coatinginsulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210056	180	0,300	1
210058	200	0,418	1

Side cutters DIN ISO 5749 VDE

swedish pattern,high alloyed carbon steel, oil-hardened, C 60, cutting edges induction hardened, for soft and hard wire, chrome plated, 2-coloured coatinginsulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210100	160	0,253	1
210102	180	0,303	1

Heavy duty side cutters DIN ISO 5749 VDE

swedish pattern, high alloyed carbon steel, oil-hardened, C 60, cutting edges induction hardened, for soft and hard wire, chrome plated, 2-coloured coatinginsulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210117	180	0,274	1
210119	200	0,368	1
210110	240	0,489	1

Front cutters 1000 V

alloyed carbon steel, cutting edges induction hardened, chrome plated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210303	160	0,3282	1

Long chain nose pliers DIN ISO 5745 VDE

alloyed carbon steel, C 45, oil-hardened, cutting edges induction hardened, for any wire, chrome plated, 2-coloured coating-insulation - inside yellow/ outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210388	200	0,270	1

Long chain nose pliers DIN ISO 5745 VDE, 45°

alloyed carbon steel, C 45, oil-hardened, cutting edges induction hardened, for any wire, chrome plated, 2-coloured coating-insulation - inside yellow/ outside red

1000 V IEC 60900

Art. no.	⟷	form	kg	PU
210390	200	45°	0,256	1

Short round nose pliers DIN ISO 5745 VDE

C 45, alloyed carbon steel, oil-hardened, chrome plated, 2-coloured coatinginsulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210296	160	0,180	1

Short flat nose pliers DIN ISO 5745 VDE

C 45, alloyed carbon steel, oil-hardened, chrome plated, 2-coloured coatinginsulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210270	160	0,187	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

VDE-pliers, 2-coloured coating-insulation 1000 V

Wire stripping pliers VDE

C 45, oil-hardened, with spring and adjustment screw, for cable of 0,2 - 6 mm Ø, chrome plated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	Ø	kg	PU
210648	160	0,2-6	0,232	1

Water pump pliers DIN ISO 8976 1000 V

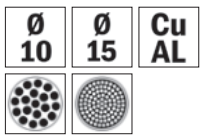
chrome vanadium, 31 Cr V3, box-joint, burner hole, teeth induction hardened, finger protection, oil-hardened, 2-coloured coating-insulation - inside yellow/ outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210583	240	0,423	1

Cable cutters 1000 V with spring joint

- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Chrome vanadium steel
- Self-opening joint spring
- Enormous cutting power with reduced force expenditure
- Not for solid conductors



1000 V IEC 60900

Art. no.	⟷	Ø	mm²	kg	PU
200086/VDE	200	10	25	0,274	1
200088/VDE	230	15	70	0,479	1

single wire		wire rope	
multi-wire		armoured steel cable (SWA)	
sector-shaped		ACSR	
fine wire		bolt	
communication		solid steel	

Pliers set VDE, 2-coloured coating-insulation

C 45, oil-hardened, 2-coloured coating-insulation - inside yellow/ outside red. Pliers chrome plated, 4-pieces.

Content:

- Combination pliers 180 mm
- Diagonal cutters 160 mm
- Long chain nose pliers, straight 200 mm
- Wire stripping pliers 160 mm

1000 V IEC 60900

Art. no.	set	kg	PU
220126	4	1,000	1

Tool case Real 1000 V

made of plastic, complete with 20 security tools. Dimension: 450 x 340 x 100 mm.

Content:

- 2C-VDE electrician's screwdrivers 2,5 x 75, 4 x 100, 6,5 x 150, 8 x 175
- 2C-VDE cross slotted screwdrivers PH, size 0, 1, 2
- 2C-VDE socket wrenches 5, 8, 10, 13 mm
- VDE combination pliers 200 mm
- VDE side cutters 180 mm
- VDE telephone pliers, straight 200 mm
- VDE wire stripping pliers 160 mm
- VDE flat nose pliers 160 mm
- VDE round nose pliers 160 mm
- Cable knife
- Cable stripping knife
- 2-pole voltage tester

1000 V IEC 60900

Art. no.	set	kg	PU
220148	20	4,300	1

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VDE pliers, coating-insulated 1000 V, head insulated

Combination pliers DIN ISO 5746 1000 V

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210263	180	0,306	1
210264	200	0,372	1

Side cutters DIN ISO 5749 1000 V

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210301	160	0,270	1
210302	180	0,309	1

Long chain nose pliers DIN ISO 5745 1000 V

straight, working head insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210266	160	0,182	1
210267	200	0,236	1

Long chain nose pliers DIN ISO 5745 1000 V, 45°

angled nose, working head insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	form	kg	PU
210297	200	45°	0,228	1

Plan grip pliers 1000 V

working head insulated, made of special alloy steel, long, flat, plain griping jaws, round edges, 2-coloured coating-insulation - inside yellow/outside redyellow/outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210298	200	0,215	1

Short flat nose pliers DIN ISO 5745 1000 V

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210299	160	0,216	1

Long chain nose pliers DIN ISO 5745 1000 V

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	kg	PU
210300	160	0,191	1

Wire stripping pliers 1000 V

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

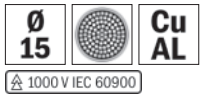
1000 V IEC 60900

Art. no.	⟷	Ø	kg	PU
210265	160	0,2-6	0,180	1

Cable cutters, stripping pliers 1000 V

Cable cutter 1000 V

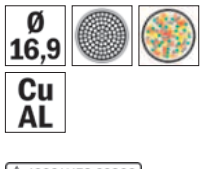
Grave version of vanadium steel, annealed, opening 15 mm, 2-coloured coatinginsulation - inside yellow/outside red



Art. no.	⟷	Ø	mm²	kg	PU
200127	160	15	50	0,289	1

Cable cutter with a snap 1000 V

Laser-cut components made of special carbon steel, oil-hardened, for optimal precision, CNC-ground cutting type, inductively hardened for maximum cutting performance, Screwed joint connections, re-adjustable for longer durability as well as, 2-coloured coating-insulation - inside yellow/outside red, for cables to 16,9 mm Ø (70 mm²)

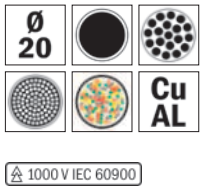


Art. no.	⟷	Ø	mm²	kg	PU
201002/VDE	180	16,9	70	0,247	1

Cable cutter 1000 V

for cutting Cu/Al cables, with VDE insulation, 2-coloured coating-insulation - inside yellow/outside red

- data, telephone and control cable, maximum Ø 25 mm
- Cu single wire, maximum 16 mm²
- Cu fine wire, maximum 70 mm²
- Cu multi-wire, maximum 25 mm²

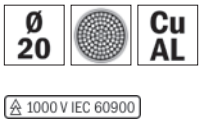


Art. no.	⟷	Ø	mm²	kg	PU
200120	215	20	70	0,403	1

single wire		wire rope	
multi-wire		armoured steel cable (SWA)	
sector-shaped		ACSR	
fine wire		bolt	
communication		solid steel	

Double edged cable cutter 1000 V

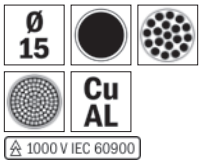
slight strain due to optimal lever-transmission, edges with precise grind for easy and proper cutting by one hand handling, opening 20 mm, forged of special carbon-steel, for copper and alu-cable, 2-coloured coating-insulation - inside yellow/outside red



Art. no.	⟷	Ø	mm²	kg	PU
200128	200	20	50	0,382	1

Cable cutter 1000 V

Long version, slight strain, one and two hand handling, proper cutting due to precise grind, forged of special carbon-steel, 2-coloured coating-insulation - inside yellow/outside red

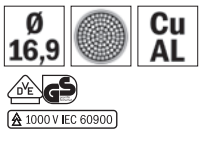


Art. no.	⟷	Ø	mm²	kg	PU
200129	240	15	50	0,484	1

Allround soft-grip scissors VDE

The new allround Soft - Grip scissors with its relatively short blades and special handles are designed to fulfil the needs of the professional electrical installers. The impressive cutting performance and the tough construction make this new scissors a special tool.

- ergonomic design (2 component)
- slipping free handle - Soft - Grip
- high cutting performance by low cutting force
- precision toothing
- cable stripping device
- stainless



Art. no.	⟷	mm²	kg	PU
200201	160	70	0,083	1

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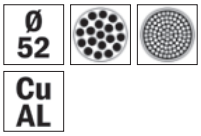
Cable cutters 1000 V

Ratchet cable cutter 1000 V

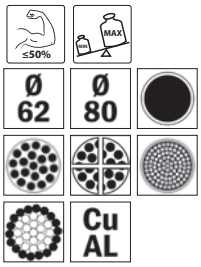
Extremely durable special steel, single-handed operation, stepped cutting in gradation-free cut for copper and aluminium cable



Art. no.	Ø	mm²	kg	PU
200198	52	400	0,942	1

Ratchet cable cutter 1000 V

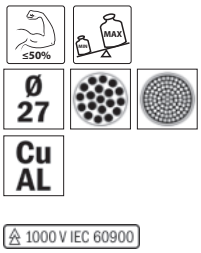
Two-handed cutter with dual bearing offset mechanism, almost break-proof meshing of rotating blade and tooth blade, separates multiple and fine-wired copper and aluminium cables up to a diameter of 62 mm or 80 mm, but also separates cables with thin steel sheet sleeve or steel sheet armouring in the outer part of the cable, not for hardened steel



Art. no.	Ø	mm²	kg	PU
200193	62	840	2,200	1
200195	80	1000	3,150	1

Cable cutter 1000 V

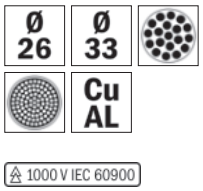
- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Low force required thanks to best blade geometry and translation ratios
- Vanadium electro-steel, forged, oil-hardened
- Aluminium legs
- Hardened blades with precision grinding
- Adjustable screw joint



Art. no.	⟷	Ø	mm²	kg	PU
200123	500	27	150	1,389	1

Cable cutter Super light 1000 V

- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Hardened blades with precision grinding
- Dual lever ensures easy cutting
- Adjustable screw joint
- Blade head in chrome vanadium steel, forged and oil-hardened

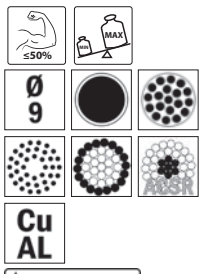


Art. no.	⟷	Ø	mm²	kg	PU
200110	600	26	150	2,327	1
200141	700	33	185	3,292	1

Wire cutters 1000 V

Wire rope and cable cutter 1000 V

with lever action, blades of high alloyed interchangeable, cutting capacity steelalu ropes up to 16 mm², for copper- and alucable, opening approx 9 mm



Art. no.	⟷	Ø	mm²	kg	PU
200081	700	9	16	2,880	1
200081/MK		Spare cutting head		0,350	1

●	single wire	●	wire rope
●	multi-wire	●	armoured steel cable (SWA)
●	sector-shaped	●	ACSR
●	fine wire	●	bolt
●	communication	●	solid steel

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✱ Bestseller Premium product

Hacksaw frames 1000 V

Hacksaw frame 1000 V

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	Sbl.	kg	PU
110558	200	150	0,248	1

Hacksaw frame 1000 V

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⟷	Sbl.	strength	kg	PU
110559	350	300	18	0,732	1

Cable sheath strippers 1000 V

Cable sheath cutter 1000 V

for removing all insulating layers from cables with diameters as of 25 mm
- Replaceable dual blade
- Cutting depth can be set
- Suitable for lengthwise and circular cuts

1000 V IEC 60900

Art. no.	Ø	kg	PU
110561	>25	0,250	1
110569	spare blades	0,040	1

VDE cable knives 1000 V

Cable knife VDE

with a straight, strong blade, handles made from tough elastic, impact proof plastic, with blade guard

1000 V IEC 60900

360° 200000

Art. no.	BL	kg	PU
200000 ✷	50	0,110	1

Cable knife VDE with sliding block

with a hook blade for slicing open and removing the sleeve from wet-room cables, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Wet-room cables, no damage to conductor insulation thanks to sliding block

PREMIUM

1000 V IEC 60900

Art. no.	BL	kg	PU
200007 ✷	50	0,120	1

Cable knife VDE

with a hook-shaped blade, handles made from tough elastic, impact proof plastic, with blade guard, thumb recess at the front and finger hook at the end of the handle. **Application:** Round cable

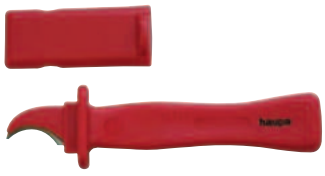
1000 V IEC 60900

Art. no.	BL	kg	PU
200002	35	0,093	1

Cable knife VDE

with a hook-shaped insulated blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Large round cables

1000 V IEC 60900



Art. no.	BL	kg	PU
200003	35	0,074	1

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VDE cable knives 1000 V

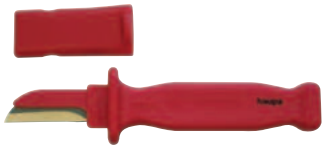
Cable knife VDE

with a curved blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Sector cable

Art. no.	BL	kg	PU
200004	35	0,087	1

Cable knife VDE

with a straight, partially-insulated, strong blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** To prevent short circuiting



Art. no.	BL	kg	PU
200005	40	0,106	1

Cable knife VDE

with a straight, partially-insulated, strong blade, replaceable, handles made from tough elastic, impact proof plastic, replaceable blades, fixed blade guard. **Application:** To prevent short circuiting

Art. no.	BL	kg	PU
201010 ✸	50	0,067	1

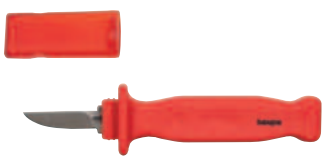
Replacement blades, 4-pcs.

suitable for article 201010

Art. no.	BL	kg	PU
201012	50	0,087	1

Cable stripping knife VDE

with curved, strong blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Rubberised insulation types



Art. no.	BL	kg	PU
200009	50	0,094	1

Cable stripping knife VDE

Blade with a slim, straight blade for fine tasks, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Phases

Art. no.	BL	kg	PU
200013	50	0,094	1

T-Handle socket wrenches 1000 V

chrome vanadium steel, full insulated, for hexagon nuts, DIN 7440, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	BL	handle	kg	PU
110000	**10**	200	160	0,300	1
110002	**11**	200	160	0,315	1
110004	**12**	200	160	0,320	1
110006	**13**	200	160	0,320	1
110008	**14**	200	160	0,426	1
110010	**17**	200	160	0,401	1
110012	**19**	200	160	0,430	1
110022	**11**	300	160	0,429	1
110024	**12**	300	160	0,375	1
110026	**13**	300	160	0,417	1
110028	**14**	300	160	0,425	1
110030	**17**	300	160	0,530	1
110032	**19**	300	160	0,556	1
110034	**22**	300	160	0,662	1
110036	**24**	300	160	0,990	1

Cross type socket wrenches 1000 V

chrome vanadium steel, no contact with steel insert, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	BL	kg	PU
110070	**10-11-14-17**	200	0,451	1
110074	**11-12-13-17**	200	0,225	1
110076	**10-13-14-17**	200	0,455	1
110078	**11-13-14-17**	200	0,449	1
110080	**13-17-19-22**	200	0,502	1

Counter hold spanners 1000 V

chrome vanadium steel (31 CrV 3), 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	↔	kg	PU
110081	**10**	200	0,118	1
110083	**12**	200	0,120	1
110084	**13**	200	0,171	1
110085	**14**	250	0,150	1
110087	**16**	260	0,249	1
110089	**17**	270	0,255	1
110091	**18**	265	0,250	1
110093	**19**	270	0,275	1
110095	**20**	275	0,300	1
110097	**22**	275	0,300	1
110099	**24**	270	0,350	1

Right angle allen keys 1000 V

chrome vanadium steel, for hexagon socket screws, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	kg	PU
110042	**3**	0,016	1
110044	**4**	0,029	1
110046	**5**	0,045	1
110048	**6**	0,051	1
110050	**8**	0,103	1
110052	**10**	0,222	1
110054	**12**	0,352	1

T-handle allen keys 1000 V

chrome vanadium steel, for screws with hexagon inserts, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	kg	PU
110060	**5**	0,222	1
110062	**6**	0,227	1
110064	**8**	0,224	1

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Single ended spanners 1000 V

chrome vanadium steel, full insulated, offset at 15°, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	⟷	strength	kg	PU
110260	**6**	75	3	0,021	1
110262	**7**	80	3,5	0,021	1
110264	**8**	85	3,5	0,032	1
110266	**9**	100	4	0,035	1
110268	**10**	120	5	0,037	1
110270	**11**	130	5,5	0,044	1
110272	**12**	140	5,5	0,064	1
110274	**13**	155	6	0,061	1
110276	**14**	170	6	0,084	1
110278	**17**	185	6,5	0,121	1
110280	**19**	210	7,5	0,140	1
110282	**22**	230	8,5	0,215	1
110284	**24**	250	9,5	0,247	1
110286	**27**	290	11,5	0,272	1
110288	**30**	345	13	0,390	1
110290	**32**	350	15	0,503	1

Single ended tool set acc. to VDE 1000 V

in tool wallet of black imitation leather. **Content:** 8 single ended tools of chrom vanadium steel, offset at 15°, 2-coloured coating-insulation - inside yellow/outside red.

Populated with:
- Size of key 10, 11, 12, 13, 14, 17, 19, 22

1000 V IEC 60900

Art. no.	**set**	empty	kg	PU
220017	**8**	220002	1,181	1

Ring spanners 1000 V

chrome vanadium steel, full insulated, offset at 75°, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	⟷	kg	PU
110300	**6**	140	0,058	1
110302	**7**	140	0,055	1
110304	**8**	150	0,070	1
110306	**9**	155	0,090	1
110308	**10**	160	0,089	1
110310	**11**	170	0,085	1
110312	**12**	180	0,120	1
110314	**13**	195	0,125	1
110316	**14**	205	0,152	1
110318	**17**	240	0,186	1
110320	**19**	260	0,267	1
110322	**22**	280	0,284	1
110324	**24**	280	0,382	1

Ratchet ring spanners 1000 V

full insulated, 2-coloured coating-insulation - inside yellow/outside red

72 sprockets

1000 V IEC 60900

Art. no.	⬡	kg	PU
110870	**8**	0,032	1
110872	**9**	0,040	1
110874	**10**	0,050	1
110876	**11**	0,059	1
110878	**12**	0,065	1
110880	**13**	0,076	1
110882	**14**	0,086	1
110884	**15**	0,105	1
110886	**16**	0,130	1
110888	**17**	0,161	1
110890	**18**	0,179	1
110892	**19**	0,215	1

Adjustable wrenches to DIN 3117 A 1000 V

steel forged, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	⟷	kg	PU
110555	**26**	200	0,325	1
110556	**31**	250	0,512	1
110557	**36**	300	0,809	1

Reversible ratchets, torque wrenches, extensions 1/4"

Reversible ratchet VDE

1/4"

full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	drive	⟷	kg	PU
220577	1/4"	150	0,300	1

Socket T-wrench VDE

1/4"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	drive	⟷	kg	PU
220578	1/4"	125	0,241	1

Extensions VDE

1/4"

with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	drive	⟷	kg	PU
220579	1/4"	100	0,150	1
220580	1/4"	150	0,250	1

Hexagon sockets VDE

1/4"

1/4" square drive, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	↕⬡	drive	⟷	kg	PU
220581	**5**	1/4"	40	0,027	1
220582	**6**	1/4"	40	0,027	1
220583	**7**	1/4"	40	0,029	1
220584	**8**	1/4"	40	0,032	1
220585	**9**	1/4"	40	0,035	1
220586	**10**	1/4"	40	0,047	1
220587	**11**	1/4"	40	0,051	1
220588	**12**	1/4"	40	0,063	1
220589	**13**	1/4"	40	0,036	1
220590	**14**	1/4"	40	0,040	1

Fittings for hexagon socket screws VDE

1/4"

1/4" square drive, made of chrome vanadium steel, forged, oil hardened, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	↕⬡	drive	⟷	kg	PU
220591	**3**	1/4"	55	0,041	1
220592	**4**	1/4"	55	0,042	1
220593	**5**	1/4"	55	0,042	1
220594	**6**	1/4"	55	0,042	1

Tool case VDE 1/4"

1/4"

made of plastic, complete with 1/4" tools. The plastic material used for socket sets is guaranteed to pass –40°c impact tests. This quarantee that the insulation value will not be compromised due to impact. Dimension: 286 x 255 x 54 mm.

PREMIUM

Content:

- Reversible ratchet 150 mm, 1/4"
- T-slip-on-keys 125 mm, 1/4"
- Extension 100 and 150 mm, 1/4"
- Sockets 1/4", 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm
- Dies for hexagon srews 1/4", 3, 4, 5, 6 mm

1000 V IEC 60900

VIDEO 220576

Art. no.	set	drive	kg	PU
220576 ✷	**18**	1/4"	1,250	1

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Reversible ratchets, torque wrenches, extensions 1/4"

Reversible ratchet 1000 V

1/4"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	drive	↔	kg	PU
110810	1/4"	135	0,122	1

Torque wrench 1000 V

TQ 1/4"

reversible ratchet system, fully insulated, 2-coloured coating-insulation - inside yellow/outside red

PREMIUM

TQ

1000 V IEC 60900

Art. no.	drive	Nm	↔	kg	PU
110812	1/4"	2 - 12	200	0,250	1
110813	1/4"	5 - 25	200	0,420	1

Socket T-wrench 1000 V

1/4"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	drive	↔	kg	PU
110818	1/4"	115	0,156	1

Extensions 1000 V

1/4"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

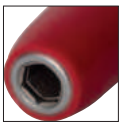
1000 V IEC 60900

Art. no.	drive	↔	kg	PU
110814	1/4"	75	0,043	1
110816	1/4"	150	0,054	1

Bitholding adapter 1000 V 1/4"

1/4"

1/4“ x 40, for torque spanner 110812, 110813 and reversible ratchet 110810, fully insulated, 2-colour dipped insulation - red outside/yellow inside



1000 V IEC 60900

Art. no.	bit adapter	drive	↔	kg	PU
110860	1/4"	1/4"	40	0,023	1

Hexagon sockets 1000 V

1/4"

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	↕⬡	↔	drive	kg	PU
110820	**5**	25	1/4"	0,012	1
110822	**6**	25	1/4"	0,012	1
110824	**7**	25	1/4"	0,014	1
110826	**8**	25	1/4"	0,011	1
110828	**9**	25	1/4"	0,016	1
110830	**10**	25	1/4"	0,014	1
110832	**11**	25	1/4"	0,020	1
110834	**12**	25	1/4"	0,021	1
110836	**13**	25	1/4"	0,021	1
110838	**14**	25	1/4"	0,034	1

Inserts for hexagon socket screws 1000 V

1/4"

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	↕⬡	drive	kg	PU
110840	**3**	1/4"	0,010	1
110842	**4**	1/4"	0,014	1
110844	**5**	1/4"	0,014	1
110846	**6**	1/4"	0,015	1
110848	**8**	1/4"	0,021	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✱ Bestseller PREMIUM Premium product

Handles with bit adapter 1000 V

1/4"

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	bit adapter	drive	⟷	kg	PU
110864	1/4"	1/4"	120	0,160	1
110866	1/4"	1/4"	160	0,248	1
110868	1/4"	1/4"	250	0,310	1

Tool case for household connections 1000 V

TQ 1/4"

Plastic case with foam insert, with 1/4“ insert tools. Dimensions: 450 x 340 x 100 mm.

Content:
- 1 torque wrench 1/4“ 5 - 25 Nm
- 3 extensions 1/4“ 75 - 100 - 150 mm
- 2 bit holders 1/4“ DIN 3126/FORM C 6,3
- 5 inserts 1/4“ 6, 8, 10, 13, 14
- 10 hexagonal bits 5, 6, 8
- Slots 4, 5.5, 6.5
- PZ/FL 1, 2
- PH 1, 2

TQ

1000 V IEC 60900

Art. no.	**set**	drive	kg	PU
110869	**21**	1/4"	1,000	1

Tool case 1000 V

1/4"

Plastic case with foam insert, with 1/4“ insert tools. Dimensions: 450 x 340 x 100 mm.

Content:
- 1 ratchet 1/4“
- 1 bit holder 1/4“
- 1 T-fitting 1/4“
- 4 extensions 1/4“
- 10 inserts 1/4“, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
- 5 hexagonal inserts 1/4“ 3, 4, 5, 6, 8

1000 V IEC 60900

Art. no.	**set**	drive	kg	PU
110871	**22**	1/4"	1,600	1

Reversible ratchets, torque wrenches, extensions, 3/8"

Reversible ratchet VDE

3/8"

full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	drive		kg	PU
220410	3/8"	200	0,300	1

Torque wrenches 1000 V

TQ 3/8"

10 - 50 Nm, full insulated, from shock-resistant plastic. The achievement of the set torque is made noticeable by a clearly audible or tactile mechanism.

PREMIUM

TQ

1000 V IEC 60900

360° 220415

10-50 Nm TQ

1000 V 3/8"

Art. no.	drive		Nm	kg	PU
220415	3/8"	390	10 - 50	0,950	1

Socket T-wrench VDE

3/8"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	drive		kg	PU
220412	3/8"	200	0,241	1

Extensions VDE

3/8"

with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	drive		kg	PU
220414	3/8"	125	0,150	1
220416	3/8"	250	0,250	1

Hexagon sockets VDE

3/8"

3/8“ square drive, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.		drive		kg	PU
220418	**8**	3/8"	44,5	0,027	1
220420	**10**	3/8"	44,5	0,027	1
220422	**12**	3/8"	44,5	0,029	1
220424	**13**	3/8"	44,5	0,032	1
220426	**14**	3/8"	44,5	0,035	1
220428	**17**	3/8"	44,5	0,047	1
220430	**19**	3/8"	46	0,051	1
220432	**22**	3/8"	46	0,063	1

Hexagon sockets 1000 V, 80 mm

3/8"

3/8“ square drive, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.		drive		kg	PU
220418/80	**8**	3/8"	80	0,052	1
220420/80	**10**	3/8"	80	0,060	1
220422/80	**12**	3/8"	80	0,068	1
220424/80	**13**	3/8"	80	0,074	1
220426/80	**14**	3/8"	80	0,076	1
220428/80	**17**	3/8"	80	0,096	1
220430/80	**19**	3/8"	80	0,110	1

Fittings for hexagon socket screws VDE

3/8"

3/8“ square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.		drive		kg	PU
220434	**4**	3/8"	60	0,036	1
220436	**5**	3/8"	60	0,040	1
220438	**6**	3/8"	60	0,041	1
220440	**8**	3/8"	60	0,042	1
220353	**10**	3/8"	60	0,052	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller

Premium product

Reversible ratchets, torque wrenches, extensions, 3/8"

Fittings for hexagon socket screws 1000 V, 122 mm

3/8“ square drive, made of chrome vanadium steel, forged, oil hardened, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	⬡	drive	⟷	kg	PU
220434/122	**4**	3/8"	122	0,0055	1
220436/122	**5**	3/8"	122	0,056	1
220438/122	**6**	3/8"	122	0,056	1
220440/122	**8**	3/8"	122	0,072	1
220353/122	**10**	3/8"	122	0,094	1

VDE-sockets 3/8", XZN

3/8“ square drive, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	⬡	drive	⟷	kg	PU
220357/8	**8**	3/8"	100	0,087	1
220357/10	**10**	3/8"	100	0,091	1
220357/12	**12**	3/8"	100	0,101	1

Tool case VDE 3/8"

made of plastic, complete with 3/8“ tools. The plastic material used for socket sets is guaranteed to pass –40°c impact tests. This quarantee that the insulation value will not be compromised due to impact. Dimension: 286 x 255 x 54 mm.

Content:

- Reversible ratchet 200 mm, 3/8“
- T-slip-on-keys 200 mm, 3/8“
- Extension 150 and 250 mm, 3/8“
- Sockets 3/8“, 8, 10, 12, 13, 14, 17, 19, 22 mm
- Dies for hexagon srews 3/8“, 4, 5, 6, 8 mm

1000 V IEC 60900

VIDEO 220402

Art. no.	**set**	drive	kg	PU
220402 ✷	**16**	3/8"	2,500	1

Reversible ratchets, torque wrenches, extensions, 3/8"

Reversible ratchet 1000 V

3/8"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	drive	⟷	kg	PU
110331/EN	3/8"	190	0,402	1

Locked torque wrench 1000 V

TQ 3/8"

reversible ratchet system, fixed factory-provided valve, possible valve between 5-27 Nm, valve must be indicate before delivery, full insulated, 2-coloured coating-insulation - inside yellow/outside red.
Torque must be specified when ordering!

PREMIUM

TQ

1000 V IEC 60900

Art. no.	drive	Nm	⟷	kg	PU
300310/EN	3/8"	5 - 27	280	0,951	1

Torque wrenches 1000 V

TQ 3/8"

reversible ratchet system, fully insulated, 2-coloured coating-insulation - inside yellow/outside red

PREMIUM

TQ

1000 V IEC 60900

Art. no.	drive	⟷	Nm	kg	PU
110055/EN	3/8"	200	5 - 25	0,350	1
110056/EN	3/8"	280	5 - 25	0,920	1
110065/EN	3/8"	370	5 - 50	1,194	1

Torque T key 1000 V

TQ 3/8"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	drive	Nm	⟷	kg	PU
110071	3/8"	12	150	0,540	1
110073	3/8"	18	150	0,540	1
110075	3/8"	25	150	0,540	1

Torque stoppers 1000 V

TQ 3/8"

with short extension, locable for all sockets with 3/8“ drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	drive	Nm	kg	PU
110456/EN	3/8"	-12	0,220	1
110457/EN	3/8"	-18	0,220	1
110458/EN	3/8"	-25	0,224	1

Socket T-wrench 1000 V

3/8"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	drive	BL	handle	kg	PU
110039/EN	3/8"	200	160	0,369	1

Extensions 1000 V

3/8"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	drive	⟷	kg	PU
110337/EN	3/8"	125	0,292	1
110335/EN	3/8"	250	0,280	1

Extensions with bit adapter 1000 V

3/8"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	bit adapter	drive	⟷	kg	PU
110861	1/4"	3/8"	125	0,137	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Hexagon sockets 1000 V

3/8“ square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	drive	⟷	kg	PU
110363/EN	**8**	3/8"	40	0,035	1
110364/EN	**9**	3/8"	40	0,032	1
110365/EN	**10**	3/8"	40	0,031	1
110366/EN	**11**	3/8"	40	0,037	1
110367/EN	**13**	3/8"	40	0,032	1
110368/EN	**17**	3/8"	40	0,050	1
110369/EN	**19**	3/8"	40	0,060	1
110371/EN	**14**	3/8"	40	0,070	1
110700/EN	**12**	3/8"	40	0,070	1
110702/EN	**22**	3/8"	40	0,061	1

Hexagon sockets 1000 V, extra long

3/8“ square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	drive	⟷	kg	PU
110710	**10**	3/8"	125	1,051	1
110712	**12**	3/8"	125	1,051	1
110713	**13**	3/8"	125	1,051	1
110714	**14**	3/8"	125	1,051	1
110715	**17**	3/8"	125	1,051	1
110716	**19**	3/8"	125	1,051	1
110717	**22**	3/8"	125	0,035	1

Fittings for hexagon socket screws 1000 V

3/8“ square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	drive	⟷	kg	PU
300302/EN	**4**	3/8"	65	0,068	1
300296/EN	**5**	3/8"	65	0,065	1
300298/EN	**6**	3/8"	65	0,068	1
300299/EN	**8**	3/8"	65	0,070	1
300305/EN	**10**	3/8"	65	0,082	1

Tool case 1000 V

made of plastic, complete with 3/8“ tools. Dimension: 450 x 340 x 100 mm.

Content:

- Reversible ratchet 3/8“
- Extension 125 mm, 3/8“
- Extension 250 mm, 3/8“
- T-slip-on-keys 3/8“
- Sockets 3/8“ (10, 11, 12, 13, 14, 17, 19, 22 mm)
- Dies for hexagon srews 3/8“, 5, 6, 8 mm
- Torque stopper (12 to 25 Nm)
- 2C-VDE screwdriver 3,5 x 100 mm

with locking system

1000 V IEC 60900

Art. no.	**set**	drive	kg	PU
220147	**17**	3/8"	3,400	1

Reversible ratchets, torque wrenches, extensions, 3/8"

Tool case 1000 V

3/8"

made of plastic, complete with 3/8“ tools. Dimension: 400 x 290 x 110 mm.

Content:
- Reversible ratchet 3/8“
- Extension 125 mm, 3/8“
- Extension 250 mm, 3/8“
- T-slip-on-keys 3/8“
- Sockets 3/8“, 8, 10, 13, 17, 19 mm
- Dies for hexagon srews 3/8“, 4, 5, 6, 8 mm

without locking system

1000 V IEC 60900

Art. no.	set	drive	kg	PU
220212	**13**	3/8"	2,500	1

Tool case 1000 V

TQ 3/8"

Plastic case with foam insert, with 3/8“ insert tools. Dimensions: 400 x 290 x 110 mm.

PREMIUM

Content:
- 1 torque wrench 3/8“ 5-50 Nm
- 2 extensions 3/8“ 125/250 mm
- 5 inserts, extra deep in the sizes 10, 13, 14, 17, 19 mm
- 5 inserts for hexagonal screws 3/8“ in 4, 5, 6, 8, 10 mm
- Alignment tool for sector-shaped conductors 3/8“ in 95-150 mm

TQ

1000 V IEC 60900

Art. no.	set	drive	kg	PU
110873	**14**	3/8"	3,870	1

Reversible ratchets, torque wrenches, extensions, 1/2"

Reversible ratchet VDE

1/2"

full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	drive		kg	PU
220450	1/2"	250	0,550	1

Socket T-wrench VDE

1/2"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	drive		kg	PU
220452	1/2"	200	0,330	1

Extensions VDE

1/2"

with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	drive		kg	PU
220454	1/2"	125	0,208	1
220456	1/2"	250	0,411	1

Hexagon sockets VDE

1/2"

1/2“ square drive, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.		drive		kg	PU
220458	**10**	1/2"	55	0,055	1
220460	**11**	1/2"	55	0,055	1
220462	**12**	1/2"	55	0,058	1
220464	**13**	1/2"	55	0,058	1
220466	**14**	1/2"	55	0,061	1
220468	**17**	1/2"	55	0,069	1
220470	**19**	1/2"	57	0,072	1
220478	**22**	1/2"	57	0,087	1
220480	**24**	1/2"	57	0,095	1
220482	**27**	1/2"	57	0,125	1
220484	**32**	1/2"	57	0,170	1

Fittings for hexagon socket screws VDE

1/2“ square drive, made of chrome vanadium steel, forged, oil hardened, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	⬡	drive	⟷	kg	PU
220486	**4**	1/2"	120	0,113	1
220488	**5**	1/2"	120	0,113	1
220490	**6**	1/2"	120	0,113	1
220492	**8**	1/2"	120	0,115	1
220494	**10**	1/2"	120	0,134	1

Tool case VDE 1/2"

made of plastic, complete with 1/2“ tools. The plastic material used for socket sets is guaranteed to pass –40°c impact tests. This quarantee that the insulation value will not be compromised due to impact. Dimension: 380 x 316 x 61 mm.

Content:
- Reversible ratchet 250 mm, 1/2“
- T-slip-on-keys 200 mm, 1/2“
- Extension 125 and 250 mm, 1/2“
- Sockets 1/2“, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 32 mm
- Dies for hexagon srews 1/2“, 4, 5, 6, 8, 10 mm

1000 V IEC 60900

VIDEO 220404

Art. no.	set	drive	kg	PU
220404 ✷	**20**	1/2"	4,000	1

SysCon S VDE-Socket 1/2"

complete with 1/2“ tools. The plastic material used for socket sets is guaranteed to pass –40°c impact tests. This quarantee that the insulation value will not be compromised due to impact.

Content:
1 220370 ABS plastic box SysCon S

- Reversible ratchet 250 mm, 1/2“
- T-slip-on-keys 200 mm, 1/2“
- Extension 125 and 250 mm, 1/2“
- Sockets 1/2“, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 32 mm
- Dies for hexagon srews 1/2“, 4, 5, 6, 8, 10 mm

1000 V IEC 60900

Art. no.	set	⬡	drive	empty	kg	PU
220612	**20**	10 - 32	1/2"	220370	4,300	1

Reversible ratchets, torque wrenches, extensions, 1/2"

Reversible ratchet 1000 V

1/2"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	drive	⟷	kg	PU
110332/EN	1/2"	255	0,687	1

Locked torque wrench 1000 V

TQ 1/2"

reversible ratchet system, fixed factory-provided valve, possible valve between 5-27 Nm, valve must be indicate before delivery, full insulated, 2-coloured coating-insulation - inside yellow/outside red.
Torque must be specified when ordering!

PREMIUM

TQ

1000 V IEC 60900

Art. no.	drive	Nm	⟷	kg	PU
300312/EN	1/2"	5 - 27	280	1,052	1

Torque wrenches 1000 V

TQ 1/2"

reversible ratchet system, fully insulated, 2-coloured coating-insulation - inside yellow/outside red

PREMIUM

TQ

1000 V IEC 60900

Art. no.	drive	torque	⟷	kg	PU
110058/EN	1/2"	2 - 27	280	1,035	1
110066/EN	1/2"	5 - 50	370	1,121	1
110067/EN	1/2"	20 - 100	460	1,493	1
110068/EN	1/2"	60 - 220	530	1,300	1

Socket T-wrench 1000 V

1/2"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	handle	BL	drive	⬡	kg	PU
110040/EN	160	200	1/2"	**12,5**	0,452	1

Extensions 1000 V

1/2"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	drive	⟷	kg	PU
110336/EN	1/2"	125	0,197	1
110338/EN	1/2"	250	0,389	1

Extensions with bit adapter 1000 V

1/2"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	bit adapter	drive	⟷	kg	PU
110862	1/4"	1/2"	250	0,165	1

Hexagon sockets 1000 V, 50 mm

1/2"

1/2“ square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	drive	⟷	kg	PU
110339/EN	**8**	1/2"	50	0,080	1
110340/EN	**10**	1/2"	50	0,056	1
110342/EN	**11**	1/2"	50	0,062	1
110344/EN	**12**	1/2"	50	0,062	1
110346/EN	**13**	1/2"	50	0,066	1
110348/EN	**14**	1/2"	50	0,063	1
110350/EN	**17**	1/2"	50	0,076	1
110352/EN	**19**	1/2"	50	0,072	1
110354/EN	**22**	1/2"	50	0,104	1
110356/EN	**24**	1/2"	50	0,141	1
110358/EN	**27**	1/2"	50	0,191	1
110360/EN	**30**	1/2"	50	0,224	1
110362/EN	**32**	1/2"	50	0,268	1

Hexagon sockets DIN 7448, 1000 V, 80 mm

1/2"

extra long, 1/2“ square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	drive	⟷	kg	PU
110373/EN	**10**	1/2"	80	0,085	1
110374/EN	**11**	1/2"	80	0,110	1
110375/EN	**13**	1/2"	80	0,123	1
110376/EN	**14**	1/2"	80	0,119	1
110377/EN	**17**	1/2"	80	0,157	1
110378/EN	**19**	1/2"	80	0,168	1
110379/EN	**22**	1/2"	80	0,230	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Hexagon sockets 1000 V, 125 mm

1/2"

extra long, 1/2“ square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	drive	⟷	kg	PU
110346/125	**13**	1/2"	125	0,250	1
110348/125	**14**	1/2"	125	0,260	1
110350/125	**17**	1/2"	125	0,280	1
110352/125	**19**	1/2"	125	0,295	1
110354/125	**22**	1/2"	125	0,310	1
110356/125	**24**	1/2"	125	0,330	1
110358/125	**27**	1/2"	125	0,350	1
110360/125	**30**	1/2"	125	0,380	1

Hexagon sockets 1000 V, 250 mm

1/2"

extra long, 1/2“ square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	drive	⟷	kg	PU
110346/250	**13**	1/2"	250	0,485	1
110348/250	**14**	1/2"	250	0,500	1
110350/250	**17**	1/2"	250	0,530	1
110352/250	**19**	1/2"	250	0,530	1
110354/250	**22**	1/2"	250	0,580	1
110356/250	**24**	1/2"	250	0,605	1
110358/250	**27**	1/2"	250	0,635	1
110360/250	**30**	1/2"	250	0,660	1
110362/250	**32**	1/2"	250	0,670	1

Fittings for hexagon socket screws 1000 V

1/2"

1/2“ square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	⬡	drive	⟷	kg	PU
300294/EN	**4**	1/2"	70	0,094	1
300297/EN	**5**	1/2"	70	0,096	1
300295/EN	**6**	1/2"	70	0,101	1
300303/EN	**8**	1/2"	70	0,100	1
300306/EN	**10**	1/2"	70	0,106	1

Tool case 1000 V

1/2"

made of plastic, complete with 1/2“ tools. Dimension: 450 x 340 x 100 mm.

Content:
- Reversible ratchet 1/2“
- Extension 125 mm, 1/2“
- Extension 250 mm, 1/2“
- Slip-on-keys 1/2“
- Hexagon sockets 1/2“, 10, 12, 13, 14, 17, 19, 22, 24 mm
- Dies for hexagon srews 1/2“, 5, 6, 8 mm
- 2C-VDE screwdriver 3,5 x 100 mm

with locking system

1000 V IEC 60900

Art. no.	**set**	drive	kg	PU
220205/EN	**16**	1/2"	4,080	1

Tool case Biber 1000 V

1/2"

made of plastic, complete with 26 security tools. Dimension: 450 x 340 x 100 mm.

Content:
- 2C-VDE electrician‘s screwdrivers 4 x 100, 5,5 x 125, 6,5 x 150, 8 x 175 mm
- VDE combination pliers 200 mm
- VDE side cutters 180 mm
- VDE telephone pliers, straight, 200 mm
- Reversible ratchet 1/2“
- Extension 250 mm, 1/2“
- Hexagon sockets 1/2“, 10, 11, 12, 13, 14, 17, 19 mm
- Open end spanners 10, 11, 12, 13, 14, 17, 19 mm
- 2-pole voltage tester
- Cable knife
- Cable stripping knife

with locking system

1000 V IEC 60900

Art. no.	**set**	drive	kg	PU
220146	**26**	1/2"	5,000	1

Alignment tool, 3/8“ 1000 V

3/8“

3/8“ drive, for the alignment of 3 or 4-wire sector conductors, made from impact-resistant plastic

Art. no.	size	kg	PU
110704	95 - 150	0,068	1
110705	185 - 240	0,088	1

Universal alignment tool 1000 V

for aligning sector-shaped conductors from 50, 70, 95, 150, 185 and 240 mm²

1000 V IEC 60900

Art. no.	kg	PU
110709	1,051	1

Counter holder 1000 V

for the easier handling of screwed connections when assembling coupling sleeves, variably adjustable

1000 V IEC 60900

Art. no.	↕⬡	↕⬡	↔	kg	PU
120101	**0**	15	240	0,680	1
120103	**15**	40	220	0,424	1
120104	**25**	50	300	0,680	1

Plastic wedges 1000 V

with bright slot for all common cable cutters, oval form without sharp edges

1000 V IEC 60900

Art. no.	material	↔	width	kg	PU
120102	plastic	225	45	0,234	1

Plastic wedges 1000 V

without slot, oval form without sharp edges, long version with large head

1000 V IEC 60900

Art. no.	material	↔	width	kg	PU
120100	plastic	200	25	0,085	1

Plastic wedges 1000 V

made of plastic without groove, dimensions: 16.3 x 3.7 mm

1000 V IEC 60900

Art. no.	material	type	kg	PU
120094	plastic	without	0,051	1

Cleaning brushes Safety Line

PVC-pattern

Art. no.	↔	width	kg	PU
150036	420	25	0,053	1
150037	420	28	0,061	1
150038	420	50	0,100	1

Electrician's safety levels

nonconducting plastic material, with 2 tubes horizontal and vertical

Art. no.	↔	kg	PU
240057	400	0,188	1
240058	600	0,274	1

PVC hammer 1000 V

Bounce-free, head of polyethylen, break-, wear- and splinter-proof, heads interchangeable

1000 V IEC 60900

Art. no.	↔	Ø	kg	PU
180295	290	25	0,570	1
180297	290	35	0,825	1

Combined dowel and contact spanners

may be used for screws 2 - 63 A by changing the insert, handle made from insulating material

Art. no.	↔	kg	PU
120002 ✸	105	0,046	1

Insulated tweezers VDE 1000 V

austenitic steel, pointed, PVC-insulated

1000 V IEC 60900

Art. no.	↔	kg	PU
211060	130	0,029	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller

Premium product

Insulated tweezers VDE 1000 V

austenitic steel, pointed round, bent, PVC-insulated

1000 V IEC 60900

Art. no.	⟷	kg	PU
211062	150	0,031	1

Insulated tweezers VDE 1000 V

austenitic steel, wide round, flat, PVC-insulated

1000 V IEC 60900

Art. no.	⟷	kg	PU
211064	145	0,042	1

Voltage testers

haupa®

... convincing solutions

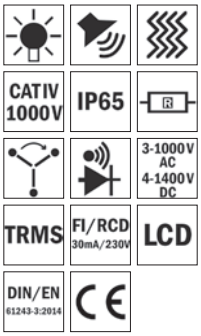
Voltage tester Profi LCDplus II

The Profi LCDplus II is the new top model in our tried and tested professional series. The innovative two-pole voltage tester is characterised by a wide performance spectrum and practical one-handed operation. Thanks to the highest safety level CAT IV 1000 V, it is now also ideal for taking measurements on hybrid and electric vehicles, and also photovoltaic systems.

Functions and benefits

- Highest CAT IV 1000 V safety level
- Large, illuminated LCD
- Voltage display up to 1000 V AC and 1400 V DC
- Resistance measurement up to 1999 Ω
- Frequency display up to 1000 Hz

Technical data	Profi LCDplus II
Display:	Optical, LCD
Measuring range:	Automatic
Over-voltage category:	CAT IV 1,000 V
Dimensions:	300 x 75 x 20 mm
Weight:	270 g
Colour:	Red/black
Scope of delivery:	Including batteries
Accessories (optional):	Carry bag
Voltage range:	3–1000 V AC (TRMS/RMS) 4–1400 V DC
Throughput check:	0–200 Ω with acoustic signal
Phase display:	> 100 V AC
Voltage supply:	2 x 1.5 V AAA (display of voltages is possible even without batteries)
Polarity:	Yes (- in LCD)
PELV display:	Optical and vibrating
Protection class:	IP 65
Standard:	EN 61243-3:2014
Resistance measurement:	1–1999 Ω
Frequency measurement:	0-500 Hz
Data-hold:	Voltage and resistance
Automatic power off function:	Yes
FI/RCD test:	30 mA at 230 V AC using two buttons
Single-pole phase test:	Yes
Two-pole phase-sequence test:	Yes
Illumination of measuring point:	White LED
4-mm test tip adapter:	Can be unscrewed
Guarantee:	2 years



Art. no.	TMA	⟷	kg	PU
103826	3 - 1000	300	0,600	1

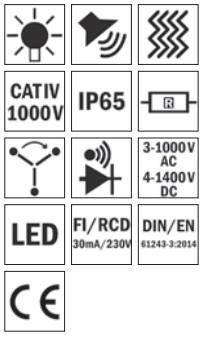
Voltage tester Profi LEDplus II

The new two-pole voltage tester Profi LEDplus II is the result of consistent further development of our popular Profi LEDplus. It is characterised by user-friendly handling, robust and safe construction and meets all the requirements a specialist user makes of the modern voltage tester. Thanks to the highest safety level, CAT IV 1000 V, it is also suitable for measurements on hybrid and electrical vehicles as well as photovoltaic systems.

Functions and benefits

- Highest CAT IV 1000 V safety level
- Practical one-handed operation
- Robust, safe construction format
- Display on voltages even without battery

Technical data	Profi LEDplus II
Display:	Optical, LEDs
Measuring range:	Automatic
Over-voltage category:	CAT IV 1,000 V
Dimensions:	300 x 75 x 20 mm
Weight:	270 g
Colour:	Red/black
Scope of delivery:	Including batteries
Accessories (optional):	Carry bag
Voltage range:	6–1000 V AC 6–1400 V DC
Throughput check:	0–50 kΩ optical/acoustic
Phase display:	> 100 V AC
Voltage supply:	2 x 1.5 V AAA (display of voltages is possible even without batteries)
Diode test:	Yes
Polarity:	Yes (+,- LED)
PELV display:	Optical and vibrating
Protection class:	IP 65
Standard:	EN 61243-3:2014
Automatic power off function:	Yes
FI/RCD test:	30 mA at 230 V AC using two buttons
Single-pole phase test:	Yes
Two-pole phase-sequence test:	Yes
Illumination of measuring point:	White LED
4-mm test tip adapter:	Can be unscrewed
Guarantee:	2 years



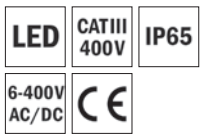
Art. no.	TMA	⟷	kg	PU
103824	6 - 1000	300	0,280	1

Voltage tester Basic +

The two-pole voltage tester reliably indicates direct and alternating voltages within a range of 6 to 400 V in 7 intervals per LED (6, 12, 24, 50, 120, 230 and 400). The electronics also enable the determination of polarity and the phase to protective conductor. The Basic + is characterised by a user-friendly construction and robust housing that ensures long operational life. The rubberised handles offer non-slip hold. The Basic + operates without batteries. It takes its operating voltage from the test object.

Functions and benefits
- User-friendly and robust
- Voltage range up to 400 V AC/DC
- Phase search to protective conductor

Technical data	**Basic +**
Display:	Optical, 8 LEDs
Over-voltage category:	CAT III 400 V
Dimensions:	120 x 60 x 30 mm
Weight:	100 g
Colour:	Red/black
Voltage range:	6 - 400 V AC/DC
Voltage supply:	Via measuring object
Polarity:	Yes (+,- LED)
Standard:	EN 61243-3:2010
Housing:	High quality plastic with rubberised handle area
Guarantee:	2 years



Art. no.	TMA	⟷	kg	PU
103800	6 - 400	210	0,097	1

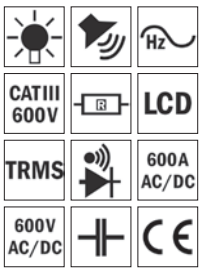
Multi Clamp II
digital miniature clamp transducer AC/DC 600 V

Thanks to the versatile measuring functions, the digital probe ampere meter Multi Clamp II may be used universally. Handy details, such as the large display, the manual or automatic measuring range selection and the measuring point illumination, make operation particularly convenient and safe.

Functions and benefits
- Large range of functions
- Easy to read LCD
- LED measuring point illumination

Technical data	**Multi Clamp II**
Display:	LCD with 4 digits
Over-voltage category:	CAT III 600 V
Dimensions:	220 x 75 x 35 mm
Weight:	340g
Colour:	Red/black
Scope of delivery:	Including measuring cables, batteries
Voltage supply:	3x 1.5V
Diode test:	Test current - 1 mA, test voltage - 3.3 V
Throughput test:	Throughput tone under 30Î©
Direct voltage:	600m, 6, 60, 600V
Direct current:	60A, 600A
Alternating voltage:	600mV, 6, 60, 600V, 40 to 400Hz
Alternating current:	60A, 600A, 40 to 400Hz
Alternating current accuracy:	±3.0 % +10 digit
Alternating current, highest resolution:	10 mA
Direct current, highest resolution:	10 mA
Alternating voltage accuracy:	±1.5 % +10 digit to 600 mV / ±1.2 % +5 digit to 60 V / ±1.5 %+10 digit to 600 V
Alternating voltage, highest resolution:	100 µV
Alternating voltage input resistance:	10 MΩ
Direct voltage accuracy:	±0.8 % +3 digit to 60 V / ±1.0 %V +5 digit to 600 V
Direct voltage, highest resolution:	100 µV
Direct voltage input resistance:	10 MΩ

Frequency measuring tongs: 600 Hz, 1 kHz, > 1 A AC rms
Frequency measuring tongs, accuracy: ±1.5 % +5 digit to 1 kHz
Frequency measuring tongs, highest resolution: 100 mHz
Frequency measuring socket: 600 Hz, 6 kHz, 10 kHz, > 0.2 V AC rms
Frequency measuring socket, accuracy: ±1.5 % +5 digit to 10 kHz
Frequency measuring socket, highest resolution: 100 mHz
Sampling rate: 10 to 95 %, ±3.0 %, > 1 A AC rms
Sampling rate, frequency range: 10 Hz to 1 kHz
Sampling rate, capacity measurement: To 60 mF
Resistance accuracy: ±1.2 % +2 digit to 6 MΩ
±2.0 % +5 digit to 60 MΩ
Resistance highest accuracy: 100 MΩ
Diode test resolution: 1 mV
Diode test throughput test: Throughput tone under 30 Ω
Guarantee: 2 years



Art. no.	kg	PU
103809	0,433	1

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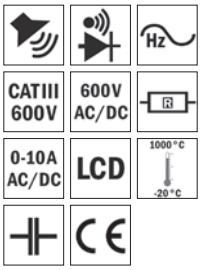
Multi Check III - digital high-capacity multimeter

The Multi Check III is particularly safe to use. Thanks to the automatic measuring range protection, it is impossible to operate incorrectly. In addition, the digital multimeter has an easy to read LC display with background illumination.

Functions and benefits
- Automatic measuring range protection
- Large LCD with background lighting
- Temperature measurement

Technical data	**Multi Check III**
Display:	40 mm large, illuminated LCD
Over-voltage category:	CAT III 600 V
Weight:	410 g incl. batteries
Delivery scope:	incl. measuring cables, temperature sensor and battery
Power supply:	2 x 1.5 V AA
Diode test:	Yes
Norm:	IEC/EN 61010-1, IEC/EN 61010-2-033
Dimensions:	183 x 95 x 50 mm
AC voltage:	600 mV, 6 V, 60 V, ±0.8 %, ±3 digits 600 V ±0.8 %, ±3 digits
AC current:	600 µA, 6000 µ A, ±1.5 %, ±3 digits 60 mA, 600 mA, ±1.5 %, ±3 digits 10 A ±3.0 %, ±10 digits
Operating temperature range:	0–40 °C (32–104 °F)
DC voltage:	600 mV, 6 V, 60 V, ±0.7 %, ±2 digits 600 V ±0.7 %, ±2 digits
DC current:	600 µA, 6000 µ A ±1.2 %, ±3 digits 60 mA, 600mA, ±1.2 %, ±3 digits 10 A ±2.0 %, ±10 digits
Continuity test:	Yes
Input impedance:	> 7.5 MΩ, type 10 MΩ (ACV & DCV)
Frequency measuring range:	10 Hz–10 MHz
Capacity measuring range:	60 nF, 600 nF, ±4.0 %, ±3 digits 6 µF, 60 µF, 600 µF, ±4.0 %, ±3 digits 6 mF, 60 mF, ±4.0 %, ±3 digits
Storage temperature range:	-10–50 °C (14–122 °F)
Maximum input voltage:	600 V AC/DC
Fuses:	600 mA (self-resetting); 10 A/690 V (fast)
Temperature measurement:	-20–1000°C with K-Type sensor
AC bandwidth:	50–400 Hz
Resistor:	600 Ω ±1,2 %, ±5 digits 6 kΩ, 60 kΩ, 600 k Ω, 6 MΩ ±1.2 %, ±5 digits 6 0 MΩ ±2.0 %, ±10 digits
Guarantee:	2 years



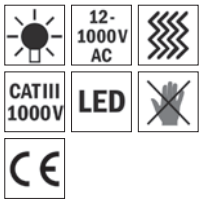
Art. no.	kg	PU
103815	0,433	1

Voltage tester TestPen Profi

The non-contact voltage tester TestPen Profi recognises current-carrying cables as of 12 V, including low-voltage systems. Invisible cable breaks in extension cords or a defect lamp in fairy lights can be localised to the centimetre in seconds thanks to the capacitive measuring procedure.

Functions and benefits
- Capacitive measuring procedure
- Measurements as of 12 V
- LED torch
- Vibrating display

Technical data	**TestPen Profi**
Display:	Optical and vibrating
Measuring range:	12–1000 V AC
Over-voltage category:	CAT III 1,000 V
Dimensions:	160 x 25 mm
Weight:	45 g
Colour:	Red
Scope of delivery:	Including batteries
Integrated LED torch:	Yes
Voltage supply:	2 x 1.5 V AAA Micro, LR03
Standard:	IEC/EN 61010-1 (DIN VDE 0411)
Housing:	Impact/break proof ABS plastic
Guarantee:	2 years



Art. no.	TMA	↔	kg	PU
103817	12 - 1000	140	0,190	1

Voltage tester VDE/GS

5 mm surrounding hand-protection, clip of insulating material, fixed installed scale with dark background

Art. no.	TMA	↔	kg	PU
100700 ✸	125 - 250	190	0,036	1

Personal protection equipment

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INFO

HUPsafteygloves - insulating gloves

Recommendation for use and maintenance
Insulating gloves are made of natural latex, which is very sensitive to light, heat and air.

- **Before each use:** Visually inspect the gloves and blow air into them to detect any air holes.
- **After use:** Clean and dry your gloves thoroughly.
- **Storage:** Keep the gloves away from heat, direct light and ozone.

In every case: The gloves must be visually inspected before every use for rips, cuts and holes!

ALWAYS:
- Determine the voltage with which you are working, to select the appropriate class (00 to 4).
- Wear insulating gloves that have been tested and approved.

Class	Alternating Current	Direct Current
00	500	750
0	1.000	1.500
1	7.500	11.250
2	17.000	25.500
3	26.500	39.700
4	36.000	54.000

Recommended maximum voltage according to IEC 60903
The nominal voltage corresponds to the phase-to-phase voltage in multi-phase circuits. The user can choose to use a different class of glove than the one recommended.

Typical direct current applications can be found in the rail and public transport sectors (the most dangerous situations are turning the power supply on and off).

HUPsafetyGloves – Insulating finger gloves according to DIN EN 60903

Insulating natural rubber gloves, for working voltages of 500, 1.000, 7.500, 17.000 to 26.500 Volt. The ergonomic shape of the glove and its slightly powdered interior makes it easy the donning and doffing. The natural rubber provides dielectric properties.

Note: The insulating gloves HUPsafetygloves must be stored in their original packaging in order to avoid damage to the product.

CE DIN EN 60903

Art. no.	Class	⟷	strength	size	kg	PU
120004	**00**	360	1,1	**9**	0,270	1
120005	**00**	360	1,1	**10**	0,293	1
120006 ✸	**0**	360	1,6	**9**	0,270	1
120007 ✸	**0**	360	1,6	**10**	0,400	1
120007/1	**0**	360	1,6	**11**	0,300	1
120006 561	**1**	360	2,1	**10**	0,646	1
120006 564 S	**2**	360	2,9	**10**	0,727	1
120006 587	**3**	360	3,5	**10**	0,947	1

HUPflashGloves - Insulating gloves that conform to DIN EN 60903, arc fault-tested

Three-in-one gloves that combine dielectric, mechanical and thermal (arc flash) resistance. Made of natural rubber with a special outer coating made of an orange-red high-performance elastomer, black inner coating and cutting edges, length 41 cm. For work voltages of 500, 1,000, 7,500, 17,000, 26,500 to 36,000 Volt. Category RC, with mechanical protection. Arc fault-tested: Box Text and ATPV. Specially profiled outer coating for a good grip even in wet or greasy conditions.

Norms: EN 60903 2003, IEC 60903 2014, PPE Category III (Reg EU 2016 425), IEC 61482-1-2 (arc fault protection), ASTM F 2675

USE: - Insulating composite gloves with integrated mechanical protection and arc fault protection.

Note: The insulating gloves HUPflashGloves must be stored in their original packaging in order to avoid damage to the product.

IEC 61482-1-2

CE DIN EN 60903

Art. no.	Class	⟷	strength	size	kg	PU
121020/9	**0**	410	2,9	**9**	0,510	1
121020/10	**0**	410	2,9	**10**	0,520	1
121020/11	**0**	410	2,9	**11**	0,530	1
121021/10	**1**	410	3,4	**10**	0,670	1
121022/10	**2**	410	3,9	**10**	0,770	1
121023/10	**3**	410	4,2	**10**	0,800	1
121024/10	**4**	410	4,8	**10**	0,940	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Glove tester

Pneumatic tester for electrician's protective gloves. **It is recommended to carry out a test of this nature before starting work.**

Art. no.	kg	PU
120109	0,800	1

Cotton gloves for putting underneath

short cotton gloves to wear with latex-gloves art. no. 120004 - 120007

Art. no.	↦	kg	PU
120003	275	0,041	1

Heat protection gloves acc. to EN 407

Inner glove for heat insulation according to EN 407, flame resistant, made from NOMEX III, heat insulation for contact and insulation against convective heat

CE

Art. no.	↦	kg	PU
120011	260	0,039	1

Outer gloves

for mechanical protection from insulated gloves for low voltages 2.5 kV and 5 kV. Made from cow-skin shagreen, water-repellent and silicone treated. Hoop and loop closure on the back of the hand. 150 mm length, sheath sewn on to the exterior. Leather thickness: Only 0.8 / 1.1 mm. Corresponds to the following standards: EN 420-94 General EEC criteria EN 388-94

CE

EN 388 2121

Art. no.	size	size	↦	strength	kg	PU
120028	L	10	300	0,8	0,070	1

Set with protective gloves EN 60903

Safety set, 4 pieces in storage bag, with name plate window, made from polyester (art. no. 220259)

PREMIUM

Content: 120006, 120028, 120003

Note: The insulating gloves HUPsafetygloves (art. no. 120006) must be stored in their original packaging in order to avoid damage to the product.

Art. no.	↦	set	kg	PU
120029	400	4	0,900	1

Set with protective gloves EN 60903 light

Safety set, 3 pieces in storage bag, with name plate window, made from polyester (art. no. 220259)

Content: 120006, 120003

Note: The insulating gloves HUPsafetygloves (art. no. 120006) must be stored in their original packaging in order to avoid damage to the product.

Art. no.	↦	set	kg	PU
120037	400	3	0,640	1

Safety fuse grips

with slip off protection and protection sleeve, for low voltage (NH) fuses class 00 - 3, protective sleeve made from smooth, impregnated leather

PREMIUM

1000 V | Class 0

Art. no.	kg	PU
120012 ✷	0,563	1

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Leather working glove

Ideal for medium severity work in the construction, warehousing and transportation sectors, PSE in accordance with category 1 of the directive 89/686/EEC

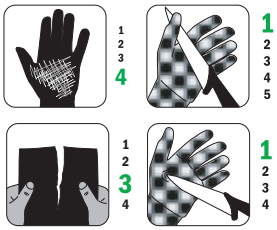
- Split pigskin leather: Heat and cold resistant, high abrasion resistance, good skin protection
- Back of hand made from cotton
- Canvas cuff
- Single size 10.5

Art. no.	size	size		kg	PU
120310	L	10,5	250	0,106	12

PU-Textile-Glove

Ideal for fine mechanical tasks and low mechanical loads.

- HPPE fibre
- Thin PU coating on palm and fingertips: Flexible and elastic, high abrasion resistance, safe grip
- Excellent fit, pleasant wearing comfort
- Area of use: Warehouse and assembly work, fine mechanical tasks



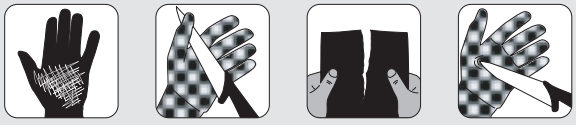
Art. no.	size	size		kg	PU
120300/6	XXS	6	250	0,027	12
120300/7	XS	7	250	0,027	12
120300/8	S	8	250	0,027	12
120300/9	M	9	250	0,027	12
120300/10	L	10	250	0,027	12
120300/11	XL	11	250	0,027	12

Our PU cut-protection gloves are used to protect against mechanical risks, in accordance with EN 388 and EN 420.

The „Hammer“ pictogram defines the performance level of the product.

Example:

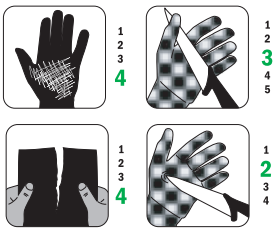
Abrasion resistance	→	4
Cut resistance	→	5
Tear propagation strength	→	4
Penetration resistance	→	4



PU cut-protection glove, level 3

For high mechanical loads, good cut-protection due to cut-resistance level 3.

- HPPE fibre
- PU coating on palm and fingertips: Flexible and elastic, high abrasion resistance, safe grip
- Excellent fit, pleasant wearing comfort
- Area of use: Warehousing and assembly work, fine mechanical tasks with slightly sharp objects

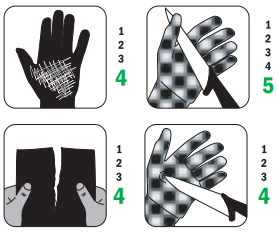


Art. no.	size	size		kg	PU
120302/9	M	9	260	0,049	1
120302/10	L	10	260	0,049	1
120302/11	XL	11	260	0,049	1

PU cut-protection glove, level 5

High cut-protection thanks to cut-resistance level 5, for high mechanical loads.

- HPPE fibre
- Thick PU coating on palm and fingertips: Flexible and elastic, high abrasion resistance, safe grip
- Excellent fit, pleasant wearing comfort
- Area of use: Warehousing and assembly work, fine mechanical tasks with sharp objects



Art. no.	size	size		kg	PU
120304/9	M	9	260	0,069	1
120304/10	L	10	260	0,069	1
120304/11	XL	11	260	0,069	1

* Bestseller Premium product

Electricians‘ protection helmets acc. to DIN EN 50365 1000 V

low weight, very weatherproof even in cold areas and a stable and very comfortable 4-point belt strap interior. Adjustable to head size, rain catch, slots for ear protection, mount for face protection shields (Art. 120010 + 120034). Usage period up to 5 years.

1000 V | Class 0

Art. no.	Color	kg	PU
120008	green	0,558	1
120008 GELB	yellow	0,343	1
120008 ROT ✷	red	0,343	1
120008 WEISS	white	0,343	1

Electrician’s helmet conforms to DIN EN 50365 1000 V, arc fault-tested

made of glass fibre reinforced polycarbonate, straight helmet shell with rain groove, extreme lateral stability, real leather sweatband and foam strips, wearing period up to 10 years, size can be adjusted from 51 – 64 cm, chin strap holder, attachment option for a face shield (Art. 120010 + 120034), MM-tested against metal splashes, meets the requirements of Category III of the EU Regulation 2016/425 Electrical Insulation (1,000 V symbol)

- Perfect protection against arc faults in conjunction with suitable face shield, tested acc. to RWE-Eurotest (10 kA/1 s)
- Cold test up to -30 °C, Heat test up to +150 °C,
- Certified to EN 50365 (0682 Part 321):2002-11

1000 V | Class 0

Art. no.	Color	kg	PU
120041	red	0,370	1

Electricians' protection visor acc. to EN 166

Protection against short circuit lighting, vision screen of acetate, glassy, transparent forehead protection, convenient head mounting and individual adjustable

Art. no.	colour	kg	PU
150377	transparent	0,373	1

Electricians' safety face mask class II

Electricians‘ safety face mask with chin guard, protection according DIN EN 166 + 170, GS-ET-29 (protection against arc faults Class II, 7kA), luminous transmission index 0

PREMIUM

Art. no.	colour	kg	PU
120034	transparent	0,275	1

Electricians' protection visor acc. to EN 166

for protection against arc faults

Art. no.	colour	kg	PU
120010 ✷	transparent	0,275	1

Safety classes acc. to EN 166

Goggles with transparent lenses, black/orange nylon frame, lenses made of polycarbonate, light weight, high wearing comfort, protects against mechanical risks caused by flying parts, EN166, ANSI Z87.1

Art. no.	kg	PU
120087 ✸	0,031	1

Safety classes acc. to EN 166

Single lens goggles with transparent lenses, black nylon frame, lenses made of polycarbonate, light weight, high wearing comfort, arm length can be adjusted, protects against mechanical risks caused by flying parts, EN166, ANSI Z87.1

Art. no.	kg	PU
120088 ✸	0,029	1

Ear defenders acc. to EN 352

Dielectric design for environments with the risk of electrical influences, supersoft sealing cushions for long comfort in wear, three wearing positions make combination with safety helmets, face and breathing masks and other safety equipment easy, SNR: 26 dB

Art. no.	dB	Color	kg	PU
120112	26	blue	0,184	1

Ear defenders acc. to EN 352

Enclosed hearing protectors according to EN 352 with universal bow, soft sealing cushions for long comfort in wear, SNR: 23 dB

Art. no.	dB	Color	kg	PU
120111	23	red	0,143	1

Ear protection plugs

Universal size, the material adapts individually to every auditory canal, simple to handle, reusable SNR: 30 dB

Art. no.	dB	Color	kg	PU
120115	38	blue	0,010	1

Dust masks

light type, made of filter-fleece, against fine particulate matter
filterclass P 1

Art. no.		kg	PU
120120	FFP1	0,010	1
120122	FFP2	0,014	1

Electricians' boots acc. to EN 50321 Class 0

size 42 to 47

Art. no.	Color		kg	PU
120014	white	42	2,160	1
120015	white	43	2,235	1
120016	white	44 - 45	2,400	1
120017	white	46	2,550	1
120018	white	47	2,160	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Security bag, empty

without contents, material: Nylon, extra long to hold the insulation stand mat

Art. no.	Height	Width	Depth	kg	PU
300420	600	390	50	0,680	1

Safety-sets 1000 V

in practical bag, 6-pieces. **Content:** Electricians' helmet, safety mask, safety handle, gloves size 10 (1000 V), insulating mat 1000 x 1000 x 3 mm

1000 V | Class 0

Art. no.	set		kg	PU
300228 ✷	6		6,860	1
300229	5	without insulating mat)	3,480	1

SysCon XL SafetySet

SysCon

Content:
1 220650 ABS plastic box SysCon XL

PREMIUM

1 120010 VDE electricians protection visor 1000 V
1 120007 VDE gloves 1000 V size 10
1 120008 Electricians' protection helmet
1 120012 VDE NH fuse grip

Art. no.	set	empty	kg	PU
220652	5	220650	6,620	1

Climping irons acc. to DIN 48 345

postal-type, with 2 points, offset foot-plate and wide leather heel cap, width of points 260 mm, for wooden posts of 150 - 240 mm diam.

Art. no.	type	kg	PU
150280	wide counter	4,050	1

Safety belts acc. EN 358

safety belt universal for all sizes, length 1,50 meter

Art. no.	⟷	kg	PU
150240	1,5 m	1,210	1

Fallstop acc. to EN 354

Breaking device and rope shortening acc. to EN 355, length 2 m, one hand spring hooks on both sides

Art. no.	⟷	kg	PU
150274	2 m	1,090	1

Travelling safety device DIN 353-2, Type ASK 1

Rope shortener function: takes up slack rope and thus reduces height of the fall. Fall absorber function: in the case of a fall this limits the catching impact to a medically acceptable level of 6 kN. Features: Rope shortener made from V2A stainless steel, connection band with integrated fall absorber and self-securing trigger snap, high level of functional safety and absolutely maintenance free due to simplest mechanism, cannot be operated incorrectly, as every device is firmly attached to the rope.

Art. no.	Ø	⟷	kg	PU
150275	12	5 m	1,953	1
150276	12	10 m	2,482	1
150277	12	15 m	3,062	1
150278	12	20 m	3,174	1
150279	12	25 m	3,675	1

Safety harness DIN EN 361

Universal harness, rapid adjustment of shoulder strap (orange, 45 mm), body strap (orange, 45 mm) and leg straps (blue, 45 mm), fits all sizes, 1 back D ring, 2 side rings, lightweight, comfortable fabric. The forces that develop during a fall are transferred to less sensitive parts of the body.

Art. no.	kg	PU
150270	1,614	1

Personal safety set

Safety harness (art. no. 150270), safety device (art. no. 150277) and shock absorbing rope (15 m) in practical backpack

Art. no.	set	kg	PU
150258	4	4,961	1

Insulating floor mats acc. to IEC-61111

with anti-skid surfaces, colour: grey
art: 120030, 120031 = Class 2 / 17.000 Volt
art: 120033 = Class 4 / 36.000 Volt

Art. no.	KV	⟷	width	strength	colour	kg	PU
120030 ✷	17	1000	1000	3	grey	3,754	1
120031	17	10000	1000	3	grey	33,000	1
120033	36	10000	1000	4,5	grey	63,800	1

Isolating magnetic rubber towels

Isolating rubber towels 1000 V, with magnets, IEC 61112 A-KX 55-15 Class 0-Categorie A+Z.

120160: 300 x 500 x 1 mm with 6 magnets
120162: 500 x 700 x 1 mm with 12 magnets
120164: 300 x 700 x 1 mm with 8 magnets
120166: 1100 x 1100 x 1 mm with 20 magnets

1000V

VIDEO 120160

Art. no.	⟷	width	strength	magnets	kg	PU
120160	300	500	1	6	0,037	1
120162	500	700	1	12	0,037	1
120164	300	700	1	8	0,037	1
120166	1100	1100	1	20	0,037	1

VDE magnet for rubber cloth

1000V

Art. no.	⟷	width	strength	magnets	kg	PU
120168	70	70	1	1	0,037	1

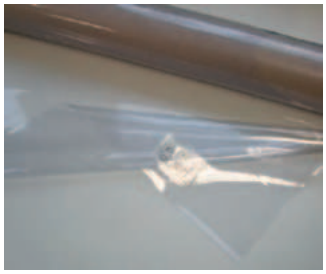
Rubber towels acc. to IEC 61112

grease and acid-proof, for covering of live equipment

Art. no.	⟷	width	strength	kg	PU
120040	120	120	1,6	0,037	1
120042	350	250	1,6	0,193	1
120044	600	600	1,6	1,000	1
120046 ✷	1000	1000	1,5	2,485	1
120048	1200	1200	1,6	3,200	1

Covering blankets transparent

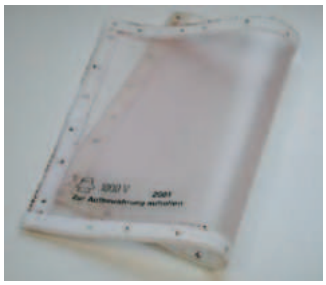
in accordance with VDE 0680 part 1, with special labelling 1000 V, transparent, largely UV-resistant, flexible in the cold



Art. no.	⟷	width	strength	kg	PU
120200	50000	1300	0,5	41,500	1
150322	25000	1200	1	38,000	1

Covering blankets transparent

in accordance with VDE 0680 part 1, with special labelling 1000 V, transparent, largely UV-resistant, flexible in the cold



Art. no.	⟷	width	strength	kg	PU
150302	1000	600	1	0,750	1
150304	1000	600	0,5	0,332	1
150306	1000	400	1	0,520	1
150308	1000	400	0,5	0,260	1
150310	1000	300	1	0,380	1
150312	1000	300	0,5	0,190	1
150314	600	400	1	0,340	1
150316	600	400	0,5	0,171	1
150318	400	300	1	0,170	1
150320	400	300	0,5	0,100	1

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Plastic clips 1000 V

for fastening of rubber towels

Art. no.	⟷	↕○	kg	PU
120049	80	25	0,029	1
120050 ✸	160	40	0,069	1

Self adhesive PVC tape

VDE 0340/T1/5.75, temperature area -10 to + 90° C, 100 x 0,15 mm

Art. no.	⟷	colour	kg	PU
120095	10000	grey	0,192	1
120096	10000	red	0,190	1

Slip on bushes 1000 V

for protective covering of bare live cable terminals, numbered: No. 1 - 2 - 3

1000 V IEC 60900

Art. no.	⟷	Ø	for No.	kg	PU
120060 ✸	80	10	1	0,008	1
120062	80	10	2	0,008	1
120064	80	10	3	0,008	1

Slip on bushes 1000 V

self clamping, not numbered

1000 V IEC 60900

Art. no.	⟷	Ø	kg	PU
120070	75	10	0,011	1
120072	100	20	0,024	1
120074	120	30	0,0458	1
120071	135	40	0,372	1
120069	155	50	0,172	1
120073	150	60	0,144	1

Insulator cover for gable insulators 1000 V

with plastic buttons, absolutely safety attachments, touch protection on the bottom side, of weak, weather proofed insulation-material, for long term usage suitable

1000 V IEC 60900

Art. no.	⟷	width	kg	PU
120079	245	270	0,900	1

Insulator cover for gable insulators 1000 V

with plastic buttons, absolutely safety attachments, touch protection on the bottom side, of weak, weather proofed insulation-material, for long term usage suitable

1000 V IEC 60900

Art. no.	⟷	width	kg	PU
120089	115	270	1,100	1

Insulating and protecting covers 1000 V

double faced, inside soft and outside strong plastic, for transformers and similar products

1000 V IEC 60900

Art. no.	⟷	kg	PU
120057	80	0,400	1
120059	300	0,775	1

NH-protecting caps 1000 V

for the covering of spring contacts

1000 V IEC 60900

Art. no.	⟷	width	kg	PU
120058	315	170	0,390	1

NH-protecting caps 1000 V

for the covering of spring contacts

1000 V IEC 60900

Art. no.	⟷	width	kg	PU
120077	170	140	0,155	1
120078	255	135	0,205	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Security lock | Shackle Ø 4.7 mm

Zenex padlock

- Locking system with differently locking locks
- **Content:** 1 key (1 operator = 1 padlock = 1 key)
- Spark-free padlock suitable for use in explosive atmospheres
- Non-magnetic
- Body made of thermoplastic composite material resistant to corrosion, UV exposure, temperatures from -40°C to +90°C and chemicals
- Includes writeable labels with Danger / Property of in EN, FR, and SP

Art. no.	Ø	width	height	kg	PU
120155	4,76	35	86	0,0951	1

Security lock | Shackle Ø 6 mm

Zenex padlock

- Locking system with differently locking locks
- **Content:** 1 key (1 operator = 1 padlock = 1 key)
- Key retention ensures that the lock doesn't unintentionally remain unlocked
- Spark-free padlock suitable for use in explosive atmospheres
- Non-magnetic
- Body made of thermoplastic composite material resistant to corrosion, UV exposure, temperatures from -40°C to +90°C and chemicals
- Includes writeable labels with Danger / Property of in EN, FR, and SP

Art. no.	Ø	width	height	kg	PU
120156	6	38	82	0,0951	1

Aluminium lockout hasp

Safety lockout hasp, aluminium, clip with diameter 2.71 cm, red handle, for 6 padlocks with max. 6 mm shackle diameter

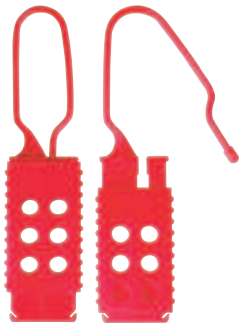
- Safety lockout for an effective multi-person lockout
- In the event of maintenance/repair, the system remains inoperable until the last lock has been removed

Art. no.	🔒	Ø	kg	PU
120157	6	6	0,045	1

Plastic lockout hasp

Non-conductive nylon lockout hasp, dielectric protection, spark-free - for 6 padlocks with a maximum shackle diameter of 6 mm

- Safety lockout for an effective multi-person lockout
- In the event of maintenance/repair, the system remains inoperable until the last lock has been removed
- Suitable for use in potentially explosive atmospheres



Art. no.	🔒	Ø	kg	PU
120158	6	6	0,0272	1

Safety lockout for circuit breaker

Universal lock for mini circuit breakers

- Quick and easy installation, no tools necessary
- Padlock can be installed horizontally or vertically to suit all applications
- Suitable for use in potentially explosive atmospheres

Art. no.	🔒	Ø	kg	PU
120159	2	6	0,021	1

Safety lockout for standard circuit breakers

Designed for standard circuit breakers

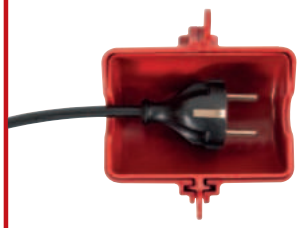
- Effective lockout of circuit breakers
- Durable construction with powder-coated, reinforced polymer for use in extreme environmental conditions
- Suitable for use in potentially explosive atmospheres

Art. no.	🔒	Ø	kg	PU
120170	1	6	0,068	1

Lockout device for 120 – 240 V plug

Cover for electrical plug connection, small – 120 to 240 V plug connections

- Unique rotating design for easy handling
- Installation for applications in tight spaces
- Durable, lightweight, dielectric Zenex body is resistant to chemicals



Art. no.		kg	PU
120171	Plastic	0,0997	1

Lockout device for 16 – 32 A CEE plug

Cover for electrical plug connection, large – 240 and 550 V

- Unique rotating design for easy handling
- Installation for applications in tight spaces
- Durable, lightweight, dielectric Zenex body is resistant to chemicals

Art. no.		kg	PU
120172	Plastic	0,1993	1

Adjustable multi-lock cable

Adjustable cable lockout (1.8 m) for various security lockout applications

NEW

- Adjustable cable length (braided steel cable 1.8 m x Ø 4 mm with plastic coating)
- Thermoplastic Zenex body is chemical resistant
- Flexible and easy insertion into various lockout points
- Integrated safety hasp for up to 4 padlocks with a max. shackle diameter of 6 mm
- Ideal for multiple lockout situations
- Comes with reusable, writeable safety labels (EN, FR, SP)
- Suitable for use in potentially explosive atmospheres

Art. no.	🔒	Ø	kg	PU
120173	4	6	0,2265	1

Security lockout set

Set of lockout devices for electrical systems – Blister-pack – English

NEW

Content:

- 1 keyed-alike Zenex padlock
- 1 mini circuit breaker lockout
- 1 circuit breaker lockout for large circuit breakers
- 2 Warning tags/signs
- 1 plastic lockout hasp for four padlocks
- 1 compact red belt pouch

Art. no.	set	kg	PU
120174	7	0,506	9

DO NOT OPERATE sign | English

Lockout tags in English (each bag contains 12 tags), laminated signs, polyester coating: water, grease, and temperature resistant,Text: Danger – Do not operate

NEW

Oil and dirt-repellent polyester-coated tags
Tags with the notice DO NOT OPERATE, customizable with employee name, department, and planned task. Brass sealing ferrule with a diameter of 11 mm suitable for all types of lockout padlocks and withstands pulling force.

Art. no.	⟷	Width	kg	PU
120175	146	80	0,0997	12

DO NOT OPERATE sign | German

Lockout tags in German (each bag contains 12 tags), laminated signs, polyester coating: water, grease, and temperature resistant, Text: Danger – Do not operate

NEW

Oil and dirt-repellent polyester-coated tags
Tags with the notice DO NOT OPERATE, customizable with employee name, department, and planned task. Brass sealing ferrule with a diameter of 11 mm suitable for all types of lockout padlocks and withstands pulling force.

Art. no.	⟷	Width	kg	PU
120176	146	80	0,118	12

DO NOT OPERATE sign | Spanish

Lockout tags in Spanish (each bag contains 12 tags), laminated signs, polyester coating: water, grease, and temperature resistant,
Text: PELIGRO – NO HACER FUNCIONAR

NEW

Oil and dirt-repellent polyester-coated tags
Tags with the notice DO NOT OPERATE, customizable with employee name, department, and planned task. Brass sealing ferrule with a diameter of 11 mm suitable for all types of lockout padlocks and withstands pulling force.

Art. no.	⟷	Width	kg	PU
120177	146	80	0,118	12

Sealing pliers

made of cast iron, punch exchangeable and hardened, bright nickel-plated

Art. no.	⟷	dies-Ø	kg	PU
210700 ✸	125	8	0,243	1
210702	145	9	0,316	1
210704	165	10	0,448	1

Dies for sealing pliers

loose dies

Art. no.	dies-Ø	kg	PU
210710	8	0,004	1
210712	9	0,004	1
210714	10	0,006	1

Engraving for sealing pliers

Special engraving on request
up to 3 letters

Art. no.		kg	PU
210731	up to 3 letters	0,111	1
210732	every further letter	0,111	1
210733	every border	0,111	1

Lead seals

Art. no.	Ø	Quantity per kg	kg	PU
150340	8	850	1,080	1
150342	9	600	1,110	1
150344	10	400	1,010	1

Plastic seals

Art. no.	Ø	kg	PU
150343 ✸	9	0,00020	1000
150345	10	0,00030	1000

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

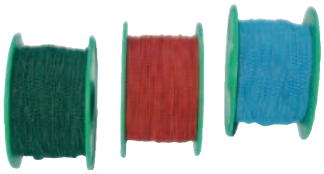
✸ Bestseller Premium product

Seal wire

Material: Iron wire, galvanised

Art. no.	⟷	d1	d2	kg	PU
150360 ✷	115 m	0,5	0,5	0,532	1
150362	230 m	0,5	0,5	1,041	1
150364	190 m	0,5	0,3	0,530	1
150366	380 m	0,5	0,3	1,035	1
150368	300 m	0,3	0,3	0,533	1
150370	600 m	0,3	0,3	1,037	1

Plastic seal wire



Art. no.	⟷	d1	d2	colour	kg	PU
150375 BLAU	100 m	0,5	0,6	blue	0,199	1
150375 GRÜN	100 m	0,5	0,6	green	0,220	1
150375 ROT	100 m	0,5	0,6	red	0,207	1

Parallel rope tension clamps

for copper and steel cables and wires

Art. no.	for ropes mm²	Ø	load kg	kg	PU
130064	6 - 35	3 - 8	1000	0,890	1
130066	16 - 70	4 - 12	1400	1,262	1
130068	50 - 100	8 - 16	2500	1,920	1

Tackle blocks

made from steel, with turnable hooks, 2 blocks, rust protected finish, with 3 brass rolls

Art. no.	roll-Ø	rope-Ø	load kg	kg	PU
130004	50	8	200	1,820	1
130006	60	10	250	1,700	1

Hemp tackle block ropes

made of hemp, 20 m long

Art. no.	⟷	rope-Ø	kg	PU
130042	20 m	8	0,950	1
130044	20 m	10	1,519	1

Standard tools

haupa®

... convincing solutions

INFO

Screwdrivers range **Industrial quality**

The HAUPA screwdriver series features:

- homogenous size adjustment of the screwdriver handles for better power transmission. Enlargement of soft zone
- elegant, ergonomically shaped, non-slip 2-component handles made from PP/TPE material
- injected blade profile, for easy access in the tool case. Abrasion not possible!
- magnetic blade for secure hold of screws High-gripsystem
- blade made from molybdenum vanadium steel
- an addition anti-slip protection on Phillips profiles prevents the tool from slipping out of the screw

Electricians' screwdrivers Slot

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, chrome plated with black point

Art. no.	CW	KSt	BL	⟷	kg	PU
101604 ✸	2,5	**0,4**	75	160	0,027	1
101606	4	**0,8**	100	195	0,051	1
101608	4	**0,8**	125	220	0,054	1
101610	5	**1**	150	245	0,067	1
101612	5	**1**	175	270	0,069	1
101614	5	**1**	200	295	0,074	1

Engineers' screwdrivers Slot

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, chrome plated

Art. no.	CW	KSt	BL	⟷	kg	PU
101640	5	**0,4**	75	170	0,056	1
101642 ✸	6	**1,2**	100	205	0,090	1
101644	7	**1,2**	125	230	0,109	1
101646	8	**1,2**	150	270	0,160	1
101648	9	**1,6**	175	295	0,170	1
101650	10	**1,6**	200	320	0,238	1

Cross slotted screwdrivers Phillips

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, chrome plated, engraving on the blade ensures extra grip in the screw

Art. no.	size	BL	⟷	form	kg	PU
101684	**0**	60	145	PH	0,032	1
101686	**1**	80	175	PH	0,055	1
101688 ✸	**2**	100	205	PH	0,087	1
101690	**3**	150	270	PH	0,161	1

Cross slotted screwdrivers Pozidriv

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, chrome plated

Art. no.	size	BL	⟷	form	kg	PU
102612	**1**	80	175	PZ	0,055	1
102614 ✸	**2**	100	205	PZ	0,088	1
102616	**3**	150	270	PZ	0,160	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Screwdrivers Tx

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, chrome plated with black point

Art. no.	size	BL	⟷	form	kg	PU
101229/6	6	100	185	TX	0,036	1
101230	8	100	185	TX	0,036	1
101200	9	100	185	TX	0,036	1
101202	10	100	195	TX	0,057	1
101204	15	100	195	TX	0,054	1
101206	20	100	195	TX	0,058	1
101208	25	125	195	TX	0,064	1
101210	27	125	230	TX	0,093	1
101211	30	150	255	TX	0,093	1

Screwdrivers Square

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, chrome plated with black point

Art. no.	**size**	BL	⟷	form	kg	PU
103130	**0**	60	145	SQ	0,032	1
103132	**1**	80	175	SQ	0,055	1
103134	**2**	100	205	SQ	0,087	1
103136	**3**	150	270	SQ	0,161	1

Screwdriver set Tx

screwdriver set Tx with security pin, with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, chrome plated, 5-pieces.

Content:
1 screwdriver each Tx 10, Tx 15, Tx 20, Tx 25, Tx 30

Art. no.	form	**set**	kg	PU
101212/S ✷	TX	**5**	0,337	1

Electricians' screwdrivers Slot

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, blade black PVC covered

Art. no.	CW	**KSt**	BL	⟷	kg	PU
101520 ✷	2,5	**0,4**	75	160	0,027	1
101521	3	**0,5**	100	195	0,030	1
101522	4	**0,8**	100	195	0,051	1
101524	4	**0,8**	125	220	0,054	1
101526	5	**1**	150	245	0,068	1
101528	5	**1**	175	270	0,072	1
101530	5	**1**	200	295	0,078	1

Workshop screwdriver

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, blade black PVC covered

Art. no.	CW	**KSt**	BL	⟷	kg	PU
101532	5	**1**	75	170	0,057	1
101534	6	**1,2**	100	205	0,091	1
101536	7	**1,2**	125	230	0,114	1
101538	8	**1,2**	150	270	0,146	1
101540	9	**1,6**	175	295	0,210	1
101541	10	**1,6**	200	320	0,214	1

Cross slotted screwdrivers Phillips

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, blade black PVC covered, engraving on the blade ensures extra grip in the screw

Art. no.	**size**	BL	⟷	form	kg	PU
101542	**0**	60	145	PH	0,032	1
101544	**1**	80	175	PH	0,059	1
101546 ✷	**2**	100	205	PH	0,091	1
101548	**3**	150	270	PH	0,147	1

Cross slotted screwdrivers Pozidriv

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, blade black PVC covered

Art. no.	**size**	BL	⟷	form	kg	PU
101550	**1**	80	175	PZ	0,056	1
101552 ✷	**2**	100	205	PZ	0,088	1
101554	**3**	150	270	PZ	0,146	1

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Screwdrivers - blade PCV covered

Screwdriver set

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, blade black PVC covered.

Content:
2 electricians' screwdrivers
2 engineers' screwdrivers
2 screwdrivers Phillips

Art. no.	form	**set**	kg	PU
101560	PH	**6**	0,431	1

Screwdriver set

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, blade black PVC covered.

Content:
2 electricians' screwdrivers
2 engineers' screwdrivers
2 screwdrivers Pozidriv

Art. no.	form	**set**	kg	PU
101562	PZ	**6**	0,429	1

Screwdrivers

Stubby screwdriver 6,5 x 30 mm

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished

Art. no.	CW	BL	⟷	kg	PU
103120	6	30	80	0,050	1
103122	8	40	90	0,051	1

Stubby gasifier cross slot screwdrivers Phillips

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished

Art. no.	**size**	BL	⟷	form	kg	PU
103080	**1**	30	80	PH	0,051	1
103082	**2**	40	90	PH	0,051	1

Piercing awls

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished

Art. no.	form	Ø	BL	kg	PU
103470	round	6	100	0,083	1
103472	square	6	100	0,085	1

* Bestseller Premium product

Socket wrench

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished

Art. no.	⬡	BL	↔	kg	PU
101484	**5**	125	220	0,105	1
101486	**5,5**	125	220	0,107	1
101488	**6**	125	220	0,110	1
101490	**7**	125	230	0,113	1
101492	**8**	125	230	0,115	1
101494	**9**	125	230	0,120	1
101496	**10**	125	230	0,124	1
103498	**11**	125	245	0,111	1
101500	**12**	125	245	0,165	1
101502	**13**	125	245	0,171	1

Socket wrenches set

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, 7-pieces.

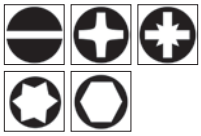
Content: 1 piece each 5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm

Art. no.	**set**	kg	PU
101510	**7**	0,898	1

Industrial screwdriver set Vario S2 with replaceable dual blades.

2-component screwdriver shaft with 10 interchangeable blades, hexagonal, Material: bit steel S2, (chrome silicon manganese molybdenum vanadium steel), in robust nylon bag (with belt loop and hook and loop closure). To also use blades in the cordless screwdriver, as a long bit with a blade length of 175 mm. Loose interchangeable blades can be found on page 285.

Blade types:
Slotted 3, 4, 5, 7
Phillips 0, 1, 2, 3
Pozidriv 0, 1, 2, 3
Tx 10, 15, 20, 25
Hexagonal 2, 3, 4, 5



Art. no.	**set**	kg	PU
104008-1	**11**	1,060	1

INFO

Dynamometric screwdriver with replaceable blades

The new HAUPA 1000 V VarioTQ dynamometric screwdriver is characterised by its precision and functionality.

The ergonomic handles can be adjusted individually.
1. 1.0 - 6.0 Nm
2. 0.5 - 3.5 Nm

HAUPA offers all relevant blade tip profiles as individual items and in set form in a high-quality nylon case.

VarioTQ

- torque can be set using a separate key
- scale value can easily be read off
- clearly perceptible and audible signal when the set torque is achieved
- torque accuracy according to EN ISO 6789:2013-10

Replaceable dual blades
made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point

Precisely adjustable torque

Two handle versions, also available individually:

Art. no. 103070
1.0 - 6.0 Nm

Art. no. 103072
0.5 - 3.5 Nm

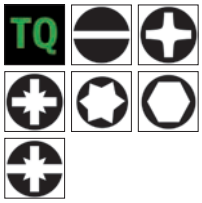
VarioTQ dynamometric screwdriver with replaceable blades

VarioTQ

PREMIUM

replaceable dual blades made from molybdenumvanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point, with hexagonal shaft, in robust nylon bag (with belt loop and hook and loop closure), 10 replaceable blades (20 profiles)

Content:
- 2-component exchangeable handle 1 - 6 Nm or 0,5 - 3,5 Nm
- slotted 3/4 – 5,5/6,5
- PH0/PH1
- PZ0/PZ1
- PH2/PZ2
- TX 10/15 – 20/25
- HEX 2/3 – 4/5
- PZ/FL1
- PZ/FL2
- Square socket key



Art. no.	form	Nm	kg	PU
103000-1	Mix	1 - 6	0,835	1
103002-1	Mix	0,5 - 3,5	0,835	1

VarioTQ nylon bag – empty

Robust nylon bag (with belt loop) wide hook and eye fastening and loop for hanging up

Art. no.	width	height	depth	kg	PU
103034-1	250	135	30	0,080	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

HAUPA replaceable blade system VarioTQ

Exchangeable VarioTQ handle

automatic locking mechanism ensures that blades do not fall out unexpectedly, ergonomically formed 2 component book of PP/TPE material, precisely adjustable torque

Art. no.	⟷	Nm	kg	PU
103070	125	1 - 6	0,350	1
103072	125	0,5 - 3,5	0,350	1

Square socket key

for adjustment of the torque for VarioTQ replacement blades

Art. no.	form	BL	**BL**	kg	PU
102784	SQ	40	**8**	0,050	1

Replaceable blade – slotted blade

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested, for art. 103000, 103002, 104008, 103070, 103072. Can also be used in cordless screwdrivers.

Art. no.	form	**CW**	BL	kg	PU
103010	SL	**3 + 4**	175	0,040	1
103012	SL	**5,5 + 6,5**	175	0,040	1

Replaceable blade – Phillips blade

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested, for art. 103000, 103002, 104008, 103070, 103072. Can also be used in cordless screwdrivers.

Art. no.	form	**size**	BL	kg	PU
103014	PH	**0 + 1**	175	0,040	1

Replaceable blade – pozidrive blade

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested, for art. 103000, 103002, 104008, 103070, 103072. Can also be used in cordless screwdrivers.

Art. no.	form	**size**	BL	kg	PU
103016	PZ	**0 + 1**	175	0,040	1

Replaceable blade – Phillips blade/pozidrive blade

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested, for art. 103000, 103002, 104008, 103070, 103072. Can also be used in cordless screwdrivers.

Art. no.	form	**size**	BL	kg	PU
103018	PH + PZ	**2 + 2**	175	0,040	1

Replaceable blade – pozidrive blade/slotted

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested, for art. 103000, 103002, 104008, 103070, 103072. Can also be used in cordless screwdrivers.

Art. no.	form	**size**	BL	kg	PU
103028	PZ/FL	**1 + 2**	175	0,040	1

Replaceable blade – torx blade

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested, for art. 103000, 103002, 104008, 103070, 103072. Can also be used in cordless screwdrivers.

Art. no.	form	**size**	BL	kg	PU
103020	TX	**10 + 15**	175	0,040	1
103022	TX	**20 + 25**	175	0,040	1

Replaceable blade – hex blade

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested, for art. 103000, 103002, 104008, 103070, 103072. Can also be used in cordless screwdrivers.

Art. no.	form	**size**	BL	kg	PU
103024	HEX	**2 + 3**	175	0,040	1
103026	HEX	**4 + 5**	175	0,040	1

Replaceable blade – Square

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested, for art. 103000, 103002, 104008, 103070, 103072. Can also be used in cordless screwdrivers.

Art. no.	form	**size**	BL	kg	PU
103030	SQ	**0 + 2**	175	0,040	1
103032	SQ	**1 + 3**	175	0,040	1

Replacement blades suitable for the VarioTQ and Vario S2 systems

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... convincing solutions

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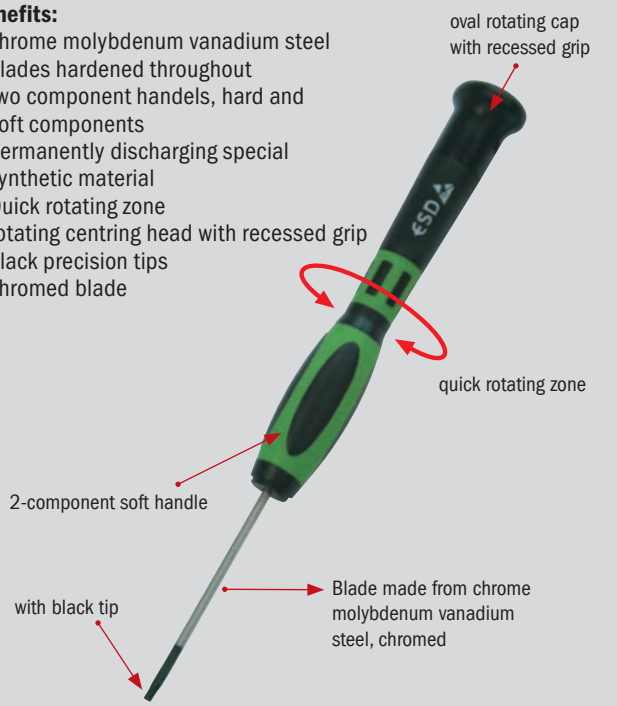
INFO

ESD electronic screwdrivers

Now with 2-component handle, these screwdrivers do not just convince because of their homogenous design, but also because of their user-friendly handle.

Benefits:
- chrome molybdenum vanadium steel
- blades hardened throughout
- two component handels, hard and soft components
- permanently discharging special synthetic material
- Quick rotating zone
- rotating centring head with recessed grip
- black precision tips
- chromed blade



Security advice:
HAUPA ESD screwdrivers are not insulating and therefore unsuitable for work with live parts.

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, slotted

Art. no.	CW	KSt	BL	⟷	kg	PU
100704	0,8	**0,2**	60	150	0,023	1
100250	1	**0,4**	50	150	0,014	1
100704 A	1,2	**0,2**	60	150	0,021	1
100241	2,5	**0,4**	60	150	0,015	1
100243	3,5	**0,5**	100	150	0,018	1
100252	1,6	**0,4**	50	150	0,014	1
100257	2	**0,5**	50	150	0,015	1
100259	2,4	**0,4**	75	175	0,017	1
100261	3	**0,4**	100	200	0,020	1

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, cross recess, Philipps

Art. no.	size	BL	⟷	form	kg	PU
100714	**000**	50	150	PH	0,015	1
100715	**00**	50	150	PH	0,022	1
100716	**0**	50	150	PH	0,024	1
100249	**1**	50	150	PH	0,017	1

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, hexagonal

Art. no.	size	BL	⟷	form	kg	PU
100728	1,5	50	150	HEX	0,014	1
100729	2	50	150	HEX	0,015	1
100729 A	2,5	50	150	HEX	0,017	1
100736	3	50	150	HEX	0,020	1

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, Tx/Safety Tx

Art. no.	size	BL	⟷	form	kg	PU
100741	4	50	150	TX	0,017	1
100742	5	50	150	TX	0,018	1
100718 A	6	50	150	TX	0,018	1
100720	7	50	150	S-TX	0,014	1
100721	8	50	150	S-TX	0,018	1
100712	9	50	150	S-TX	0,018	1
100713	10	50	150	S-TX	0,016	1
100723	15	50	150	S-TX	0,020	1
100734	20	50	150	S-TX	0,020	1

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, Tri-Wing

Art. no.	size	BL	⟷	kg	PU
100738	**Tri 2,4**	50	150	0,017	1

ESD electronic screwdriver set

Blade made from chrome molybdenum with 2-component handles, 7-pieces, slotted/cross recess.
Content: 1 ESD electronic screwdriver each 1.6 x 50, 2.0 x 50, 2.4 x 50, 3.0 x 50 and 1 Phillips size 1. 0 and 00 x 50 each

Art. no.	set	kg	PU
104010	**7**	0,225	1

* Bestseller Premium product

Electronic screwdrivers

HAUPA Electronic screwdriver set standard

chrome vanadium steel, chrome-plated, with large plastic handle, with black point, 7 pieces.
Content:
1 Electricians' screwdriver size 1.6 x 50, 2.0 x 50, 2.4 x 50, 3.0 x 50, and 1 Phillips size 1, 0 and 00 x 50

Art. no.	set	kg	PU
104000 ✷	**7**	0,221	1

Electronic screwdriver set

Chrome vanadium steel, screw holder with black /green plastic handle, 4 x hex head 3, 4, 5, 6 and 8 exchangeable screwdriver blades (slot/Phillips/Tx /hex head)

Art. no.	set	kg	PU
104004	**13**	0,288	1

Electronic screwing bit set

Chrome vanadium steel, screw holder with black/green plastic handle, 1 bit holder, 2 nuts of 5 + 6 mm, 30 bits for slot/Phillips/Pozidriv/Tx/hex head

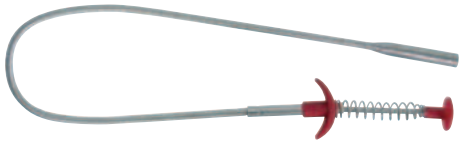
Content:
4 Bits PH 000, 00, 0, 1
2 Bits PZ 0, 1
7 Bits Schlitz 1, 1.5, 2, 2.5, 3, 3.5, 4
8 Bits Hex 0.7, 0.9, 1.3, 1.5, 2, 2.5, 3, 4
9 Bits Tx 4, 5, 6, 7, 8, 9, 10, 15, 20

Art. no.	set	kg	PU
104002 ✷	34	0,230	1

Precision screwdrivers

Claw retrievers

with inflexible shaft, chrome-plated, for gripping and retrieving of small parts in normally inaccessible places



Art. no.	↔	Ø	kg	PU
100366	525	11	0,060	1

Checking mirrors

with double ball joint

Art. no.	↔	Ø	kg	PU
100680	210	60	0,028	1

Magnetic retriever

flexible shaft and plastic handle

Art. no.	↔	Ø	kg	PU
100694	520	12	0,097	1

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Allen keys

Allen keys set

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chrome plated, on key ring.

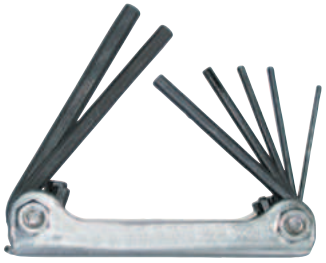
Content: size 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10

Art. no.	↕⬡	quantity	kg	PU
100640 ✷	2 - 10	8	0,250	1

Allen keys set

chrome vanadium steel, (59 Cr-Mo-V 4), im metal clip, key bronzed, DIN 911.

Content:
Art. 100633: 1,5-2-2,5-3-4-5-6 mm
Art. 100634: 2,5-3-4-5-6-8-10 mm



Art. no.	↕⬡	quantity	kg	PU
100633	1,5 - 6	7	0,145	1
100634	2,5 - 10	7	0,335	1

Allen keys set

chrome vanadium steel, (59 Cr-Mo-V 4), chrome plated, DIN 911, 8 pieces in handy plastic box, with sliding plexiglasscover.

Content: size 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10

Art. no.	↕⬡	quantity	kg	PU
100585	2 - 10	8	0,303	1

Ball point allen keys

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chrome-plated, 8 pieces in handy plastic box, with pushable plexiglasscover.

Content: size 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10

Art. no.	↕⬡	quantity	kg	PU
100915	2 - 10	8	0,301	1

Allen keys set Tx

chrome vanadium steel, (59 Cr-Mo-V 4), 8 pieces in handy plastic box, surface black.

Content: TX 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40

Art. no.	**size**	quantity	kg	PU
100941	**TX9 - 40**	8	0,205	1

Hexagon screwdriver set T-handle, with spherical head

Made from chrome vanadium steel, completely hardened, chrome plated with 2-component handle, hexagonal with spherical head.

Content: WS: Hex 2, 2.5, 3, 4, 5, 6, 8, 10

Art. no.	⇕⬡	quantity	kg	PU
100961	2 - 10	8	0,860	1

Hexagon angle screwdriver set, with spherical head

Made from chrome vanadium steel, completely hardened, nickel plated, extra long, metric, with spherical head, in folding holder.

PREMIUM

Content: WS: Hex 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10

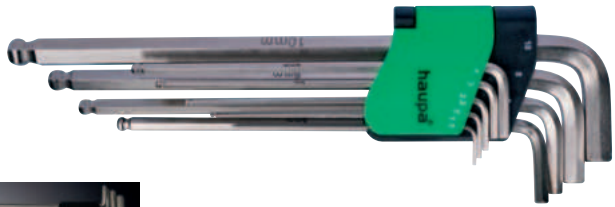
Art. no.	⇕⬡	quantity	kg	PU
100921 ✱	1,5 - 10	9	0,301	1

Hexagon angle screwdriver set, with spherical head

Made from chrome vanadium steel, blades hardened throughout, nickel plated, extra long, metric or AF, with spherical head, in folding holder.

Content metric:
WS: Hex 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10

Content AF:
WS: Hex 1/16 - 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8“

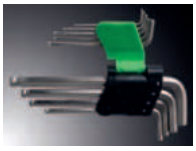


Art. no.	⇕⬡	quantity	kg	PU
100965 ✱	1,5 - 10	9	0,303	1
100967	1/16" - 3/8"	9	0,303	1

Hexagon angle screwdriver set, with spherical head

Made from chrome vanadium steel, blades hardened throughout, nickel plated, metric or AF, with spherical head, in folding holder.

Content metric:
WS: Hex 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10



Art. no.	⇕⬡	quantity	kg	PU
100927	1,5 - 10	9	0,301	1

Allen keys DIN 911

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chrome plated

Art. no.	⟷	⇕⬡	Inch	kg	PU
100590	45x14	1,5	1/16"	0,008	1
100592	50x16	2	5/64"	0,025	1
100594	56x18	2,5	3/32"	0,034	1
100596	63x20	3	1/8"	0,040	1
100598	70x25	4	5/32"	0,080	1
100600	80x28	5	3/16"	0,190	1
100602	90x32	6	1/4"	0,280	1
100606	100x36	8	5/16"	0,580	1
100610	112x40	10	3/8"	0,990	1
100612	125x45	12	2/5"	0,160	1
100614	132x50	13	1/2"	2,020	1

Ball point allen keys

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chrome plated

Art. no.	⟷	⇕⬡	Inch	kg	PU
100902	56x18	2,5	3/32"	0,003	1
100903	63x20	3	1/8"	0,005	1
100904	70x25	4	5/32"	0,011	1
100905	80x28	5	3/16"	0,019	1
100906	90x32	6	1/4"	0,029	1
100908	100x36	8	5/16"	0,058	1
100909	112x40	10	3/8"	0,102	1

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Voltage testers

Voltage tester 120 – 250 V

with clear-transparent, shock-resistant plastic handle.
Art. No. 100646, 100648 each in wallet
Art. No. 100647, 100649 loose

Art. no.	BL	⟷	TMA	kg	PU
100646	50x3	140	120 - 250	0,020	1
100647 ✸	50x3	140	120 - 250	0,016	1
100648	100x3,5	190	120 - 250	0,037	1
100649	100x3,5	190	120 - 250	0,032	1

Voltage tester

Finnlish type, Cellidor, only available for Finland

FI

Art. no.	BL	⟷	TMA	kg	PU
100645	50x3	140	120 - 250	0,016	1

Voltage tester VDE/GS

5 mm surrounding hand-protection, clip of insulating material, fixed installed scale with dark background

PREMIUM

Art. no.	⟷	TMA	kg	PU
100700 ✸	190	125 - 250	0,036	1

INFO

Bits — Industrial quality

HAUPA-Bits are made of high-alloyed tool steel, best hardened (H Rc 60 - 63). They show very high tenacity and tolerance. The long life speakes of the hard use and quality.

S2 Chrom - Silizium - Mangan Molybdän-Vanadium

1 box = 10 pieces (self-service packaging)

Screwdriver bits

DIN 3126, form E 6,3, shank 1/4“, 10 pieces in box

S2

Art. no.	size	CW	⟷	kg	PU
102110	**0,6x4,5**	4,5	50	0,104	10
102112	**0,8x5,5**	5,5	50	0,115	10

Screwdriver bits

DIN 3126, form E 6,3, shank 1/4“, 10 pieces in box

S2

Art. no.		size	⟷	kg	PU
102152	PH	1	25	0,062	10
102154	PH	2	25	0,067	10
102114	PH	1	50	0,105	10
102116	PH	2	50	0,124	10
102166	PH	2	90	0,097	10
102172	PH	1	150	0,251	10
102174	PH	2	150	0,358	10

Screwdriver bits, reduced

DIN 3126, form E 6,3, shank 1/4“, 10 pieces in box
for PH 1 and PH 2

S2

Art. no.	size	⟷	kg	PU
102155	2	25	0,064	10

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller PREMIUM Premium product

Screwdriver bits

DIN 3126, form E 6.3, shank 1/4“, 10 pieces in box

Art. no.		size	↔	kg	PU
102176	PZ	1	25	0,062	10
102178 ✸	PZ	2	25	0,065	10
102118	PZ	1	50	0,107	10
102120	PZ	2	50	0,123	10
102188	PZ	1	90	0,179	10
102190	PZ	2	90	0,231	10
102198	PZ	2	150	0,360	10

Screwdriver bits Tx

DIN 3126, form E 6.3, shank 1/4“, 10 pieces in box

Art. no.		**size**	↔	kg	PU
102200	TX	**15**	25	0,061	10
102204	TX	**25**	25	0,065	10
102124	TX	**20**	50	0,110	10
102126	TX	**25**	50	0,112	10

Bits for PZ slot profile

The PZ/FL profile can only be used for combination screws that were previously screwed with a slot or recessed head PZ type screwdriver. The screws have an inner PZ profile with an additional cross slot that also allows it to be screwed with a slot screwdriver. **1 PU (packaging unit) = 2 pieces**

Art. no.	size	↔	kg	PU
101874	1	60	0,012	10
101876	2	60	0,013	10
101880	1	90	0,045	10
101882	2	90	0,046	10

Magnetic holder

with strong magnetic, shank 1/4“, form C 6,3 DIN 3126, for holding the screws, socket made of stainless steel, suitable for all

Art. no.	↔	kg	PU
102130	75	0,056	1

SDS magnetic holder

with strong permanent magnet, bit holder 1/4”, form C 6.3 DIN 3126, to hold screws, rust-free, stainless steel sleeve, suitable for SDS bits holders

Art. no.	↔	kg	PU
102131	55	0,045	1

Magnetic holder

with strong magnetic, shank 1/4“, form C 6.3 DIN 3126, for holding the screws, socket made of stainless steel, with inside ring, suitable for all

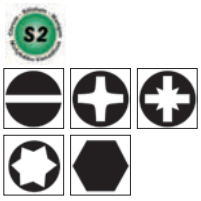
Art. no.	↔	kg	PU
102132	75	0,045	1
102134	60	0,040	1

BitBox, 25 mm, 17-pieces

BitBox

Description:
- Belt clip
- Ergonomic (with the opening of the box the bits will be moved in 45° angle, easy pick up position)
- A special mechanism fixes the bits even in an up side down position

Content:
Screwdriver bits, form E 6.3, shank 1/4“, 25 mm
PH: 1, PH 2, PH 3
PZ: 1, PZ 2, PZ3
Tx: 10, T 15, T 20, T 25
slotted: 4.0 (0.5), 5.0 (0.8), 5.0 (1.0), 6.0 (1.0)
hexagon: 4.0, 5.0, 6.0
Magnetic holder 60 mm



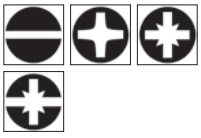
Art. no.	set		kg	PU
102210 ✷	17	Bit = 25 mm	0,170	1

BitBox S, 50 mm, 7-pieces

BitBox

50 mm 1/4“ bits in plastic box

Content:
1 bit PH 1, 2
1 bit PZ 1, 2
1 bit PZ/FL 1, 2
1 bit Slot 4



360° 102216

Art. no.	set		kg	PU
102216	7	Bit = 50 mm	0,105	1

Ratchet screwdriver FlexPlus, for all bits

FlexPlus

Ratchet screwdriver with right/left hand motion. Adjustable operating angle of 180°. Safety and special bit set - top quality S2! The screwing grasp also Quick change penholder and 2-components Handle provides for anti-slip and fatigue-free working. The ergonomic form and the soft zones within the pressure area range make a relaxed possible screws.

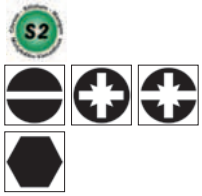
Art. no.	Bits	kg	PU
104009	**≥ 25 mm, 50 – 150 mm**	0,111	1

Ratchet screwdriver set FlexBox

FlexBox

Sturdy black plastic polypropylene, the constant hinge gives maximum stability. Ratchet screwdriver with right/left hand motion. Adjustable operating angle of 180°. Safety and special bit set - top quality S2! The screw handle with quick ejection and 2 components ensures non-Slip and fatiguefree working. The ergonomic shape and the soft zones quarantee relaxed screwing.
Only for 1/4“ = 50 mm Bits.

Content:
1/4“ 50 mm Power bits SL: 4, 6
1/4“ 50 mm Power bits PZ: 1, 2
1/4“ 50 mm Power bits PZ/FL 1 + 2
1/4“ 50 mm Power bits Hex: H5, H6
1 pc of FlexPlus ratcheting driver



360° 104030

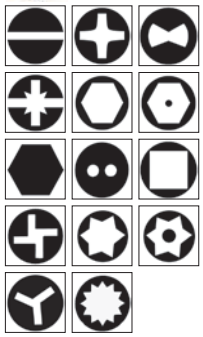
Art. no.	**set**		kg	PU
104030	**9**	Bit = 50 mm	0,410	1

Ratchet screwdriver set Flex

Flex

Ratchet screwdriver with right/left hand motion. Adjustable operating angle of 180°. Safety and special bit set - top quality S2! The screwing grasp also Quick change penholder and 2-components Handle provides for anti-slip and fatigue-free working. The ergonomic form and the soft zones within the pressure area range make a relaxed possible screws.
Only for 1/4“, = 25 mm Bits.

Advantages:
- Ratchet function
- Left/clockwise rotation adjustable
- Bending bar: 0°– 45°– 90°
- Ergonomic working within restrained ranges
- S2 steel industry bit for nearly all applications
- 2-components handle
- 55 bits ¼“ 25 mm and 1 adapter for ¼“ nut



VIDEO 104006

Art. no.	set		kg	PU
104006 ✷	**58**	Bit = 25 mm	0,810	1

Ratchet screwdriver set FlexBag

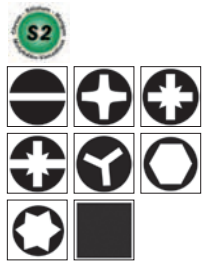
FlexBag

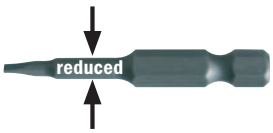
with 50 mm S2 bits and reduced shank, in robust nylon bag.

PREMIUM

Ratchet screwdriver with right/left hand motion. Adjustable operating angle of 180°. Safety and special bit set - top quality S2! The screwing grasp also Quick change penholder and 2-components Handle provides for anti-slip and fatigue-free working. The ergonomic form and the soft zones within the pressure area range make a relaxed possible screws.

Content:
1/4“ 50 mm Power bits Tx: T5, T6, T7, T8, T9, T10, T15, T20, T25, T30, T40
1/4“ 50 mm Power bits Hex (hole): H2, H2.5, H3, H4, H5, H6
1/4“ 50 mm Power bits PH: 0, 1, 2, 3
1/4“ 50 mm Power bits PZ: 0, 1, 2, 3
1/4“ 50 mm Power bits slot: 3, 4, 5, 6, 7, 8
1/4“ 50 mm Power bits SQ: 0, 1, 2, 3
1/4“ 50 mm Power bits Tri-Wing: 1, 2, 3
1/4“ 50 mm Power bits PZ/FL 1 & 2
Above bits are in reduced shank except T40, H6,
flat: 6, 7, 8 in full hex shank
2 pcs. Adapters: 1/4“ 50 mm, 1/4“ 80 mm
8 pcs. sockets: 5, 5.5, 6, 7, 8, 10, 12, 13
1 pc of FlexPlus ratcheting driver





Art. no.	set		kg	PU
104020-1 ✷	**51**	Bit = 50 mm	0,810	1

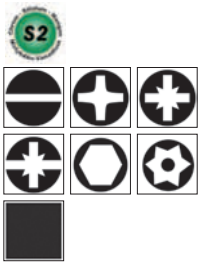
Ratchet screwdriver set FlexBagPro

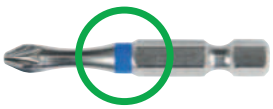
FlexBag

37 safety bits, 8 spanner sockets, 5 drill bits, in robust nylon bag.

Ratchet screwdriver with right/left hand motion. Adjustable operating angle of 180°. Safety and special bit set - top quality S2! The screwing grasp also Quick change penholder and 2-components Handle provides for anti-slip and fatigue-free working. The ergonomic form and the soft zones within the pressure area range make a relaxed possible screws.

Content:
1/4" 50 mm torsion bits S-TX (hole), color coded: T10, T10, T15, T15, T20, T25, T27, T30, T40
1/4" 50 mm torsion bits Hex, color coded: H3, H4, H5, H6
1/4" 50 mm torsion bits PH, color coded: 1, 2, 2, 3
1/4" 50 mm torsion bits PZ, color coded: 1, 2, 2, 2
1/4" 50 mm torsion bits slot, color coded: 3, 4, 4, 5, 6
1/4" 50 mm torsion bits SQ, color coded: 1, 2, 3
1/4" 50 mm standard bits PZ/FL: 1, 1, 2, 2
1/4" 50 mm standard bits PH/FL: 1, 1, 2, 2
8 pcs. sockets: 5, 5.5, 6, 7, 8, 10, 12, 13
5 pcs. drills: 2, 3, 4, 5, 6
1 pc of FlexPlus ratcheting driver





with colour coding

Art. no.	set		kg	PU
104022-1	**51**	Bit = 50 mm	0,810	1

Socket sets

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Double ended spanners acc. to DIN 3110

chrome vanadium steel, chrome plated, head polished, offset at 15°

Art. no.	⟷	⬡	strength	kg	PU
110090	120	6 - 7	3,2	0,0214	1
110092	140	8 - 9	3,5	0,0356	1
110094	157	10 - 11	4	0,050	1
110096	172	12 - 13	4,5	0,071	1
110100	190	14 - 15	5	0,100	1
110104	205	16 - 17	5,5	0,144	1
110108	223	18 - 19	6	0,182	1
110112	250	21 - 23	7	0,239	1
110114	250	24 - 26	7	0,273	1
110120	302	27 - 32	8,2	0,519	1

Double ended spanners set acc. to DIN 3110

chrome vanadium steel, chrome plated, head polished, plastic holder included.

Art. no.	⬡	set	kg	PU
110130	6 - 22	**8**	1,026	1
110132	6 - 32	**12**	2,353	1

Combination spanners similar to DIN 3113

chrome vanadium steel, chrome plated, head polished, offset at 15°

Art. no.	⟷	⬡	kg	PU
110180	100	**6**	0,018	1
110182	110	**7**	0,023	1
110184	120	**8**	0,030	1
110186	130	**9**	0,032	1
110188	140	**10**	0,041	1
110190	150	**11**	0,053	1
110192	160	**12**	0,068	1
110194	170	**13**	0,075	1
110196	180	**14**	0,089	1
110198	190	**15**	0,096	1
110202	210	**17**	0,142	1
110204	220	**18**	0,134	1
110206	230	**19**	0,185	1
110212	260	**22**	0,263	1
110216	280	**24**	0,333	1
110222	310	**27**	0,407	1

Combination spanners similar to DIN 3113

chrome vanadium steel, chrome plated, head polished, plastic holder included.

Art. no.	⬡	set	kg	PU
110250 ✸	6 - 22	**12**	1,271	1

Combination spanners similar to DIN 3113

chrome vanadium steel, chrome plated, head polished, in roll bag with eyes for hanging.

Art. no.	⬡	set	kg	PU
110252	6 - 27	**16**	1,948	1

Double ended ring spanners to DIN 838

chrome vanadium steel, chrome plated, head polished, offset at 75°

Art. no.	⬡	⟷	kg	PU
110140	6 - 7	170	0,035	1
110142	8 - 9	185	0,066	1
110144	10 - 11	205	0,075	1
110146	12 - 13	220	0,107	1
110148	14 - 15	240	0,154	1
110152	16 - 17	265	0,175	1
110154	18 - 19	280	0,297	1
110160	24 - 26	335	0,468	1
110164	27 - 32	370	0,611	1

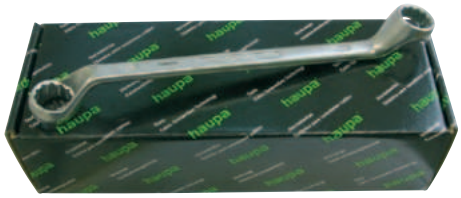
PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Double ended ring spanner sets DIN 838

chrome vanadium steel, chrome plated, head polished, in paper box



Art. no.	⬡	set	kg	PU
110170	6 - 22	**8**	1,289	1
110172	6 - 32	**12**	3,575	1

Open-jawed ring wrench with ratch function

Open-jawed ring wrench with ratch function made from chromium-vanadium steel, chromed surface, polished, fine-toothed, 72 teeth, swing angle 5°, DIN 3113, ISO 3318, in a practical plastic box with metal catch, wrench size 8 - 9 - 10 - 12 - 13 - 14 - 17 - 19 mm

Art. no.	⬡	set	kg	PU
110900 ✱	8 - 19	**8**	1,255	1

Open-jawed ring wrench with ratch function

made from chromium-vanadium steel, chromed surface, polished, fine-toothed, 72 teeth, swing angle 5°, DIN 3113, ISO 3318

Art. no.	⟷	⬡	kg	PU
110900/8	134	**8**	0,034	1
110900/9	152	**9**	0,056	1
110900/10	157	**10**	0,060	1
110900/12	167	**12**	0,079	1
110900/13	175	**13**	0,096	1
110900/14	190	**14**	0,120	1
110900/17	223	**17**	0,183	1
110900/19	245	**19**	0,200	1

Ratchet wrench 4 in 1

4 in 1 | The ratchet wrench is suitable for 4 different female screw sizes.

- **Sizes:** 8 x 10 mm and 12 x 13 mm | 10 x 13 mm and 17 x 19 mm
- Chrome-vanadium; chrome-molybdenum-steel, silk-matt chrome plating
- fine-toothed 72 teeth of the 2 ratchets, rotation angle 3°
- switching function of the ratchets for clockwise/anticlockwise rotation
- thanks to the 12-fold teeth, 4, 6 and 12-edge screws, and almost round screw nuts can be released easily
- highly durable / life span: 30,000 actuation cycles
- compact & slim design for simple transport & storage

Art. no.	⬡	⟷	kg	PU
110780	8-13	150	0,060	1
110782	10-19	200	0,060	1

Flex hinged ratchet combination wrench set

Hinged ratchet combination wrench set made of chrome vanadium steel, chromium plated surface, polished, fine-toothed, 72 teeth, with hinge, 180° swivelling head, DIN 3113, ISO 3318, in a practical plastic box with metal catch.

Content:
Wrench sizes 8 - 9 - 10 - 12 - 13 - 14 - 17 - 19 mm

360° 110902

Art. no.	⬡	set	kg	PU
110902	8 - 19	**8**	1,255	1

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Spanners

Ratchet ring- combination wrench flex

made of chrome vanadium steel, chromium plated surface, polished, finetoothed, 72 teeth, with hinge, 180° swivelling head, DIN 3113, ISO 3318

Art. no.	⬡	⟷	kg	PU
110902/8	**8**	140	0,183	1
110902/9	**9**	148	0,183	1
110902/10	**10**	162	0,183	1
110902/12	**12**	175	0,183	1
110902/13	**13**	178	0,183	1
110902/14	**14**	190	0,414	1
110902/17	**17**	227	0,183	1
110902/19	**19**	246	0,183	1

Adjustable single-head wrench

Adjustable single-head wrench with ratch function made from chromium-vanadium steel, forged, chromed, DIN 3117, handle made from TPR, with lasered measuring scale

Art. no.	⬡	⟷	kg	PU
110590	6 - 19	150	0,410	1
110592 ✸	9 - 24	200	0,342	1
110594	10 - 29	240	0,410	1
110596	10 - 34	300	0,111	1

Adjustable single-head wrench with ratch function

Adjustable single-head wrench with ratch function made from chromium-vanadium steel, fast and effective working, use of singlehead wrench does not need to be discontinued, forged, chromed, DIN 3117, handle made from TPR, with lasered measuring scale, mounting with anti-theft device and function test

PREMIUM

VIDEO 110583

Art. no.	⬡	⟷	kg	PU
110583	6 - 19	150	0,160	1
110585	9 - 24	200	0,342	1

Express wrench M10

Installation wrench for express and screw bolts with centre element with interior thread for screw bolts sized M10, for the fixture of sinks and corner valves. An integrated spherical seat ensures easy removal of the wrench from the screw bolt. Made from chrome-vanadium steel. For craft and industrial use.

Art. no.	⬡	⟷	kg	PU
110798	17 - 19	223	0,111	1

1/4" Socket sets

Socket wrench set

1/4"

chrome vanadium steel, industrial quality, black plastic case with metal catch, 1/4".

Content:
12 Sockets: 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12- 13 mm
1 ratchet handle
72 gears with quick release function
14 insert bit socket PH: 1 - 2 - 3, HX: 3 - 4 - 5 - 6 - 8, TX: 10 - 15 - 20 - 25 - 27 - 30
1 flexible extension bar
2 extension bars 50 & 100 mm
1 universal joint
1 sliding adapter 3/8" x 1/4" for extension bar work as T handle
1 spinner handle for screwdriver

Art. no.	set	drive	kg	PU
110674 ✸	**33**	1/4"	1,051	1

Reversible ratchet 1/4"

1/4"

Material: Cr-V; Cr-Moly steel | Industrial quality | Standards: DIN 3122; ISO 3315 | Finishing: Silver mat finished | Torsion: 30% higher than DIN | Life-Time: 30k circle times

Art. no.	drive	⟷	kg	PU
110674/K	1/4"	140	0,118	1

Extension 1/4"

1/4"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3123; ISO 3316 | Finishing: Silver mat finished | Torsion: 30% higher than DIN | Life-Time: 30k circle times at 35% of DIN

Art. no.	drive	⟷	kg	PU
110700	1/4"	50	0,024	1
110701	1/4"	100	0,063	1

Flexible extension bar 1/4"

Material: chrome vanadium steel, industrial quality

Art. no.	drive	⟷	kg	PU
110702	1/4"	100	0,059	1

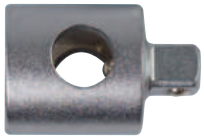
Sockets 1/4"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3124; ISO 2725 | Finishing: Silver mat finished | Profile: hexagonal | Torsion: 30-50% (depends on size) higher than DIN | Life-Time: 200k circle times at 35% of DIN | square drive

Art. no.	↕⬡	kg	PU
110703/4	**4**	0,010	1
110703/45	**4,5**	0,010	1
110703/5	**5**	0,010	1
110703/55	**5,5**	0,011	1
110703/6	**6**	0,011	1
110703/7	**7**	0,014	1
110703/8	**8**	0,012	1
110703/9	**9**	0,016	1
110703/10	**10**	0,016	1
110703/11	**11**	0,024	1
110703/12	**12**	0,024	1
110703/13	**13**	0,028	1

Sliding adapter 3/8" x 1/4"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3122; ISO 3315 | Finishing: Silver mat finished | Torsion: 30% higher than DIN | Life-Time: 30k circle times at 35% of DIN | for extension bar work as T handle



Art. no.	kg	PU
110706	0,029	1

Spinner handle for screwdriver 1/4"

Material: chrome vanadium steel, industrial quality

Art. no.	drive	kg	PU
110725	1/4"	0,064	1

Universal joint 1/4"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3122; ISO 3315 | Finishing: Silver mat finished | Torsion: 40% higher than DIN | Life-Time: 40k circle times at 35% of DIN

Art. no.	kg	PU
110726	0,024	1

Insert bit sockets PH 1/4"

Material: Sockets: Cr-V steel; Bits: S2 Xtra Moly steel | Industrial quality | Standards: DIN / ISO standards | Finishing: Silver mat finished

Art. no.	size	kg	PU
110711	1	0,015	1
110727	2	0,015	1
110728	3	0,016	1

Insert bit sockets HEX 1/4"

Material: Sockets: Cr-V steel; Bits: S2 Xtra Moly steel | Industrial quality | Standards: DIN / ISO standards | Finishing: Silver mat finished

Art. no.	↕⬡	kg	PU
110729	**3**	0,015	1
110747	**4**	0,015	1
110749	**5**	0,016	1
110754	**6**	0,017	1
110718	**8**	0,018	1

Insert bit sockets TX 1/4"

Material: Sockets: Cr-V steel; Bits: S2 Xtra Moly steel | Industrial quality | Standards: DIN / ISO standards | Finishing: Silver mat finished

Art. no.	size	kg	PU
110719	**10**	0,013	1
110720	**15**	0,015	1
110721	**20**	0,015	1
110722	**25**	0,015	1
110723	**27**	0,015	1
110724	**30**	0,015	1

Insert bit sockets slot 1/4"

Material: Sockets: Cr-V steel; Bits: S2 Xtra Moly steel | Industrial quality | Standards: DIN / ISO standards | Finishing: Silver mat finished

Art. no.	BL	kg	PU
110759	**5,5**	0,015	1
110760	**4**	0,014	1

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Socket wrench set

3/8"

chrome vanadium steel, industrial quality, black plastic case with metal catch, 3/8".
Content:
18 Sockets: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
1 ratchet handle
72 gears with quick release function
1 universal joint
1 sliding adapter 1/2" x 3/8" for extension bar work as T handle
2 spark plug sockets 16 & 21 mm
3 extension bars 45 - 75 - 150 mm

Art. no.	set	drive	kg	PU
110676	26	3/8"	2,309	1

Reversible ratchet 3/8"

3/8"

Material: Cr-V; Cr-Moly steel | Industrial quality | Standards: DIN 3122; ISO 3315 | Finishing: Silver mat finished | Torsion: 30% higher than DIN | Life-Time: 30k circle times

Art. no.	drive	⟷	kg	PU
110676/K	3/8"	185	0,260	1

Extension 3/8"

3/8"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3123; ISO 3316 | Finishing: Silver mat finished | Torsion: 30% higher than DIN | Life-Time: 30k circle times at 35% of DIN

Art. no.	drive	⟷	kg	PU
110731	3/8"	20	0,045	1
110733	3/8"	75	0,075	1
110735	3/8"	150	0,143	1

Spark plug sockets 3/8"

■ 3/8"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3124; ISO 2725 | Finishing: Silver mat finished | Profile: hexagonal | Torsion: 30-50% (depends on size) higher than DIN | Life-Time: 200k circle times at 35% of DIN | square drive

Art. no.	⬡	kg	PU
110738	16	0,092	1
110739	21	0,139	1

Sockets 3/8"

■ 3/8"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3124; ISO 2725 | Finishing: Silver mat finished | Profile: hexagonal | Torsion: 30-50% (depends on size) higher than DIN | Life-Time: 200k circle times at 35% of DIN | square drive

Art. no.	⬡	kg	PU
110737/6	6	0,019	1
110737/7	7	0,020	1
110737/8	8	0,021	1
110737/9	9	0,023	1
110737/10	10	0,023	1
110737/11	11	0,024	1
110737/12	12	0,024	1
110737/13	13	0,024	1
110737/14	14	0,031	1
110737/15	15	0,040	1
110737/16	16	0,035	1
110737/17	17	0,046	1
110737/18	18	0,061	1
110737/19	19	0,056	1
110737/20	20	0,066	1
110737/21	21	0,060	1
110737/22	22	0,078	1
110737/24	24	0,085	1

Sliding adapter 1/2" x 3/8"

1/2" 3/8"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3122; ISO 3315 | Finishing: Silver mat finished | Torsion: 30% higher than DIN | Life-Time: 30k circle times at 35% of DIN | for extension bar work as T handlee

Art. no.	kg	PU
110741	0,070	1

Universal joint 3/8"

3/8"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3122; ISO 3315 | Finishing: Silver mat finished | Torsion: 40% higher than DIN | Life-Time: 40k circle times at 35% of DIN

Art. no.	kg	PU
110745	0,067	1

3/8" internal hexagonal bolt set

3/8"

7-piece, in roll-up case with loop for hanging up, extra long 150 mm, with ball end for challenging installation positions
Sizes:
3 - 4 - 5 - 6 - 7 - 8 - 10

Art. no.	set	kg	PU
111737	7	0,019	1

Socket wrench set

1/2"

chrome vanadium steel, industrial quality, black plastic case with metal catch, 1/2".

Content:

20 Sockets: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32 mm
1 ratchet handle
72 gears with quick release function
1 extension bar
safety locking type 250 mm
1 extension bar 125 mm
1 sliding T-bar 300 mm
1 universal joint
1 sliding adapter 3/8" x 1/2" for extension bar work as T handle

Art. no.	set	drive	kg	PU
110677	**25**	1/2"	4,739	1

Reversible ratchet 1/2"

1/2"

Material: Cr-V; Cr-Moly steel | Industrial quality | Standards: DIN 3122; ISO 3315 | Finishing: Silver mat finished | Torsion: 30% higher than DIN | Life-Time: 30k circle times

Art. no.	drive	⟷	kg	PU
110677/K	1/2"	260	0,560	1

Extension 1/2"

1/2"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3123; ISO 3316 | Finishing: Silver mat finished | Torsion: 30% higher than DIN | Life-Time: 30k circle times at 35% of DIN

Art. no.	drive	⟷	kg	PU
110751	1/2"	75	0,137	1
110752	1/2"	125	0,200	1
110753	1/2"	250	0,388	1

Sockets 1/2"

■ 1/2"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3124; ISO 2725 | Finishing: Silver mat finished | Profile: hexagonal | Torsion: 30-50% (depends on size) higher than DIN | Life-Time: 200k circle times at 35% of DIN | square drive

Art. no.	↕⬡	kg	PU
110754/10	**10**	0,046	1
110754/11	**11**	0,051	1
110754/12	**12**	0,052	1
110754/13	**13**	0,053	1
110754/14	**14**	0,055	1
110754/15	**15**	0,052	1
110754/16	**16**	0,052	1
110754/17	**17**	0,060	1
110754/18	**18**	0,060	1
110754/19	**19**	0,066	1
110754/20	**20**	0,066	1
110754/21	**21**	0,080	1
110754/22	**22**	0,094	1
110754/24	**24**	0,100	1
110754/26	**26**	0,120	1
110754/27	**27**	0,150	1
110754/28	**28**	0,165	1
110754/30	**30**	0,177	1
110754/32	**32**	0,206	1

Spark plug sockets 1/2"

■ 1/2"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3124; ISO 2725 | Finishing: Silver mat finished | Profile: hexagonal | Torsion: 30-50% (depends on size) higher than DIN | Life-Time: 200k circle times at 35% of DIN | square drive

Art. no.	↕⬡	kg	PU
110755	**16**	0,092	1
110756	**21**	0,141	1

Sliding adapter 3/8" x 1/2"

3/8" 1/2"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3122; ISO 3315 | Finishing: Silver mat finished | Torsion: 30% higher than DIN | Life-Time: 30k circle times at 35% of DIN | for extension bar work as T handle

Art. no.	kg	PU
110757	0,069	1

Universal joint 1/2"

1/2"

Material: Cr-V 50BV30 steel | Industrial quality | Standards: DIN 3122; ISO 3315 | Finishing: Silver mat finished | Torsion: 40% higher than DIN | Life-Time: 40k circle times at 35% of DIN

Art. no.	kg	PU
110758	0,152	1

SocketFlex socket wrench box

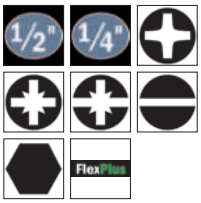
1/4" 1/2"

Chrome vanadium steel, industrial quality, black plastic case with metal catch, including HAUPA FlexPlus ratchet screwdriver.

PREMIUM

Content:

12	1/4“ socket wrench inserts 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
2	1/4“ 50 and 150 mm extensions
1	3/8“ x 1/4“ adapter for extending for use as a T-handle
1	1/4“ universal joint
1	bit adapter 4-edge to 1/4“ hexagonal
1	1/4“ reversible wratchet
13	1/2“ socket wrench inserts 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm
2	1/2“ 75 and 250 mm extensions
1	3/8“ x 1/2“ adapter for extending for use as a T-handle
1	1/2“ universal joint
1	1/2“ reversible ratchet
1	Flex ratchet screwdriver
1	adapter 1/4“ x 1/4“ x 50 mm
1	adapter 1/4“ x 1/4“ x 80 mm
4	bits 1/4“, 50 mm, PH 0 - 1 - 2 - 3
4	bits 1/4“, 50 mm, PZ 0 - 1 - 2 - 3
2	bits 1/4“, 50 mm, PZ/FL 1 - 2
4	bits 1/4“, 50 mm, slot 3 - 4 - 5 - 6 mm
6	bits 1/4“, 50 mm, hexagon socket 2 - 2,5 - 3 - 4 - 5 - 6



360° 110672

Art. no.	set	drive	kg	PU
110672	**59**	1/4"+1/2"	4,500	1

Socket wrench set

1/4" 1/2"

chrome vanadium steel, industrial quality, black plastic case with metal catch.

Content:

1/4”: 12 Sockets 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm, 1 ratchet handle, 1 universal joint, 1 sliding adapter 3/8” x 1/4” for extension bar work as T handle, 2 extension bars 50 + 150 mm, 1 spinner handle for screwdriver, 12 insert bit sockets: PH: 1-2, HX: 3 - 4 - 5 - 6, FD: 5.5 - 7, TX: 20 - 25 - 27 - 30, 5 Hex keys: 1.25 - 1.5 - 2.0 - 2.5 - 3.0 mm

1/2”: 13 sockets 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm, 1 ratchet handle, 2 extension bars 75 + 250 mm, 1 sliding adapter 3/8” x 1/2” for extension bar work as T handle, 2 plug sockets, 1 universal joint

Art. no.	set	drive	kg	PU
110678 ✸	**53**	1/4"+1/2"	4,385	1

SysCon SocketMax 1/2", 1/4"

SysCon

chrome vanadium steel, industrial quality, in ABS plastic box, including HAUPA FlexPlus ratchet screwdriver.

PREMIUM

Content:

1	220370	ABS plastic box „SysCon S"
	12	Sockets 1/4" 4-4.5-5-5.5-6-7-8-9-10-11-12-13 mm
	2	Extensions 1/4" 50 – 150mm
	1	Adapter 3/8" x 1/4" for sliding handle
	1	Kardanjoint 1/4"
	1	Bit adapter 1/4"
	1	Reversible ratchet 1/4"
	13	Sockets 1/2" 10-11-12-13-14-15-17-19-22-24-27-30-32 mm
	2	Extensions 1/2" 75 – 250 mm
	1	Adapter 3/8" x 1/2" for sliding handle
	1	Kardanjoint 1/2"
	1	Reversible ratchet 1/2"
	1	Ratchet screwdriver „Flex"
	2	Adapter 50 – 80 mm
	4	Bit 1/4" 50 mm PH 0 - 1 - 2 - 3
	4	Bit 1/4" 50 mm PZ 0 - 1 - 2 - 3
	2	Bit 1/4" 50 mm PZ/FL 1 - 2
	4	Bit 1/4" 50 mm SL 3 - 4 - 5 - 6 mm
	6	Bit 1/4" 50 mm hexagon 2 - 2.5 - 3 - 4 - 5 - 6

1/2" 1/4" FlexPlus

Art. no.	**set**	empty	kg	PU
220600	**55**	220370	4,300	1

INFO

Torque wrench **Industrial quality**

- With built-in changeover ratchet, accuracy +/- 3%,
- Material: Chrome-Vanadium steel DIN-3122; ISO 6789
- Measuring range from 5 – 25 Nm, 21 – 119 Nm, 42 – 210 Nm
- With viewing window display and locking mechanism
- Easy to read scale
- In impact-proof storage box

Torque wrenches

1/4" TQ

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel DIN-3122; ISO 6789

Art. no.	drive	Nm	kg	PU
110607 ✸	1/4"	5 - 25	1,000	1

Torque wrenches

3/8" TQ

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel DIN-3122; ISO 6789

Art. no.	drive	Nm	kg	PU
110605	3/8"	10 - 50	1,000	1

Torque wrenches

3/8" TQ

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel DIN-3122; ISO 6789

Art. no.	drive	Nm	kg	PU
110608	3/8"	20 - 120	0,900	1

Torque wrenches

1/2" TQ

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel DIN-3122; ISO 6789

Art. no.	drive	Nm	kg	PU
110610	1/2"	20 - 120	1,500	1

Torque wrenches

1/2" TQ

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel DIN-3122; ISO 6790

Art. no.	drive	Nm	kg	PU
110609	1/2"	42 - 210	1,750	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

SysCon socket wrench set Torque ¼"

SysCon

chrome vanadium steel, industrial quality, in ABS plastic box, including HAUPA FlexPlus ratchet screwdriver.

Content:

1	220370	ABS plastic box SysCon S
	12	sockets ¼“ 4 - 4.5 - 5 -5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
	5	sockets ¼“ Tx, long version T20, T25, T27, T30, T40
	4	sockets ¼“ Hex, long version 4, 5, 6, 8 without hole
	2	extension bar ¼“, 50 and 150 mm
	1	adapter ⅜“ x ¼“ for extension bar work as T-handle
	1	universal joint ¼“
	1	bit adapter ¼“
	1	reversible ratchet ¼“
	1	torque wrenches ¼“, 5 – 25 Nm
	1	ratchet screwdriver “Flex”
	2	adapter 50 and 80 mm
	4	bits ¼“ 50 mm PH 0 - 1 - 2 - 3
	4	bits ¼“ 50 mm PZ 0 - 1 - 2 - 3
	2	bits ¼“ 50 mm PZ/FL 1 - 2
	4	bits ¼“ 50 mm SQ 3 - 4 - 5 - 6 mm
	6	bits ¼“ 50 mm hexagonal 2 - 2.5 - 3 - 4 - 5 - 6

Art. no.	set	empty	kg	PU
220640	**51**	220370	4,300	1

SysCon socket wrench set Torque ½"

SysCon

chrome vanadium steel, industrial quality, in ABS plastic box.

Content:

1	220370	ABS plastic box SysCon S
	17	sockets ½“ 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm
	5	sockets ½“ Tx, long version T30, T40, T45, T50, T55
	4	sockets ½“ Hex, long version 8, 10, 12, 14 without hole
	2	extension bar ½“, 75 and 250 mm
	1	adapter ⅜“ x ½“ for extension bar work as T-handle
	1	universal joint ½“
	1	reversible ratchet ½“
	1	torque wrenches ½“, 21 – 119 Nm

Art. no.	set	empty	kg	PU
220642	**32**	220370	7,950	1

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HAUPA GmbH, Lange Str. 40, D-42857 Remscheid, Germany, Phone: +49 (0)2191 8418-0, Fax: +49 (0)2191 8418-840, E-mail: sales@haupa.com

INFO

Switch cabinet keys **Industrial quality**

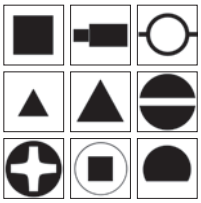
HAUPA Universal keys are ideal for use in building technology.

They are small and lightweight, yet through their zinc die-cast construction they are very robust and stable. The HUPkeys are especially suitable for locking systems in electrical engineering as well as for special applications in construction, plumbing, ventilation and air conditioning technology.

Switch cabinet key, HUPkey with converting bit

Inside square 6 - 7 mm, 8 - 9 mm,
Outside square 5 - 10 mm, two-way 3 - 5 mm,
Triangle socket 7 - 9 mm, triangle socket 11 mm,
SI converting bit for slotted and cross-headed screws
Including 5 mm inside square and crescent on chain

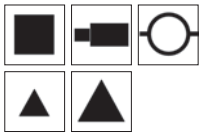
Not available in GB and FR!



Art. no.	kg	PU
110692	0,059	1

Switch cabinet key, HUPkey

Inside square 6 - 7 mm, 8 - 9 mm,
Outside square 5 - 10 mm, two-way 3 - 5 mm,
Triangle socket 7 - 9 mm, triangle socket 11 mm and chain

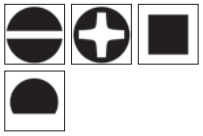
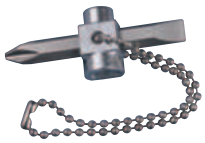


Art. no.	kg	PU
110691	0,059	1

Converting bit for bleeding

SI converting bit for slotted and cross-headed screws
Including 5 mm inside square and crescent on chain

Not available in GB and FR!

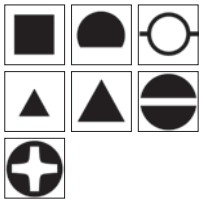



Art. no.	kg	PU
110693	0,059	1

Control cabinet key

Two-way 3 - 5 mm, triangle socket 7- 9 mm,
Triangle socket 11 mm, SI converting bit for slotted
and cross-headed screws on chain

Not available in GB and FR!



Art. no.	kg	PU
110697	0,111	1

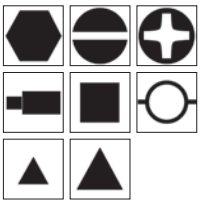
PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

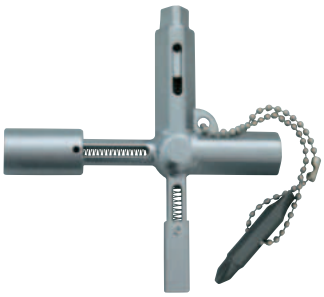
* Bestseller Premium product

Spanners for switch cabinet key, HUPkey Uni

Spanner for switch cabintes with push construction, bitholder and bit on chain, external square 7 + 8 mm, inside square 6, 7, 8, 9 mm, double size 3 - 5 mm, inside threesquare 7, 8, 9, 10, 11 mm

Not available in GB and FR!

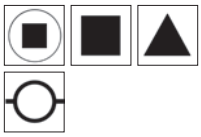




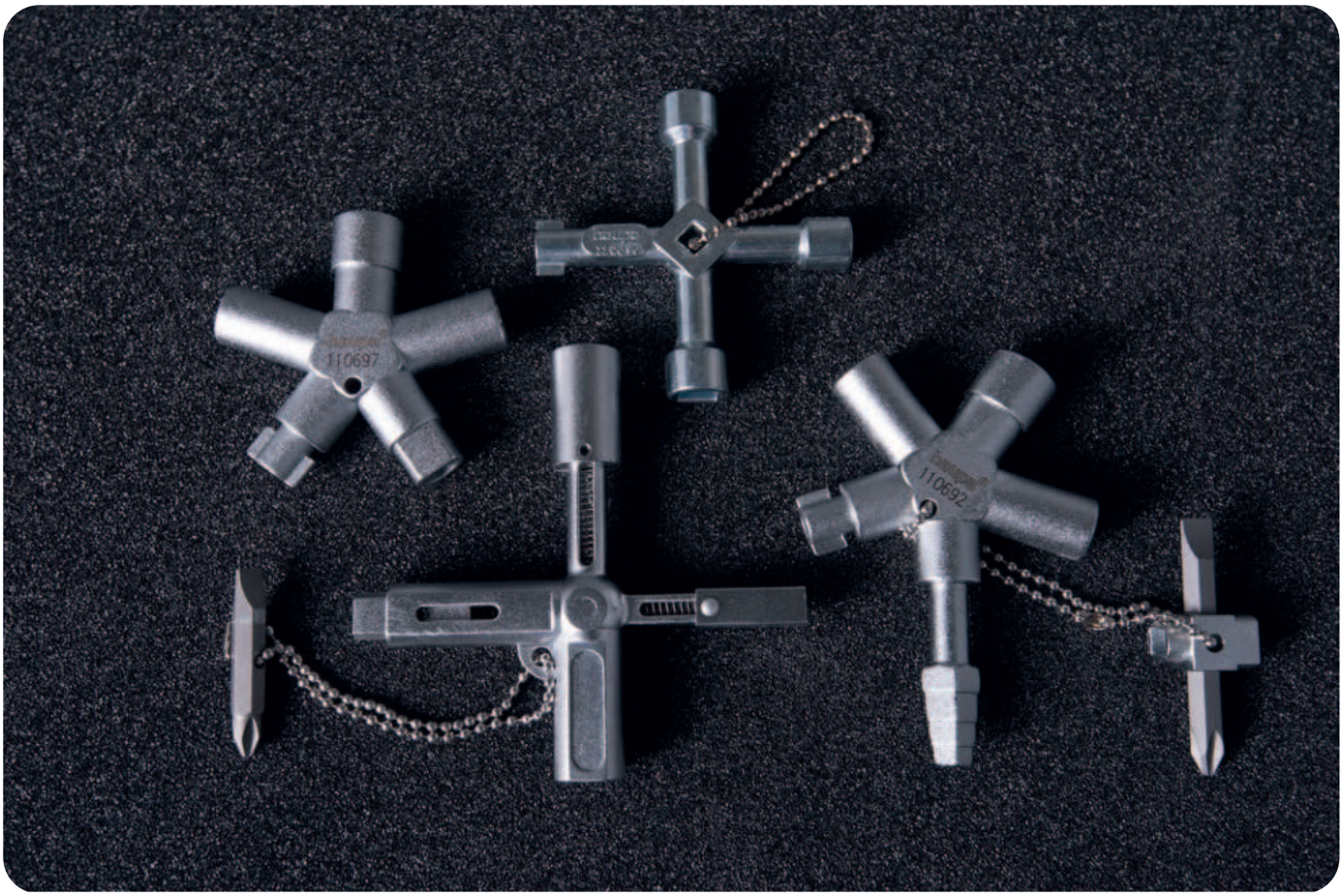
Art. no.	kg	PU
110698	0,059	1

Spanners for switch-cabinets, HUPkey

made of metal for hight torques, small size, low weight, with chain inside square 6 mm, inside square 7 - 8 mm, inside threesquare 7 - 8 mm, double size 3 - 5 mm



Art. no.	size	kg	PU
110696 ✷	**72 x 72**	0,059	1



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Pliers

haupa®
... convincing solutions

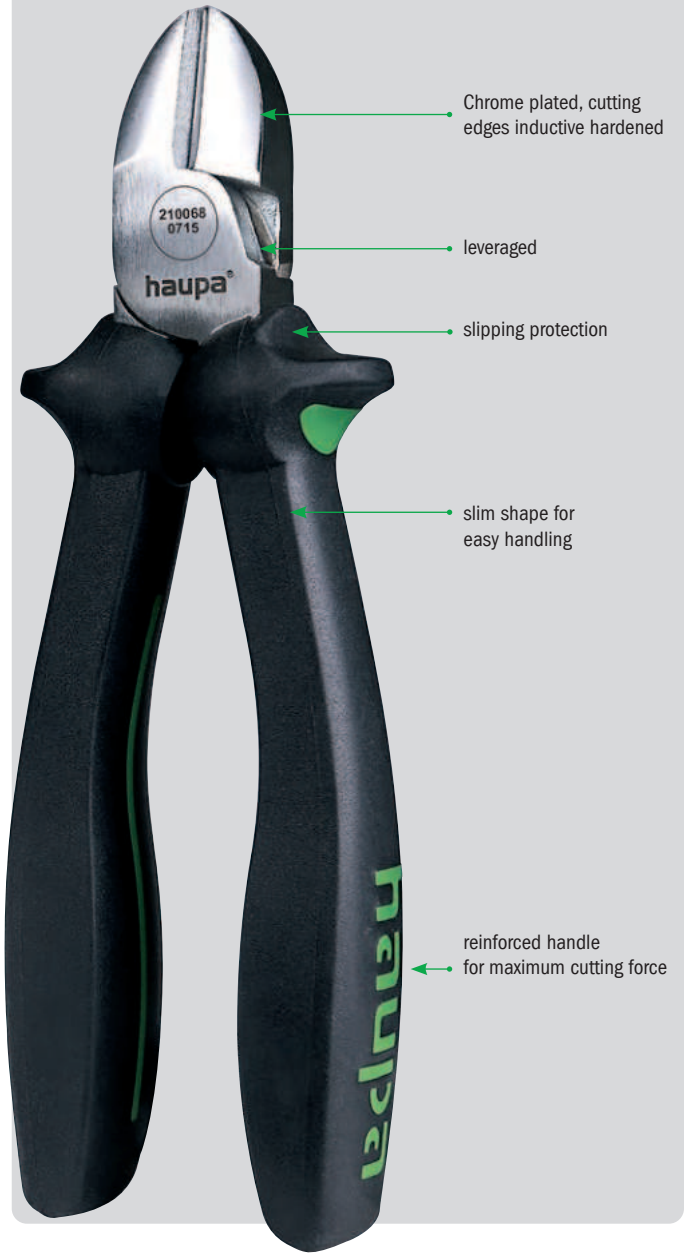
INFO

2-component pliers **Industrial quality**

Pliers range with 2-component handles made of highquality, non-slip, thermoplastic elastomer.

High leverage | perfected cutting force performance

High leverage pliers offer power saving of up to 50%.



Combination pliers DIN ISO 5746

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chrome plated, for soft wire and hard wire, leveraged, perfected cutting force performance.

Art. no.		soft	hard	kg	PU
210052	160	4	2	0,197	1
210053 ✸	180	4	2,2	0,286	1
210054	200	4,2	2,5	0,410	1

Side cutters DIN ISO 5749

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chrome plated, for soft wire and hard wire, leveraged, perfected cutting force performance.

Art. no.		soft	hard	kg	PU
210067	140	4	1,8	0,172	1
210068 ✸	160	4	2	0,237	1
210069	180	4	2	0,237	1

Heavy duty side cutters DIN ISO 5749

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chrome plated, for soft wire and hard wire.

Art. no.		soft	hard	kg	PU
210156	160	4	2,7	0,264	1
210157	180	4	2,7	0,264	1

Heavy duty side cutters DIN ISO 5749

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chrome plated, for soft wire and hard wire, leveraged, perfected cutting force performance.

Art. no.		soft	hard	kg	PU
210158 ✸	200	4,2	3	0,326	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Long flat nose pliers DIN ISO 5745

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chrome plated

Art. no.	⟷	kg	PU
210313	160	0,155	1

Long round nose pliers DIN ISO 5745

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chrome plated

Art. no.	⟷	kg	PU
210350	160	0,153	1

Long chain nose pliers DIN ISO 5745

with side cutter, straight, alloyed carbon steel, forged and annealed, cutting edges induction hardened, for soft wire and hard wire, with 2 component plastic handle with hand protection, chrome plated, leveraged, perfected cutting force performance.

Art. no.	⟷	kg	PU
210394	170	0,154	1
210396 ✸	200	0,253	1

Long chain nose pliers DIN ISO 5745

with side cutter, 45° angled nose, alloyed carbon steel, forged and annealed, cutting edges induction hardened, for soft wire and hard wire, with 2 component plastic handle with hand protection, chrome plated, leveraged, perfected cutting force performance.

Art. no.	⟷	form	kg	PU
210397	160	45°	0,251	1
210398 ✸	200	45°	0,251	1

Wire stripping pliers

alloyed carbon steel C 45, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chrome plated

Art. no.	⟷	mm²	kg	PU
210644	175	0,2 - 6	0,196	1

Water pump pliers DIN ISO 8976

chrome vanadium steel, forged and annealed, curved jaws, gripping chuck hardened, self-locking nut, finger protection, with 2 component plastic handle with hand protection, chrome plated

Art. no.	⟷	kg	PU
210584	240	0,368	1

Water pump pliers DIN ISO 8976

chrome vanadium steel, forged and annealed, curved jaws, gripping chuck hardened, titan-plated, dipped, setting at touch of a button, safe engaging

Art. no.	⟷	kg	PU
210616	170	0,185	1
210617 ✸	240	0,330	1
210618	300	0,545	1

Pliers wrench

- Stepless gripping of all wrench widths thanks to the parallel jaws
- Easy tightening and releasing of screw connections
- Weight-reduced for very light working that is gentle on the joints
- Secure setting of the gripping jaws prevents the joint slipping through
- Gentle on surfaces thanks to the smooth, polished gripping surfaces
- 10-fold manual force amplification for very high clamping force
- With comfortable single-hand adjustment pushbutton
- With finger clamp protection for safe working
- Chrome-vanadium tool steel ensures high durability and a long product life
- Handles in black/green soft dip insulated

Replaces entire open wrench set!
Thanks to the parallel jaws, screw edges are not damaged!

360° | 210615

360° | 210619

Art. no.	⟷	⬡	kg	PU
210615	180	**36**	0,111	1
210619	260	**50**	0,368	1

Pliers set

Content:
1 compination pliers 180 mm
1 diagonal cutter 160 mm
1 long chain nose pliers 200 mm
1 wire stripping pliers 160 mm

≤50%

Art. no.	**set**	kg	PU
220128	**4**	1,044	1

Pliers set

Content:
1 compination pliers 180 mm
1 heavy duty diagonal cutter 180 mm
1 long chain nose pliers 200 mm
1 wire stripping pliers 160 mm

≤50%

Art. no.	**set**	kg	PU
220129	**4**	1,082	1

Special pliers

Grip pliers

one jaw straight, one jaw movable, forged of chrome vanadium, a real universal plier for gripping any kind of workpiece, flat round or square, with quick-release lever and adjustable screw

Art. no.	⟷	⬡	kg	PU
210556	250	0 - 40	0,518	1

Grip pliers

jaws drop, forged of chrome vanadium, adjustable screw, quick-release lever, half-round jaws, with wire cutter

Art. no.	⟷	⬡	kg	PU
210562	250	0 - 40	0,565	1

Pipe pliers

Chrome vanadium steel, forged, special hardened teeth, S-opening, polished, finger pinch protection

Art. no.	⟷	⬡	tube	kg	PU
210592	320	0 - 45	1"	0,798	1
210594	435	0 - 59	1 1/2"	0,800	1
210596	560	0 - 76	2"	2,460	1

Riveting tool set

in portable plastic box. **Content:** 1 plier no. 210770, 100 pieces of alu space rivets 4 mm Ø, short-middle-long, 2 twist drills and washers.

Art. no.	⟷	kg	PU
210776	250	0,840	1

Riveting pliers

made of aluminium-pressure casting, all inner parts made of special alloyed steel and hardened, with 4 exchangeable nozzles 2,4-3-4-5 mm, for blind rivets of aluminium-copper or steel

Art. no.	⟷	kg	PU
210770	250	0,552	1

Electronic pliers

Tweezers

special design for wafers, long, extra small blades, needle fine top ends, stainless steel, antimagnetism acid resistent

Art. no.	⟷	kg	PU
211080	130	0,017	1

Microelectronic side cutters

without cutting-facet, clearance angle: 50°, with clip, for soft wires up to 0.8 mm²

Art. no.	⟷	kg	PU
211708	118	0,069	1

Microelectronic side cutters

without cutting-facet, clearance angle: 21°, with clip, for soft wires up to 1.3 mm²

Art. no.	⟷	kg	PU
211720 ✸	132	0,086	1
211722	158	0,087	1

INFO

ESD Electronic pliers **Industrial quality**

Advantages:

- Ergonomically shaped, non-slip 2-component handle ensures comfortable and precise working
- Special tool steel, forged and tempered, edges hardened (58 ± 2HRC)
- Surface resistance 10.9 Ohm, in accordance with electronics area ESD
- Each mechanism checked
- precision pliers for meticulous assembly work for example in electronics and precision engineering
- for picking up, holding and bending
- model with electric discharging
- precision hinges
- smooth handle surfaces
- low-friction double spring for smooth and steady opening
- handles with two-coloured multi-component handle covers black/green
- special tool steel

Not only people, objects also experience electrostatic charging as a result of movement, friction and being handled.

Such charging can lead to the destruction of endangered components. HAUPA ESD - electronics pliers discharge such energy slowly and in a controlled way.

ESD Electronic needle nose pliers

with wire cutter, special tool steel

Art. no.	↔	kg	PU
211850	130	0,091	1

ESD Electronic needle nose pliers, 45° angle

with wire cutter, special tool steel

Art. no.	↔	form	kg	PU
211852	130	45°	0,089	1

ESD Electronic needle nose pliers

straight construction, special tool steel

Art. no.	↔	kg	PU
211854	130	0,082	1

ESD Electronic needle nose pliers, 45° angle

45° angle, special tool steel

Art. no.	↔	form	kg	PU
211856	130	45°	0,081	1

ESD Electronic thin needle nose pliers, 45° angle

45° angle, special tool steel

Art. no.	↔	form	kg	PU
211860	140	45°	0,084	1

ESD Electronic thin needle nose pliers

straight construction, special tool steel

Art. no.	↔	kg	PU
211862	150	0,087	1

ESD electronic pliers

ESD Electronic thin needle nose pliers, 45° angle

45° angle, special tool steel

Art. no.	⟷	form	kg	PU
211864	150	45°	0,087	1

ESD Electronic flat nose pliers

Special tool steel

Art. no.	⟷	kg	PU
211866	130	0,090	1

ESD Electronic round nose pliers

straight construction, special tool steel

Art. no.	⟷	kg	PU
211868	130	0,091	1

ESD Electronic side cutter

normal construction, head width 14 mm,
special tool steel

Art. no.	⟷	kg	PU
211870 ✸	115	0,078	1

ESD Electronic side cutters

slim construction, head width 10 mm,
special tool steel

Art. no.	⟷	kg	PU
211872	110	0,075	1

ESD Electronic side cutter without cutting-facet

normal construction, head width 14 mm
without chamfer, special tool steel

Art. no.	⟷	kg	PU
211875 ✸	115	0,075	1

ESD Electronic front cutter

Special tool steel

Art. no.	⟷	kg	PU
211874	115	0,093	1

ESD Electronic combination pliers

with wire cutter, special tool steel

Art. no.	⟷	kg	PU
211876	115	0,077	1

ESD electronic pliers

ESD Electronic pliers set

Special tool steel
Content:
Art. No. 211862, 211870, 211874, 211876

Art. no.	**set**	kg	PU
211880	**4**	0,585	1

LED lamps/torches and Compact floodlights

haupa®
... convincing solutions

INFO

LED lamps/torches **Industrial quality**

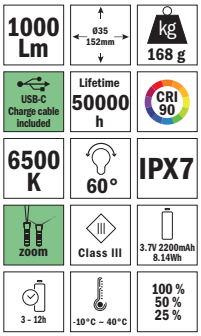
HAUPA high-performance LED lamps/torches for daily work use

Extremely high illumination performance with minimum battery load thanks to highly modern **CREE LED** bulbs

LED flashlight, HUPflash1000

This flashlight is your compact partner for any application where professional lighting is needed.
The flashlight features Twist-Focus technology, allowing you to adjust the light beam by twisting the head. The button enables dimming from 100%, to 50%, and 25%. Enjoy flicker-free, cool white light that reaches up to 100 meters.
Waterproof (IPX7) and powered by a rechargeable lithium-ion battery via a supplied USB cable (USB-C). The battery is a standard commercial cell (18650) and can be easily replaced.

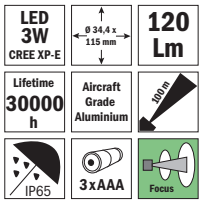
- Rechargeable
- Dimmable
- Zoom function



Art. no.	Ø		kg	PU
130384	35	152	0,168	1

LED Focus Torch

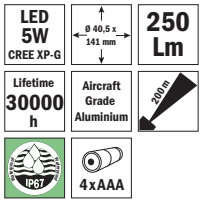
- Adjustable focus for near and far
- LED 3 Watt CREE XP-E
- 3xAAA batteries



Art. no.	Ø		kg	PU
130312 ✸	34,4	115	0,200	1

LED IP67 Torch

- IP67, dust-tight, protected against brief submersion (water-tight)
- 1 x switch operation 100 % lighting performance
  2 x switch operation 30 % lighting performance
- LED 5 Watt CREE XP-G
- 4xAAA batteries



Art. no.	Ø		kg	PU
130314	40,5	141	0,440	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Holster for LED torches

Suitable for item numbers: 130312, 130314

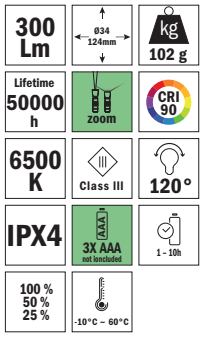
Art. no.	width	height	depth	kg	PU
130322	30	100	10	0,180	1

LED flashlight, HUPflash300

NEW

This flashlight is your compact partner for any application where professional lighting is needed.
The flashlight features Twist-Focus technology, allowing you to adjust the light beam by twisting the head. The button enables dimming from 100%, to 50%, and 25%. Enjoy flicker-free, cold white light that reaches up to 100 meters.
The flashlight is splash-proof and powered by three AAA batteries (not included).

- Splashwater protected
- Dimmable
- Zoom function



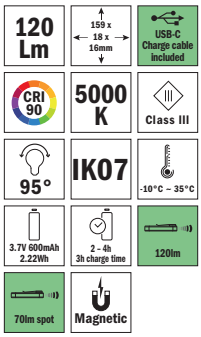
Art. no.	Ø	⟷	kg	PU
130390	34	124	0,102	1

LED flashlight, HUPflash120

NEW

Perfect for both industrial and trade applications. The rechargeable penlight has two light sources: at the head and on the side. The penlight comes with a USB-C charging cable.
Each penlight is equipped with a magnetic clip, allowing you to easily attach the lamp to any magnetic surface. The flexible use combined with the compact size makes this penlight very practical for professional use by mechanics, craftsmen, technicians, and others.

- Compact pin form
- With magnetic holding clip
- Main and inspection light



Art. no.	⟷	height	depth	kg	PU
130388	159	18	16	0,042	1

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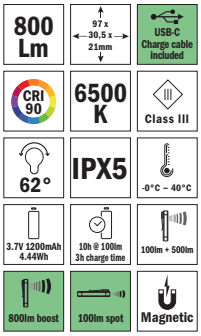
LED flashlight, HUPflash800

Our mini flashlight, specially designed to meet your lighting needs, features three different modes: High mode 500 lumen, Low mode 100 lumen, and Top-LED mode for 150 lumen, as well as the Boost mode: Unleashes a powerful 800 lumen boost by pressing and holding the button (3s).
With its sleek, compact design, aluminium housing, and features such as a base and a clip magnet, it effortlessly adapts to your needs and is ideal for use in industrial and trade applications.
The reliable battery lasts approximately 1.5 hours, eliminating the need for frequent recharging or battery replacement.
Experience simplicity through one-button functionality and efficient charging, ensuring your mini flashlight is always ready for the next job.

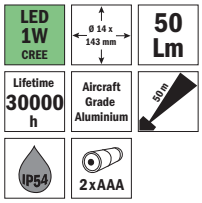
- Streamlined and compact design
- Strong magnets
- Versatile



Art. no.		height	depth	kg	PU
130382	97	30,5	21	0,100	1

LED Pen Torch

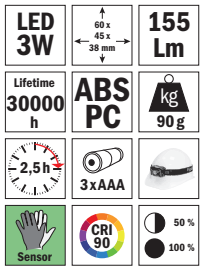
- Illumination range: 50 m
- 50 Lm
- LED 1 Watt CREE
- With clip
- 2xAAA batteries



Art. no.	Ø		kg	PU
130328 ✸	14	143	0,060	1

LED head lamp HUPflash155

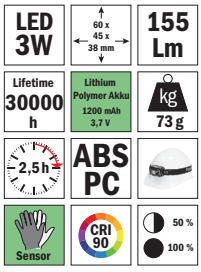
- 3 W COB LED
- Material: ABS, PC
- Luminosity 155 Lm
- Colour reproduction 90 CRI
- Battery-powered (3 x AAA included in the scope of delivery)
- Variable light intensity, 50% | 100%
- Operating time:
  - approx. 2.5 hours at 100% light intensity
  - approx. 4 hours at 50% light intensity
- Very easy-to-balance headlamp
- Automatically switches on and off, thanks to special sensor technology
- Easy to operate e.g. when wearing protective gloves
- Headband with silicone strips for secure fastening to work helmets
- Dimensions: 60 x 45 x 38 mm
- Weight: 49 g (without batteries)



Art. no.	width	height	↔	kg	PU
130319	45	38	60	0,250	1

LED Headlight HUPflash155+

- 3.7 V 1200 mAh lithium polymer battery
- 3 W COB LED
- Material: ABS, PC
- Light intensity 155 Lm
- Colour reproduction 90 CRI
- Variable light intensity, 50% | 100%
- Operating time:
  - approx. 2.5 hours at 100% light intensity
  - approx. 4 hours at 50% light intensity
- Charging cable (micro USB) included in the scope of delivery
- Charging time approx. 4 hours
- Very easy-to-balance headlamp
- Automatically switches on and off, thanks to special sensor technology
- Easy to operate e.g. when wearing protective gloves
- Headband with silicone strips for secure fastening to work helmets
- Dimensions: 60 x 45 x 38 mm
- Weight: 73 g



Art. no.	width	height	↔	kg	PU
130321	45	38	60	0,073	1

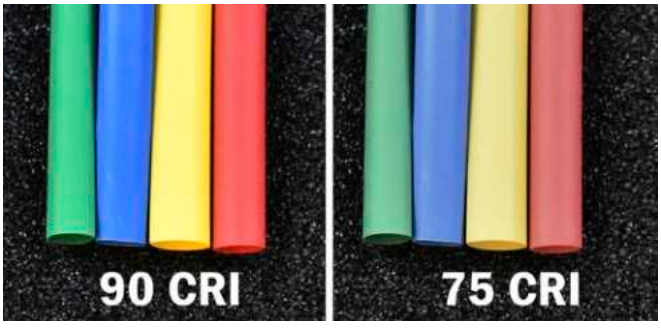
For a good overall view

Work safely thanks to the higher colour rendering index CRI

We all know the problem... Poorly lit work areas - the colours of the individual wires in the cables are hard to differentiate.
Now HAUPA has the solution: work lights and compact spots with a higher colour rendering index CRI.

The new lamps have a CRI of 90. In comparison: daylight has a value of 100. This makes colours more natural and much easier to distinguish thanks to the higher brilliance.

The result: improved safety for professionals at work. The colours are easier to recognise and work can be performed much faster.



CRI 90 makes the difference. Conventional work lamps have a CRI of 75.

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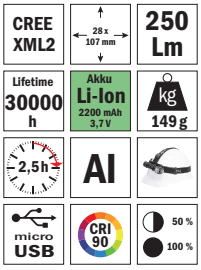
LED Headlamps

LED head lamp HUPflash250

- Li-Ion battery 18650 3.7 V 2000 mAh
- Can be used as a headlamp or a torch
- CREE XML2 LED
- Light intensity 250 Lm
- Colour reproduction 90 CRI
- 3 different light intensity levels + flash + SOS mode
- Stable housing, made of aluminium, copper and stainless steel
- Variable light intensity, 50% | 100%
- Operating time:
  - approx. 2.5 hours at 100% light intensity
  - approx. 4 hours at 50% light intensity
- Charging time approx. 4 hours
- With pocket clip for attachment to bags and belts
- Headband with silicone strips for secure fastening to work helmets
- Magnetic stand
- Charging cable (micro USB) included in the scope of delivery
- Dimensions: 28 x 107 mm
- Weight: 149 g



Art. no.	width		kg	PU
130323	28	107	0,149	1

Work lamps

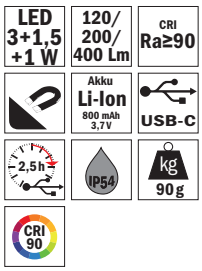
LED inspection lamp HUPlight400

NEW

- White SMD main LED with 400 Lumens on the front side
- Secondary rear 200 Lumens white SMD-LED
- Additional upper spot – 120 Lumens white SMD-LED
- Extremely rugged design made of nylon and aluminium
- 200° vertically foldable head with super-strong magnetic base
- Loop and hanging system for easy use
- Two strong magnets on the back of the lamp
- IK07 super rugged, impact resistant design
- Large reflector SMD-LED
- 5 V charging system for charging the battery
- Integrated USB-C charging port with protective cover
- 1 A direct USB-C charging – 2 hours charging time
- 1 m USB-C charging cable included

Specifications:

- Lithium 3.7 V, 800 mAh, rechargeable
- LED: Front side main 3 W, SMD LED 400 Lm, CRI 90 Back side 1.5 W, SMD LED 200 Lm, CRI 90 Spot 1 W, SMD LED, 120 Lm, CRI 90
- Ambient temperature: -10°C – +45°C
- Operating time: 3 h to 6 h for main LED in front, 6 h for rear LED, 6 h for spot LED
- Dim switch for the front main LED: 100% – 50%
- Charging time: approx. 2.5 h
- Protection class: III
- USB-C input for charging: 5 V, 1000 mA
- Lamp dimensions: 160 x 37 x 21 mm
- Net weight: 90 g (not including packaging)



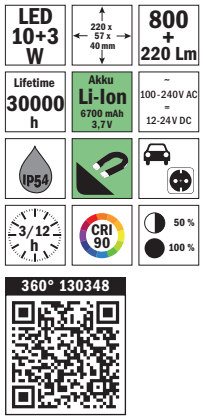
Art. no.		height	depth	kg	PU
130378	160	37	21	0,090	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

LED working light HUPlight10+3

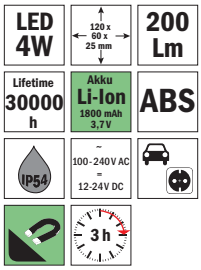
- Integrated Li-Ion 3.7V / 6.7Ah battery
- 10 watt + 3 watt LED
- High-quality plastic housing
- For use inside and out, splashproof acc. to IP54
- Extremely bright illumination, 7000K colour temperature
- 220 Lm (3W LED) + 800 Lm (10W LED) luminosity
- Colour rendering 90 CRI (Colour Rendering Index)
- Variable light output, 50% | 100%
- Operating time
  10W LED: - Approx. 3 hours with 100% light output
  - Approx. 6 hours with 50% light output
  3W LED: - Approx. 12 hours with 100% light output
  - Approx. 24 hours with 50% light output
- 3.5 hours charging time using power unit supplied
- Charger: 100 – 240 V AC plug-in power supply (5V/2A DC)
- 12V KFZ charging cable
- Adjustable magnetic stand
- With hook for hanging
- With belt clip



Art. no.	width	height	⟷	kg	PU
130348	57	40	220	0,380	1

Mini working light HUPlight4

- Rechargeable battery, lithium-ion 1800 mAH 3.7 V
- LED 4 Watt
- Approximately 200 Lumen lighting performance
- Approximately 3 hours lighting performance
- Lamp may be charged using the micro USB port
- Stand may be angled
- Dual magnetic bracket
- Hook for securing and hanging
- Can be used and carried everywhere



Art. no.	width	height	⟷	kg	PU
130336 ✸	25	120	60	0,260	1

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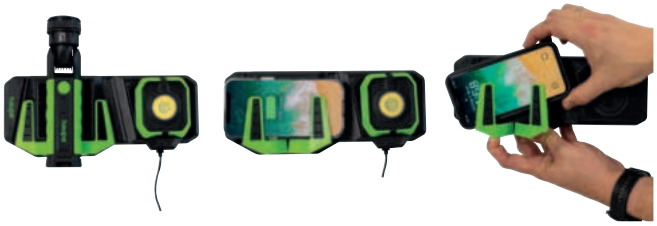
LED charging station HUPlightWLcharger

- Charges two devices simultaneously
- Works with compatible mobile phones
- IK08 impact resistance
- Strong magnets on back side enable easy mounting on magnetic surfaces and integrated screw holes for permanent mounting

Specifications:
- Material: ultra-hard nylon, aluminium, rubber, PC and TPE
- Power adapter: Input: 100 – 240 V~, 50/60 Hz, 0.8 A, Output: 5 V DC, 3.0 A 20 W max., USB charging cable: USB-C to USB-C x 1 m
- When charging with the wireless pad: Charge time: approx. 3.0 – 8.0 hours, depending on battery pack – the ambient temperature affects the charge and discharge time of the battery
- Operating temperature: -5°C to +30°C
- Charging station dimensions: 265 x 110 x 29 mm
- Net weight: 330 g (not including packaging)

Content:
- USB power adapter: Input: 100 – 240 V~, 50/60 Hz, 0.8 A, Output: 20 W, 5 V DC 3.0 A
- USB charging cable: USB-C to USB-C x 1 m



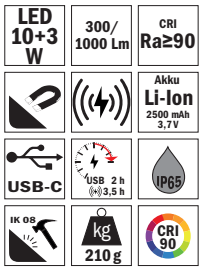
Art. no.	⟷	width	Height	kg	PU
130376	265	110	29	0,330	1

LED work lamp HUPlightWL1000

- Supports wireless charging (charging station HUPlightWLcharger Art. 130376)
- Colour reproduction 90 CRI
- Super bright 1,000 lumens COB-LED
- Super bright spot LED with 300 lumens
- Stand with magnetic base rotates 160 degrees
- Battery status and charging indicators
- Protection class IP65
- IK08 impact resistance

Specifications:
- Main LED: 10 W COB 1,000 LM; Spot LED: 3 W 300 LM
- Ultra-hard nylon, aluminium, PC, TPE and Fe
- Battery Li-Ion 3.7 V/2,500 mAh, rechargeable
- Power adapter: Input: 100 – 240 V~, 50/60 Hz, 0.8 A, Output: 5 V DC, 3.0 A, 20 W max.
- USB charging cable: USB-C to USB-C x 1m
- Charging time: approx. 2 hours (charging station HUPlightWLcharger approx. 3.5 hours)
- Operating time: 3 – 12 hours
- Operating temperature: -5°C to +45°C
- Lamp dimensions: 72 x 40 x 92 mm
- Net weight: 210 g (not including packaging)

Content:
- USB charging cable: USB-C to USB-C x 1 m



Art. no.	⟷	height	depth	kg	PU
130374	92	72	40	0,210	1

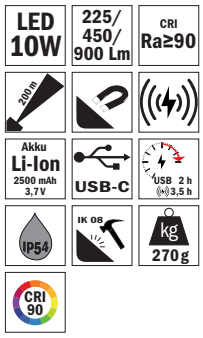
* Bestseller Premium product

LED work lamp HUPlightWL900

- Supports wireless charging (charging station HUPlightWLcharger Art. 130376)
- Colour reproduction 90 CRI
- Super bright 900 lumens COB-LED
- Head rotates 180 degrees
- Focus function, beam angle 20° to 110°
- Luminous range: max. 200 m
- With strong magnetic base
- Battery status and charging indicators
- Protection class IP54
- IK08 impact resistance

Specifications:
- LED: 10 W 900 LM
- Ultra-hard nylon, aluminium, PC, TPE and Fe
- Battery Li-Ion 3.7 V/2,500 mAh, rechargeable
- Power adapter: Input: 100 – 240 V~, 50/60 Hz, 0.8 A, Output: 5 V DC, 3.0 A, 20 W max.
- USB charging cable: USB-C to USB-C x 1m
- Charging time: approx. 2 hours (charging station HUPlightWLcharger approx. 3.5 hours)
- Operating time: 3 – 12 hours
- Operating temperature: -5°C to +45°C
- Lamp dimensions: 47 x 48 x 192 mm
- Net weight: 270 g (not including packaging)

Content:
- USB charging cable: USB-C to USB-C x 1 m



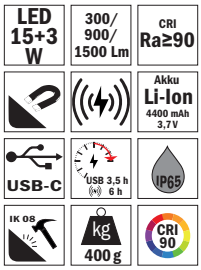
Art. no.	⟷	height	depth	kg	PU
130372	192	47	48	0,270	1

LED inspection lamp HUPlightWL1500

- Supports wireless charging (charging station HUPlightWLcharger Art. 130376)
- Colour reproduction 90 CRI
- Super bright 1500 lumens COB-LED lamp
- Super bright spot LED with 300 lumens
- Integrated hook – lamp/torch can be positioned in a wide range of angles
- Battery status and charging indicator
- Powerful magnet on the back for hands-free work
- Protection class IP65
- IK08 impact resistance

Specifications:
- LED: 15 W COB SUPERWHITE + 3 W LED
- Lumens: main light 15 W, 1,500 Lm; spot LED 3 W, 300 Lm
- Material: Ultra-robust nylon, aluminium, PC, rubber and TPE
- Battery Li-Ion 3.7 V/4400 mAh, rechargeable
- Power adapter: Input: 100 – 240 V~, 50/60 Hz, 0.8 A, Output:PD 20 W, 5 V DC, 3.0 A, 20 W max.
- USB charging cable: USB-C to USB-C x 1m
- Charging time: approx. 3.5 hours (charging station HUPlightWLcharger approx. 6 hours)
- Operating time: 3.0 – 14.0 hours
- Operating temperature: -5°C to +45°C
- Lamp dimensions: 77 x 171 x 41 mm
- Net weight: 400 g (not including packaging)

Content:
- USB charging cable: USB-C to USB-C x 1 m



Art. no.	⟷	height	depth	kg	PU
130370	171	77	41	0,400	1

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LED Set HUPlightWL1500+1000

Set comprising:
Charging station HUPlightWLcharger Art. 130376
LED work lamp HUPlightWL1000" Art. 130374
LED inspection lamp HUPlightWL1500 Art. 130370

For technical specifications, see respective item

Art. no.	set	kg	PU
130371	3	0,940	1

LED set HUPlightWL900+1000

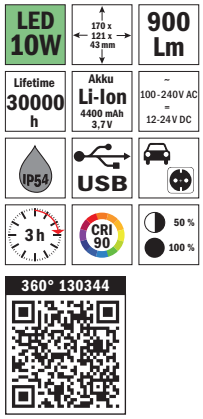
Set comprising:
Charging station HUPlightWLcharger Art. 130376
LED work lamp HUPlightWL1000 Art. 130374
LED work lamp HUPlightWL900 Art. 130372

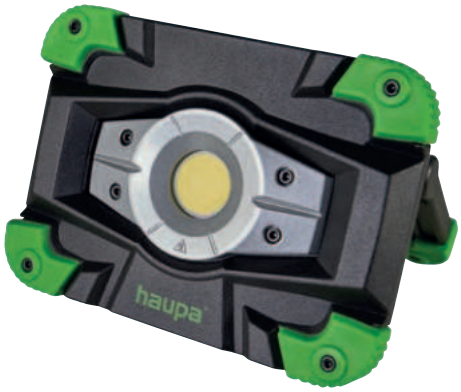
For technical specifications, see respective item

Art. no.	set	kg	PU
130373	3	0,810	1

Compact floodlight HUPlight10pro

- Integrated Li-Ion 3.7V / 4.4Ah battery
- 10 watt LED
- High-quality and solid housing made of diecast aluminium, with plastic edge protector
- For use inside and out, splashproof according to IP54
- Extremely bright illumination, 6500 K colour temperature
- 900 Lm luminosity
- Colour rendering 90 CRI (Colour Rendering Index)
- Variable light output, 50% | 100%
- Operating time:
  - Approx. 3 hours with 100% light output
  - Approx. 6 hours with 50% light output
- Approx. 4.75 hours charging time using power unit supplied
- Can be used to charge external devices via USB (power bank function)
- Charger: 100 – 240 V AC plug-in power supply (5 V/1A DC)
- 12V KFZ charging cable
- Adjustable stand

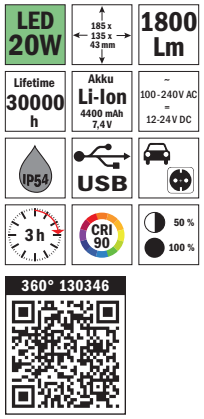




Art. no.	width	height	↔	kg	PU
130344	121	43	170	1,000	1

Compact floodlight HUPlight20pro

- Integrated Li-Ion 7.4V / 4.4Ah battery
- 20 watt LED
- High-quality and solid housing made of diecast aluminium, with plastic edge protector
- For use inside and out, splashproof according to IP54
- Extremely bright illumination, 6500 K colour temperature
- 1800 Lm luminosity
- Colour rendering 90 CRI (Colour Rendering Index)
- Variable light output, 50% | 100%
- Operating time:
  - Approx. 3 hours with 100% light output
  - Approx. 6 hours with 50% light output
- 5 hours charging time using power unit supplied
- Can be used to charge external devices via USB (power bank function)
- Charger: 100 – 240 V AC plug-in power supply (12 V/1A DC)
- 12V KFZ charging cable
- Adjustable stand

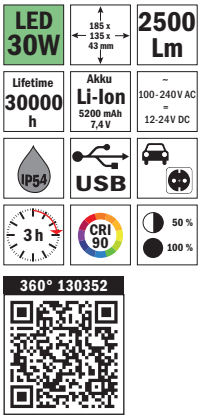


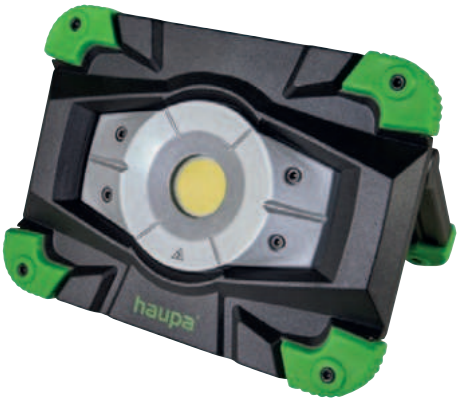
Art. no.	width	height	↔	kg	PU
130346	135	43	185	1,340	1

HUPlightpro Crashtest

Compact floodlight „HUPlight30pro“

- Integrated Li-Ion 7.4V / 5.2Ah battery
- 30 watt LED
- High-quality and solid housing made of diecast aluminium, with plastic edge protector
- For use inside and out, splashproof according to IP54
- Extremely bright illumination, 6500 K colour temperature
- 2500 Lm luminosity
- Colour rendering 90 CRI (Colour Rendering Index)
- Variable light output, 50% | 100%
- Operating time:
  - Approx. 3 hours with 100% light output
  - Approx. 6 hours with 50% light output
- 5 hours charging time using power unit supplied
- Can be used to charge external devices via USB (power bank function)
- Charger: 100 – 240 V AC plug-in power supply (12 V/1A DC)
- 12V KFZ charging cable
- Adjustable stand





Art. no.	width	height		kg	PU
130352	135	43	185	1,320	1

Magnetic lamp holder

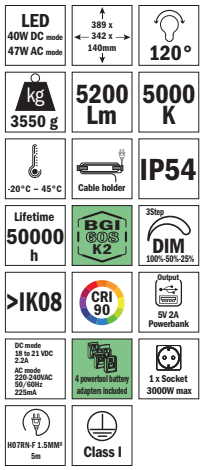
- Holder for affixing working lamps
- Suitable for Item Nos. 130344, 130346, 130352
- extra strong magnet for flexible mounting

Art. no.	width	height		kg	PU
130343	85	85	40	0,470	1

LED construction site lamp HUPlight5200hybrid

This versatile hybrid (230 V & battery) work light is specially designed for professional craftsmen, mechanics, and construction workers who are often on the go. It comes equipped with a battery holder suitable for 18 V batteries from **HAUPA, Makita, Dewalt, Milwaukee, Bosch (AMP Share), Metabo (CAS)**.
The corresponding adapters are included, eliminating the need to purchase an additional battery system.
The work light is dimmable in two stages (50%, 25%), has a cool white colour temperature (5,000 K), and a colour rendering index of RA >90. The operating time ranges from 2.5 to 9 hours (based on an 18 V/5 AH battery), depending on the selected light output mode. The opal diffuser reduces glare from the 5,200 lumen strong light source and ensures homogeneous illumination of the workplace.
The housing and front diffuser are made of impact-resistant polycarbonate (IK08). The light is dust and splashwater protected thanks to the sturdy battery cover (IP54).
This work light is equipped with technology that prevents overheating and deep discharge of the battery.
The batteries must be charged with the manufacturers' charging stations and are not included.
In addition to batteries, the work light can also be powered by the included 5 m long connection cable H07RN-F 3G 1.5 mm². This work light is equipped with a socket (max. 3000 W), allowing the connection of another light, power tool, or other device, eliminating the need for additional extension cords.
Safety: In the event of a power outage, this work light automatically switches to battery operation within approximately 0.5 seconds, ensuring you never sit in the dark and minimizing the risk of injuries and damage.

- Compatible with 18 V battery systems from Bosch (AMP Share), Makita, Milwaukee, DeWalt, and CAS (Metabo), corresponding adapters included
- 230 V AC or 18 V DC operation with emergency light function
- Designed and certified for use on construction sites, both indoors and for temporary outdoor use



Art. no.	width	height	depth	kg	Pl
130386	389	342	140	3,550	1

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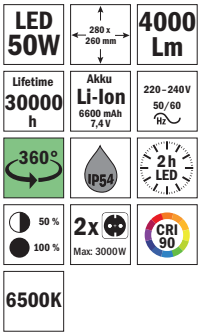
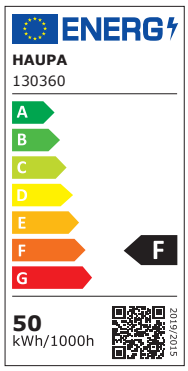
Domed luminaire HUPlight50combi

- integrated Li-Ion 7.4 V / 6.6 Ah battery
- 50 watt LED
- extremely resistant housing made of highly impact-resistant plastic
- for indoor and outdoor use, protected against splashing water according to IP54
- Extremely bright illumination, colour temperature 6500 K
- Brightness 4000 Lm
- Colour rendering 90 CRI (Colour Rendering Index)
- Variable light output, 50% | 100%
- Operating time:
  - Approx. 2 hours with 100% light output
  - Approx. 4 hours with 50% light output
- Charging time approx 2.5 hours
- 2x earthed sockets: 220 – 240 V~AC | Max: 3000 W
- Charging/power source of external / other devices
- Cable: 5 Metre H07RN-F 3G1.5mm²
- Hook for mounting and hanging up
- Carrying handle
- Dimensions: Ø 280 x 260 mm





Art. no.	width	height	kg	PU
130360	280	260	3,400	1

Stand for HUPlight50combi

- Dimensions: 115 x 115 x 300 cm
- Adjustable height maximum 3 m
- Weight: ca. 3,5 kg

Art. no.	width	height		kg	PU
130361	1150	3000	1150	7,000	1

PU Packing unit

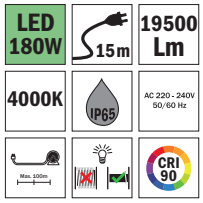
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

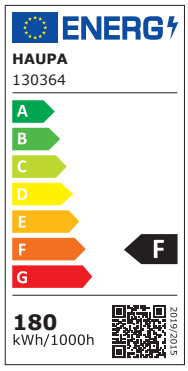
✱ Bestseller Premium product

LED light strip HUPlightStripe15

Ideal for illuminating building sites, especially building shells! The LED light strip can be simply suspended from the ceiling. e.g. with cable ties, and illuminates the work area evenly. Durable and unbreakable, and can be used without any annoying tripods. Can be stowed away as tidily and compact as a cable drum.

- Operating voltage: AC 220 – 240 V 50/60 Hz
- Connected load: 180 W
- Colour: warm white 4000 K
- 180 LEDs per metre
- Total length 15 m + connecting cable 2,5 m
- Can be extended up to 100 metres by means of plug or screw connections
- 120° radiation angle
- Colour rendering index CRI > 90
- Brightness (luminous flux) 19500 Lm
- Protection class 2
- Also for use outdoors IP65
- Light strip must be completely unrolled before use
- Dimensions light strip: W 16 mm x H 8 mm
- Dimensions drum: W 286 mm x D 210 mm x H 338 mm



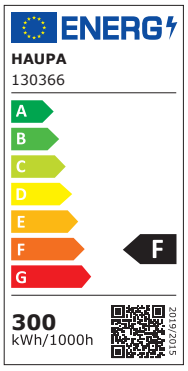


Art. no.	width	height	⟷	kg	PU
130364	16	8	15000	4,400	1

LED light strip HUPlightStripe25

Ideal for illuminating building sites, especially building shells! The LED light strip can be simply suspended from the ceiling. e.g. with cable ties, and illuminates the work area evenly. Durable and unbreakable, and can be used without any annoying tripods. Can be stowed away as tidily and compact as a cable drum.

- Operating voltage: AC 220 – 240 V 50/60 Hz
- Connected load: 300 W
- Colour: warm white 4000 K
- 180 LEDs per metre
- Total length 25 m + connecting cable 2,5 m
- Can be extended up to 100 metres by means of plug or screw connections
- 120° radiation angle
- Colour rendering index CRI > 90
- Brightness (luminous flux) 32500 Lm
- Protection class 2
- Also for use outdoors IP65
- Light strip must be completely unrolled before use
- Dimensions light strip: W 16 mm x H 8 mm
- Dimensions drum: W 317 mm x D 250 mm x H 385 mm



Art. no.	width	height	⟷	kg	PU
130366	16	8	25000	6,500	1

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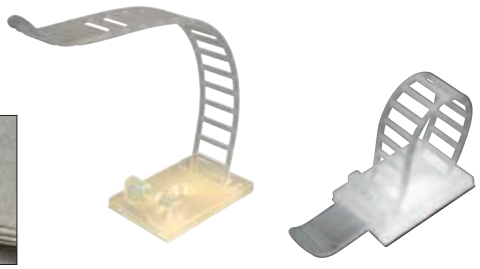
Adjustable cable clip with adhesive socket

Material: Polyamide 6.6, halogen-free, UL94V-2, **for fast and secure attachment of the HUPlightStripes, all 0.5 m.** With high-quality 3M adhesive pad (adhesive capacity 2 kg on smooth and grease-free surfaces), easy to open and close, reusable thanks to screw hole for drill attachment, colour: natural and black, dimensions: 90 x 12 mm, **contents: 100 units**



Art. no.	⟷	w	h	Ø	PU	PrU
262192	90	12	7,6	3,4	100	100

Adjustable cable clip with adhesive socket

Material: Polyamide 6.6, halogen-free, UL94V-2, **for fast and secure attachment of the HUPlightStripes, all 0.5 m.** With high-quality 3M adhesive pad (adhesive capacity 2 kg on smooth and grease-free surfaces), easy to open and close, reusable thanks to screw hole for drill attachment, colour: natural and black, dimensions: 90 x 12 mm, **contents: 100 units**

Art. no.	⟷	w	h	Ø	PU	PrU
262193	90	12	7,6	3,4	100	100

LED Renovation Light HUPlightEasy

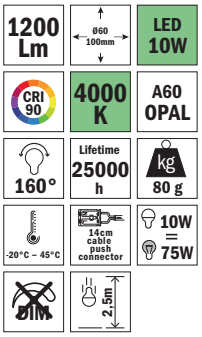
The Renovation Light HUPlightEasy is the quick, affordable, and uncomplicated solution for illuminating construction sites, vacant apartments, storage rooms, etc.

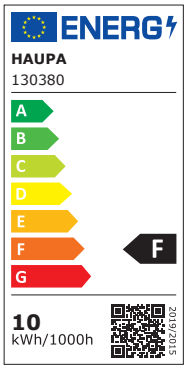
NEW

- Impact-resistant polycarbonate housing
- Spring clips
- Lifespan 25,000 hours
- Renovation light including built-in LED bulb with opal diffuser
- Emits neutral white light
- Beam angle of 160 degrees
- 14 cm connection cable, hanger, and spring clip for easy and fast installation without tools
- Lamp body made of impact-resistant polycarbonate and withstands fall heights of up to 2.5 m
- Suitable for use at temperatures from -20 to 45°C

Note: Renovation light is NOT intended for installation in luminaries.

Content: 5 pieces





5x

Art. no.	Ø	⟷	kg	PU
130380	60	100	0,270	5

Measuring tools

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Folding ruler

with spring joint, mm-graduations on both sides

Art. no.	type	⟷	width	kg	PU
240002 ✸	wood	2 m	16	0,100	1
240005	fibre glass	2 m	16	0,138	1

Measuring tapes

with spring steel tapes, case: plastic, with automatic return motion and locking key, tape with stove-enamel finished

Art. no.	⟷	width	kg	PU
240011	3 m	13	0,104	1
240012 ✸	5 m	16	0,179	1

Measuring tapes with double scale

with spring steel tapes, case: plastic, with automatic return motion and locking key, tape with stove-enamel finished. Double Scale (cm/inch).

Art. no.	⟷	width	kg	PU
240013	5 m	16	0,179	1

Measuring tapes

in metal case, with woven rayon tape, strengthened against streching by 8 bronze wires woven into tape, scale graduations both sides: metres and centimetres

Art. no.	⟷	width	kg	PU
240018	20 m	16	0,432	1
240020	25 m	16	0,544	1
240022	30 m	16	0,586	1
240024	50 m	16	0,857	1

Aluminium spirit levels

bubble level made of acrylic glass, accuraty of measurement: 0,043° = 0,75 mm/m. Fall arrest on the flanks.

Art. no.	⟷	Spirit level	kg	PU
240041	300	2	0,168	1
240042 ✸	400	2	0,198	1
240044	600	2	0,282	1
240046	800	2	0,406	1
240048	1000	2	0,534	1

Electrician's safety levels

nonconducting plastic material, with 2 tubes horizontal and vertical

Art. no.	⟷	Spirit level	kg	PU
240057	400	2	0,188	1
240058	600	2	0,274	1

Cabinet levels

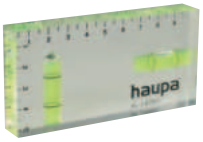
Torped type, nonconducting plastic material, with 3 tubes horizontal, vertical and 45°

Art. no.	⟷	Spirit level	kg	PU
240059 ✸	200	3	0,078	1

Acrylic HUPmini spirit level

Made of perspex, with 2 levels (horizontal and vertical), with 2 measurement scales (0 – 10 cm and 0 – 5 cm). Dimensions: 100 x 50 x 15 mm

360° | 240061



Art. no.	⟷	Spirit level	kg	PU
240061	100	2	0,085	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

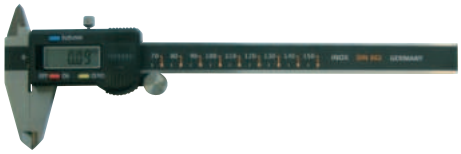
Precision pocket vernier calipers Stainless

manufactured from stainless steel, completely hardened, with measuring nibs, depth gauge and thread tables, in plastic wallet, 1/20 mm or 1/128“, size 150 mm

Art. no.	⟷	TMA	kg	PU
240071	232	0 - 150	0,157	1

Precision pocket vernier calipers DIGITAL

manufactured from stainless steel, completely hardened, with measuring nibs, depth gauge and thread tables, in plastic box with sight window, 1/20 mm or 1/128“, size 150 mm



Art. no.	⟷	TMA	kg	PU
240073	235	0 - 150	0,150	1

Engineers’ squares

manufactured from steel, bright

Art. no.	⟷	width	kg	PU
240132	150x100	20	0,181	1
240134	200x130	20	0,237	1
240136	250x160	25	0,378	1
240138	300x180	25	0,445	1

Engineers’ squares

manufactured from steel, bright

Art. no.	⟷	width	kg	PU
240152	150x100	20	0,170	1
240154	200x130	20	0,340	1
240156	250x160	25	0,511	1
240158	300x180	25	0,440	1
240160	400x230	30	0,783	1

Steel point scribers

knurled handle, replaceable screw-out hardened points, handle with one straight and one bent point (90°)

Art. no.	⟷	kg	PU
240234	250	0,046	1

Carpenters‘ pencils

12 items per packaging unit

Art. no.	⟷	kg	PU
150090	150	0,007	12

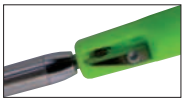
Multigraph, black, refill 7B, triangular

- Made of high-quality lime wood (can be sharpened really easily and is a great combination of stability and flexibility)
- Refill 7B
- Fro marking on wood, card, paper, concrete
- Weatherproof, lightfast labelling

Art. no.	⟷	kg	PU
150041	240	0,017	1

Deep hole marker

Marker and writing implement with a refillable solid lead, suitable for all surfaces (including dusty, rough, damp or oily surfaces) cap in a bright signalling colour with integrated sharpener. Also suitable for dark surfaces.



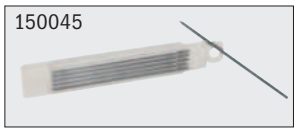
Art. no.	⟷	kg	PU
150025	160	0,020	1
150027	spare lead 10 pc	0,291	1

Deep-hole marker 2-in-1 with a sharpener

One pen – two functions
With a cap: Retractable pencil for precise marking and writing
Without a cap: Deep-hole marker for drilling and installation tasks

- Very stable, with a practical clip
- Sharpener integrated into the push-button
- Graphite universal refill for marking on rough and smooth surfaces
- Ergonomic, triangular form
- Preserves resources and is environmentally-friendly
- Designed for various refills for almost all surfaces and materials

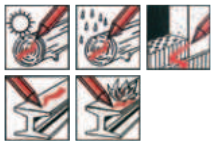
Refill Leads Art. no. 150045



Art. no.	⟷	kg	PU
150044	155	0,022	1
150045	125	0,021	6

Marking chalk

12 items per packaging unit



Art. no.	Color	kg	PU
150015 B ✸	blue	0,017	1
150015 G	yellow	0,017	1
150015 R	red	0,016	1

Holder for marking chalk

suitable for marking chalk art. 150015

Art. no.	Color	kg	PU
150015/1	black	0,034	1

Chalk line roller Squid, 15 m

Chalk line roller made from cast magnesium with push system: Pressure on the axle does not turn the crank; hardened hook with curved spike, integrated storage for the hook, Art. no. 150023: fast-retraction transmission 5:1

Art. no.	m		kg	PU
150019 ✸	15	Squid	0,291	1

Chalk

in plastic bottles, 250 g

Art. no.	Color	kg	PU
140510	red	0,284	1
140520 ✸	blue	0,276	1
140530	yellow	0,279	1

Maintenance / Workshop equipment

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Hand brush Prestige short

- Soft Elaston PET bristles
- Unvarnished wooden body
- 29 cm
- Handle with hole for hanging up

Art. no.	⟷	kg	PU
393000 ✷	290	0,180	1

Hand brush Prestige short

- Soft coconut bristles
- Unvarnished wooden body
- 29 cm
- Handle with hole for hanging up

Art. no.	⟷	kg	PU
393038	290	0,180	1

Hand brush Prestige long

- Soft Elaston PET bristles
- Unvarnished wooden body
- 43 cm
- Handle with hole for hanging up

Art. no.	⟷	kg	PU
393002	430	0,240	1

Hand brush Prestige long

- Soft coconut bristles
- Unvarnished wooden body
- 43 cm
- Handle with hole for hanging up

Art. no.	⟷	kg	PU
393040	430	0,180	1

Street broom

- Elaston
- 40 cm
- 6/15 rows

Art. no.	⟷	kg	PU
393008	400	0,269	1

Broom, for rough dirt

- Elaston
- 40 cm
- For coarse dirt
- Made from wooden corbel
- With hole for handle

Art. no.	⟷	kg	PU
393012	400	0,269	1

Broom, for rough dirt

- Soft coconut bristles
- 40 cm / 60 cm
- For coarse dirt
- Made from wooden corbel
- With hole for handle

Art. no.	⟷	kg	PU
393034	400	0,269	1
393036	600	0,269	1

Broom, for smooth ground

- 40 cm
- For smooth floors and fine dirt
- Made from wooden corbel
- With hole for handle

Art. no.	⟷	kg	PU
393010	400	0,269	1

Metal dustpan with wooden handle

- Made from metal
- Wooden handle with hole for hanging up
- Robust version
- 450 x 230 mm

Art. no.	⟷	width	kg	PU
393006 ✷	450	230	0,269	1

Bucket

Made from plastic
- 12 l / 20 l
- With carry handle

Art. no.	Liter	Color	kg	PU
300102 ✷	12	black	0,450	1
300115	20	black	1,300	1

Broomstick

- Sanded cleanly
- Rounded head
- 1400 mm

Art. no.	⟷	kg	PU
393004	1400	0,269	1

Textile tape

Particularly strong adhesive, UV-resistant.
- 50 m

Art. no.	width	⟷	Color	kg	PU
393016	50	50 m	grey	0,269	1

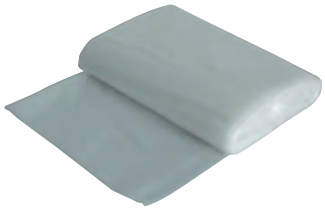
Tarpaulin premium

Protects from dust and damp, for indoor use.
- 12 my
- 4 x 12,5 m

Art. no.	⟷	width	kg	PU
393026	12500	4000	0,269	1

Tarpaulin, strong

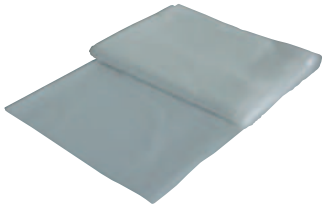
Effective protection from dirt whatever the job, for indoor use.
- 30 my
- 4 x 5 m



Art. no.	⟷	width	kg	PU
393022	5000	4000	0,520	1

Tarpaulin, strong

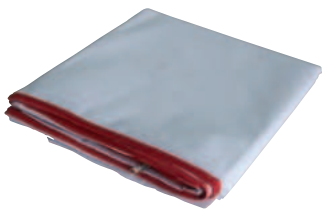
Effective protection from dirt whatever the job, for indoor use.
- 30 my
- 4 x 12,5 m



Art. no.	⟷	width	kg	PU
393024	12500	4000	1,280	1

Dust protection door, multi-fleece

Protects from dust and dirt, approximately 120 x 220 cm, zip length approximately 215 cm.



Art. no.	width	Height	kg	PU
393032	1200	2200	0,269	1

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Builders waste sack

- LDPE
- Roll containing 5 sacks
- 75 l
- 100 my
- 575 x 1000 mm

Art. no.	⟷	width	kg	PU
393018	1000	575	0,269	1

Waste sack, extra

- LDPE
- Roll containing 10 sacks
- 120 l
- 50 my
- 700 x 1100 mm

Art. no.	⟷	width	kg	PU
393020 ✸	1100	700	0,600	1

Construction foil Profi

Optimum protection for all jobs indoors and for all outdoor situations.

- 3 x 10 m
- 200g/m131

Art. no.	⟷	width	kg	PU
393030	10000	3000	5,500	1

Multi-fleece

Extremely absorbent, anti-slip thanks to PE anti-slip sheet, prevents the ingress of paint or damp, for all DIY, renovation, construction and painting work. Easy to lay, can be reused multiple times, dirt on clothes and shoes is not transported further.

- 1 x 10 m

Art. no.	⟷	width	kg	PU
393028 ✸	10000	1000	2,200	1

Set maintenance with bucket

Content:

- Sturdy, weather-resistant plastic bucket with a metal handle, 12 l
- PU cut-protection gloves Level 5, grey, size 10
- Hand brush, short, 29 cm
- Metal dustpan with a wooden handle
- Rubble sack 75 l, 575 x 1000 mm, 5 sacks
- Rubbish sack extra 120 l, 700 x 1100 mm, 10 sacks

Art. no.	set	kg	PU
393107	6	0,800	1

Wire brushes

Art. no.	⟷	kg	PU
150002	300	0,131	1

Water brushes

real bristles, vulcanized, textile bound, bristles-Ø 24 mm, length of bristle 48 mm

Art. no.	width	kg	PU
150004	24	0,036	1

Plaster cups

soft rubber

Art. no.	Ø	Depth	kg	PU
150006 ✸	125	90	0,105	1

Plaster ladle

Made from steel sheet, hot-dip galvanised, with polished wooden handle and hanging hook
- Diameter: 160 mm | 90 mm, (180 mm | 100 mm)
- Height: 40 mm (60 mm)
- Length including wooden handle 295 mm (325 mm)

Art. no.	Ø	Depth	kg	PU
150008	160	40	0,341	1
150010	180	60	0,369	1

Painter's spatula

steel, polished blade, with oval wooden handle

Art. no.	⟷	width	kg	PU
150024	185	40	0,043	1
150026 ✸	205	50	0,051	1
150028	205	60	0,047	1

Trowel

- High-quality stainless steel, non-corrosive
- With red painted handle
- 3 point rib welding
- German beech wood
- Furled handle collar
- For improved hold
- Controlled top quality

Art. no.	⟷	kg	PU
150012	160	0,341	1
150029	180	0,341	1

Trowel Profi

- Trowel blade and handle forged from a single piece
- Guaranteed no welding
- Blade hardened
- Conically ground

Art. no.	⟷	kg	PU
150033	160	0,341	1
150039	180	0,341	1

Warning sign, plastic CAUTION, WET FLOOR, yellow

Lettering on both sides, durable and washable, with warning note in text and symbol format

Print: Caution, Wet floor
Colour: Yellow
Material: Plastic
Dimensions (WxH): 30.5 x 62 cm

Only for German and English speaking countries.

Art. no.	Dimensions	kg	PU
300117	(WxH): 30,5 x 62 cm	3,850	1

INFO

Lashing belts **Industrial quality**

Both for experts and private persons: Load safety is a very important topic.

In case a shipping belt is not or wrong installed and the goods slip or fall down the consequences are grave. The least risks are that the goods or vehicles get damaged. Even small unfasten things can turn into bullets and jeopardise your life or the life of other persons in case of emergency braking. For this reason police and trade association regularly withdraw vehicles with insufficient safety load from service.

For this reason we would like to introduce you to some simple declared basic principles for the correct load safety. It does not matter if you carry a bike or a new refrigerator, if you pack tools and construction materials into your van daily or if you load complete trucks.

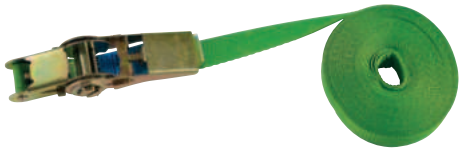
Single lashing belts are used for the strapping of the load. They do not need any connecting elements. If you want to safe heavy objects from turning over or falling down you should use single lashing belts. The clamping elements enable high traction forces without muscle power. Please choose the belt depending on the desired traction and depending on where you put on the belt.

Two-piece lashing belts are easy to be handled and you can fix them quickly. Nowadays they are very important for the load safety. They assume that belts can be hooked, e. g. loops, rails etc. are available. You save time because the belt does not have to be leaded around the goods.

Lashing belt 400 daN, one-piece

Permitted tensile force 400 daN in a straight line, one-piece.
Manufactured according to DIN EN 12195-2.

- 800 daN when wrapped
- Colour green
- Belt width 25 mm
- Belt length 8 m
- With mini ratchet

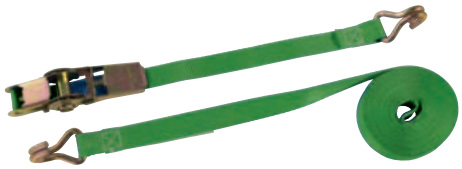


Art. no.	⟷	width	kN	kg	PU
393150	8000	25	4	0,350	1

Lashing belt 400daN, two-piece with hook

Permitted tensile force 400 daN in a straight line, two-piece with hook.
Manufactured according to DIN EN 12195-2.

- 800 daN when wrapped
- Colour green
- Belt width 25 mm
- Belt length 8 m
- With mini ratchet

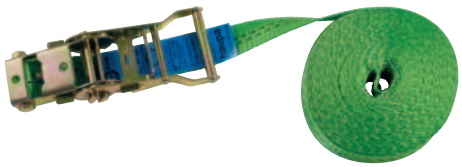


Art. no.	⟷	width	kN	kg	PU
393152	8000	25	4	0,450	1

Lashing belt 1000 daN, one-piece

Permitted tensile force 1000 daN in a straight line, one-piece.
Manufactured according to DIN EN 12195-2.

- 2000 daN when wrapped
- Colour green
- Belt width 35 mm
- Belt length 8 m
- with pressure ratchet

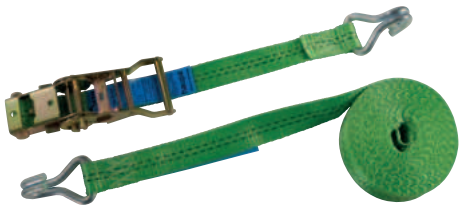


Art. no.	⟷	width	kN	kg	PU
393154	8000	35	10	1,000	1

Lashing belt 1000daN, two-piece with hook

Permitted tensile force 1000 daN in a straight line, two-piece with hook.
Manufactured according to DIN EN 12195-2.

- 2000 daN when wrapped
- Colour green
- Belt width 35 mm
- Belt length 8 m
- with pressure ratchet



Art. no.	⟷	width	kN	kg	PU
393156	8000	35	10	1,400	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Automatic lashing strap 3.5 m x 25 mm

Automatic lashing strap with claw hooks, 25 mm wide and 3.5 m long.

NEW

- Easy to use, no threading into the ratchet necessary
- Lashing capacity (LC): 340 daN (direct) /680 daN (in the strapping)
- 1 piece, claw hooks on both sides
- Maximum length: 3.5 m
- Strap width: 25 mm; strap colour: light green
- Complies with DIN EN 12195-2 for securing loads
- Ideal for securing small loads
- Hook material diameter: approx. 2 x 7 mm
- Minimum length: 350 mm

Art. no.	↔	width	kN	kg	PU
393158	3500	25	3,4	0,750	1

INFO

Classification of ladders **Industrial quality**

Our ladders are designed and tested according to the EN 131 Standard.

They are suitable for both private and commercial use. Endurance tests of, for example, 4,000 telescopic slides and other extreme loads, such as the alternating load of the uppermost step of 50,000 cycles, are only a fraction of the requirements that are fulfilled in full and beyond.

The high quality standards make our ladders the perfect companion for the professional.

HAUPA Ladders
EN 131
Tested for commercial use

Aluminium telescoping stepladder

Ideal for transport in the smallest of spaces, can be used as stepladders and single ladders.

Properties:

- Cross supports for a secure positioning
- with carrying handle
- The 2-stage leg support can be pulled out or remain in the ladder.
- bevelled, non-slip rubber feet for the right angle of attack
- sliding brake for a safe retraction

TÜVRheinland ZERTIFIZIERT Regelmäßige Produktionsüberwachung Sicherheit Bauart geprüft www.tuv.com ID 1419068699

max. 150 kg

EN131

Art. no.	Length	Rungs	Retracted	Width	kg	PU
392804	2,3 m	6+2	0,74 m	0,69 m	14,5 kg	1

Aluminium telescoping stepladder

Ideal for transport in the smallest of spaces, can be used as stepladders and single ladders.

Properties:

- Cross supports for a secure positioning
- with carrying handle
- The 2-stage leg support can be pulled out or remain in the ladder.
- bevelled, non-slip rubber feet for the right angle of attack
- sliding brake for a safe retraction

TÜVRheinland ZERTIFIZIERT Regelmäßige Produktionsüberwachung Sicherheit Bauart geprüft www.tuv.com ID 1419068699

max. 150 kg

EN131

Art. no.	Length	Rungs	Retracted	Width	kg	PU
392806	3,0 m	8+2	0,79 m	0,76 m	20,0 kg	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Aluminium telescoping single-ladder

Ideal for transport.

Properties:

- variable adjustment of the height by means of lasered height indicators on the steps
- complex, stable cross support (for article 392802)
- more safety and comfort thanks to step extensions and anti-slip grooves
- comfortable pressure closer, easy operation even with wet hands
- sliding brake for a safe retraction
- Rubber caps on feet and upper end

Art. no.	Length	Rungs	Retracted	Width	kg	PU
392800	2,6 m	9	0,72 m	0,49 m	8,10 kg	1

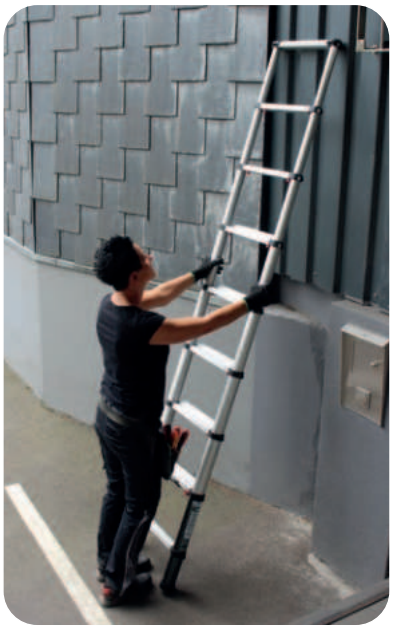
Aluminium telescoping single-ladder

Ideal for transport.

Properties:

- variable adjustment of the height by means of lasered height indicators on the steps
- complex, stable cross support (for article 392802)
- more safety and comfort thanks to step extensions and anti-slip grooves
- comfortable pressure closer, easy operation even with wet hands
- sliding brake for a safe retraction
- Rubber caps on feet and upper end

Art. no.	Length	Rungs	Retracted	Width	kg	PU
392802	3,8 m	13	0,86 m	0,88 m	15,0 kg	1



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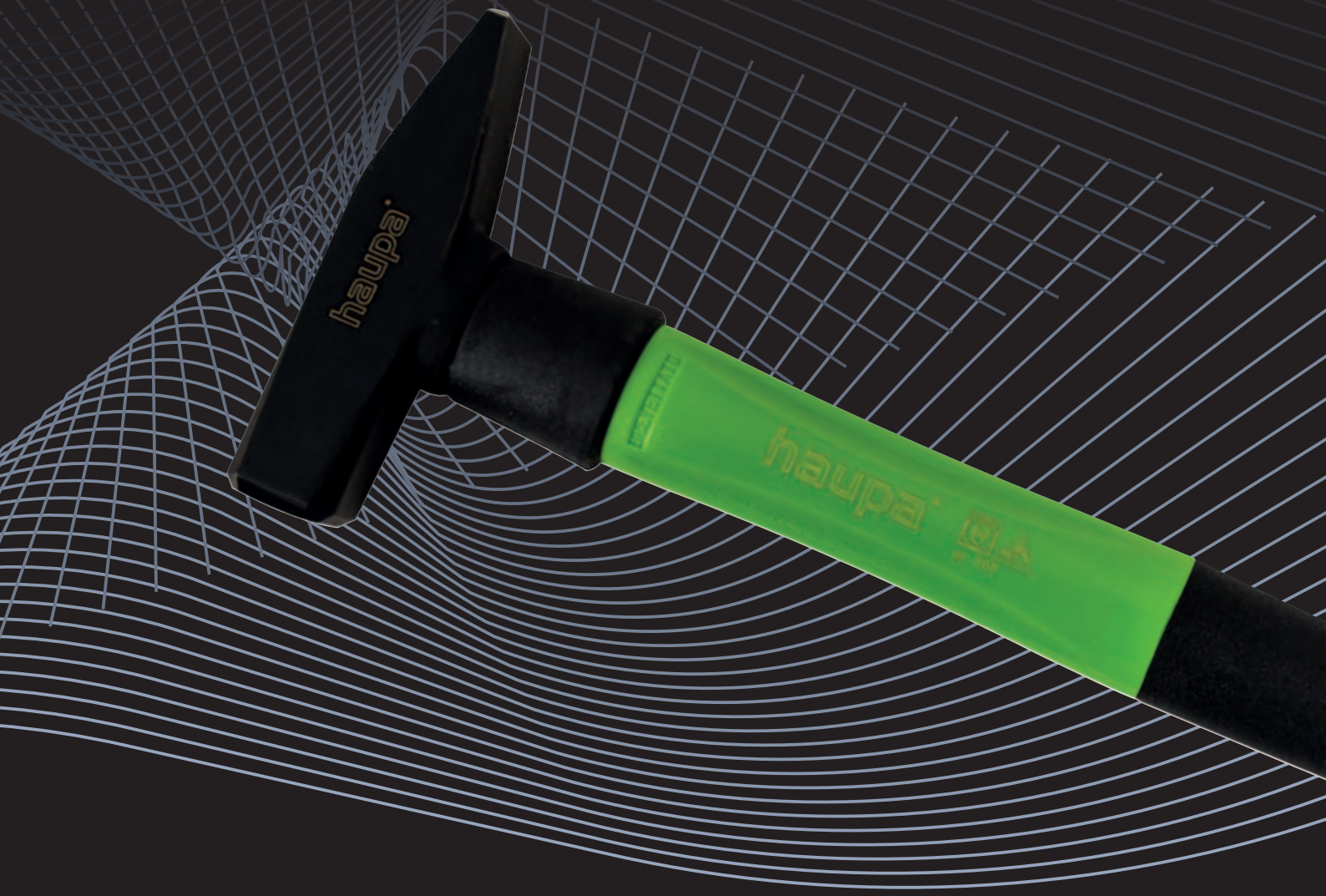
Chisels, Hammers



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Chisels, centre punches

Flat chisels to DIN 6453 A, flat oval shank

chrome vanadium air hardenend steel, chrome-plated tip

Art. no.	⟷	28	mat/S	mat/S1	kg	PU
180008	200	28	23	13	0,392	1
180010	250	28	23	13	0,490	1
180012	300	32	26	13	0,606	1

Stone chisels, flat oval shank

chrome vanadium air hardenend steel, chrome-plated tip

Art. no.	⟷	28	mat/S	mat/S1	kg	PU
180042	250	28	20	12	0,394	1
180044 ✸	300	32	23	13	0,584	1

Stone chisels, octagonal shank

chrome vanadium air hardenend steel, chrome-plated tip

Art. no.	⟷	28	mat/S	mat/S1	kg	PU
180062	250	28	16	16	0,387	1
180064	300	30	18	18	0,595	1

Slot chisel 30 x 300 mm

chrome vanadium air hardenend steel, chrome-plated tip, for light works, the wide and flat cutting edge allows a quick working and avoid a breaking out of the wall

Art. no.	⟷	28	mat/S	mat/S1	kg	PU
180076 ✸	250	26	26	7	0,302	1

Stone chisels, octagonal shank

chrome vanadium air hardenend steel, chrome-plated tip

Art. no.	⟷	28	mat/S	mat/S1	kg	PU
180082	250	14	14	14	0,358	1
180084	300	16	16	16	0,573	1

Electrician'mat/S chisel

chrome vanadium air hardenend steel, chrome-plated tip

Art. no.	⟷	28	mat/S	mat/S1	kg	PU
180090	200	8	6	6	0,052	1
180092 ✸	250	10	8	8	0,119	1
180094	250	12	8	8	0,121	1

Centre punch to DIN 7250

octagonal shank, chrome vanadium air hardenend steel, chrome-plated tip

Art. no.	⟷	Ø	kg	PU
180120	120	12	0,091	1

Rubber hand guard

total length 140 mm, max. Ø 90 mm, for chisels flat oval shank

Art. no.	size	mat/S	mat/S1	kg	PU
180110	3	23	13	0,125	1

Firmer chisels DIN 5139

with bevelled edges and polished wooden handle and cutting edge protector

Art. no.	⟷	CW	BL	kg	PU
180464	280	14	150	0,120	1
180466	280	16	150	0,132	1
180468	280	18	150	0,161	1
180470	280	20	150	0,170	1
180474	280	24	150	0,193	1

Pin punch set

chrome-plated tip, in folding metal case
Content: Ø 2 - 3 - 4 - 5 - 6 - 8 mm

Art. no.	Ø	kg	PU
180170	3/4/5/6/8/10	0,502	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Household hatchet

varnished and polished cutting edge, DIN 5131

Art. no.	kg	PU
180173	0,600	1

Claw hammer

American model, 16 Oz, wooden handle

Art. no.	size	kg	PU
180321	16	0,621	1

Claw hammer

American model, 16 Oz, fibreglass handle

Art. no.	size	kg	PU
180323	16	0,748	1

Engineers‘ hammer DIN 1041

with polished hickory handle, with steel handle protection

Art. no.	HW	kg	PU
180182	200	0,288	1
180184 ✷	300	0,462	1
180186	400	0,561	1
180188	500	0,684	1

Engineers‘ hammer DIN 1041

with steel pipe handle and rubber grip

Art. no.	HW	kg	PU
180200	300	0,552	1
180202	500	0,740	1

Fitter'mat/S hammer with 3-component handle

Vibration-free fitter'mat/S hammer with 3-component handle. The hammer head with the forged safety collar according to DIN 1041 and rubber protection sheath is secured mechanically in the handle with a heavy steel wedge. The high-safety handle comprises 3 components that are permanently connected to one another! The inner core is made of an aluminium alloy. A polyamide plastic (A2800) that is ultra-resistant to oils and solvents and also the non-slip rubber handle are moulded around this.

Benefits:

- Shock-absorbing, therefore gentle on the joints
- High-safety handle is indestructible
- The handle is permanently connected to the hammer head
- Non-slip handle allows ergonomic and safe work
- Highest possible level of safety

Art. no.	HW	⟷	kg	PU
180214	300	320	0,480	1
180218	500	320	0,700	1
180222	1000	320	1,320	1

Engineers‘ hammer

English pattern, ball pin

Art. no.	HW	kg	PU
180274	340	0,416	1
180276	450	0,485	1

Sledge hammer to DIN 6475

with steel pipe handle and rubber grip

Art. no.	HW	kg	PU
180290	1000	1,210	1
180292	1250	1,504	1

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Sledge hammer to DIN 6475

with polished, fluted hickory handle, with steel handle protection

Art. no.	HW	kg	PU
180300 ✱	1000	1,093	1
180302	1250	1,375	1

Plastic hammer

with polished, fluted hickory handle, with steel handle protection

Art. no.	Ø	kg	PU
180334	32	0,328	1
180346	32	0,460	1

Club hammer with 3-component handle

Vibration-free club hammer with 3-component high-safety handle. The hammer head with the forged safety collar according to DIN 6475 and rubber protection sheath is secured mechanically in the handle with a heavy steel wedge. The high-safety handle comprises 3 components that are permanently connected to one another! The inner core is made of an aluminium alloy. A polyamide plastic (A2800) that is ultra-resistant to oils and solvents and also the non-slip rubber handle are moulded around this.

Benefits:

- Shock-absorbing, therefore gentle on the joints
- High-safety handle is indestructible
- The handle is permanently connected to the hammer head
- Non-slip handle allows ergonomic and safe work
- Highest possible level of safety

Art. no.	HW	⟷	kg	PU
180301	1000	260	1,210	1

Soft-faced hammer with 3-component handle

Soft-faced hammer with 3-component high-safety handle and steel middle element. Ideal for firm yet gentle hammering during installation work, alignment and attachment. White polyamide inserts are connected to the middle part by means of a dual-locking attachment system; this guarantees absolute safety at work. The inserts can be replaced and ordered separately. The high-safety handle comprises 3 components that are permanently connected to one another! The inner core is made of an aluminium alloy. A polyamide plastic (A2800) that is ultra-resistant to oils and solvents and also the non-slip rubber handle are moulded around this. Note: Not recoil-free!

Benefits:

- Shock-absorbing, therefore gentle on the joints
- Dual-locking attachment system of the polyamide inserts
- High-safety handle is indestructible
- The handle is permanently connected to the hammer head
- Non-slip handle allows ergonomic and safe work
- Highest possible level of safety

Art. no.		Ø	kg	PU
180336		32	0,480	1
180337	Spare head	32	0,017	1
180338		40	0,720	1
180339	Spare head	40	0,035	1

Steel stamps

Steel stamp, figures (0 - 9) DIN 1451

Art. no.	size	set	kg	PU
130200	3	0-9	0,160	1
130201	4	0-9	0,243	1
130202	5	0-9	0,300	1
130203	6	0-9	0,450	1
130204	8	0-9	0,650	1
130206	10	0-9	0,800	1

Steel stamp, letters (A - Z), DIN 1451

Art. no.	size	set	kg	PU
130208	3	A-Z	0,461	1
130209	4	A-Z	0,650	1
130210	5	A-Z	0,850	1
130211	6	A-Z	1,200	1
130212	8	A-Z	1,950	1
130214	10	A-Z	2,479	1

Files

Contact files

Set: 6 files in plastic wallet

Art. no.	↔	**set**	kg	PU
190126	130	**6**	0,078	1

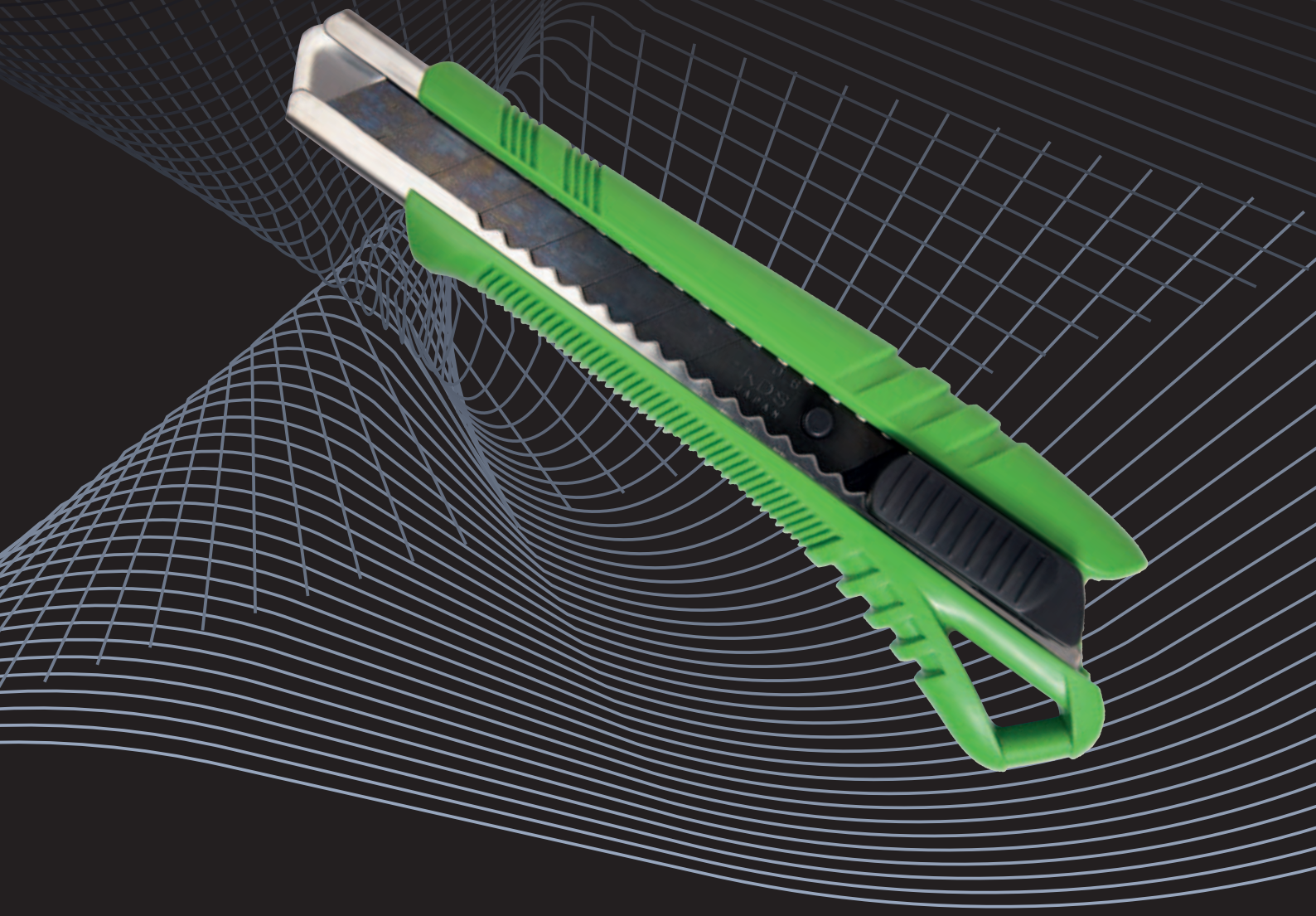
File assortments

Set: 5 files in plastic wallet, files with plastic handle

Form:
round
square
flat
half round
triangular

Art. no.	type	↔	**set**	kg	PU
190130	bastard cut 1	100	**5**	0,784	1
190132 ✷	smooth cut 3	200	**5**	0,799	1

Knives



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Cable stripping knives

Cable stripping or lead tube knives

with wooden handle

Art. no.	BL	kg	PU
200008	40	0,047	1

Cable stripping knives

solid handle, shock-proof synthetic, blade with straight and rounded scraper

Art. no.	BL	kg	PU
200010	60	0,073	1

Cable stripping knives

with black plastic scales, stainless blade with scraper

Art. no.	BL	kg	PU
200011 ✸	60	0,082	1

Cable stripping knives

with wooden scales, blade with scraper

Art. no.	BL	kg	PU
200012	60	0,079	1

Cable stripping knives

with wooden scales, blade and reamer

Art. no.	BL	kg	PU
200014	60	0,078	1

Cable stripping knives

with wooden scales, blade, reamer and screwdriver

Art. no.	BL	kg	PU
200016	60	0,089	1

Cable stripping knives

with plastic scales, 2 blades, reamer and screwdriver

Art. no.	BL	kg	PU
200018	60	0,092	1

Utility metal knives

Cutting of plastic, wallpaper, cardboards, leather, plywood, carpets, with automatic blades locking, reserve blade in the handle

Art. no.	BL	kg	PU
200025	9	0,072	1

Snap blades

10-pieces, suitable for article 200025

10 x

Art. no.	BL	kg	PU
200025/KL	9	0,050	1

Utility metal knives

Cutting of plastic, wallpaper, cardboards, leather, plywood, carpets, with automatic blades locking, reserve blade in the handle

Art. no.	BL	kg	PU
200027 ✷	18	0,150	1

Safety cutter knife

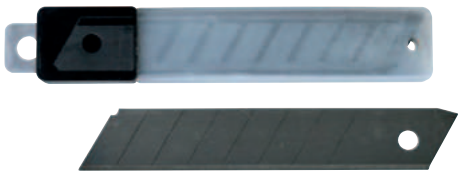
for cutting plastics, wallpaper, cardboard, leather, carpets, with automatic blade lock, blade guide made of metal, soft grip, 1x blade 18 mm included, with automatic blade retraction to prevent cutting injuries

Art. no.	BL	kg	PU
200209	18	0,150	1

Snap blades

10-pieces, suitable for article 200027 | 200209

10 x



Art. no.	BL	kg	PU
200032	18	0,054	1

SAFETY safety knife

Robust construction made from zinc die casting, large cutting depth, slider on the top, with automatic blade retraction to protect against cutting injuries, for cutting plastics, wallpaper, card, leather, plywood and carpet.

PREMIUM

Art. no.	↔	BL	kg	PU
200021	148	20	0,111	1

Loose knife, hooked blade

10-pieces, suitable for article 200021

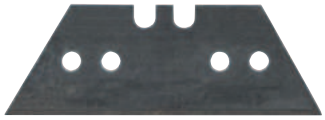
10 x

Art. no.	BL	kg	PU
200028	20	0,0038	1

Loose knife, trapezoidal blade

10-pieces, suitable for article 200021

10 x



Art. no.	BL	kg	PU
200030	20	0,0046	10

Utility knife professional HUPblackSeries9

- Extremely sharp cutting edge for precise cuts
- Blade length: 80 mm
- Blade width: 9 mm
- Blade thickness: 0.38 mm
- 13 segments
- Double grinding for maximum sharpness
- Ideally suited for a wide range of materials
- Maximum durability due to fire hardening
- Black blade coating

EXTREME SHARP

0,38 mm

9 mm

Art. no.	↔	BL	width	ØBL	kg	PU
200220	145	80	9	0,38	0,111	1

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Utility knives

Blade dispenser HUPblades9

suitable for Art. No. 200220, 200025
- 10 blade strips
- extremely sharp cutting edge for precise cuts
- blade length: 80 mm
- blade width: 9 mm
- blade thickness: 0.38 mm
- 13 segments
- double grinding for maximum sharpness
- ideally suited for a wide range of materials
- maximum durability due to fire hardening
- blade black coated

Art. no.	BL	width	ØBL	kg	PE	PU
200221	80	9	0,38	0,111	1	10

Utility knife professional HUPblackSeries18

- Extremely sharp cutting edge for precise cuts
- Blade length: 100 mm
- Blade width: 18 mm
- Blade thickness: 0.6 mm
- 8 segments
- Double grinding for maximum sharpness
- Ideally suited for various materials
- Maximum durability due to fire hardening
- Black blade coating
- Blade feed with automatic locking device

Art. no.		BL	B	ØBL	kg	PU
200222	167	100	18	0,6	0,111	1

Blade dispenser HUPblades18

suitable for Art. No. 200222, 200027, 200209
- 10 blade strips
- extremely sharp cutting edge for precise cuts
- blade length: 100 mm
- blade width: 18 mm
- blade thickness: 0.6 mm
- 8 segments
- double grinding for maximum sharpness
- ideally suited for various materials
- maximum durability due to fire hardening
- blade black coated

Art. no.	BL	width	ØBL	kg	PE	PU
200223	100	18	0,6	0,111	1	10

Tin snips, tube cutters

Punching scissors

with polished blade, carbon steel, figure cuts (large radii)

Art. no.		kg	PU
200140	250	0,523	1

Small tube cutter

with 1 cutting wheel and dual roller guides
Ø 1/8“ - 5/8“

Art. no.	Ø		kg	PU
200190	3-16		0,107	1
200192	3-16	loose spare wheels	0,025	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Junior hacksaw

strong frame, nickel-plated

Art. no.	Sbl.	kg	PU
200280	150	0,149	1

Junior hacksaw DIN 6473 C

hacksaw blade for metal

Art. no.	Sbl.	kg	PU
200284	150	0,069	1

Junior hacksaw

heavy type, with pistol type handle and hacksaw blade for metal, form A

Art. no.	Sbl.	kg	PU
200285	150	0,164	1

Junior hacksaw

heavy type, with pistol type handle and hacksaw blade for metal, form A

Art. no.	Sbl.	kg	PU
200287	150	0,164	1

Hand saw PUK

with hacksaws blade for metal, with fixed, varnished wooden handle

PREMIUM

Art. no.	Sbl.	kg	PU
200290 ✷	150	0,100	1

Hand saw PUK

with adjustable, varnished wooden handle, in plastic bag

Art. no.	Sbl.	kg	PU
200292	150	0,119	1

Saw handle for bi-metal saw blade

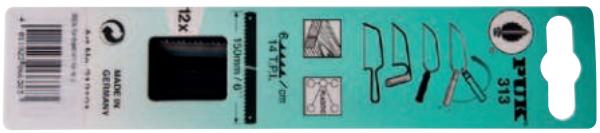
Ergonomic saw handle for flexible bi-metal saw blades. Specially designed for cutting at difficult-to-access places. Optionally, can be used with or without a guide bracket. Various application options (pistol handle and long model). Saw blades can be fitted and replaced without tools.

- Black handle made of high-quality plastic with a pleasant surface
- Galvanised guide bracket
- Knurled nut with a good grip for reliable holding of the saw blade
- Including 300 mm bi-metal saw blade 24 Z / inch

Art. no.	Sbl.	kg	PU
200282	300	0,100	1

Hacksaw blades PUK | type: wood, plastic

acc. to DIN 6494C,
for Art. No. 200292, 200280, 200290, 200284, 200285, 200287, 110558



Art. no.	Sbl.	kg	PU
200286	150	0,0036	12

Hacksaw blades PUK | type: metal, universal

acc. to DIN 6494C,
for Art. No. 200292, 200280, 200290, 200284, 200285, 200287, 110558

Art. no.	Sbl.	kg	PU
200288	150	0,0036	12

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Metal saw bow

steel pipe with flat oval section, bright chrome-plated, tension bolt made from steel, form A

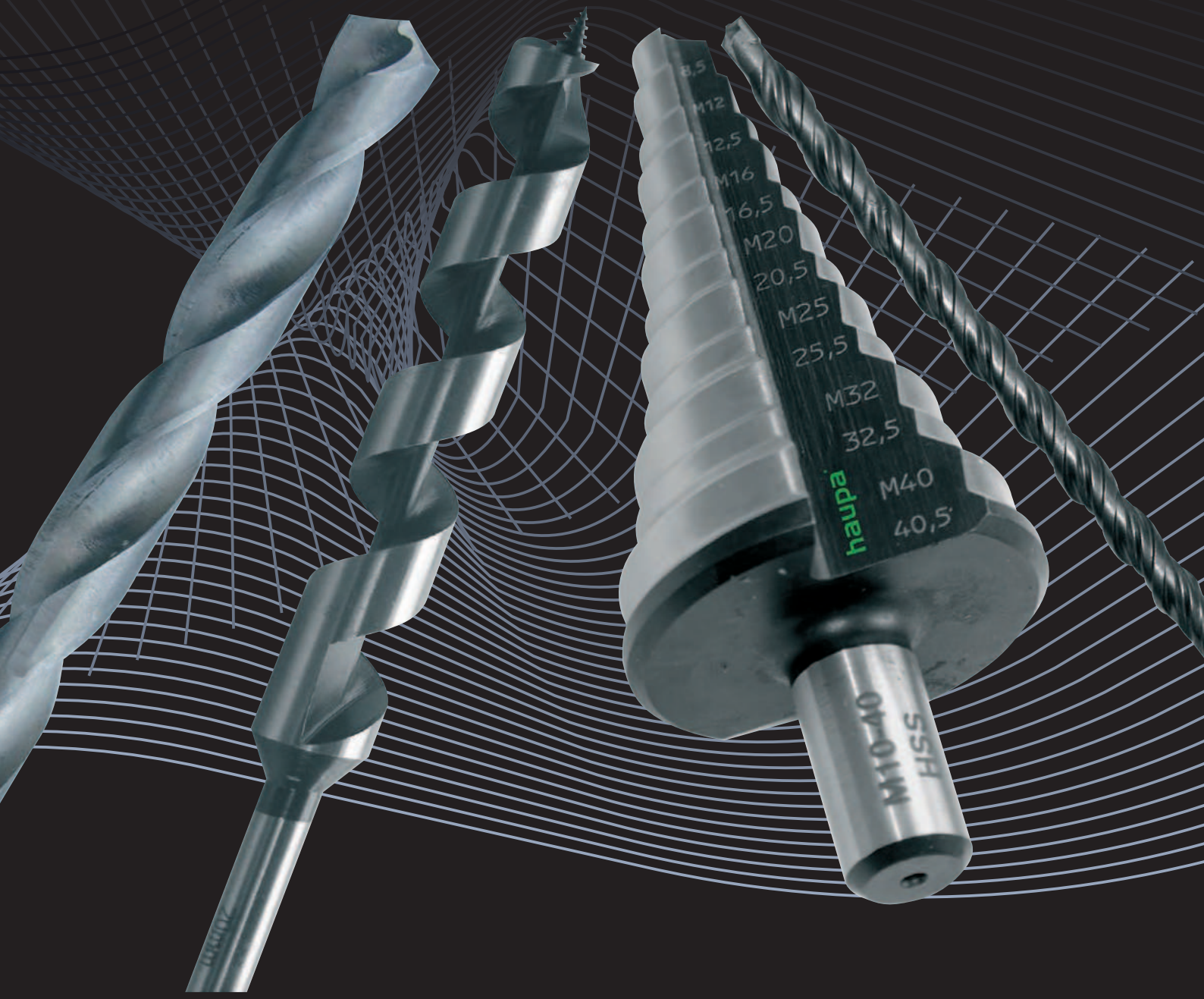
Art. no.	Sbl.	kg	PU
200304 ✱	300	0,408	1

Hacksaw blades to DIN 6494

type A, single sided blade HSS-Bi-metal

Art. no.	Sbl.	kg	PU
200310	300	0,016	1

Drilling tools



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Twist drills DIN 338/HSS type N

point angle 118°, spiral angle 25 - 35°, Ø-tolerance h 8, of HSS, for drilling of steel, steel-casting alloyed and unalloyed up to approx. 900 N/mm² strength grey- and tempered casting, sinter iron, newsilver, graphit, alu-alloy, bronze and brass

Packaging unit in blister pack:
0,5 - 3,0 mm; 1 SPU = 3 pieces
3,2 - 6,0 mm; 1 SPU = 2 pieces
6,5 - 13,0 mm; 1 SPU = 1 piece

Art. no.	Ø	core-hole	CL	⟷	kg	PU
230010	0,5		6	22	0,004	1
230020	1		12	34	0,003	1
230030	1,5		18	40	0,003	1
230032	1,6	M2	20	43	0,003	1
230040	2		24	49	0,005	1
230050	2,5	M3	30	57	0,0054	1
230060	3		33	61	0,005	1
230064	3,2		36	65	0,005	1
230066	3,3	M4	36	65	0,006	1
230070	3,5		39	70	0,007	1
230080	4		43	75	0,008	1
230084	4,2	M5	43	75	0,008	1
230090	4,5		47	80	0,010	1
230100	5	M6	52	86	0,010	1
230110	5,5		57	93	0,015	1
230120	6	M7	57	93	0,018	1
230130	6,5		63	101	0,022	1
230136	6,8	M8	69	101	0,026	1
230140	7		69	109	0,027	1
230160	8		75	117	0,036	1
230170	8,5	M10	75	117	0,040	1
230180	9		81	125	0,048	1
230190	9,5		81	125	0,054	1
230200	10		87	133	0,060	1
230204	10,2	M12	87	133	0,067	1
230210	10,5		87	133	0,070	1
230220	11		87	133	0,078	1
230230	11,5		94	142	0,086	1
230240	12	M14	101	151	0,103	1
230244	12,5		101	151	0,109	1
230250	13		101	151	0,100	1

Twist drills DIN 338/HSS type N

made from hight power steel, in plastic pocket

Technical information:
Standard version: Industrial quality, dressed to size from solid material, high true tuning precision, long tool life, cutter separate packet in plastic bags or as a set in a box.

/PB: as beside
/R: workshop quality, wheeled milled
/TIN: as beside, titanium nitride coating

Art. no.	set	Ø	kg	PU
230312	**19**	1 - 10	0,540	1
230312/R	**19**	1 - 10	0,284	1
230312/TIN	**19**	1 - 10	0,345	1
230314	**25**	1 - 13	1,270	1
230314/R	**25**	1 - 13	1,213	1
230314/TIN	**25**	1 - 13	1,290	1

Bulk storage chest for twist drills

HSS, DIN 338, 170 pieces, TYP N, short, ground, bright, with split point, TIN coated.

Content: 1.0 - 10.0 mm (upstairs in 0.5 mm steps)
up to 8,0 mm 10 pieces/size
> 8,5 mm 5 pieces/size

Art. no.	set	kg	PU
230301/TIN	**170**	4,550	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Auger bit, type Lewis

Art. no.	⟷	Ø	kg	PU
231502	460	6	0,005	1
231508	235	10	0,098	1
231516	235	14	0,160	1
231524	235	18	0,200	1
231526	460	18	0,468	1
231528	235	20	0,005	1
231530	460	20	0,005	1
231532	235	22	0,300	1
231540	235	26	0,005	1
231544	235	28	0,005	1
231546	460	28	0,743	1

Drill type machine bits for wood

made from carbon steel, concentrically ground, with centre point and front cutter

Art. no.	⟷	Ø	kg	PU
230616	70	3	0,005	1
230618	80	4	0,008	1
230620	90	5	0,011	1
230622	100	6	0,015	1
230626	120	8	0,031	1
230628	130	9	0,039	1
230630	137	10	0,047	1
230634	150	12	0,075	1
230636	170	13	0,088	1

Flat bits

with flat cutter head, square shank, DIN 6447 A

Art. no.	⟷	⬡	Ø	kg	PU
230732	150	6	10	0,0495	1
230734	150	6	12	0,0495	1
230736	150	6	14	0,047917	1
230738	150	6	16	0,051083	1
230740	150	6	18	0,047083	1
230742	150	6	20	0,045	1
230746	150	6	24	0,045	1

Casing drill

With cylindrical clamping shaft, cutting element made of chrome vanadium steel

Art. no.	⟷	Ø	kg	PU
231750	400	6	0,100	1
231752	400	8	0,005	1
231754	400	10	0,160	1
231756	400	12	0,200	1
231758	400	13	0,200	1
231760	400	17	0,005	1
231766	400	22	0,200	1

Masonry drills DIN 8039

carbide tipped, with straight shank, each piece in plastic pocket

Art. no.	⟷	Ø	CL	kg	PU
230330	70	3	40	0,011	1
230331	75	3,5	45	0,056	1
230332	80	4	45	0,008	1
230334	85	4,5	50	0,008	1
230338	95	5,5	55	0,012	1
230340	100	6	60	0,018	1
230342	105	6,5	65	0,018	1
230344	110	7	65	0,018	1
230346	120	8	70	0,027	1
230352	140	10	90	0,035	1
230354	150	11	95	0,082	1
230356	160	12	105	0,090	1
230358	170	13	110	0,100	1
230360	180	14	115	0,120	1
230362	190	15	125	0,165	1
230364	190	16	125	0,0915	1

Masonry drills DIN 8039

carbide tipped, with straight shank, each piece in plastic pocket

Art. no.	⟷	Ø	CL	kg	PU
230370	400	8	300	0,130	1
230372	400	10	300	0,124	1
230376	400	14	300	0,316	1
230378	400	16	300	0,232	1
230380	400	18	300	0,460	1
230382	400	20	300	0,608	1
230400	600	8	500	0,222	1
230402	600	10	500	0,222	1
230404	600	12	500	0,330	1
230406	600	14	500	0,463	1
230408	600	16	500	0,568	1
230410	600	18	500	0,715	1
230412	600	20	500	0,896	1
230414	600	22	500	1,164	1

Masonry drill bit EXTRA

High-Helix Masonry drill bit, sand blasted, countersink construction, professional quality

Art. no.	⟷	Ø	kg	PU
231700	70	3	0,0073	1
231702	85	4	0,0108	1
231704	95	5	0,0166	1
231706	100	6	0,018	1
231708	100	7	0,020	1
231710	120	8	0,027	1
231712	120	9	0,030	1
231714	120	10	0,035	1
231716	150	11	0,090	1
231718	150	12	0,100	1

SDS hammer drill bits

Top quality: SDS-Plus fast fitting system: 2 lengthwise slots and 2 round slots at the end of the shank. Universal tool fitting for different types of hammer drills according to the SDS-Plus system

Art. no.	⟷	Ø	CL	kg	PU
230430	110	5	50	0,037	1
230431	160	5	100	0,042	1
230432	110	5,5	50	0,037	1
230433	160	5,5	100	0,045	1
230434	110	6	50	0,039	1
230436	160	6	100	0,045	1
230438	110	6,5	50	0,038	1
230438/A	160	7	100	0,050	1
230440	110	7	50	0,041	1
230442	110	8	50	0,046	1
230442/A	160	8	100	0,056	1
230444	210	8	150	0,064	1
230444/A	460	8	400	0,150	1
230448	160	10	100	0,065	1
230450	210	10	150	0,087	1
230450/A	260	10	150	0,118	1
230451	460	10	400	0,192	1
230453	210	12	150	0,107	1
230454	160	12	100	0,097	1
230456	260	12	200	0,159	1
230457	460	12	400	0,263	1
230458	160	13	85	0,111	1
230459	600	12	540	0,286	1
230460	160	14	100	0,087	1
230460/A	260	14	200	0,1799	1
230461	460	14	400	0,257	1
230464	210	16	150	0,197	1
230466	460	16	400	0,418	1
230467	600	14	540	0,339	1
230473	600	16	540	0,561	1
230474	210	20	150	0,246	1
230475	460	18	400	0,475	1
230478/1	600	10	540	0,270	1
230395	460	20	400	0,585	1
230396	600	20	540	0,737	1
230397	460	22	400	0,669	1
230398	460	25	400	0,998	1

SDS-Nut-hammer drill sets

Content: 5, 6, 8 x 110 / 6, 8, 10, 12 x 160

Art. no.	set	kg	PU
230479	7	0,679	1

SDS-hammer drill sets

Content: 5, 6 x 110, 6, 8, 10 x 160

Art. no.	set	kg	PU
230979	5	0,261	1

SDS hammer drill bits

Workshop quality: SDS-Plus fast fitting system: 2 lengthwise slots and 2 round slots at the end of the shank. Universal tool fitting for different types of hammer drills according to the SDS-Plus system

Art. no.	⟷	Ø	CL	kg	PU
230900 ✸	110	5	50	0,036	1
230902	160	5	100	0,042	1
230904	110	5,5	50	0,036	1
230906/1	160	5,5	100	0,043	1
230908 ✸	110	6	50	0,040	1
230910 ✸	160	6	100	0,045	1
230912	110	6,5	50	0,041	1
230914	160	6,5	100	0,045	1
230916 ✸	110	7	50	0,040	1
230918	160	7	100	0,045	1
230920	110	8	50	0,045	1
230922 ✸	160	8	100	0,055	1
230924	210	8	150	0,067	1
230926 ✸	160	10	100	0,068	1
230928	210	10	150	0,095	1
230930/1	260	10	150	0,107	1
230932	450	10	400	0,155	1
230934	600	10	540	0,365	1
230936	260	11	210	0,070	1
230938	160	12	100	0,077	1
230940	210	12	150	0,106	1
230942	310	12	260	0,120	1
230944	460	12	400	0,250	1
230946	600	12	540	0,315	1
230948	160	13	100	0,085	1
230950	160	14	100	0,200	1
230952	260	14	210	0,250	1
230954/1	460	14	400	0,300	1
230956	600	14	540	0,365	1
230958	160	15	100	0,120	1
230960	210	16	150	0,195	1
230962/1	460	16	400	0,346	1
230964	600	16	540	0,418	1
230966	200	18	140	0,180	1
230968	460	18	400	0,395	1
230970	210	20	150	0,221	1
230972	310	20	250	0,383	1
230974	460	20	400	0,503	1
230976	460	22	400	0,583	1
230978	460	25	400	0,753	1

Step drills

Combination step drills/HSS

for metric PG rough thread-through-hole and core-hole-drillings, 6 drilling diameters for core-hole with 5 mm step for sheet metal up to max. 6 mm.
Through-hole: 8,5 – 12,5 – 16,5 – 20,5 – 25,5 – 32,5 – 40,5 mm
core-hole: 10,5 (M12) – 14,5 (M16) – 18,5 (M20) – 23,5 (M25) – 30,5 (M32) – 38,5 (M40)

Art. no.	Ø	shankt/Ø	min./Ø	max./Ø	kg	PU
231319 ✷	M12 - M40	12	8,5	40,5	0,269	1

Step drills /HSS

Special type for electric assembly, for sheet metal up to max. 4 mm gauge, for metric thread through-hole drilling,
8,5 – 12,5 – 16,5 – 20,5 – 25,5 – 32,5 – 40,5 mm

Art. no.	shankt/Ø	min./Ø	max./Ø	kg	PU
231324	12	8,5	40,5	0,199	1

Step drills /HSS

thickness up to max. 6 mm, for metric core-hole-drilling,
8,5 - 10,5 - 14,5 - 18,5 - 23,5 - 30,5 mm

Art. no.	shankt/Ø	min./Ø	max./Ø	kg	PU
231326	12	8,5	30,5	0,208	1

Step drills /HSS

special type for electric assembly, for sheet steel up to 4 mm thickness, for amoured conduit thread sizes

Art. no.	shankt/Ø	min./Ø	max./Ø	kg	PU
231320	12	7	40	0,237	1
231322	10	7	30	0,151	1

Step drills /HSS

for mechanical engineering and tinsmith working, with 2 cutters, metric

Art. no.	shankt/Ø	min./Ø	max./Ø	kg	PU
231336	6	4	12	0,027	1
231338	10	12	20	0,079	1
231340	12	20	30	0,203	1
231342	12	30	40	0,371	1
231350	6	4	12	0,027	1
231352	8	4	20	0,059	1
231354	10	6	30	0,162	1

Step drills assortiment/HSS

for mechanical engineering and tinsmith working, with 2 cutters, metric

Content: Ø 4 - 12 mm, Ø 12 - 20 mm, Ø 20 - 30 mm

Art. no.	**set**	Ø	kg	PU
231327	**3**	4 - 30	0,597	1

Cone drills

Cone drills/Aerial drills/HSS

for edgefree drilling of thin material

Art. no.	min./Ø	max./Ø	shankt/Ø	kg	PU
231300	3	14	6	0,027	1
231301	6	20	8	0,055	1
231330	6	22,5	8	0,085	1
231302	16	30	10	0,139	1
231304	26	40	12	0,265	1
231305 ✷	6	30	10	0,166	1
231306	36	50	12	0,350	1
231307	46	60	13	0,551	1

Set of cone drills/HSS

3 pieces, in metal box.

1 piece each No. 1, 2, 3 (Ø 3 - 30 mm), suitable for NE material, soft steel sheet, similar to St 14 - 37, Nirosta steel sheet A 2, for duro or thermo plastic

Art. no.	Ø	**set**	kg	PU
231312	3 - 30	**3**	0,510	1

Screw punches

Screw punches

matching for cable connection acc. the new Euro-Norm EN 50262, with 3 cutting edges for iron sheet up to 2 mm, steel sheet up to 1,5 mm, stainless-steel sheet up to 1,5 mm thickness

Art. no.			screws	kg	PU
180513	**metric**	ISO 16	180530	0,101	1
180515	**metric**	ISO 20	180530	0,115	1
180517	**metric**	ISO 25	180530	0,154	1
180519	**metric**	ISO 32	180532	0,320	1
180521	**metric**	ISO 40	180532	0,950	1
180523	**metric**	ISO 50	180534	0,636	1
180525	**metric**	ISO 63	180534	0,974	1
180500	**PG**	PG9	180530	0,097	1
180502	**PG**	PG11	180530	0,106	1
180504	**PG**	PG13,5	180530	0,115	1
180506	**PG**	PG16	180530	0,100	1
180508	**PG**	PG21	180530	0,176	1
180510	**PG**	PG29	180532	0,400	1
180512	**PG**	30,5	180534	0,202	1
180514	**PG**	PG36	180534	0,590	1
180516	**PG**	PG42	180534	1,250	1
180518	**PG**	PG48	180534	0,319	1
180520	**PG**	1 1/8"	180530	0,250	1

Spare screws

Spare screws for screw punches

Art. no.	**size**	kg	PU
180530	**10 x 1,0**	0,048	1
180532	**12 x 1,5**	0,070	1
180534	**16 x 1,5**	0,139	1

PDF

Rotary guide value for step drills/cone drills

Material	unleg. Baustahl < 700 N/mm² Mild steel < 700 N/mm²	unleg. Baustahl > 700 N/mm² Mild steel > 700 N/mm²	leg. Stahl < 1000 N/mm² Alloy steel < 1000 N/mm²	Gußeisen < 250 N/mm² Cast iron < 250 N/mm²	Gußeisen > 250 N/mm² Cast iron > 250 N/mm²	Edelstahl rostfrei Stainless steel	CuZn Leg. spröde CuZn alloy brittle	CuZn Leg. zäh CuZn alloy tough	AL Leg. < 11% Si Alloy steel < 11% Si	Thermo-plaste Thermo plastic	Duro-plaste Duro plastic	Holz Wood
Materialstärke Material gauge	6,0 mm	6,0 mm	6,0 mm	6,0 mm	6,0 mm	3,0 mm	6,0 mm	6,0 mm	6,0 mm	6,0 mm	6,0 mm	25,0 mm
Kühlung Lubricant	Bohrpaste Drilling paste	Bohrpaste Drilling paste	Bohrpaste Drilling paste	Luft Air	Luft Air	Bohrpaste Drilling paste	Luft Air	Luft Air	Bohrpaste Drilling paste	H^2O H^2O	Luft Air	Luft Air
Vc = m / min	25	20 - 25	20	15	10	5	60	35	30	20	15	> 40
ø mm	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m	U/min r.p.m
4,0 - 12,0	1900 - 600	1700 - 580	1550 - 520	1190 - 400	800 - 250	400 - 130	4700 - 1550	2750 - 920	2350 - 790	1550 - 520	1190 - 400	3000 - 1000
4,0 - 20,0	1900 - 400	1700 - 350	1550 - 300	1190 - 240	800 - 160	400 - 80	4700 - 950	2750 - 550	2350 - 470	1550 - 300	1190 - 240	3000 - 650
12,0 - 20,0	600 - 400	600 - 350	520 - 300	400 - 240	250 - 160	130 - 80	1550 - 950	920 - 550	790 - 470	520 - 300	400 - 240	1000 - 650
4,0 - 24,0	1900 - 300	1700 - 280	1550 - 250	1190 - 200	800 - 130	400 - 65	4700 - 790	2750 - 460	2350 - 400	1550 - 250	1190 - 200	3000 - 550
6,0 - 30,0	1300 - 250	1200 - 230	1000 - 200	780 - 150	530 - 100	250 - 50	3150 - 630	1850 - 370	1590 - 310	1000 - 200	780 - 150	2100 - 420
20,0 - 30,0	400 - 250	350 - 230	300 - 200	230 - 150	160 - 100	80 - 50	950 - 630	550 - 370	470 - 310	300 - 200	230 - 150	650 - 420
6,0 - 36,0	1300 - 220	1200 - 200	1000 - 170	780 - 130	530 - 90	250 - 45	3150 - 530	1850 - 300	1590 - 260	1000 - 170	780 - 130	2100 - 350
30,0 - 40,0	250 - 200	230 - 180	200 - 150	150 - 120	100 - 80	50 - 40	630 - 470	370 - 280	310 - 240	200 - 150	150 - 120	420 - 310
40,0 - 50,0	200 - 160	180 - 140	150 - 125	120 - 90	80 - 65	40 - 30	470 - 380	280 - 220	240 - 190	150 - 125	120 - 90	310 - 250
50,0 - 60,0	160 - 130	140 - 110	125 - 100	90 - 80	65 - 50	30 - 25	380 - 310	220 - 185	190 - 150	125 - 100	90 - 80	250 - 210

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller

Premium product

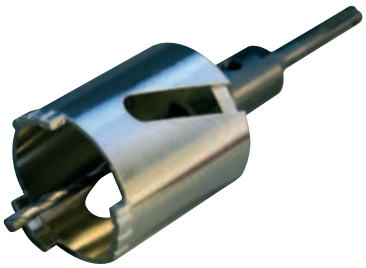
Diamond hollow core cutters

Carrier turned from solid material, suitable for soft materials and brickwork, concrete and artificial stone, takes M 16, without receiving shaft and centre drill, laser-welded, use only without impact

Art. no.	Ø	kg	PU
230676	68	0,453	1
230677	82	0,590	1

Diamond hollow core cutters

shank M 16, with tapered cylindrical drill bit, laser-welded, use only without impact



Art. no.	Ø	shank	drill-Ø	kg	PU
230676/K	68	SDS-plus	8	0,672	1
230677/K	82	SDS-plus	8	0,764	1

Diamond hollow core cutter special

Diamond drill bit for socket outlets with laser wielded segments, suitable for soft materials and brickwork, concrete and artificial stone, optimal rotating speed 800 - 1.000 U/min, maximum rotating speed 1.600 – 1.800 U/min, use only without impact

Art. no.	Ø	shank	drill-Ø	kg	PU
230885/K	68	SDS-plus	8	0,450	1
230886/K	82	SDS-plus	8	0,787	1

Drill for Diamond hollow core cutters

tapered shank

Art. no.	⟷	Ø	kg	PU
230679	120	9	0,044	1

Shank for hollow core cutters, SDS-Plus

SDS-Plus-shank, M 16, conic

Art. no.	⟷	shank	kg	PU
230681/K	100	SDS-plus	0,150	1

INFO

Diamond cutting discs — Industrial quality

A new generation for metalworking.

These HAUPA discs can cut **everything but stone**! From iron, stainless steel, PVC etc. through to wood, simply everything. This is a special feature and innovative since these cutting discs are usually only used for cutting stone.

The advantage of these diamond cutting discs compared to an ordinary disc is, above all, the durability, which is 20-40 times the norm! And there is no limit on storage. Ordinary cutting discs will become porous after 2-3 years. HAUPA cutting discs can be stored for a lifetime and beyond. The main arguments in favour of the HAUPA cutting discs are the fact that the diameter is never reduced, there is a much lower incidence of sparks and thus considerably less odour is produced.

All the benefits at a glance:

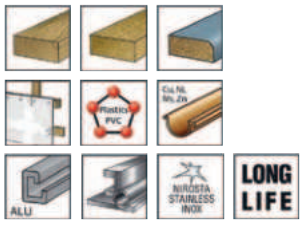
- Versatile scope of application (metal profiles, iron, die cast, steel, steel pipes, wood, Inox, GRP, CFP, polycarbonate, stoneware, fine stoneware)
- Constantly maintained diameter, thus always full cutting depth
- High cutting speed
- High level of durability (20 - 40 times more than normal, depending on materials cut)
- Reduced incidence of sparks
- Reduced odour development
- Unlimited storage times

Diamond cutting disk SPEZIAL

Short-toothed vacuum coating of a new generation for metal work. High diamond concentration enables the processing of materials impossible with traditional diamond tools.

PREMIUM

- Versatile areas of application (metal profiles, iron, cast, steel, steel pipes, wood, Inox, GRP, CFRP, polycarbonate, masonry, fine masonry)
- High cutting speed
- High stand time
- Reduced spark formation
- Reduced odour development
- Can be stored with no time restrictions
- Constant diameter, thus always full cutting depth



Art. no.	Ø	kg	PU
230727	115	0,120	1
230731 ✸	125	0,140	1

Diamond cutting blades

laser-welded, high diamond concentration, long life, for the professional works – Industrial quality –

Art. no.		Ø	kg	PU
230689		115	0,100	1
230691		125	0,149	1
230720	(FUBAG)	135	0,193	1
230721	(FLEX)	140	0,219	1
230704		150	0,245	1
230705		180	0,317	1
230706		230	0,700	1
230711		300	1,256	1

Diamond cutting blades

sintered – Profi Quality –

Art. no.	Ø	kg	PU
230701	115	0,132	1
230702	125	0,169	1
230708	180	0,339	1
230709	230	0,681	1

Diamond cutting blades, TBM Turbo

– Profi quality –

Art. no.	Ø	kg	PU
230722	115	0,120	1
230723	125	0,134	1
230725	230	0,706	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller

Premium product

INFO

Hole saws **Industrial quality**

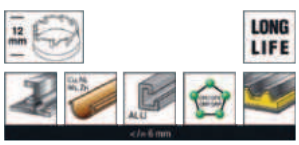
The performance of a saw blade depends on the base material quality, the kind of toothing and the tooth geometry. These factors guarantee in conjunction with the correct use of the machine and blade selection the optimum result in cutting
all materials.

- Above average concentricity
- Even cutting performance
- Extremely quiet operation even at high speeds
- True diameter
- High resistance even with high loads and torques
- Fast progress thanks to aggressive and permanently sharp cutting performance
- Highest lifetime even with very hard materials such as cast and stainless steel

T.C.T. Hole Saw

High concentricity and smooth cutting through strong construction. Precise and clean cut. Large tungsten carbide inserts for resharping and long lifetime. Hole saw comes complete with shank, drill bit, ejector spring and allen key. Long lifetime. **Especially for:** Flat materials of steel, cast steel, stainless steel (up to 4 mm), Chrome-nickel Steel (up to 2 mm), non-ferrous metals, glassfibre and carbon-fibre reinforced products (CRP, GRP), epoxy, reinforced textures and sandwich-materials (up to 6 mm).

Video

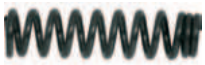


Art. no.	Ø	St	drill-Ø	kg	PU
392100	16	12	6,5	0,046	1
392102	20	31	6,5	0,046	1
392104	22	31	6,5	0,046	1
392106	22,5	31	6,5	0,0978	1
392108	25	31	6,5	0,046	1
392110	30	31	6,5	0,046	1
392112	32	31	6,5	0,046	1
392114	35	31	6,5	0,046	1
392116	40	31	6,5	0,046	1
392118	50	31	6,5	0,046	1
392120	60	31	6,5	0,046	1

T.C.T. center drill for hole saw arbors

Art. no.	⟷	Ø	kg	PU
392122	100	6,5	0,089	1

Spring for hole saw arbors



Art. no.	kg	PU
392124	0,046	1

T.C.T. Hole Saw Fastcut

Very fast and aggressive cut in wood due to large exhaust slots.
Especially for: wood materials up to 60 mm.

Video

Art. no.	Ø/Inch	Ø	St	drill-Ø	kg	PU
231942	3/4	19	50	6,35	0,047	1
231944	7/8	22	50	6,35	0,062	1
231946	1	25	50	6,35	0,077	1
231950	1 3/16	30	50	6,35	0,115	1
231952	1 1/4	32	50	6,35	0,122	1
231954	1 3/8	35	50	6,35	0,133	1
231956	1 9/16	40	50	6,35	0,123	1
231958	1 3/4	44	50	6,35	0,144	1
231960	2	51	50	6,35	0,179	1
231962	2 1/8	54	50	6,35	0,198	1
231964	2 3/8	60	50	6,35	0,206	1
231966	2 1/2	64	50	6,35	0,267	1
231968	2 9/16	65	50	6,35	0,279	1
231970	2 11/16	68	50	6,35	0,275	1
231972	2 3/4	70	50	6,35	0,316	1
231974	3	76	50	6,35	0,298	1
231976	3 1/8	79	50	6,35	0,379	1
231978	3 1/4	83	50	6,35	0,428	1
231980	4	102	50	6,35	0,591	1
231982	4 1/2	114	50	6,35	0,773	1

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Bi-Metal Hole Saws 10 tpi — 8% Cobalt

Finely toothed, 10 tpi, made of high quality, cobalt-alloyed bi-metal for clean and fast cuts and a long lifetime. Massive back plate ensures a smooth cut and precise holes for threads, cable and pipe lead-throughs. **Especially for:** steel and stainless steel, sheet metal up to 1 mm.

Video

Art. no.	Ø	St	drill-Ø	kg	PU
392050	16	31	6,5	0,046	1
392052	19	31	6,5	0,046	1
392054	20	31	6,5	0,046	1
392056	21	31	6,5	0,046	1
392058	22	31	6,5	0,046	1
392060	24	31	6,5	0,046	1
392062	25	31	6,5	0,046	1
392064	29	31	6,5	0,046	1
392066	30	31	6,5	0,046	1
392070	38	31	6,5	0,046	1
392072	40	31	6,5	0,046	1

Bi-Metal Hole Saws 4 - 6 tpi — 8% Cobalt

Variable toothing of 4 - 6 tpi and high quality, cobaltalloyed bi-metal for clean and fast cuts and a long lifetime. Massive back plate ensures a smooth cut and precise holes for sockets, threads, cable and pipe lead-throughs. **Especially for:** Wood, gypsum board, plastics, non-ferrous metals, aluminium steel and stainless steel minimum 1 mm. Special cutting depth on request.

Video

Art. no.	Ø/Inch	Ø	St	drill-Ø	kg	PU
231803	9/16	14	30	6,35	0,036	1
231900	3/4	19	35	6,35	0,036	1
231901/21		21	30	6,5	0,046	1
231902	7/8	22	35	6,35	0,046	1
231904	1	25	35	6,35	0,071	1
231904/29		29	30	6,5	0,046	1
231906	1 1/6	27	35	6,35	0,075	1
231908	1 3/16	30	35	6,35	0,079	1
231910	1 1/4	32	35	6,35	0,085	1
231912	1 3/8	35	35	6,35	0,092	1
231912/38		38	30	6,5	0,046	1
231914 ✸	1 9/16	40	35	6,35	0,086	1
231914/46		46	30	6,5	0,046	1
231916	1 3/4	44	35	6,35	0,105	1
231918 ✸	2	51	35	6,35	0,133	1
231920	2 1/8	54	35	6,35	0,145	1
231922	2 3/8	60	35	6,35	0,168	1
231924	2 1/2	64	35	6,35	0,192	1
231926	2 9/16	65	35	6,35	0,198	1
231928 ✸	2 11/16	68	35	6,35	0,214	1
231930	2 3/4	70	35	6,35	0,223	1
231931 ✸	2 7/8	73	35	6,35	0,236	1
231932	3	76	35	6,35	0,253	1
231934	3 1/8	79	35	6,35	0,275	1
231936 ✸	3 1/4	83	35	6,35	0,304	1
231938	4	102	35	6,35	0,429	1
231939/111		111	30	6,5	0,046	1
231940	4 1/2	114	35	6,35	0,549	1
231940/127		127	30	6,5	0,046	1
231940/152		152	30	6,5	0,046	1
231940/210		210	30	6,5	1,760	1

PU Packing unit

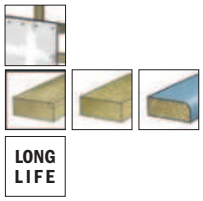
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Hole saw with edge countersink and board ejector

For setting wall-flush sockets, Ø 68 mm

- Cutting depth 35 mm
- High concentricity
- Specially for plasterboard, Fermacell, softwood, plywood
- 9,5 mm hexagonal holder
- In plastic box



LONG LIFE

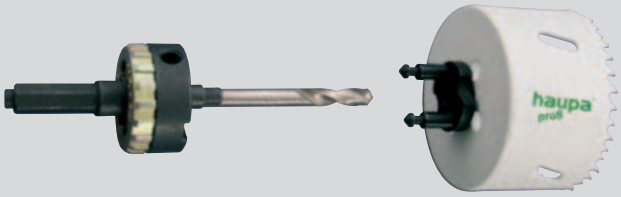
Art. no.	Ø/Inch	Ø	St	drill-Ø	kg	PU
231929	2 11/16	68	35	6,35	0,036	1

Adapter for hollow saws

INFO

Professional Quick Release System for Hole Saws

- Change quickly in seconds between the different diameters and various types of hole saws.
- One arbor for all diameters between 14 - 210 mm.
- Absolute concentricity and diameter true to size.
- Compact "heavy duty" design for highest demands and very long life.
- No time-consuming seizing up of the hole saw onto the thread of the arbor.
- Runs two hole saws at the same time. A smaller diameter guides as a centering aid when enlarging already existing holes.
- Fits all standard hole saw brands.*



*With 1/2" (20 UNF) or 5/8" (18 UNF) thread.

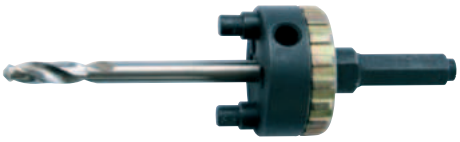
Quick change holder for hole saws RE-LOAD

RE-LOAD

for all diameters from 14-210 mm, 9.5 mm hexagonal shank

PREMIUM

Video



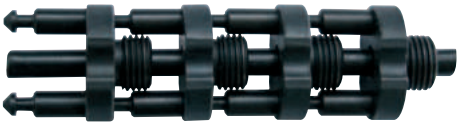
Art. no.	Ø	Ø	kg	PU
392010	14 - 210	9,5	0,046	1

Adapter assortment for holder RE-LOAD

RE-LOAD

392012 | 5 x Ø 14-30 mm
392014 | 5 x Ø 32-210 mm
392016 | 2 x Ø 14-30 mm, 3 x Ø 32- 210 mm

PREMIUM



Art. no.	Ø	Ø	kg	PU
392012	14 - 30	9,5	0,046	1
392014	32 - 210	9,5	0,046	1
392016	14 - 210	9,5	0,046	1

Adapter assortment for hole enlarger RE-LOAD

RE-LOAD

1 x Ø 14 - 30 mm, 1 x Ø 32 - 210 mm

PREMIUM

Art. no.	Ø	Ø	kg	PU
392018	14 - 210	9,5	0,046	1

Centre drill for holder RE-LOAD

RE-LOAD

PREMIUM

Art. no.	⟷	Ø	kg	PU
392020	100	6,5	0,046	1

Centre drill for holder 392024 | 392026 | 392028

PREMIUM

Art. no.	⟷	Ø	kg	PU
392022	102	6,3	0,046	1

Hex shank with plug ejection

hexagon shank

Art. no.	Ø	Ø	kg	PU
392028	32 - 210	9,5	0,046	1

SDS-shank

11 mm (14 - 30 mm)

Art. no.	Ø	Ø	kg	PU
392024	14 - 30	11	0,046	1

SDS-shank

11 mm (32 - 210 mm)

Art. no.	Ø	Ø	kg	PU
392026	32 - 210	11	0,046	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller PREMIUM Premium product

Adapter for hollow saws

Adapter QuickLock

hexagon shank

Art. no.	Ø	Ø	kg	PU
231998	14 - 30	8	0,067	1
231999 ✷	32 - 210	11	0,107	1

Centre drills for 231998 / 231999

Art. no.	⟷	Ø	kg	PU
232007	120	9	0,020	1

Compass saw set bi-metal

9-recess set in a black plastic case, variable toothing with 4/6 teeth, highquality, cobalt-alloy bi-metal for optimum cutting quality and long life span. Solid rear lid enables very smooth running and precise holes for plug sockets, thread, cables and pipe openings etc.
Ideal for: Wood, plasterboard, plastic, non-ferrous metals, aluminium, steel and stainless steel, from 1 mm thick.

Content:
- HSS bi-metal compass saws Ø 22mm (231902), Ø 27mm (231906), Ø 32mm (231910), Ø 44mm (231916), Ø 68mm (231928), Ø 76mm (231932), Ø 83mm (231936)
- Drill holder, QuickLock with hexagonal receiver: Size 14-30 (231998) and size 32-152 (231999)

Art. no.	quantity	kg	PU
232011	9	1,850	1

Hollow saws

Bi-metal hole saw set RE-LOAD

Set in black plastic case, dimensions: 255 x 210 x 72 mm

Content:
- Hole saws bi-metal 35 mm
- Hole saws bi-metal 68 mm
- Hole saws bi-metal 76 mm
- Quick change holder for hole saws RE-LOAD
- 3 adapters for holder RE-LOAD 32 – 210 mm

Art. no.	**set**	kg	PU
231984	**6**	0,900	1

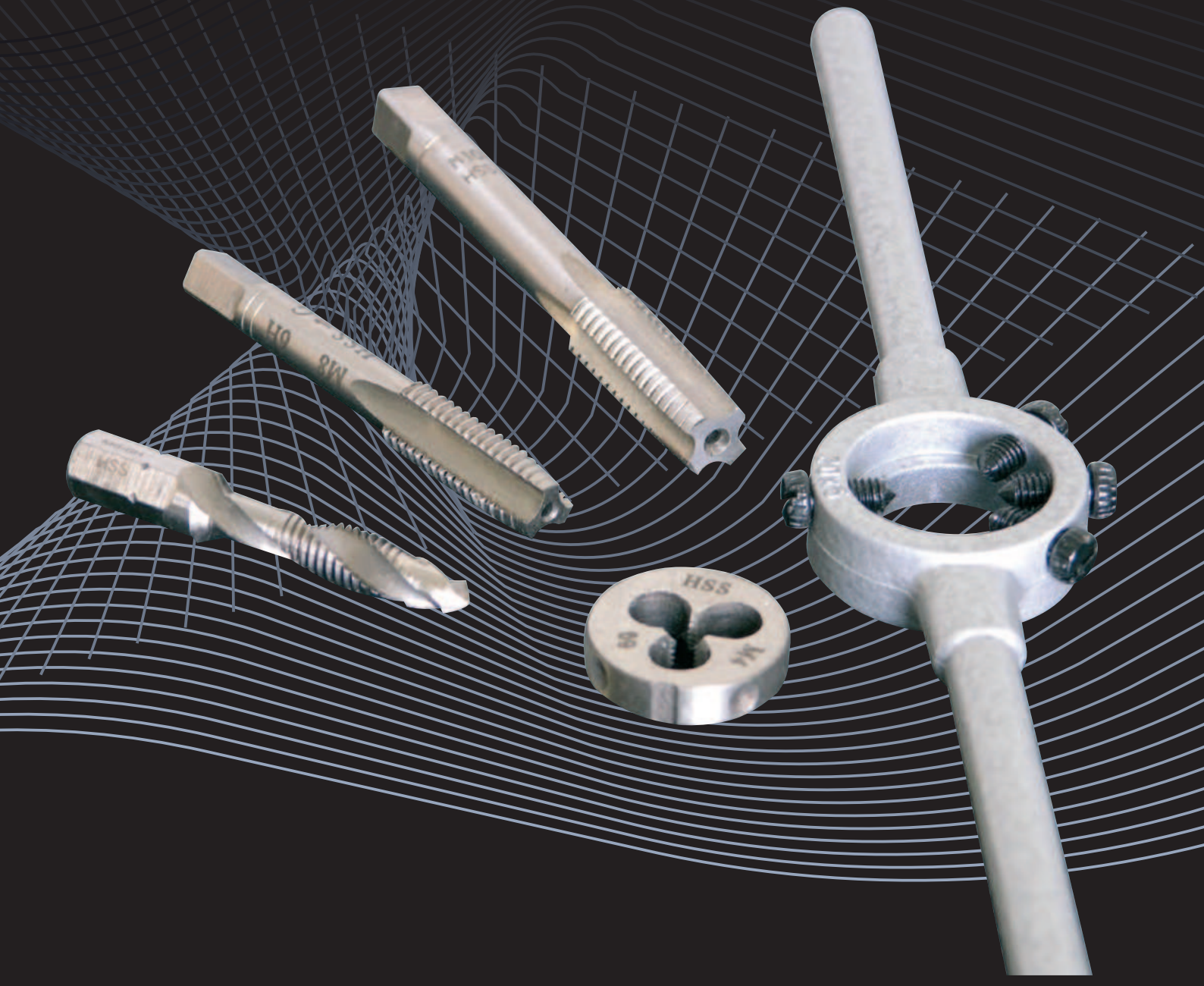
Bi-metal hole saw set QuickChange

Set in black plastic case, dimensions: 255 x 210 x 72 mm

Content:
- Hole saws bi-metal 35 mm
- Hole saws bi-metal 40 mm
- Hole saws bi-metal 51 mm
- Hole saws bi-metal 68 mm
- Hole saws bi-metal 73 mm
- Hole saws bi-metal 83 mm
- Adapter QuickLock

Art. no.	**set**	kg	PU
230002	**7**	1,785	1

Drilling tools



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Threading bits, taps

HSS taps Direct cutter

with intermittent teeth, dimensions to DIN 371, or ISO metric thread to DIN 13

Art. no.	⬡	Ø	kg	PU
230982	4,5	4	0,008	1
230984	6	5	0,014	1
230986	6	6	0,017	1
230988	6	8	0,012	1

Taps for armoured steel conduits, metric thread

Art. no.	Ø	kg	PU
140236	16	0,040	1
140238	20	0,060	1
140240	25	0,206	1
140242	32	0,359	1
140244	40	0,648	1
140246	50	0,230	1
140248	63	1,688	1

Adjustable tap wrenches

short pattern

Art. no.	thread	tap wrench	kg	PU
140180	M 7-25	PG 7-21	0,850	1

Adjustable tap wrenches DIN 1814

for taps

Art. no.	thread	tap wrench	kg	PU
231050	M1 - 8	0	0,050	1
231052	M1 - 10	1	0,099	1
231054	M1 - 12	1,5	0,097	1
231056	M4 - 12	2	0,285	1
231058	M5 - 21	3	0,700	1
231060	M9 - 27	4	1,270	1
231062	M12 - 33	5	1,630	1
231064	M19 - 38	6	4,520	1

Nipple threading dies

with guide, replaceable dies and taps

Art. no.	thread	kg	PU
140190	M 10	0,100	1
140192	M 10	0,130	1

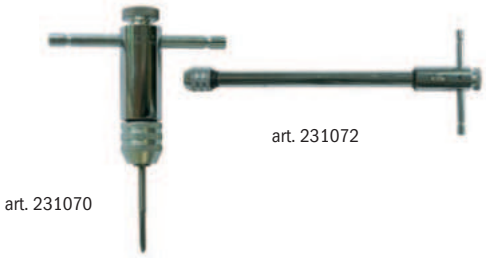
Nipple threading dies

with guide, replaceable dies and tap

Art. no.	thread	kg	PU
140210	M 10, M 13	0,210	1

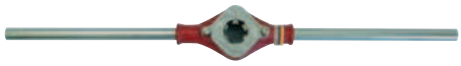
Ratchet wrenches

for right-hand and left-hand action



Art. no.	thread	Zoll	TL	shank	kg	PU
231070	M3 - 10	1/8 - 3/8	85	2,4 - 5,5	0,173	1
231072	M5 - 12	7/32 - 1/2	100	4,5 - 8,0	0,272	1
231074	M3 - 10	1/8 - 3/8	250	2,4 - 5,5	0,250	1
231076	M5 - 12	7/32 - 1/2	300	4,5 - 8,0	0,440	1

Complete stocks, metric thread



Art. no.	thread	kg	PU
140214	M 16, M 20, M 25	1,000	1
140216	M 10	1,350	1

Complete stocks, metric thread

Art. no.	thread	kg	PU
140218	M 32, M 40	2,850	1
140220	M 50, M 63	3,500	1

Dies, metric thread

Art. no.	Dimensions	thread	kg	PU
140222	47 x 47	M16	0,175	1
140224	47 x 47	M 10	0,138	1
140226	47 x 47	M 10, M 13	0,145	1
140228	70 x 70	M32	0,477	1
140230	70 x 70	M 40	0,130	1
140232	100 x 100	M 50	0,980	1
140234	100 x 100	M 63	0,791	1

Guides, metric

Art. no.	Ø	kg	PU
140250	16	0,037	1
140252	20	0,040	1
140254	25	0,035	1
140256	32	0,030	1
140258	40	0,060	1
140260	50	0,070	1
140262	63	0,134	1

Screw extractor set

Art. no.	size	kg	PU
230682	**1-5/M3-18**	0,111	1
230683	**1-6/M3-24**	0,231	1

Hand taps DIN 352, type N/HSS

set of 3, for ISO metric thread to DIN, 1, 2, 3-cutter, made of HSS, for pass-through threading, for good chipping steel up to approx. 900 N/mm²

Art. no.	Ø	⬡	kg	PU
230800	1	2,5	0,010	1
230802	1,4	2,5	0,010	1
230804	1,6	2,5	0,002	1
230806	1,8	2,5	0,002	1
230808	2	2,8	0,002	1
230810	2,2	2,8	0,002	1
230812	2,5	2,8	0,002	1
230814	3	3,5	0,033	1
230816	3,5	4	0,004	1
230818	4	4,5	0,017	1
230820	4,5	5,5	0,005	1
230822	5	6	0,034	1
230824	6	6	0,035	1
230826	7	6	0,039	1
230828	8	6	0,046	1
230830	9	7	0,065	1
230832	10	7	0,071	1
230834	11	8	0,025	1
230836	12	9	0,115	1
230838	14	11	0,052	1
230840	16	12	0,062	1
230842	18	14	0,102	1
230844	20	16	0,125	1
230846	22	18	0,182	1
230848	24	18	0,205	1
230850	27	20	0,260	1
230852	30	22	0,395	1
230854	33	25	0,480	1
230856	36	28	0,645	1
230858	39	32	2,400	1
230860	42	32	0,930	1
230862	45	36	1,140	1
230864	48	36	1,370	1
230866	52	40	1,650	1
230868	56	45	2,800	1
230870	60	45	2,900	1

HSS taps set

with taps to DIN 352, in metal box,
Content: M3, M 4, M 5, M 6, M 8, M 10, M 12

Art. no.	set	kg	PU
231080	**23**	0,696	1

Combi, threading bit set, made of HSSG SGE-Bit (DBGM)

for drilling, threading and countersinking, for stand drilling machines and hand drills, suitable for steel and NE metal up to 1 xd (M 6 = 6 mm thickness of material), up to 600 N/mm² tensile strength, rpm according to the cutting speeds of the tride, in metal box
Content: M 3, 4, 5, 6, 8, 10

Art. no.	set	kg	PU
231082	**7**	0,188	1

HSS Tap set

Content:
hand tap (DIN 352) M 3, 4, 5, 6, 8, 10, 12
Dies (DIN 223) M 3, 4, 5, 6, 8, 10, 12,
Dies stock 20 x 5/20 x 7/25 x 9/30 x 11/38 x 14 mm
tape holder size 1 + 2, in a practical plastic case

Art. no.	set	kg	PU
231280	**37**	2,520	1

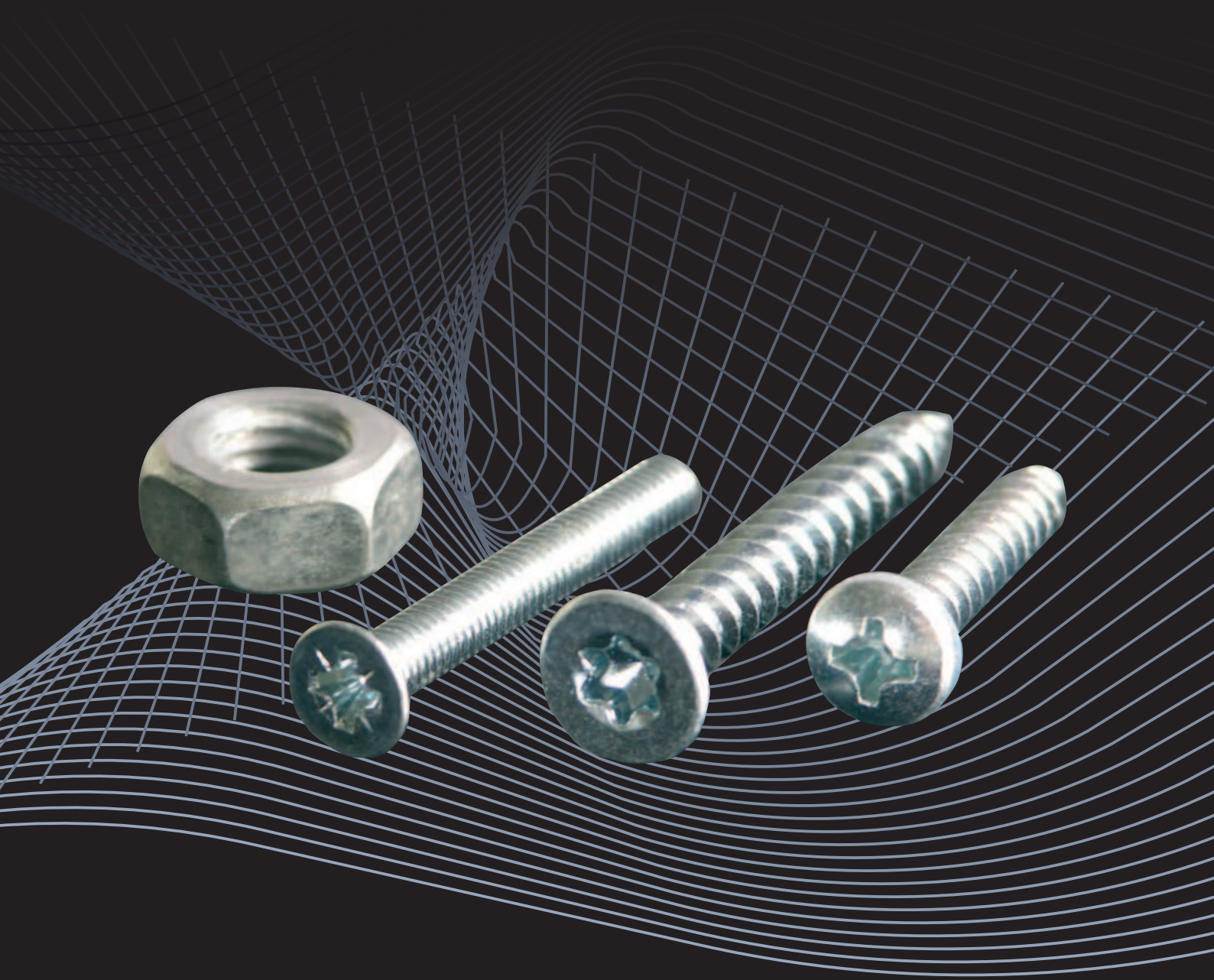
HSS Tap set

Content:
Hand tap (DIN 352) M 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20
Dies (DIN 223) M 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20
Dies holder 20 x 7/25 x 9/30 x 11/38 x 14/ 45 x 18 mm
Tap holder size 1, 2 + 3, in a practical plastic case

Art. no.	set	kg	PU
231282	**55**	8,200	1

* Bestseller
Premium product

Screws, dowels



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Wood screws

Universal countersunk screw

Chipboard screw, galvanised, counter-sunk head, Pozidriv

Art. no.	⟷	Ø		drive	kg/100	PU
790005	15	3	PZ	2	0,080	200
790006	25	3	PZ	2	0,190	200
790008	40	3	PZ	2	0,190	200
790015	20	3,5	PZ	2	0,110	200
790016	25	3,5	PZ	2	0,1255	200
790017	30	3,5	PZ	2	0,150	200
790018	35	3,5	PZ	2	0,1665	200
790079	40	3,5	PZ	2	0,190	200
790027 ✸	30	4	PZ	2	0,1855	200
790029 ✸	40	4	PZ	2	0,237	200
790030 ✸	45	4	PZ	2	0,266	200
790031	50	4	PZ	2	0,2935	200
790040	35	4,5	PZ	2	0,270	200
790041 ✸	40	4,5	PZ	2	0,3155	200
790043	50	4,5	PZ	2	0,3815	200
790051	30	5	PZ	2	0,313	100
790053	40	5	PZ	2	0,381	100
790054	50	5	PZ	2	0,472	100
790055	60	5	PZ	2	0,549	100
790056	80	5	PZ	2	0,732	100
790063	50	6	PZ	3	0,697	100
790064	60	6	PZ	3	0,836	50
790065	80	6	PZ	3	1,082	50

Universal pan head screw

Fibreboard screws, galvanised, pan head Pozidriv

Art. no.	⟷	Ø		drive	kg/100	PU
790090	25	3,5	PZ	2	0,170	200
790091	30	3,5	PZ	2	0,170	200
790093	40	3,5	PZ	2	0,210	200
790100	30	4	PZ	2	0,220	200
790101	35	4	PZ	2	0,240	200
790102 ✸	40	4	PZ	2	0,270	200
790103	45	4	PZ	2	0,300	200
790104	50	4	PZ	2	0,330	200
790111	40	4,5	PZ	2	0,360	200
790112	45	4,5	PZ	2	0,390	200
790113	50	4,5	PZ	2	0,420	200
790118	30	5	PZ	2	0,380	200
790120	40	5	PZ	2	0,460	200
790121	50	5	PZ	2	0,520	200

Hexagonal wood screws, hot zinc dipped

in accordance with DIN 571, hot zinc dipped, general requirements according to DIN 267 Part 1

Art. no.	⟷	Ø	⬡		kg/100	PU
790212/V	80	6	10	HEX	1,540	25
790223/V ✸	60	8	13	HEX	2,120	25
790224/V	80	8	13	HEX	2,744	25
790235/V	60	10	17	HEX	3,640	10

Dry wall screws

galvanised, counter-sunk head, Tx

Art. no.	⟷	Ø		drive	kg/100	PU
790920	32	4	TX	20	0,190	200
790922	41	4	TX	20	0,240	200

Hexagonal wood screws

in accordance with DIN 571, galvanised, general requirements according to DIN 267 Part 1

Art. no.	⟷	Ø	⬡		kg/100	PU
790210	40	6	10	HEX	0,830	50
790211	60	6	10	HEX	1,210	25
790212	80	6	10	HEX	1,540	25
790222	50	8	13	HEX	1,780	25
790223	60	8	13	HEX	2,120	25
790224	80	8	13	HEX	2,744	25
790225	100	8	13	HEX	3,308	25
790235	60	10	17	HEX	3,640	10
790236	80	10	17	HEX	4,770	10
790237	100	10	17	HEX	5,530	10

Hooks

galvanised

Art. no.	Ø	SftL	kg/100	PU
790900	4,2	50 mm	0,600	50
790902	5,8	80 mm	0,800	10

TwinSpeed self tapping screw

galvanised, pan head, Philips cross-head and double helix thread, considerably shortened screw-in times when compared to traditional screws thanks to the double start thread. Uses: Wood, plywood, plasterboard, rawlplugs

Art. no.	⟷	Ø		drive	kg/100	PU
790303	19	3,5	PH	2	0,090	100
790311	32	3,5	PH	2	0,160	100
790325	13	4,2	PH	2	0,100	100
790326	16	4,2	PH	2	0,130	100
790327	19	4,2	PH	2	0,140	100
790329	25	4,2	PH	2	0,177	100
790332	31	4,2	PH	2	0,220	100
790333	38	4,2	PH	2	0,270	100
790334	45	4,2	PH	2	0,280	100
790335	65	4,2	PH	2	0,500	100

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Plate screw DIN 7504

in accordance with DIN 7504M (formerly N), self-tapping, hardened steel, galvanised, pan head with Phillips slot, plate screw thread according to DIN 7970

Art. no.	⟷	Ø		drive	kg/100	PU
790411	13	3,5	PH	2	0,116	200
790413	19	3,5	PH	2	0,145	200
790416	13	3,9	PH	2	0,136	200
790417	16	3,9	PH	2	0,152	200
790419	25	3,9	PH	2	0,2025	200
790422	13	4,2	PH	2	0,162	200
790423	16	4,2	PH	2	0,1845	200
790424	19	4,2	PH	2	0,203	200
790426	25	4,2	PH	2	0,190	200
790428	32	4,2	PH	2	0,190	200
790432	13	4,8	PH	2	0,234	200
790433	16	4,8	PH	2	0,2535	200
790434	19	4,8	PH	2	0,2785	200
790436	25	4,8	PH	2	0,332	200

Plate screw DIN 7504, Tx

in accordance with DIN 7504M (formerly N), self-tapping, hardened steel, galvanised, Tx, plate screw thread according to DIN 7970

Art. no.	⟷	Ø		drive	kg/100	PU
790510	13	4,2	TX	20	0,160	100
790512	16	4,2	TX	20	0,180	100
790514	19	4,2	TX	20	0,200	100
790516	25	4,2	TX	20	0,210	100

Mounting screws

galvanised with washer, Philips cross-head, self-cutting

Art. no.	⟷	Ø		drive	kg/100	PU
790450	13	4,2	PH	2	0,100	100
790452	25	4,2	PH	2	0,177	100
790454	31	4,2	PH	2	0,220	100
790456	45	4,2	PH	2	0,280	100

Mounting screws

self-cutting and self-boring, galvanised with washer, Tx

Art. no.	⟷	Ø		drive	kg/100	PU
790500	13	4,2	TX	20	0,100	100
790502	19	4,2	TX	20	0,230	100
790504	25	4,2	TX	20	0,240	100

Mounting screws

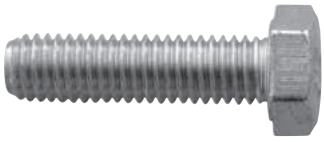
self-cutting and self-boring, galvanised with washer, Philips cross-head

Art. no.	⟷	Ø		drive	kg/100	PU
790470 ✸	13	4,2	PH	2	0,170	100

Machinery screws, cylinder screws

Hexagonal machine screws

according to DIN 933, continuous thread, galvanised, 8.8 quality



Art. no.	⟷	Ø	⬡	kg/100	PU
790540	20	M6	**10**	0,580	100
790542	25	M6	**10**	0,660	100
790544	30	M6	**10**	0,750	100
790562	20	M8	**13**	1,230	100
790564	25	M8	**13**	1,390	100
790566	30	M8	**13**	1,550	100
790588	20	M10	**17**	2,320	100
790592	30	M10	**17**	2,820	100
790616	30	M12	**19**	4,020	50
790618	40	M12	**19**	4,740	50

Socket cup screw DIN 84 Form A

in accordance with ISO 1207, EN 21207 or DIN 84, Form A, with slit, made of hardened steel, galvanised, 4.8 quality

Art. no.	⟷	Ø	drive	kg/100	PU
790806	16	M3	5,5x0,8	0,1135	200
790808	20	M3	5,5x0,8	0,1375	200
790832	16	M4	7,0x1,2	0,195	200
790834	20	M4	7,0x1,2	0,225	200
790837	30	M4	7,0x1,2	0,304	200
790862	16	M5	8,5x1,2	0,3205	200
790864	20	M5	8,5x1,2	0,3685	200
790867	30	M5	8,5x1,2	0,4865	200
790882	16	M6	10,0x1,6	0,473	200
790884	20	M6	10,0x1,6	0,540	200
790888	30	M6	10,0x1,6	0,729	200

Machine screw counter sunk

continuous thread, zinc-plated, pan headed Pozidriv

Art. no.	⟷	Ø		drive	kg/100	PU
790700	20	M3	PZ	2	0,110	100
790702	30	M3	PZ	2	0,140	100
790704	40	M3	PZ	2	0,190	100
790706	50	M3	PZ	2	0,230	100
790710	20	M4	PZ	2	0,180	100
790712	30	M4	PZ	2	0,260	100
790714	40	M4	PZ	2	0,340	100
790716	50	M4	PZ	2	0,410	100
790721	25	M5	PZ	2	0,350	100
790722	30	M5	PZ	2	0,410	100
790724	40	M5	PZ	2	0,540	100
790726	50	M5	PZ	2	0,670	100

Hexagonal nuts, washers

Hexagonal nut DIN 934

in accordance with ISO 4032, EN 24032 or DIN 934, steel galvanised, 8 quality

Art. no.	⬡	Ø	kg/100	PU
792000	**5,5**	M3	0,050	200
792001	**7**	M4	0,085	200
792002	**8**	M5	0,1185	200
792003	**10**	M6	0,229	200
792005	**13**	M8	0,4895	200
792006	**17**	M10	1,061	200
792008	**19**	M12	1,000	100

Washers DIN 125

in accordance with ISO 7089, EN 27089 or DIN 125, Form A without chamfer, steel galvanised

Art. no.	M	d1	d4	kg/100	PU
792600	M3	3,2	7	0,024	200
792602	M4	4,3	9	0,041	200
792603	M5	5,3	10	0,055	200
792604	M6	6,4	12	0,100	200
792606	M8	8,4	16	0,180	200
792607	M10	10,5	20	0,340	200

Washers

in accordance with ISO 7093, DIN 9021N, zinc-plated steel

Art. no.	M	d1	d4	st	kg/100	PU
792650	M4	4,3	12	1	0,077	100
792651	M5	5,3	15	1,6	0,146	100
792652	M6	6,4	20	2	0,460	100
792654	M8	8,4	25	2	1,100	100
792656	M10	10,5	40	2	1,020	100
792658	M12	13	40	2	1,000	100

Spring washers

according to DIN 127, form A, curved, zinc-plate steel

Art. no.	M	d1	d4	st	kg/100	PU
792756	M6	6,4	11,8	2	0,080	100
792758	M8	8,4	14,8	2	0,160	100
792760	M10	10,5	18,1	2	0,250	100
792762	M12	13	21,1	2	0,380	100

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Mix Screws assortment box

Content: 1.425 screws, in plastic bulk storage chest 415 x 335 x 90 mm

Qty.	Description	Size	Drive	Art. no.
200	universal counter-sunk screws	3,5 x 20	PZ2	790015
200	universal counter-sunk screws	3,5 x 30	PZ2	790017
200	universal counter-sunk screws	3,5 x 40	PZ2	790079
200	universal counter-sunk screws	4,5 x 35	PZ2	790040
100	universal counter-sunk screws	4,5 x 50	PZ2	790043
50	universal counter-sunk screws	5,0 x 80	PZ2	790056
50	universal counter-sunk screws	6,0 x 50	PZ3	790063
200	universal pan head srews	3,5 x 30	PZ2	790091
100	universal pan head srews	4,0 x 40	PZ2	790102
50	universal pan head srews	5,0 x 50	PZ2	790121
50	hexagonal wood screws	6 x 40		790210
25	hexagonal wood screws	6 x 80		790212

Art. no.	set	empty	kg	PU
792802	1425	221131	5,022	1

Pan head Screws assortment box

Content: 1.700 screws, in plastic bulk storage chest 415 x 335 x 90 mm

Qty.	Description	Size	Drive	Art. no.
200	universal pan head srews	3,5 x 30	PZ2	790091
200	universal pan head srews	3,5 x 40	PZ2	790093
200	universal pan head srews	4,0 x 30	PZ2	790100
200	universal pan head srews	4,0 x 40	PZ2	790102
200	universal pan head srews	4,0 x 50	PZ2	790104
200	universal pan head srews	4,5 x 40	PZ2	790111
200	universal pan head srews	4,5 x 50	PZ2	790113
100	universal pan head srews	5,0 x 30	PZ2	790118
100	universal pan head srews	5,0 x 40	PZ2	790120
100	universal pan head srews	5,0 x 50	PZ2	790121
1	Bit-Box 17-pcs., incl. holder			102210

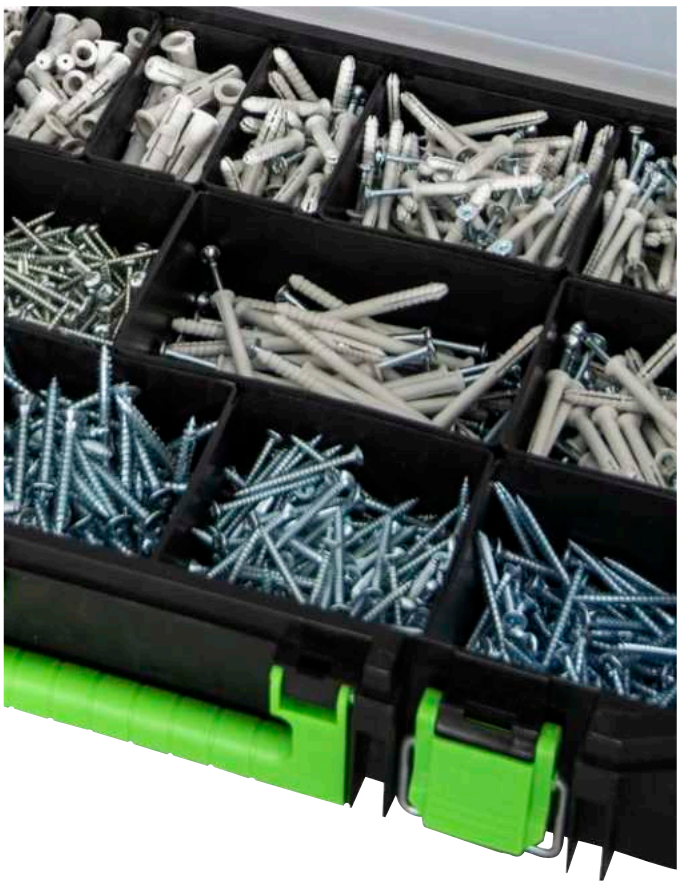
Art. no.	set	empty	kg	PU
792804 ✷	1700	221131	6,000	1

Countersunk Screws assortment box

Content: 1.800 screws, in plastic bulk storage chest 415 x 335 x 90 mm

Qty.	Description	Size	Drive	Art. no.
200	universal counter-sunk screws	3,5 x 20	PZ2	790015
200	universal counter-sunk screws	3,5 x 30	PZ2	790017
200	universal counter-sunk screws	3,5 x 40	PZ2	790079
200	universal counter-sunk screws	4,0 x 30	PZ2	790027
200	universal counter-sunk screws	4,0 x 40	PZ2	790029
200	universal counter-sunk screws	4,0 x 50	PZ2	790031
200	universal counter-sunk screws	4,5 x 40	PZ2	790041
100	universal counter-sunk screws	5,0 x 40	PZ2	790053
100	universal counter-sunk screws	5,0 x 50	PZ2	790054
100	universal counter-sunk screws	5,0 x 60	PZ2	790055
50	universal counter-sunk screws	6,0 x 60	PZ3	790064
50	universal counter-sunk screws	6,0 x 80	PZ3	790065
1	Bit-Box 17-pcs., incl. holder			102210

Art. no.	set	empty	kg	PU
792806	1800	220131	5,000	1



Countersunk Screws assortment box

Content: 1.800 screws, in plastic bulk storage chest 415 x 335 x 90 mm

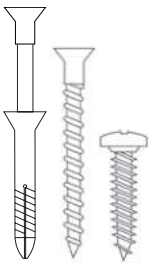
Qty.	Description	Size	Drive	Art. no.
200	universal counter-sunk screws	3,0 x 15	PZ2	790005
200	universal counter-sunk screws	3,0 x 25	PZ2	790006
200	universal counter-sunk screws	3,0 x 40	PZ2	790008
200	universal counter-sunk screws	4,0 x 30	PZ2	790027
200	universal counter-sunk screws	4,0 x 40	PZ2	790029
200	universal counter-sunk screws	4,0 x 50	PZ2	790031
200	universal counter-sunk screws	4,5 x 40	PZ2	790041
100	universal counter-sunk screws	5,0 x 40	PZ2	790053
100	universal counter-sunk screws	5,0 x 50	PZ2	790054
100	universal counter-sunk screws	5,0 x 60	PZ2	790055
50	universal counter-sunk screws	6,0 x 60	PZ3	790064
50	universal counter-sunk screws	6,0 x 80	PZ3	790065
1	Bit-Box 17-pcs., incl. holder			102210

Art. no.	set	empty	kg	PU
792810	1800	221131	5,760	1

Screws and dowel assortment box Mix

Content: 700 screws, 425 dowel in plastic bulk storage chest 415 x 335 x 90 mm

Qty.	Description	Size	Art. no.
100	Expansion dowel sleeve	S6	794014
50	Expansion dowel sleeve	S8	794016
25	Expansion dowel sleeve	S10	794018
100	Countersunk nail dowel	5x50	794022
50	Countersunk nail dowel	6x40	794024
50	Countersunk nail dowel	6x60	794026
50	Countersunk nail dowel	6x80	794028
50	Universal pan head screw	4x35	790101
100	Universal pan head screw	5x40	790120
200	Universal countersunk screw	4x45	790030
200	Universal countersunk screw	5x50	790054
100	Universal countersunk screw	6x50	790063



Art. no.	set	empty	kg	PU
792821	1125	221131	6,000	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

SysCon universal countersunk screws

Content: 1650 universal countersunk screws

1 220370 ABS plastic box SysCon S
1 220375 Foam SysCon 400 x 300 x 10 mm
1 220399 Assortment insert SysCon

Qty.	Art. no.	Description	Size	Drive
400	790015	Universal countersunk screws	3,5 x 20	PZ2
200	790027	Universal countersunk screws	4,0 x 30	PZ2
200	790029	Universal countersunk screws	4,0 x 40	PZ2
200	790031	Universal countersunk screws	4,0 x 50	PZ2
200	790041	Universal countersunk screws	4,5 x 40	PZ2
100	790053	Universal countersunk screws	5,0 x 40	PZ2
100	790054	Universal countersunk screws	5,0 x 50	PZ2
100	790055	Universal countersunk screws	5,0 x 60	PZ2
50	790064	Universal countersunk screws	6,0 x 60	PZ3
100	790065	Universal countersunk screws	6,0 x 80	PZ3

Art. no.	set	empty	kg	PU
220389	1650	220370	7,000	1

SysCon plate screws

Content: 2000 universal screws

1 220370 ABS plastic box SysCon S
1 220375 Foam SysCon 400 x 300 x 10 mm
1 220399 Assortment insert SysCon

Qty.	Art. no.	Description	Size	Drive
200	790327	Universal screw pan head	4,2 x 19	PH2
200	790329	Universal screw pan head	4,2 x 25	PH2
200	790332	Universal screw pan head	4,2 x 31	PH2
200	790333	Universal screw pan head	4,2 x 38	PH2
200	790450	Assembly screw pan head with washer	4,2 x 13	PH2
200	790452	Assembly screw pan head with washer	4,2 x 25	PH2
200	790456	Assembly screw pan head with washer	4,2 x 45	PH2
200	790470	Assembly screw with washer, self-tapping	4,2 x 13	PH2
200	790423	Plate screw DIN 750, 4M	4,2 x 16	PH2
200	790426	Plate screw DIN 750, 4M	4,2 x 25	PH2

Art. no.	set	empty	kg	PU
220398	2000	220370	2,600	1

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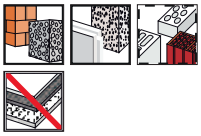
Push-through expansion dowel

Suitability

- For all concrete and masonry building materials, with limitations for cavity building materials
- For fixing all items which can be attached using wood and chipboard screws

Features

- Three-way split of the expansion part for guiding screws perfectly and centrically
- Quicker installation and higher extraction value
- Support and rotating construction wedges ensure good anti-twist protection
- Optimum expansion behaviour in both solid and softer materials and in hollow and perforated bricks
- Passage opening in the dowel tip makes screwing easier



Art. no.	Ø x length	screw-Ø	depth	g	PrU	PU
794002	6 x 30	3,5 – 5,0	40	0,640	100	100
794004	8 x 40	4,5 – 6,0	50	1,380	100	100

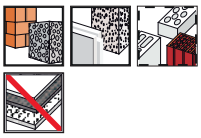
Expansion dowel sleeve

Suitability

- For all concrete and masonry building materials, with limitations for cavity building materials
- For fixing all items which can be attached using wood and chipboard screws

Features

- Three-way split of the expansion part for guiding screws perfectly and centrically
- Quicker installation and higher extraction value
- Support and rotating wedges ensure good anti-twist protection
- Optimum expansion behaviour in both solid and softer materials and in hollow and perforated bricks
- Passage opening in the dowel tip makes screwing easier
- with additional collar



Art. no.	Ø x length	screw-Ø	depth	g	PrU	PU
794012	5 x 25	2,5 – 4,0	35	0,390	100	100
794014	6 x 30	3,5 – 5,0	40	0,700	100	100
794016	8 x 40	4,5 – 6,0	50	1,570	100	50
794018	10 x 50	6,0 – 8,0	60	2,900	100	25

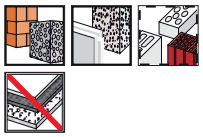
Countersunk nail dowel

Suitability

- For concrete, solid brick, with limitations for aerated concrete and hollow concrete blocks

Features

- Time-saving fixing system consisting of one expansion dowel and one expansion nail
- Pre-assembled system: The expansion nail fixes firmly into the dowel.
- Hammer-in stop prevents premature expansion
- The dowel and fixed item can be removed by simply unscrewing the expansion nail from the dowel



Art. no.	Ø x length	screw	strength	g	PrU	PU
794020	5 x 30	PZ	5	2,670	100	100
794022	5 x 50	PZ	25	3,780	100	100
794024	6 x 40	PZ	10	4,070	100	50
794026	6 x 60	PZ	30	5,510	100	50
794028	6 x 80	PZ	50	7,360	100	50
794030	8 x 60	PZ	20	10,440	100	50

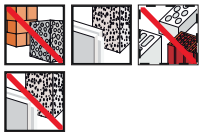
Aerated concrete dowel with setting tool

Suitability

- For porous concrete (aerated concrete)

Features

- Time-saving fixing system
- Cutting into the building material guarantees expansion-free anchoring
- Use in electrical operations thanks to non-conductive plastic
- Solid edge prevents slide-in in the drilled hole and ensures exact screw depth
- Includes reusable setting tool



Art. no.	Ø x length	screw-Ø	depth	g	PrU	PU
794040	10 x 50	4,0 – 6,0	60	4,800	100	50

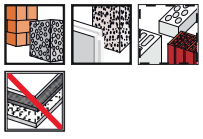
Universal metal dowel

Suitability

- Concrete, solid brick, porous concrete, limitations for perforated bricks and hollow concrete blocks

Features

- Perfect screw guidance thanks to ribbed internal geometry
- Fire-proof pipe fixing according to technical guidelines for gas pipe installation (TRGI 3.3.7.2.)
- Dowel can be driven into porous concrete G2 and G4 without pre-drilling.



Art. no.	Ø x length	screw-Ø	depth	g	PrU	PU
794050	6 x 32	5,0 – 6,0	40	2,390	100	200
794052	8 x 60	6,0 – 8,0	70	4,790	100	100

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

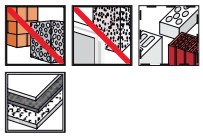
Spring toggle

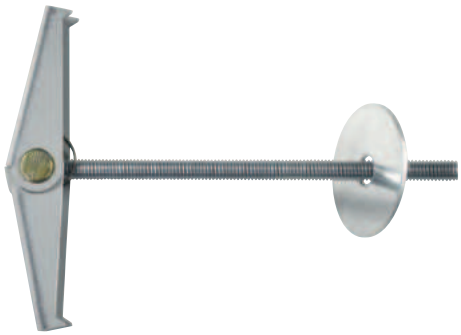
Suitability

- Plasterboard and gypsum fibreboard, chipboard, fibre cement board, cavity brick covers, hollow body covers

Features

- Special metal cavity anchor
- The side opens in any position in the hole using a spring mechanism
- Long threaded rod for a larger wall thickness
- Execution: Threaded rod with washer and hexagonal nut





Art. no.	Ø x length	bore hole-Ø	min/max	g	PrU	PU
794060	4 x 100	14	35/80	17,240	100	25
794062	5 x 100	16	45/80	33,700	100	20

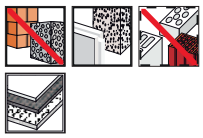
Plasterboard dowel with setting tool

Suitability

- Plasterboard, limitations for full plasterboard and porous concrete

Features

- Time-saving fixing system with dowel and setting tool
- Perfect insertion thanks to streamlined dowel tip
- Cutting into the building material guarantees optimum anchoring
- Use in electrical operations thanks to non-conductive plastic
- Includes reusable setting tool



Art. no.	length	screw-Ø	depth	g	PrU	PU
794070	24	4,0 – 6,0	35/80	1,520	100	50

Concrete	
Natural stone	
Full bricks	
Porous concrete (aerated concrete)	
Full plasterboard panels	
Perforated bricks	
Hollow concrete blocks	
Plasterboard panels	
Boards/panels	

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Tool cases

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Classification for tool cases | Specifications

Legend

- ABS rigid case
- maximum load
- with document compartment
- with lock
- with lock (TSA = can be opened non-destructively by customs)
- with combination lock
- flight-suitable
- air and water-tight
- temperature range for use
- Trolley

ABS

- Surrounding impact edge protection
- High quality metal locks, lockable
- Stable and hardened aluminium frame
- Ergonomic handle
- 3 metal hinges
- Including carrying strap

220028 Tool case Start up S — 460 x 180 x 310 mm

220031 Tool case Start up Profi — 470 x 200 x 360 mm

220023 Trolley Start up Profi — 470 x 200 x 360 mm

HDPEfly

- Flight-suitable and break-proof
- Extreme durability thanks to HDPE shell with soft-touch look
- Corners additionally reinforced with aluminium
- Extra wide surrounding impact edge protection
- Locking, extra-long trolley system
- Ball-bearing mounted easy running castors
- High quality metal die cast locks, lockable
- Additional combination lock
- Extremely stable and specially hardened aluminium frame
- 3 riveted metal hinges
- Particularly stable lid holder
- Screw-fitted handle and locks

220248 Trolley flight-suitable HDPE — 470 x 220 x 360 mm

ABS+

- Extra wide surrounding impact edge protection
- High quality metal locks, lockable
- Extra stable and hardened aluminium frame
- 3 metal hinges
- Particularly stable lid holder

220076 Tool case Pendant — 460 x 180 x 310 mm

220068 Tool case Omega — 460 x 180 x 310 mm

220038 Tool case Aktion — 460 x 160 x 310 mm

220042 Tool case Omega Max — 470 x 200 x 360 mm

220048 Tool case Omega Trolley — 470 x 220 x 360 mm

PPsafe

- Extremely durable polypropylene
- Flight-suitable and break-proof
- Impact and kick-proof
- Ergonomic carry handle
- Handle can be pulled out to use as a trolley
- Can be used in temperature ranges of -33°C to +90°C
- Can be stacked

220311 Installation case Extreme — 581 x 455 x 381 mm

220299 Tool case trolley Extreme — 517 x 277 x 217 mm

Nylonbags

HAUPA ToolPouch

7 pockets to keep your tools handy with hammerloop and tapeholder belt loop with strong snap-button for easy attachment to belt. Material: extra strong 600D polyester, colour: black with green stitching

Art. no.	width	height	depth	kg	PU
220103	150	260	30	0,102	1

HAUPA ToolBelt

8 compartments for your tools, reinforced main compartment, steel rivets for high reliable quality. Big front compartment for nails or measurement tape, hammer sleeve, fits up to 135 cm hips, material: extra strong 600D polyester, colour: black with green stitching

Art. no.	width	height	depth	kg	PU
220105	200	300	100	0,326	1

Tool belt

Tool belt

10 compartments to organize your tools, hammer sleeve and tapeholder belt loop for easy attachment to belt, materials: extra strong 600D polyester, colour: black with green stitching.

Art. no.	width	height	depth	kg	PU
220224	880	280	30	0,350	1

Backpacks

Tool backpack HUPtoGo

Work on the go with the HAUPA tool backpack HUPtoGo

- **Velcro pad on front pocket can be embroidered for personalisation**
- 41 compartments, including 6 outer pockets (3 neoprene)
- 4 inside pockets with zip
- Front neoprene pockets (e.g. level, long chisel)
- Practical detachable knee pad
- High, waterproof base for moisture protection
- Reflective strips on front
- 2 metal fixing lugs on sides
- Ergonomically padded, adjustable shoulder straps
- Padded back and carrying handle
- Highly tip resistant, even when open
- Material: extremely strong 1680D polyester
- Colour: black with grey seams

Art. no.	width	height	depth	kg	PU
220249	400	450	260	3,000	1

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HAUPA ToolBag

Tool bag with inner and outer tool compartments, rubber-reinforced base. Waterproof and dirt resistant, double cross-seam for heavy loads, removable shoulder strap, adjustable, 10 compartments outside (various sizes), 10 compartments inside (various sizes), belt for spirit level (outside), material: extra strong 600D polyester, colour: black with green seams.

Art. no.	width	height	depth	kg	PU
220061 ✷	320	280	190	1,507	1

HAUPA ToolBag XL

Tool bag XL with inner and outer tool compartments, rubber-reinforced base. Features: waterproof and dirt resistant, rubber-reinforced base, double cross-seam for heavy loads, removable shoulder strap, adjustable, 10 compartments inside/outside (various sizes), belt for spirit level (outside), material: extra strong 600D polyester, colour: black with green seams.

XL

Art. no.	width	height	depth	kg	PU
220366	420	310	220	1,507	1

HAUPA BigBox

very big box look alike Tool bag, easy approach to the tools, inside and outside compartments for tools, reinforced handles, material: extra strong 600D polyester, colour: black with green stitching.

Art. no.	width	height	depth	kg	PU
220095	410	320	240	1,937	1

HAUPA ProBag

Tool bag with compartments inside and out, base shell made from plastic, dual seat seaming for high loads, removable shoulder strap, adjustable, 4 outer pockets (in various sizes), holder for insulation tape, 2 large internal compartments, suitable, for example, for DIN A4 folders or 15“ laptops plus various compartments (in various sizes), straps for spirit level (outside), material: extremely strong 1680D polyester, water and dirt resistant,
colour: black with green seams.

Art. no.	width	height	depth	kg	PU
220368	420	430	300	1,507	1

Service bags

Supply service bag

Document pocket, pockets for tools and measuring devices, bag for small parts, large pockets, rubber rings, separate main compartment (padded) for laptop and documents, can be divided using the removable wall section. Notebook pocket up to 15“. Colour: black/green.

Features:

- Ergonomic handle
- Adjustable carrying strap with shoulder pad
- Business card pocket for identification purposes
- 2 large side zipped pockets (one of which can be opened fully and has inserts)
- 2 large folding side pockets, can be removed individually, one of which as a small pocket on the front
- Polytex straps for transport securing

Art. no.	width	height	depth	kg	PU
220292	510	335	220	3,600	1

HAUPA SquareBag

Tool bag made of 600D Polyester

- compact design and low weight
- with inner and outer tool compartments
- rubber-reinforced base as protection against dirt and moisture
- double cross-seam for heavy loads
- carrier bar of metal, for high wearing comfort
- removeable carrying strap, padded
- additional pockets of polyester with hook of metal and velcro fastening
- Material: extra strong 600D Polyester, water resistant and dirt-repellent
- colour: black with green stitching

Art. no.	width	height	depth	kg	PU
220703	260	260	230	1,500	1

Tool sets

Tool wallets

made of black linen, with 20 compartments and leather strap fastening

Art. no.	width	depth	kg	PU
220006	600	310	0,452	1

Roller pockets 1000 V

VDE/GS - Tool wallets Rebell

in red coloured wallet

Art. no.	width	height	depth	kg	PU
220016	300	230	50	0,814	1

Ratchet wrenches

Tool holder for construction buckets

Tool bag for hanging up/covering in a commercially available 10L bucket, 30 exterior pockets/compartments, 14 inner pockets/compartments, 1 hammer loop, 1 loop with carabiner, stain-resistant, double cross-seam stitching for high load capacity, material: extra strong 1680D polyester, colour: black, green.
Supplied without buckets!

360° 220313

Art. no.	width	height	depth	kg	PU
220313 ✷	305	357	80	0,560	1

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HAUPA ToolPouch

7 pockets to keep your tools handy with hammerloop and tapeholder belt loop with strong snap-button for easy attachment to belt. Material: extra strong 600D polyester, colour: black/green.

Content:
- 2C combination pliers*
- 2C electricians' screwdriver
- 2C cross slotted screwdriver PH
- Cable stripper, manual
- VDE/GS voltage tester

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220506	6	220103	0,789	1

HAUPA ToolBelt Standard

8 compartments for your tools, reinforced main compartment, steel rivets for high reliable quality. Big front compartment for nails or measurement tape, hammer sleeve, fits up to 135 cm hips. Material: extra strong 600D polyester, colour: green, black

Content:
- 2C cross slotted screwdrivers PH, size 1 and 2
- 2C electrician's screwdriver
- 2C combination pliers 200 mm*
- 2C side cutters 160 mm
- Engineers' hammer, 300 g
- Cable stripping knife, 1-piece
- Measuring tape, 3 m

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220213	9	220105	2,222	1

Nylon bags 1000 V

HAUPA ToolBelt VDE 1000 V

8 compartments for your tools, reinforced main compartment, steel rivets for high reliable quality. Big front compartment for nails or measurement tape, hammer sleeve, fits up to 135 cm hips, material: extra strong 600D polyester, colour: black/green.

Content:
- 2C combination pliers, 205 mm*
- 2C side cutters, 165 mm
- 2C electrician's screwdriver
- 2C cross slotted screwdrivers PH, size 1 and 2
- Voltage tester Basic
- Cable knife, 1-piece

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220211 ✷	8	220105	1,723	1

Tool belts

Tool belt Basic

10 compartments to organize your tools, hammer sleeve and tapeholder belt loop for easy attachment to belt, materials: extra strong 600D polyester, colour: black/green.

Content:
- 2C VDE electrician's screwdriver 5.5x125 mm
- 2C VDE electrician's screwdriver 3x100 mm
- 2C VDE screwdriver PH 2
- 2C combination pliers 180 mm*
- 2C diagonal cutters 160 mm
- Basic voltage tester, black | 125 – 250 V
- Lightweight universal cutter knife
- Hook blade cutter 8–28 mm
- Cable cutter with stripping function
- Measuring tape 3 m

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220280	11	220224	2,120	1

Tool belt VDE Plus 1000 V

10 compartments to organize your tools, hammer sleeve and tapeholder belt loop for easy attachment to belt, materials: extra strong 600D polyester, colour: black/green

Content:
- 2C-VDE-Cable cutters 200 mm
- 2C-VDE-Side cutters 165 mm
- 2C-VDE-Combination pliers 185 mm*
- 2C-Replaceable blade system Vario 1000 V, 10 pcs.
- VDE-Cable cutter straight blade, 50 mm
- Voltage tester Profi 12-690 V
- Test Pen Basic

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220281 ✷	17	220224	2,740	1

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Tool belt 1000 V

Tool belt VDE 1000 V

10 compartments to organize your tools, hammer sleeve and tapeholder belt loop for easy attachment to belt, materials: extra strong 600D polyester, colour: black/green

Content:
- 2C-VDE-Side cutters 165 mm
- 2C-VDE-Cable cutters 160 mm
- 2C-VDE-Combination pliers 185 mm*
- 2C-VDE-Electricians' screwdriver 5,5x125 mm
- 2C-VDE-Cross slotted screwdrivers PH 2
- 2C-VDE-Electricians' screwdriver 3x100 mm
- VDE-Cable cutter straight blade, 50 mm
- Test Pen Basic

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220282	9	220224	2,020	1

Backpacks

Tool backpack HUPtoGo1

Work on the go with the new HAUPA tool backpack HUPtoGo1

- 41 compartments, including 6 outer pockets (3 neoprene)
- 4 internal zip pockets
- Front neoprene pockets (e.g. level, long chisel)
- Practical detachable knee pad
- High, waterproof base for moisture protection
- Reflective strips on front
- Velcro pad on front pocket can be embroidered for personalisation
- 2 metal fixing lugs on sides
- Ergonomically padded, adjustable shoulder straps
- Padded back and carrying handle
- Highly tip resistant, even when open
- Material: extremely strong 1680D polyester
- Colour: black with grey seams
- Tool backpack 220249

With professional equipment 220830 ideal for quick use, thanks to HAUPA professional tools.

Content:
- VDE cable cutter 160 mm*
- VDE long chain nose pliers DIN ISO 5745*
- VDE combination pliers 200 mm*
- VDE side cutters 160 mm*
- VDE cable stripping knife, straight blade 50 mm
- LED mini working light HUPlight4 | 4 Watt
- Voltage tester Profi LEDplus II 6 – 1,000 V
- Universal switch cabinet key HUPkey
- Wire stripper Super Plus 0.2 – 6 mm²
- VDE pliers wrench 280 mm
- VDE screwdriver set **HUPslimPlus**
  VDE electrician's screwdriver **HUPslim**
  3.5 x 0.6 x 100 mm, 4 x 0.8 x 100 mm, 4 x 1.0 x 100 mm,
  5.5 x 1.0 x 125 mm, 6.5 x 1.2 x 150 mm
  VDE Phillips screwdriver **HUPslim** Phillips, size 1 + 2
  VDE Phillips screwdriver **HUPslim** Pozidriv, size 1 + 2
  VDE screwdriver HUPslim with PZ/Fl profile, size 1 + 2
  Voltage tester 100 - 250 V loose
- Socket set 1/4", 33-parts
- Fitter's hammer 500 g
- Electrician's chisel 10 x 250 mm
- Stone chisel, flat oval 32 x 300 mm
- Flexi PUK saw
- Set X-CrimpPlus
- Switch cabinet level 200 mm
- Measuring tape 5 m
- Deep hole marker, 2-in-1, black, with sharpener
- Tool backpack HUPtoGo220249

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220830	32	220249	10,940	1

Backpacks

Tool backpack HUPtoGo2

Work on the go with the new HAUPA tool backpack HUPtoGo2

- 41 compartments, including 6 outer pockets (3 neoprene)
- 4 internal zip pockets
- Front neoprene pockets (e.g. level, long chisel)
- Practical detachable knee pad
- High, waterproof base for moisture protection
- Reflective strips on front
- Velcro pad on front pocket can be embroidered for personalisation
- 2 metal fixing lugs on sides
- Ergonomically padded, adjustable shoulder straps
- Padded back and carrying handle
- Highly tip resistant, even when open
- Material: extremely strong 1680D polyester
- Colour: black with grey seams
- Tool backpack 220249

Content:
- VDE long chain nose pliers, curved, 200 mm*
- VDE combination pliers 180 mm*
- VDE side cutters 160 mm*
- VDE screwdriver set **HUPslim*** PH
- Utility knife HUPblackSeries18
- Blades HUPblades18
- LED torch Pen Torch
- Wire stripper Basic 0.5 – 6 mm²
- Basic cable stripper 8 – 28 mm with hook blade
- Test Pen Profi 12 – 1000 V
- Fitter's hammer 500 g
- Electrician's chisel 10 x 250 mm
- PUK saw with fixed handle
- Carpenter's pencil, black, Mine 7B, triangular, 240 mm
- Measuring tape 3 m

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220831	20	220249	5,700	1

Tool Jackets

HAUPA Tool Jacket

Tool jacket for quick access to your tools. Tool jacket for fitters including 10 tools. Quick assembly with strong zip, inside and outside pockets, particularly suitable for use in hot temperatures. Colour: green, black, width 500 mm, height 580 mm.
Non-slip shoulder belt, breathable inside net, 2 document holders at back, 5 screwdriver pockets (with rubber adjustment), 1 pen pocket, 1 mobile phone pocket (Velcro®), 1 shear pocket (with rubber adjustment), 2 pliers pockets (pushbutton fastener), 1 voltage detector pocket (Velcro®), 1 pocket for small parts (Velcro®), hammer loop.

Content:
- 2C-VDE electrician's screwdriver with PZ/FL profile
- 2C-VDE electrician's screwdrivers, 75, 10, 125 mm
- 2C cross slotted screwdriver, PH, 80 mm
- 2C electrician's scissors
- Combination pliers VDE*
- Diagonal cuttter VDE
- Voltage tester Basic
- Engineer's hammer 300 g

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220560	10	220053	2,700	1

HAUPA ToolBag

Tool bag for the trainee, with pockets inside and outside, bottom shell reinforced with rubber, double cross stitching for high load, detachable shoulder strap, adjustable, 10 pockets outside (various sizes), 10 pockets inside (various sizes), straps for spirit level (outside), material: extra strong 600D polyester, waterproof and dirt-repellent, colour: black with green seams, equipped with 22 tools.

Content:
- 2C combination pliers, 200 mm*
- 2C side cutters, 160 mm
- 2C telephone pliers, straight*
- 2C wire stripping pliers, 160 mm*
- VDE screwdriver set, 6 electrician's screwdrivers
- Voltage tester 120 - 250 V, loose
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Water brush
- Paint scraper, 40 mm
- Electrician's chisel, 10 x 250 mm
- Stone chisel, 300 mm
- Engineers' hammer, 300 g
- Sledge hammer, 1000 g
- Plaster container
- Cable knife, 1-pieces
- PUK pocket saw, fixed handle
- Carpenter's pencil

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220500	23	220061	6,350	1

HAUPA ToolBag XL Classic

Tool bag XL with inner and outer tool compartments, rubber-reinforced base. Comes complete with 22 tools.
Features: Waterproof and dirt resistant, rubber-reinforced base, double cross-seam for heavy loads, removable shoulder strap, adjustable, 10 compartments inside/outside (various sizes), belt for spirit level (outside), material: extra strong 600D polyester, colour: green, black. ToolBag XL 220366.

Content:
- 2C-VDE electrician's screwdrivers,
2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C combination pliers, 200 mm*
- 2C heavy duty side cutters, 175 mm*
- 2C telephone pliers, straight, 200 mm*
- 2C wire stripping pliers, 160 mm
- Voltage tester 120 - 250 V, loose
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Water brush
- Paint scraper, 40 mm
- Electrician's chisel, 10 x 250 mm
- Stone chisel, 300 mm
- Engineers' hammer, 300 g
- Sledge hammer, 1000 g
- Plaster container
- Cable knife, 1 blade
- PUK pocket saw, fixed handle
- Carpenter's pencil

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220802	23	220366	6,080	1

HAUPA ToolBag XL Go

Tool bag XL with inner and outer tool compartments, rubber-reinforced base. Features: Waterproof and dirt resistant, rubber-reinforced base, double cross-seam for heavy loads, removable shoulder strap, adjustable, 10 compartments inside/outside (various sizes), belt for spirit level (outside), material: extra strong 600D polyester, colour: green, black. ToolBag 220366.

Content:
- VDE combinations pliers, 185 mm*
- VDE heavy duty side cutters, 170 mm*
- VDE telephone pliers, straight, 200 mm*
- 2C-VDE electrician's screwdriver PZ/FL 1 + 2
- 2C-VDE electrician's screwdriver 2,5 x 75, 3,5 x 100, 4 x 100, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH 1 + 2
- Automatic wire stripper 0,2-6 mm²
- Switching cabinet key
- Cable stripper hooked blade, 8 - 28 mm Ø

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220804 ✷	15	220366	4,400	1

HAUPA TrendBox

Tool bag for professional use. With inside and outside pockets, including 20 tools, easy approach to the tools, inside and outside compartments for tools, reinforced handles, material: extra strong 600D polyester, colour: green, black.

Content:
- 2C combination pliers, 200 mm*
- 2C side cutters, 160 mm*
- 2C telephon pliers, straight, 200 mm
- 2C water pump pliers, 240 mm
- VDE screwdrivers set, 6 electricians' screwdrivers
- Cable ties, 292 x 3,6 mm
- Cabinet spirit level
- Filling knife, 40 mm
- Electrician's chisel, 10 x 250 mm
- Basic voltage tester, black | 125 - 250 V
- Fitter's hammer, 300 g
- Universal stripper
- Measuring tape, 3 m
- PUK pocket saw, fixed handle
- Carpenters pencil

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220550	120	220095	5,540	1

HAUPA TrendBox Plus

Tool bag for professional use. With inside and outside pockets, easy access to the tools, inside and outside compartments for tools, reinforced handles, material: extra strong 600D polyester, colour: green, black. Big box 220095.

Content:

- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C combination pliers, 180 mm*
- 2C telephone pliers, 200 mm
- 2C side cutters, 160 mm*
- 2C water pump pliers, 240 mm
- 2C wire stripping pliers, 160 mm
- Bit-Box, 17-pieces
- Voltage tester Basic
- Allen keys set, 7-pieces
- Adjustable single-head wrench
- Chalk - blue
- Impact cord roller
- Carpenters' pencil
- Engineers' hammer 300 g
- Cable stripping knife
- Junior hacksaw, heavy 150 mm
- Cable cutters 160 mm insulatet
- Combi-Drillbox
- Spanners for switch-cabinets
- Folding rule, fibre glass, 2 m

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220556 ✸	65	220095	6,430	1

HAUPA ProBag Max

Tool bag with compartments inside and out, base shell made from plastic, dual seat seaming for high loads, removable shoulder strap, adjustable, 4 outer pockets (in various sizes), holder for insulation tape, 2 large internal compartments, suitable, for example, for DIN A4 folders or 15" laptops plus various compartments (in various sizes), straps for spirit level (outside), material: extremely strong 1680D polyester, water and dirt resistant, colour: black/green. ProBag 220368.

Content:

- 2C-VDE combinations pliers, 185 mm*
- 2C-VDE heavy duty side cutters, 170 mm*
- 2C-VDE telephone pliers, straight, 200 mm*
- 2C-VDE electrician's screwdriver 2,5 x 75, 3,5 x 100, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH 1 + 2
- 2C-VDE electrician's screwdriver PZ/FL 1 + 2
- Cable cutter 160 mm
- ESD electronic pliers 110 mm
- Allround soft-grip scissor 150 mm
- Automatic cable stripper 0,08-6,0 mm²
- LED Headlight headlamp
- VDE cable knife 50 mm
- Utility knives EXTRA with spare blades 19 mm
- Voltage tester Profi LCD Plus 12-1.000 V
- Spanners for switch-cabinets
- Measuring tapes 3 m
- Adjustable single-head wrench 24 mm
- Bit set, 33 pieces
- Industrial cleaning wipes
- Cable ties black UV resistant, 203x4,6 mm
- Cable ties natural 203x4,6 mm
- HAUPA Flex Bag

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220810	30	220368	9,180	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

HAUPA ProBag Go 1000 V

Tool bag with compartments inside and out, base shell made from plastic, dual seat seaming for high loads, removable shoulder strap, adjustable,
4 outer pockets (in various sizes), holder for insulation tape, 2 large internal compartments, suitable, for example, for DIN A4 folders or 15“ laptops plus various compartments (in various sizes), straps for spirit level (outside),
material: extremely strong 1680D polyester, water and dirt resistant, colour: green/black. ProBag 220368.

Content:
- 2C-VDE combinations pliers, 185 mm*
- 2C-VDE heavy duty side cutters, 170 mm*
- 2C-VDE telephone pliers, straight, 200 mm*
- 2C-VDE electrician’s screwdriver PZ/FL 1 + 2
- 2C-VDE electrician’s screwdriver 2,5x75, 3,5x100, 4x100, 6,5x150 mm
- 2C-VDE cross slotted screwdrivers PH 1 + 2
- Automatic wire stripper 0,2-6 mm²
- Switching cabinet key
- Cable stripper hooked blade, 8 - 28 mm Ø

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220812 ✷	15	220368	6,400	1

HAUPA ProBag Start VDE

Tool bag with compartments inside and out, base shell made from plastic, dual seat seaming for high loads, removable shoulder strap, adjustable,
4 outer pockets (in various sizes), holder for insulation tape, 2 large internal compartments, suitable, for example, for DIN A4 folders or 15“ laptops plus various compartments (in various sizes), straps for spirit level (outside),
material: extremely strong 1680D polyester, water and dirt resistant,
colour: green/black. ProBag 220368.

Content:
- 2C VDE electrician‘s screwdriver 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C VDE Phillips screwdriver PH, size 1 + 2
- 2C VDE telephone pliers 200 mm
- 2C VDE combination pliers 180 mm*
- VDE power side cutters 170 mm*
- 2C VDE wire strippers 160 mm
- Cable knife, 1-piece
- PUK pocket saw
- 1 electrician‘s chisel 10 x 250 mm
- Voltage tester 120 – 250 V, loose
- 1 stone chisel 300 mm
- 1 locksmith‘s hammer 300 g
- 1 hammer 1000 g
- 1 putty knife 40 mm
- 1 plaster mould
- 1 paintbrush

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220814	21	220368	9,180	1

HAUPA ToolBag 1000 V

Universal tool bag with pockets inside and outside, bottom shell reinforced with rubber, double cross stitching for high load, detachable shoulder strap, adjustable, 10 pockets outside (various sizes), 10 pockets inside (various sizes), straps for spirit level (outside), material: extra strong 600D polyester, waterproof and dirt-repellent, colour: black with green seams, equipped with 13 tools.

Content:
- 2C-VDE-screwdriver set, 6-piece
- VDE combinations pliers 185 mm*
- VDE side cutters 165 mm*
- VDE snipe nose pliers 200 mm, straight*
- VDE wire stripping pliers 160 mm
- Universal switch cabinet spanner
- Cable knife
- Voltagetester Basic

* perfected cutting force performance

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220510 ✸	14	220061	3,919	1

HAUPA ToolBag XL 1000 V

Universal tool bag, with pockets inside and outside, bottom shell reinforced with rubber, double cross stitching for high load, detachable shoulder strap, adjustable, 10 pockets outside (various sizes), 10 pockets inside (various sizes), straps for spirit level (outside), material: extra strong 600D polyester, waterproof and dirt-repellent, colour: black with green seams. Bag 220366.

Content:
- 2C-VDE combinations pliers, 185 mm*
- 2V-VDE heavy duty side cutters, 170 mm*
- 2C-VDE telephone pliers, straight, 200 mm*
- 2C-VDE wire stripping pliers, 160 mm
- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- Spanners for switch-cabinets
- Cable knife
- Voltage tester Basic

* perfected cutting force performance

XL

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220800	14	220366	4,600	1

Service bag HUPsmartHome

Document compartment, compartments for tools and instruments, small pocket, big compartments, rubber loops, separate well protected main compartment for laptop and documents, additionally divided with removable centre wall. Notebook compartment up to 15“. Colour: black with green stiching. Case 220292.

Content:

- Combination pliers 180 mm*
- Side cutters 160 mm*
- Long chain nose pliers 45°, 160 mm*
- Screwdrivers set **HUPslim** 1000 V Phillips, 6 pcs.
- Screwdrivers set **HUPslim** 1000 V PZ/FL 1 + 2
- Stripper Allrounder 4 – 15 mm²
- Cable stripper Top Coax Plus 4,8 – 7,5 mm²
- Perlon fish tapes, 15 m x 3 mm
- Spanners for switch-cabinets, HUPkey
- Water pump pliers 170 mm
- Folding rules
- Aluminium spirit levels 400 mm
- Carpenters‘ pencils
- Engineers‘ hammer 300 g
- Electricians’ chisels 10 x 250 mm
- Voltage tester Basic +
- Crimping pliers HUPsquare10 0,08 – 10 mm²
- Crimping pliers for modular plugs
- Cable stripping knives
- Sensor Tool LSA
- Hand saw PUK
- Ratchet screwdriver set FlexBag
- ESD Electronic side cutter without cutting-facet

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220805	30	220292	7,550	1

Supply Max service bag

Document pocket, pockets for tools and measuring devices, bag for small parts, large pockets, rubber rings, separate main compartment (padded) for laptop and documents, can be divided using the removable wall section. Notebook pocket up to 15“. Colour: black/green.

Content:

- 2K-VDE electrician‘s screwdriver 2.5 x 75, 3.5 x 100, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2K-VDE screwdriver PH 1 + 2
- 2K-VDE screwdriver PZ/FL 1 + 2
- Cable cutter 160 mm dip-insulated
- VDE side cutter 165 mm*
- VDE combination pliers 185 mm*
- VDE-long chain nose pliers straight
- Electronic side cutter 110 mm
- Electrician‘s scissors, stainless steel 150 mm
- Switching cabinet key
- Adjustable single-head wrench 24 mm
- Bit set, 33 pieces
- All-purpose industrial cleaning cloths
- Cable-ties, black, UV-resistant 203 x 4.6 mm
- Cable-ties, natural, 203 x 4.6 mm
- Automatic strippers 0.08 - 6.0 mm²
- LED head lamp 75 lm
- VDE cable knife with replaceable blades 50 mm
- Cutting knife EXTRA with replacement blades 19 mm
- Voltage tester Profi LCD Plus 12 - 1,000 V
- Electrical insulating tape VDE 15 mm x 10 m, Rainbow pack, 263820, 10 coulors
- Measuring tape 3 m
- HAUPA Flex Bag
- Set X-CrimpPlus

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220293	30	220292	6,350	1

Supply Plus service bag

Document pocket, pockets for tools and measuring devices, bag for small parts, large pockets, rubber rings, separate main compartment (padded) for laptop and documents, can be divided using the removable wall section. Notebook pocket up to 15“. Colour: black/green.

Content:

- 2K-VDE electrician‘s screwdriver 2.5 x 75, 3.5 x 100, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2K-VDE screwdriver PH 1 + 2
- 2K-VDE screwdriver PZ/FL 1 + 2
- 2K-VDE-long chain nose pliers straight*
- Cable cutter 160 mm dip-insulated
- VDE side cutter 165 mm*
- VDE combination pliers 185 mm*
- Electronic side cutter 110 mm
- Electrician‘s scissors, stainless steel 150 mm
- Cutting knife EXTRA with replacement blades 19 mm
- Adjustable single-head wrench 24 mm
- All-purpose industrial cleaning cloths
- Cable-ties, black, UV-resistant 203 x 4.6 mm
- Electrical insulating tape VDE 15 mm x 10 m, Rainbow pack, 263820, 10 coulors
- Voltage tester Basic 6 - 400 V
- Switching cabinet key
- LED head lamp 75 lm
- Measuring tape 3 m

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220294 ✸	23	220292	6,350	1

Supply Basic service bag

Document pocket, pockets for tools and measuring devices, bag for small parts, large pockets, rubber rings, separate main compartment (padded) for laptop and documents, can be divided using the removable wall section. Notebook pocket up to 15“. Colour: black/green.

Content:

- 2C-VDE electrician‘s screwdriver 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C-VDE screwdriver PH 1 + 2
- 2C-VDE screwdriver PZ/FL 1 + 2
- VDE side cutter 165 mm*
- VDE combination pliers 185 mm*
- 2C-VDE Telephone pliers 200 mm, straight*
- Cable cutter 160 mm dip-insulated
- Electrical insulating tape VDE 15 mm x 10 m, Rainbow pack, 263820, 10 coulors
- Measuring tape 3 m

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220298	23	220292	6,350	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Service bags

HAUPA SquareBag Basic 1000 V

Tool bag made of 600D Polyester, with inner and outer tool compartments, with padded carrying strap, rubber-reinforced base, double cross-seam for heavy loads. ToolBag 220703.

Content:
- Automatic wire stripper Super Plus 0,2 – 6 mm²
- 2C-VDE electricians' screwdrivers **HUPslim** 4 x 100 mm, blade thickness 0,8 and 1,0 mm*
- 2C-VDE electricians' screwdrivers **HUPslim** PH, size 1 + 2*
- 2C-VDE electricians' screwdrivers **HUPslim** PZ/FL, size 2*
- VDE telephone pliers 45°, 200 mm*
- VDE side cutters 160 mm*
- VDE combination pliers 180 mm*
- Measuring tape 3 m
- PU textile gloves, size 9

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220706	12	220703	3,800	1

Tool sets 1000 V

VDE security set 1000 V

Bag of imitation leather, for working under tension up to 1000 V. 10-pieces

Content:
- 2C-VDE electricians screwdrivers 2,5 x 75, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PZ, size 1 + 2
- 2C-VDE combination pliers VDE 185 mm*
- 2C-VDE side cutters 185 mm*
- Voltage tester Basic
- Cable stripping knife, 35 mm

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220014	10	220004	1,688	1

VDE/GS - Tool sets 1000 V

in red coloured plastic wallet, made from artificial leather, 11-pieces.

Content:
- VDE combination pliers 185 mm*
- VDE round nose pliers 160 mm*
- VDE side cutters 165 mm
- VDE wire stripping pliers 160 mm*
- 2C-VDE electricians screwdrivers 75, 100, 125, 150 mm
- 2C-VDE cross slotted screwdrivers PZ, size 1
- 2C-VDE socket wrench 7 mm
- voltage tester Basic, black | 125 - 250 V

* Double immersion insulated pliers

Art. no.	set	empty	kg	PU
220130	11	220016	2,216	1

Leather tool cases

Tool case Tradition

made of black leather, with 2 inside loops and 2 snap-locks.

Art. no.	width	height	depth	kg	PU
220022	340	170	110	0,821	1

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Leather tool cases

Tool case Favorit / Admiral

made of black leather, with galvanized floor-onsert of sheet-metal collapsable front, with locks, side-, front-, rear-parts as well as bottom and cover reinforced, inside with tool-compartments and adjustable loops, without carrying belts.

220060: Favorit
220064: Admiral

Art. no.	width	height	depth	kg	PU
220060	365	250	150	2,126	1
220064	470	315	145	2,990	1

Tool case Magister

of signal-red leather, with many compartements for tools, empty

Art. no.	width	height	depth	kg	PU
220142	440	260	165	2,700	1

Accessories

Brass padlocks

body made from a solid brass block, hardenend steel shackle, with 2 keys

Art. no.	Gr.	kg	PU
220110	30	0,085	1
220112	40	0,135	1

Carrying belts

With shoulder protection and two spring hooks

Art. no.	kg	PU
220054	0,114	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Tool case Phoenix

Tool case for electrical contractor, made of black neat's leather, with 39 tools. Case 220060.

Content:

- 2C long flat nose pliers, 160 mm
- 2C telephone pliers, 200 mm*
- 2C combination pliers, 180 mm*
- 2C side cutters, 160 mm*
- 2C wire stripping pliers, 160 mm
- 2C water pump pliers, 240 mm
- ESD electronic side cutters, 115 mm
- ESD electronic needle nose pliers, 130 mm
- Crimping pliers multi insulated and non-insulated crimping terminals
- 2C engineers' screwdrivers 100, 125, 150 mm
- 2C electrician's screwdrivers 2.5 x 75, 4 x 125, 5 x 150, 5 x 175 mm
- 2C cross slotted screwdrivers PH, size 0, 1 and 2
- 2C cross slotted screwdrivers PZ, size 1 and 2
- Electronic screwdriverset, 7-pieces
- 2C socket wrenches, 5.5, 12, 17
- Reamer, round
- Allen key set, 8-pieces
- Adjustable wrench, 340 mm
- Cable stripper hooked blade, 8 - 28 mm Ø
- Combination snips, 190 mm
- PUK" pocket saw, fixed handle
- Electrician's chisel, 10 x 250 mm
- Folding rules, 2 m
- Light metal spirit level, 400 mm
- Bench hammer, 300 g
- Cable cutter, max. 16.9 mm
- Cutter knife, plastic
- Cable stripping knife, plastic scales
- Basic voltage tester, black | 125 - 250 V

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220156	40	220060	9,900	1

Tool case Saphir

Tool case for electrical contractor, made of green neat's leather, with 31 tools. Case 220060.

Content:

- 2-component long nose round nose pliers 160 mm
- 2C combination pliers 180 mm*
- 2C diagonal cutters 165 mm*
- 2C telephone pliers 200 mm*
- 2C wire strippers 160 mm
- ESD electronics side cutter 115 mm
- 2C insulated water pump pliers
- 2C electrician's screwdriver 2.5 x 75, 4 x 100, 4 x 125, 5 x 150 mm
- 2C workshop screwdriver 6 x 100, 7 x 125, 8 x 150 mm
- 2C screwdriver PH 1 + 2
- 2C screwdriver PZ 1 + 2
- 2C socket spanner SW 5.5, 13
- Hexagon spanner set, 8-piece
- Hooked blade, 8 – 28 Ø
- Universal shears 190 mm
- PUK pocket saw with fixed handle
- Voltage tester Basic, black | 125 – 250 V
- Locksmith's hammer 400 g
- Measuring rod 2 m
- Electronic screwdriver set, 7-piece
- Cable cutter, max. 16.9 mm
- Cable cutter Plastic trays
- Switch cabinet spanner

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220154	32	220060	8,150	1

Tool case Novelle 1

Tool case for electrical contractor, made of black neat's, leather, with 26 tools. Case 220060.

Content:
- 2C combination pliers, 180 mm*
- 2C side cutters, 160 mm*
- 2C heavy duty side cutters, 180 mm*
- 2C telephone pliers, 200 mm*
- 2C telephone pliers, 200 mm, bent*
- 2C water pump pliers, 240 mm
- 2C wire stripping pliers, 160 mm
- 2C electrician's screwdrivers, 75, 125, 150 mm
- 2C engineers' screwdrivers, 100, 150 mm
- 2C cross slotted screwdrivers PH, size 1 and 2
- 2C cross slotted screwdrivers PZ, size 1 and 2
- Reamer square
- Cable stripper 0.5 - 4 Ø
- Cable stripper hooked blade, 8 - 28 mm Ø
- Painter scrapers
- Bench hammer 300 g
- Cable stripping knife plastic scales
- Combination snips 140 mm
- PUKpocket saw, adjustable handle
- Voltage tester Basic
- Voltage tester Basic black | 125 - 250 V

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220152/1	27	220060	6,500	1

Tool case Alpha

Tool case made from black neat's leather, equipped with 19 tools. Case 220060.

Content:
- 2C combination pliers, 180 mm*
- 2C side cutters, 160 mm*
- 2C telephone pliers, 200 mm*
- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 and 2
- Voltage tester Basic, black | 125 - 250 V
- Wire stripping pliers, 0.5 - 4 mm²
- Cable stripper hooked blade, 8 - 28 mm Ø
- Cable knife, 1-pieces
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Stone chisel, 250 mm
- Engineers' hammer, 300 g
- Measuring Tape, 3 m
- Cabinet Level, 250 m

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220169	20	220060	5,200	1

Tool case Start

Tool case for apprentices, made from black cow hide equipped with 20 tools. Case 220060.

Content:

- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 and 2
- 2C telephone pliers, 200 mm*
- 2C combination pliers, 180 mm*
- 2C side cutters, 160 mm*
- 2C wire stripping pliers, 160 mm
- Cable knife, 1-piece
- PUK pocket saw, fixed handle
- Double-face sledge hammer, 1000 g
- Voltage tester 120 - 250 V, loose
- Electricians' chisel, 10 x 250 mm
- Stone chisel, 300 mm
- Engineers' hammer, 300 g
- Spatula, 40 mm
- Plaster container
- Brush

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220168 ✷	21	220060	6,100	1

Tool case Start VDE

Tool case for apprentices, made from black coloured cowhide equipped with 20 tools, case 220060.

Content:

- 2C-VDE telephone pliers, 200 mm*
- 2C-VDE combination pliers, 180 mm*
- 2C-VDE cutters, 160 mm*
- 2C-VDE wire stripping pliers, 160 mm
- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- Cable knife, 1 blade
- Electricians' chisel, 10 x 250 mm
- Voltage tester 120 - 250 V, loose
- PUK pocket saw, fixed handle
- Brush
- Stone chisel, 300 mm
- Engineers' hammer, 300 g
- Double-face sledge hammer, 1000 g
- Spatula, 40 mm
- Plaster container

* perfected cutting force performance

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220168/VDE	21	220060	6,700	1

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Leather tool case 1000 V

Tool case Delux 1000 V

of signal-red leather, with 54 safety tools, case 220142

Content:
- 2C-VDE electrician's screwdriver 2,5 x 75, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross slotted screwdriver PH, size 1 + 2
- VDE telephone pliers, straight, 200 mm*
- VDE telephone pliers, bent, 200 mm*
- VDE combination pliers 185 mm*
- VDE side cutters 165 mm
- VDE wire stripping pliers 160 mm*
- Socket wrenches 5,5, 7,0, 8,0, 10,0 mm
- Voltage tester Profi
- Hexagon sockets 10, 11, 12, 13, 14, 15, 16
- Reversible ratchet 1/2"
- T-sliding handle 1/2"
- Open end spanners 10, 12, 13, 19, 22, 24
- Cable knife
- Cable scissor 200 mm
- Slip-on bushes 5-pieces No. 1, 10 mm
- Slip-on bushes 5-pieces No. 2, 10 mm
- Slip-on bushes 5-pieces No. 3, 10 mm
- Plastic pliers 180 mm
- Plastic clamp
- Covering tape, grey
- Covering tape, red
- Safety grip
- Gloves size 9

* Double immersion insulated pliers

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220135	55	220142	9,460	1

Tool case Rotor 1000 V

of signal-red leather, with 46 safety tools, case 220142

Content:
- VDE combination pliers 185 mm*
- VDE side cutters 165 mm
- VDE wire stripping pliers 160 mm*
- VDE round nose pliers 160 mm*
- Plastic clamp
- Gloves, size 10
- 2C-VDE electrician's screwdrivers 2,5 x 75, 4 x 100 mm
- Safety grip
- Socket wrenches, size 6, 7, 8, 9
- Rubber towels 1000 mm
- 5 slip-on-bushes size 1, 10 mm
- 5 slip-on-bushes size 2, 10 mm
- 5 slip-on-bushes size 3, 10 mm
- 5 slip-on-bushes 10 mm
- 5 slip-on-bushes 20 mm
- 5 slip-on-bushes 30 mm
- Cable knives
- Voltage tester Basic, black | 125 - 250 V

* Double immersion insulated pliers

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220140	47	220142	6,400	1

Tool case Start-up S

ABS

Hard-top case, black, interior features: 2 tool panels with Velcro fasteners, the bottom tray has variable partitions.

Art. no.	width	height	depth	kg	PU
220028	460	180	310	4,500	1

Tool case Start-up Profi

ABS

Hard-top case, black, 2 tool kits, document pocket with hook-and-loop fixing, combination lock, bottom half of case equipped with variable partitions, shoulder strap

Art. no.	width	height	depth	kg	PU
220031 ✷	500	210	430	6,740	1

Tool case trolly Start-up Profi

ABS

Rigid case, made of ABS-plastic material, black, integrated rolls and pull-out handle in the bottom, locks of alu-press-casting, empty. Inside: 1 separation for documents, 1 plate for tools, 1 cover-plate with pocket compartments and clip-compartment, 1 bottom-tray

Art. no.	width	height	depth	kg	PU
220023 ✷	470	360	220	8,400	1

Tool case OmegaMax

ABS+

rigid case, black, 28 compartments, 1 combination lock, 1 separation for documents, 2 plate for tools, 2 lockable locks, ground bowl with variables to dividing bars, framed push border

Art. no.	width	height	depth	kg	PU
220042	470	360	200	6,500	1

Tool case trolly OmegaMax Trolley

ABS+

rigid case, black, 28 compartments, 1 combination lock, 1 separation for documents, 2 plate for tools, 2 lockable locks, ground bowl with variables to dividing bars, framed push border

PREMIUM

Art. no.	width	height	depth	kg	PU
220048 ✷	470	360	220	7,000	1

Tool case Aktion

ABS+

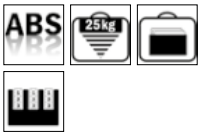
2 tool kits (one with document pocket). Ground bowl with variables to dividing bars

Art. no.	width	height	depth	kg	PU
220038	460	310	160	4,580	1

Tool case Omega

ABS+

rigid case, black, 28 compartments, 1 combination lock, 1 separation for documents, 2 plate for tools, 2 lockable locks, ground bowl with variables to dividing bars, framed push border



Art. no.	width	height	depth	kg	PU
220068	460	310	180	5,039	1

Tool case trolly Fly

HDPEfly

Hard-shell case made of HDPE, extra robust, black, airworthy, all-round bumper strip, high-quality fittings, with integrated castors and pull-out pull system in the case base, 2 lockable locks. Interior: document compartment, 3 tool trays, base tray with variable dividers.

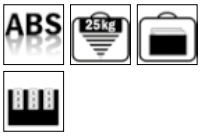
PREMIUM

Art. no.	width	height	depth	kg	PU
220248	470	220	360	6,900	1

Tool case Pendant

ABS+

Hard-shell case, signal red, without fittings, all-round bumper strip, high-quality fittings, 2 lockable locks, 1 combination lock. Interior: 1 document compartment, 2 tool boards, base tray with variable dividers.



Art. no.	width	height	depth	kg	PU
220076	460	310	180	5,107	1

Tool trolley HUPtransporter

PPsafe

Roomy and organised – the HAUPA tool trolley HUPtransporter provides a lot of space for tools

PREMIUM

NEW

With an additional tool tray, the tool trolley HUPtransporter offers an enormous amount of space for tool storage. The boards are clearly arranged, allowing easy access to tools at all times. Stable pockets and loops ensure that each tool reliably stays in its assigned spot, unless it is needed.

Content:

- Extremely sturdy case: polypropylene (PP) housing
- With gas pressure springs
- Fit for flight: automatic air-pressure release valve
- Stackable
- Dust-proof
- Protected against water splashes
- Temperature stable from -30°C to +80°C
- Ergonomic two-component handle
- Eyelets for padlock
- Aluminium divider system
- Foam insert optional
- Colour: black
- With owner label

Art. no.	width	height	depth	kg	PU
220820	539	225	359	7,550	1

Tool case ElektroCombo

black plastic case with metal catch, complete tool set for electricians and network technicians, case: 490 x 375 x 100 mm

Content:

- 2C-VDE combination pliers, 180 mm*
- 2C-VDE side cutters, 160 mm*
- 2C-VDE wire stripping pliers, 160 mm
- 2C-VDE long chain nose pliers, straight, 200 mm*
- Cable cutter 160 mm, coating-insulated
- Crimping pliers for end sleeves 0,5 - 16 mm²
- Set ball point allen keys 9-pcs., extra long
- 2C exchangeable Vario handle
- Vario replaceable blade – slotted blade 2.5, 3, 4, 5.5 mm
- Vario replaceable blade – Phillips blade 1, 2
- Vario replaceable blade – pozidrive blade 1, 2
- Vario replaceable blade – pozidrive blade/slotted 1 + 2
- Voltage tester Basic, black | 125 - 250 V
- Spanners for switch-cabinets HUPkey
- Utility knives
- Junior hacksaw 150 mm
- Electricians' chisels 10 x 250 mm
- Cabinet levels 230 mm
- Measuring tape, 5 m
- Reversible ratchet 1/4"
- Engineers' hammer, 300 g
- Extension 1/4" 100 mm
- Sockets 1/4" WS: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm
- Ratchet screwdriver „FlexPlus" for long bits
- 1/4" Bits 50mm HEX 2, 2.5, 3, 4, 5, 6
- 1/4" Bits 50mm PH 0, 1, 2, 3
- 1/4" Bits 50mm PZ 0, 1, 2, 3
- 1/4" Bist 50mm FD 3, 4, 5, 6
- 1/4" Bits 50mm TX 10, 15, 20, 25, 30, 40
- 1/4" Bits 50mm PZ/FL 1 + 2
- 1/4" SQ x 1/4" HEX adapter 50 mm
- Assortment box 160 x 115 x 40 mm

*High leverage = with lever transmission
(pliers with leverage ratio offer up to 50% power saving)

Art. no.	set	width	height	depth	kg	PU
104090	78	490	375	100	6,240	1

Tool case EXTRA

ABS

Hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, 19 tools, case 220031.

Content:

- 2C-VDE screwdriver set PZ, 101999/PZ
- 2C-VDE cross slotted screwdrivers PH, size 1
- 2C-VDE cross slotted screwdrivers PH, size 2
- Automatic wire stripper Super Plus 0,2-6 mm²
- Cable stripping knives without hook blade 8-28 mm²
- Voltagetester Basic black
- Combination pliers VDE 185 mm*
- Heavy duty diagonal cutters VDE 205 mm*
- Long chain nose pliers VDE angled 200 mm*
- Carpenters' pencils
- Engineers' hammers 300 g
- Electricians' chisels 10x250 mm
- Hand saws PUK mit fixed handle
- Torped-level 225 mm
- Folding rules 2 m
- Paint scrapers 40 mm
- Water brushes
- Plaster cups
- Cable knives 1000 V, 50 mm
- Siedge hammers 1000 g
- Stone chisels, flat oval shank 28x250 mm
- Industrial cleaning wipes
- Crimping pliers crimping pliers for insulated terminals and end sleeves 0,5 - 6 mm
- Stripper 8-13 mm²
- Cable cutters VDE 170 mm
- Electrical insulating tape VDE 15 mm x 10 m, Rainbow pack, 263820, 10 coulors
- Voltage tester Profi plus
- HAUPA Multi Check digital high-capacity multimeter

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220309	33	220031	8,680	1

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Tool case Start-up Light

ABS

hard-shell case, black, 2 tool sections, bottom with variable partitions, 14 tools, case art. 220028 Start-up S

Content:
- 2C Electricians' screwdrivers 2,5 x 75 mm, 4 x 100 mm, 5,5 x 125 mm
- 2C Cross slotted screwdrivers PH, size 1 + 2
- 2C Combination pliers, 180 mm*
- 2C Side cutters, 160 mm*
- 2C long chain nose pliers, 200 mm*
- Stripper All-rounder 4 - 15 mm
- Junior hacksaw DIN 6473 C, 150 mm with blade
- Engineers' hammer, 300 g
- Cable stripping knives, shock-proof synthetic
- Carpenters' pencils
- Measuring tape, 3 m

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220269	15	220028	9,180	1

Tool case Start-up Go

ABS

hard-shell case, black, 2 tool sections, bottom with variable partitions, case art. 220028 Start-up S

Content:
- 2C-VDE electricians' screwdrivers 2,5 x 75 mm, 4 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C-VDE combination pliers, 180 mm*
- 2C-VDE side cutters, 160 mm*
- 2C-VDE long chain nose pliers, 45° angled nose, 200 mm*
- Cable knife VDE with a straight blade
- Automatic wire stripper Super Plus 0,2 - 6 mm²
- Cable stripping knive 8 - 28 mm²
- Set ball point allen keys 9-pcs., 1,5 - 10 mm, extra long
- Spanners for switch-cabinets HUPkey
- PUK pocket saw, fixed handle
- Engineers' hammer, 300 g
- Carpenters' pencils
- Measuring tape, 3 m

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220267	27	220028	9,180	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Tool case Jobstarter Plus

ABS

Robust hard case, black. Interior equipment: 2 tool boards, bottom plate with variable dividers. Case 220028.

Content:

- 2C-VDE telephone pliers, 200 mm*
- 2C-VDE combination pliers, 180 mm*
- 2C-VDE side cutters, 160 mm*
- Stripping pliers 0,5 - 4,0 mm²
- Cable cutter VDE, straight
- Wire stripper, hooked blade, 8 - 28 mm Ø
- PUK pocket saw
- 2C-VDE electrician's screwdrivers, 2,5 x 75, 3,5 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH 1 + 2
- 2C-VDE cross slotted screwdrivers PZ 1 + 2
- Voltage tester 120 - 250 V, loose
- Electricians' chisel, 10 x 250 mm
- Stone chisels, flat oval shank
- Engineers' hammer
- Sledge hammer
- Industrial ring brush, size 4
- Paint scraper
- Plaster cup
- Carpenters' pencil, 150 mm

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220027	25	220028	10,000	1

HUPactive tool case

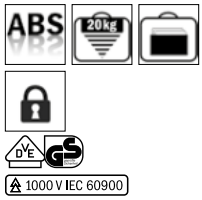
ABS

Hard-shell case, black, 2 tool boards and document pocket completely removable, lockable, incl. 2 keys, base tray with variable dividers, made of aluminium, reinforced metal corners as additional protection against damage, equipped with 22 tools. Case 220030.

Content:

- VDE electrician's screwdriver 1000 V
  3 x 0.5 x 100 mm | 4 x 0.8 x 100 mm | 5.5 x 1.0 x 125 mm
- VDE screwdriver PH, size 1 + 2
- VDE screwdriver PZ, size 1 + 2
- VDE cable cutter 160 mm*
- VDE diagonal cutters 160 mm*
- VDE cable cutting pliers 200 mm*
- Basic wire stripper 0.5 – 4 mm²
- Basic wire cutter without hook blade 8 – 28 mm² (safe working for trainees)
- VDE cable cutter 50 mm
- Voltage tester 120 – 250 V, loose
- Control cabinet spirit level 225 mm
- Original PUK pocket saw
- Locksmith's hammer 300 g
- Painter's spatula 40 mm
- Plaster mould
- Industrial ring brush, size 4
- 2 m folding rule
- Multigraph, black, refill 7B, triangular, 240 mm

* perfected cutting force performance



Art. no.	set	empty	kg	PU
220255	24	220030	9,620	1

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Tool case Start-up Max

ABS

hard-shell case, black, 2 tool sections, bottom half of case equipped with variable partitions, 24 tools, case art. 220028 Start-up S

Content:

- 2C-VDE electricians' screwdrivers
  2,5 x 75 mm, 4 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C-VDE combination pliers, 180 mm*
- 2C-VDE long chain nose pliers, 45° angled nose, 200 mm*
- 2C-VDE side cutters, 160 mm*
- 2C-VDE cable cutters, 160 mm
- Cable knife VDE with a straight blade
- Automatic wire stripper Super Plus 0,2 - 6 mm²
- Cable stripping knive 8 - 28 mm²
- Voltage tester Profi LEDplus II 3 - 1.000 V
- Crimping pliers for end sleeves 0,25 - 2,5 mm²
- Dispenser box with insulated end sleeves, colour range III, DIN
- Combination spanners similar to DIN 3113, 8-pcs.
- Set ball point allen keys 9-pcs., 1,5 - 10 mm, extra long
- Spanners for switch-cabinets HUPkey
- LED Pen Torch
- PUK pocket saw, fixed handle
- Engineers' hammer, 300 g
- Carpenters' pencils
- Measuring tape, 3 m

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220268 ✱	25	220028	9,180	1

Tool case Start-up

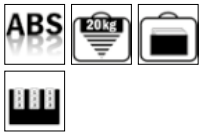
ABS

Hard-top case, black, 2 tool kits, document pocket with hook-and-loop fixing, combination lock, bottom half of case equipped with variable partitions, shoulder strap, 19 tools.

Content:

- 2C-VDE electrician's screwdrivers
  2.5 x 75, 4 x 100, 5.5 x 125 und 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers, PH, size 1 + 2
- 2C combination pliers, 180 mm*
- 2C side cutters, 160 mm*
- 2C telephone pliers, 200 mm*
- 2C wire stripping pliers, 160 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1-pieces
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Paint scraper, 40 mm
- Voltage tester 120 - 250 V, loose
- Measuring tape, 3 m
- Water brush

* perfected cutting force performance



Art. no.	set	empty	kg	PU
220221	20	220031	9,180	1

Tool case Start-up VDE

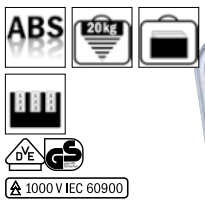
ABS

Hard-top case, black, 2 tool kits, document pocket with hook-and-loop fixing, combination lock, bottom half of case equipped with variable partitions, shoulder strap, 19 tools, Case 220031.

Content:

- 2C-VDE electrician's screwdrivers 2,5 x 75, 4 x 100, 5,5 x 125 und 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers, PH, size 1 + 2
- 2C-VDE combination pliers 185 mm*
- 2C-VDE side cutters 165 mm*
- 2C-VDE telephone pliers 200 mm*
- 2C-VDE wire stripping pliers 160 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1-pieces
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Paint scraper, 40 mm
- Voltage tester 120 - 250 V, loose
- Measuring tape,
- Water brushes

* perfected cutting force performance



Art. no.	set	empty	kg	PU
220235 ✷	20	220031	9,300	1

Tool case Elektro Plus

ABS

Hard case, black, lockable, incl. 2 keys, 2 tool boards and document pocket completely removable, base tray with variable aluminium dividers, reinforced metal corners as additional protection against damage, equipped with 24 tools. Case 220036.

Content:

- VDE electrician's screwdriver 1000 V 3 x 0.5 x 100 mm | 4 x 0.8 x 100 mm | 5.5 x 1.0 x 125 mm
- VDE screwdriver **HUPslim** PH, size 1 + 2*
- VDE screwdriver **HUPslim** PZ, size 1 + 2*
- VDE screwdriver **HUPslim** PZ/FL, size 2*
- VDE Snipe nose pliers DIN ISO 5745*
- VDE diagonal cutters 160 mm*
- VDE cable cutters 160 mm
- Basic wire stripper 0.5 - 6 mm²
- Basic wire cutter 8 - 28 mm
- Basic voltage tester 6 - 400 V
- XL stripper
- Plaster mould
- Puk saw with fixed handle
- VDE cable knife, straight blade
- Plasterer's hammer 300 g
- Painter's spatula 40 mm
- Industrial ring brush size 4
- Scale 2 m
- Carpenter's pencils
- Torpedo spirit level 225 mm

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220257	25	220036	6,500	1

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Tool case trolley Profi mobil

ABS

Hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, case art. 220023.

Content:

- 2-component socket wrenches set
- 2-component screwdrivers 2,5 x 75, 3 x 100, 4 x 100, 4 x 125, 5 x 150 mm
- Cross slotted screwdrivers PH, size 1+2, insulated
- Voltage tester Basic 6-400 V
- Electronic screwing bit set, 34-pcs
- HAUPA ratchet screwdriver “Flex”, 58-pcs
- Combination spanners sets, 12-pcs
- Adjustable single-head wrench 24 mm
- Spanners for switch-cabinets
- Engineers‘ hammer, 300 g
- Cable stripping knives with hook blade, 8-28 mm²
- Utility knives EXTRA with spare blades 19 mm
- Cable cutter with a snap, max. 16,9 mm
- Cable cutter 160 mm, dipped
- 2C combination pliers 185 mm*
- 2C diagonal cutter 165 mm*
- 2C long chain nose pliers 200 mm*
- Automatic wire stripper Super Plus 0,2-6 mm²
- ESD Electronic side cutter 115 mm
- Measuring tape 5 m
- Cabinet levels 250
- VDE electrical insulating tape 19 mm x 20 m, black (8x)

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220273	39	220023	14,700	1

Tool case trolley Master Mobil 1000 V

ABS

Hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, case art. 220023.

Content:

- 2C VDE screwdriver set PH
- VDE cable knife straight blade
- Industrial all–purpose cleaning cloths
- Measuring tape 3 m
- Puk saw with fixed handle
- VDE cable cutter 230 mm*
- VDE combination pliers 185 mm*
- VDE diagonal cutters 165 mm*
- VDE snipe nose pliers 45°, 200 mm*
- Wire stripper 0.2 - 6 mm²
- Earplugs green SNR 30 db
- 2C VDE screwdriver PZ/FL 1
- 2C VDE screwdriver PZ/FL 2
- Retractable nylon tape 15 mm, 3
- LED torch 18 x 91 mm, 80 lm
- Uni wire stripper 0.2 - 4 mm²
- Hook blade stripper 8 - 28 mm²
- Crimping pliers for insulated cable lugs and wire end ferrules
- Cable cutter 160 mm, dip-insulated
- Crimping pliers 0.75 - 16 mm²
- Bit box with safety bits, 58 pieces
- Safety goggles
- Switch cabinet spanner
- Profi Plus voltage tester
- Electronics ESD side cutter without blade, 115 mm
- Rolling spanner 24 mm
- 2K soft grip scissors 140 mm
- Cable gland IP68 M20 light grey
- Wire end ferrules in a tin can Colour series III DIN
- Cable ties black UV-resistant 250 x 4.8 mm
- Nail clips 7-10, white

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220254 ✷	37	220023	14,700	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Bestseller Premium product

Tool case trolley Start-up Mobil 1000 V

ABS

Hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, 19 tools, case art. 220023.

Content:

- 2C-VDE electricians' screwdrivers 2,5 x 75, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C-VDE combination pliers, 180 mm*
- 2C-VDE side cutters, 160 mm*
- 2C telephone pliers 200 mm, angled at 45°*
- 2C-VDE wire stripping pliers, 160 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1 blade
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Paint scraper, 40 mm
- Voltage tester 120 - 250 V, loose
- Measuring tape, 3 m
- Water brushes

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220252	20	220023	10,940	1

Tool case trolley Master Mobil HUPslim 1000 V

ABS

Hard case, black, combination lock, 1 document compartment, 2 lockable locks, 2 tool boards, base tray with variable dividers, all-round bumper strip, high-quality fittings. Case 220023.

PREMIUM

Content:

- 2C VDE screwdriver set **HUPslim** PH*
- 2C VDE screwdriver set **HUPslim** PZ/FL 1 + 2*
- VDE cable cutter 230 mm
- VDE combination pliers 180 mm*
- VDE diagonal cutters 160 mm*
- VDE Snipe nose pliers 45°, 200 mm*
- Wire strippers 0.2 - 6 mm²
- VDE cable knife, straight blade
- Industrial all-purpose cleaning cloths
- Measuring tape 3 m
- Puk saw with fixed handle
- Earplugs green SNR 30 db
- Retractable perlon tape 15 m, 3 mm
- LED torch 18 x 91 mm, 80 lm
- Uni wire stripper 0.2 - 4 mm²
- Hook blade stripper 8 - 28 mm²
- Crimping pliers for insulated cable lugs and wire end ferrules
- Cable cutter 160 mm, dip-insulated
- Crimping pliers 0.75 - 16 mm²
- Profi Plus voltage tester
- Safety goggles
- Switch cabinet spanner
- Bit box with safety bits, 58 pieces
- Electronics ESD side cutter without blade, 115 mm
- Rolling spanner 24 mm
- 2K soft grip scissors 140 mm
- Cable ties black UV-resistant 250 x 4.8 mm
- Cable gland IP68 M20 light grey
- Wire end ferrules in a tin colour series III DIN
- Nail clips 7-10, white

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220329	33	220023	14,700	1

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Tool case trolley EXTRA

ABS

Hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, case 220023.

Content:

- 2C-VDE screwdriver set PZ, 101999/PZ
- 2C-VDE cross slotted screwdrivers PH, size 1
- 2C-VDE cross slotted screwdrivers PH, size 2
- Automatic wire stripper Super Plus 0,2 - 6 mm²
- Cable stripping knives without hook blade 8 - 28 mm²
- Voltagetester Basic, black | 125 – 250 V
- Combination pliers VDE 185 mm*
- Heavy duty diagonal cutters VDE 205 mm*
- Long chain nose pliers VDE angled 200 mm*
- Carpenters‘ pencils
- Engineers‘ hammers 300 g
- Electricians’ chisels 10 x 250 mm
- Hand saws PUK mit fixed handle
- Torped-level 225 mm
- Folding rules 2 m
- Paint scrapers 40 mm
- Water brushes
- Plaster cups
- Cable knives 1000 V, 50 mm
- Siedge hammers 1000 g
- Stone chisels, flat oval shank 28 x 250 mm
- Industrial cleaning wipes
- Crimping pliers crimping pliers for insulated terminals and end sleeves 0,5 - 6 mm
- Stripper 8 - 13 mm²
- Cable cutters VDE 170 mm
- Electrical insulating tape VDE 15 mm x 10 m, Rainbow pack, 263820, 10 coulors
- Voltage tester Profi plus
- HAUPA Multi Check digital high-capacity multimeter

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220307	33	220023	15,000	1

Tool case Panther

ABS+

inside: 1 separation for documents, 2 plate for tools, 1 cover-plate with pocket compartments and clip-compartment. Case 220038.

Content:

- 2C electrician’s screwdrivers, 75, 100, 125, 150 mm
- 2C engineers’ screwdriver, 100 mm
- 2C cross slotted screwdrivers, PZ, size 1 and 2
- Control cabinet key
- Jointing chisel, 26 x 250 mm
- Electrician‘s chisel, 10 x 250 mm
- Cable stripping knife, plastic shank
- Universal saw, heavy 150 mm
- 2C combination pliers, 180 mm*
- 2C heavy duty side cutters, 180 mm*
- 2C telephone pliers, 200 mm*
- 2C wire stripping pliers, 160 mm
- Cabinet level, 250 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Bench hammer, 300 g
- Voltage tester Basic
- Voltage tester Basic black | 125 - 250 V

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220040	22	220038	7,460	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Tool case 2 component

ABS+

Hard-top case, for apprentices, black, 2 tool kits, one with document pocket, cover-plate with pocket compartments and clip-compartment, 18 tools.
Case 220038.

Content:
- 2C telephone pliers, straight, 200 mm*
- 2C combination pliers, 180 mm*
- 2C heavy duty side cutters, 180 mm*
- 2C wire stripping pliers, 160 mm
- 2C electrician's screwdrivers 2.5 x 75, 3 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C cross slotted screwdrivers, PH, size 1 and 2
- Cable knife, 1-pieces
- Wire stripper, hooked blade, 8 - 28 mm Ø
- PUK pocket saw, fixed handle
- Paint scraper, 40 mm
- Electricians' chisel, 10 x 250 mm
- Voltage tester Basic, black | 125 - 250 V
- Engineers' hammer, 300 g
- Measuring stick, 2 m

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220170	19	220038	7,000	1

Tool case HAUPA Compact

ABS+

Hard-top case, black, 2 tool kits (one with document pocket), bottom half of case equipped with variable partitions, case 220038.

Content:
- 2C electrician's screwdrivers, 2,5 x 75, 4 x 100, 4 x 125, 5 x 150 mm
- 2C cross slotted screwdrivers, PH, size 1 and 2
- Electronic screwdriver set, 7-pieces
- 2C combination pliers, 180 mm*
- 2C side cutters, 160 mm*
- 2C telephone pliers, 200 mm*
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable stripping knive, 4 - 16 mm Ø
- Automatic wire stripper, 0,2 - 6 mm²
- Cable cutter with a snap
- 2K Soft-Grip scissor, 140 mm
- PUK pocket saw, fixed handle
- HAUPA Bit box, 17-pieces
- SDS-plus set, 5-pieces
- Spirit level, 400 mm
- Measuring tape, 3 m
- Voltage tester Basic+

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220229	48	220038	7,700	1

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Hard-top tool cases

Network service case

ABS+

Hard-top case, black, for electricians and network technicians, 2 tool kits (one with document pocket), bottom half of case contains 8 small removable boxes, secured for transport purposes. Case 220038.

Content:

- 2C screwdriver PH 0, 1 + 2
- Enclosure spanner
- Precision wire stripper 0.25 – 0.8 mm²
- Universal shears 190 mm
- PUK saw with fixed handle
- 2C diagonal cutters 160 mm*
- 2C telephone pliers 200 mm*
- 2C telephone pliers 200 mm, bent 45°*
- Crimping pliers for coaxial connectors
- ESD electronics side cutter 115 mm
- Coaxial cable stripper
- Voltage tester Basic, black | 125 – 250 V
- Electronics screwdriver set, 7-piece
- Wire stripper for UTP/STP data cables
- Crimping pliers for western plugs
- Sensor application tool

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220141	22	220038	8,800	1

Tool case Basic

ABS+

Hard-top case, black, 2 tool kits (one with document pocket), bottom half of case equipped with variable partitions, 19 tools. Case 220038.

Content:

- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2-VDE cross slotted screwdrivers PH, size 1 and 2
- 2C combination pliers, 180 mm*
- 2C side cutters, 160 mm*
- 2C telephone pliers, straight, 200 mm*
- 2C wire stripping pliers, 160 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1-pieces
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Voltage tester 120 - 250 V, loose
- Measuring stick, 2 m
- Paint scraper, 40 mm
- Water brushes

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220153 ✸	20	220038	6,600	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller

Premium product

Tool case Basic VDE

ABS+

Hard-side case, black, 2 tool sections (one with document pocket), bottom half of case equipped with variable partitions, with high-grade fittings, 19 tools. Case 220038.

Content:

- 2C-VDE electrician's screwdrivers, 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C-VDE combinations pliers, 185 mm*
- 2C-VDE side cutters 165, mm*
- 2C-VDE telephone pliers, straight, 200 mm*
- 2C-VDE cable cutter 200 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1 blade
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Voltage tester 120 - 250 V, loose
- Measuring stick, 2 m
- Paint scraper, 40 mm
- Water brushes

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220244	20	220038	7,140	1

Tool case Inspektor

ABS+

rigid case, black, with high-grade fittings, Master's case with 25 tools. Case 220068.

Content:

- 2-component combination pliers 180 mm*
- 2-component power side cutter 180 mm*
- 2C telephone pliers 200 mm*
- 2C telephone pliers, angled 200 mm*
- 2C water pump pliers, insulated
- 2C wire strippers
- 2C electrician's screwdriver 75, 125, 150 mm
- 2C workshop screwdriver 100, 150 mm
- 2C cross-recess screwdriver size 1 + 2
- Reamer edged blade
- Voltage tester 120 – 250 V, loose
- Roll spanner 210 mm
- Painter's spatula 50 mm
- Electrician's chisel 10 x 250 mm
- Locksmith's hammer 300 g
- Cable knife, 1-piece
- PUK saw with adjustable handle
- Light metal spirit level 400 mm
- Hook blade 8 – 28 Ø
- Universal shears 190 mm
- Scale 2 m

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220176	26	220068	8,980	1

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Tool case Akkurat

ABS+

Master‘s case for radio and television, with 32 tools, rigid case. Case 220068.

Content:

- 2C combination pliers 160 mm*
- 2C diagonal cutters 160 mm*
- 2C telephone pliers 200 mm*
- 2C telephone pliers 200 mm curved*
- 2C wire strippers 160 mm
- ESD electronics side cutter 115 mm
- ESD electronics round nose pliers 130 mm
- ESD electronics flat nose pliers 130 mm
- ESD electronics flat nose pliers 130 mm 45°
- 2C electrician‘s screwdriver 2.5 x 75, 4 x 100, 4 x 125, 5 x 150
- 2C electrician‘s screwdriver 2.5 x 75 (blank)
- 2C workshop screwdriver 8 x 150 mm
- 2C screwdriver PH 1 + 2
- Flexible claw gripper size 525
- Electronic screwdriver set, 7-piece
- Voltage tester 120 – 250 V, loose
- Control mirror 210 mm
- 2-component round reamer
- 2C socket spanner SW 5, 5.5, 6
- Fitting/contact screwdriver
- Electronic solder Sn 60% 1 mm 100 g
- Contact file set 6 pcs.
- Insulated tweezers 130 mm pointed
- Insulated tweezers 145 mm wide
- 2K soft grip scissors 140 mm
- Universal scissors 190 mm

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220179	33	220068	8,180	1

Tool case Diamant

ABS+

Master‘s case for domestic appliances, with 23 tools, rigid case, black. Case 220068.

Content:

- 2-component long nose round nose pliers 160 mm
- 2C-Langbeck flat nose pliers 160 mm
- 2C telephone pliers 200 mm curved*
- 2C combination pliers 160 mm*
- 2C diagonal cutters 160 mm
- 2C Telephone pliers 200 mm*
- 2-component power side cutters 200 mm*
- 2C workshop screwdriver 6 x 100, 8 x 150 mm
- 2C screwdriver PH 1 + 2
- 2C electrician‘s screwdriver 4 x 100, 5 x 150 mm
- Wire stripper 0.5 – 4 mm²
- Electronics ESD side cutter 115 mm
- Voltage tester Basic, black | 125 – 250 V
- Crimping pliers for crimp cable lugs
- Socket spanner set 1/4‘, 33-piece
- PUK saw with fixed handle
- Locksmith‘s hammer 300 g
- Cable knife Plastic shells
- Universal scissors 190 mm
- Cable cutter max. 16.9 mm

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220192	24	220068	8,500	1

PU Packing unit

The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

The ideal tool assortment

ABS+

rigid case for electromaster, with 32 tools. Case 220068.

Content:

- 2–component combination pliers 180 mm*
- 2C diagonal cutters 160 mm*
- 2C telephone pliers 160 mm*
- 2C telephone pliers 200 mm curved*
- 2C insulated water pump pliers
- ESD electronics side cutter 115 mm
- ESD electronics flat nose pliers 130 mm
- 2C electrician's screwdriver 2.5 x 75, 4 x 125, 5 x 150 mm
- 2C workshop screwdriver 6 x 100, 8 x 150 mm
- 2C screwdriver PH 0, 1 + 2
- 2C socket spanner SW 7, 8, 10
- 2–component square–headed awl
- Wire stripper 0.5 – 4 mm²
- Rigid claw gripper size 165
- Electronic solder Sn 60% 1.5 mm 100 g
- Voltage tester Basic, black | 125 – 250 V
- Electronic screwdriver set 7–piece
- Socket spanner set 1/4' 33–piece
- Cable knife Plastic trays
- Control mirror 210 mm
- Contact soldering iron 30 watts
- Locksmith's hammer 300 g
- Universal shears 190 mm
- Uni–saw, heavy 150 mm
- Tweezers, curved 115 mm

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220177 ✷	33	220068	10,260	1

Tool case OmegaMax Start VDE

ABS+

rigid case, black, 28 compartments, 1 combination lock, 1 separation for documents, 2 plate for tools, 2 lockable locks, ground bowl with variables to dividing bars, framed push border. Case 220042.

Content:

- 2C-VDE electrician's screwdrivers 2.5 x 75, 4 x 100, 5.5 x 125 und 6.5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C combination pliers, 185 mm*
- 2C side cutters, 165 mm*
- 2C telephone pliers, 200 mm*
- 2C wire stripping pliers, 160 mm
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Cable knife, 1 blade
- Engineers' hammer, 300 g
- PUK pocket saw, fixed handle
- Electricians' chisel, 10 x 250 mm
- Paint scraper, 40 mm
- Voltage tester 120 - 250 V, loose
- Measuring tape, 3 m
- Water brush

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220043	20	220042	11,000	1

Hard-top tool cases

Tool case trolley OmegaMax Trolley Start VDE

ABS+

rigid case, black, 28 compartments, 1 combination lock, 1 separation for documents, 2 plate for tools, 2 lockable locks, ground bowl with variables to dividing bars, framed push border. Tool case 220048.

Content:
- 2C VDE electrician's screwdriver 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C VDE Phillips screwdriver PH, size 1 + 2
- 2C combination pliers 180 mm*
- 2C diagonal cutters 160 mm*
- 2C telephone pliers 200 mm, straight*
- 2C wire strippers 160 mm
- Bench cutter with hook blade, Ø 8 – 28 mm
- PUK pocket saw with fixed handle
- Electrician's chisel 10 x 250 mm
- Voltage tester 120 – 250 V, loose
- Locksmith's hammer 300 g
- Measuring tape 3 m
- Painter's spatula 40 mm
- Cable knife, 1–piece
- Water brush

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220137	20	220048	11,500	1

Hard-top tool cases 1000 V

Tool case Profi VDE 1000 V

ABS

Hard-top case, black, 2 tool kits, document pocket with hook-and-loop fixing, combination lock, bottom half of case equipped with variable partitions, shoulder strap, 35 tools, case 220031.

Content:
- VDE long chain nose pliers, straight, 200 mm*
- VDE combination pliers 185 mm*
- VDE heavy duty side cutters 200 mm*
- VDE wire stripping pliers 160 mm*
- VDE cable cutter, max. 15 mm
- Cable knives, 1000 V, 50 mm
- Finger gloves, size 9
- 2C-VDE electrician's screwdrivers 2,5 x 75, 3 x 100, 6,5 x 150, 8 x 175 mm
- 2C-VDE socket wrenches, size 5,5, 7, 8, 10
- 2C-VDE cross slotted screwdrivers, PH 1 + 2
- NH-safety fuse grip
- Rubber towels, 1000 x 1000 x 1,6 mm
- Plastic clips, 160 mm
- Slip on bushes, No. 1, 2, 3 (each 5 x)
- Self adhesive PVC tape, red, 10 m
- Heat protection gloves
- Safety glasses

* Double immersion insulated pliers

Art. no.	set	empty	kg	PU
220232	27	220031	12,920	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Service trolley for hybrid vehicles 1000 V

ABS

Hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, case 220023.

Content:

- 2C VDE electrician's screwdriver 2.5x75, 3x100, 3.5x100, 4x100 mm
- 2C VDE screwdriver PH 1, 2, 3
- 2C VDE screwdriver S–Tx 20, 25, 30
- VDE hexagon socket 3/8' SW 8, 9, 10, 12, 13, 14, 17, 19, 22
- VDE extension 3/8' 250 mm
- VDE reversible ratchet 3/8'
- VDE water pump pliers 240 mm
- VDE cable cutter 230 mm
- VDE diagonal cutters 205 mm*
- VDE diagonal cutters 165 mm*
- VDE flat nose pliers 160 mm
- VDE snipe nose pliers curved 200 mm*
- VDE combination pliers 205 mm*
- VDE cable cutter straight blade 50 mm
- Safety pack with bag incl. mat
- Self–clamping grommets 20 mm
- Self–clamping grommets 10 mm
- VDE insert 3/8', M8, M10, M12 (xzn)
- Barrier tape red/white 500 m
- DANGEROUS VOLTAGE sign
- DO NOT SWITCH sign
- CAUTION sign CAUTION AGAINST ASULABLE BATTERIES

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220171	40	220023	19,800	1

Service trolley HUPeMobility eco

ABS

Hard case, black, combination lock, 1 document compartment, 2 lockable locks, 2 tool boards, base tray with variable dividers, all-round bumper strip, high-quality fittings. Case 220023.

Content:

- Tool trolley Start-up Profi, empty | art. 220023**
- VDE electrician's screwdriver 2.5 x 0.4 x 75 mm | 3 x 0.5 x 100 mm | 3.5 x 0.6 x 100 mm | 4 x 0.8 x 100 mm
- VDE-screwdriver PH 1, PH 2, PH 3
- VDE-screwdriver Tx 20, Tx 25, Tx 30
- VDE-hexagonal bit 3/8" WS 8, 10, 12, 13, 14, 17, 19, 22 eco 80 mm
- VDE-insert 3/8" XZN M8, M10, M12 eco
- VDE-extension 3/8" 250 mm eco
- VDE-reversible ratchet 3/8" eco
- VDE-pliers wrench 280 mm
- VDE-cable cutter 230 mm
- VDE-wire cutter 160 mm*
- VDE-pantograph pliers curved 200 mm*
- VDE-universal pliers 200 mm*
- VDE-cable knife straight blade
- VDE-finger gloves 1000 V Gr. 10
- Electrician's helmet acc. to DIN EN 50365 1000 V
- VDE-visor acc. to EN 166 1000 V
- VDE-safety handle
- Safety bag
- VDE-insulation mat 17000 V
- Self-clamping sleeves 10, 20 mm
- Cordon 80 mm, 500 m
- Plastic sign round 200 mm DO NOT SWITCH
- Plastic sign 200 mm DANGEROUS VOLTAGE
- Plastic sign 200 mmBE CAREFUL OF LEAKING BATTERIES

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220327	38	220023	19,000	1

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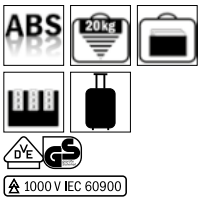
Tool case trolley Secure Mobil 1000 V

ABS

Hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 2 locks, case art. 220023.

Content:
- 2C-VDE electricians' screwdrivers 2,5 x 75, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- Voltage tester Profi plus 12-1,000 V
- Single ended spanner 1000 V 10, 12, 13, 19, 22, 24
- Finger gloves 1000 V, size 9
- Safety fuse grips
- Flat nose pliers 1000 V
- Slip on bushes 1000 V no. 1,2, 3 (each 5x)
- VDE cable knife, 50 mm
- VDE combination pliers 185 mm
- VDE diagonal cutter 165 mm
- VDE long chain nose pliers 200 mm
- Tool case 1000 V, drive 3/8"
- Electrical insulating tape, red (6x)

* perfected cutting force performance



Art. no.	set	empty	kg	PU
220272	29	220023	14,700	1

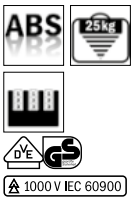
Tool case Delux Plus 1000 V

ABS+

rigid case, signal-red, with high-grade fittings, case 220076.

Content:
- 2C-VDE electrician's screwdriver 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C-VDE cross slotted screwdriver PH, size 1 + 2
- VDE telephone pliers, straight, 200 mm*
- VDE telephone pliers, bent, 200 mm*
- VDE combination pliers 185 mm*
- VDE side cutters 165 mm*
- VDE wire stripping pliers 160 mm*
- Socket wrenches 5.5, 7, 8, 10 mm
- Voltage tester Profi
- Hexagon sockets 10, 11, 12, 13, 14, 15, 16
- Reversible ratchet 1/2"
- T-sliding handle 1/2"
- Open end spanners 10, 12, 13, 19, 22, 24
- Cable knife
- Cable scissors 200 mm
- Slip-on bushes 5-pieces No. 1, 10 mm
- Slip-on bushes 5-pieces No. 2, 10 mm
- Slip-on bushes 5-pieces No. 3, 10 mm
- Plastic pliers 180 mm*
- Plastic clamp
- Covering tape, grey
- Covering tape, red
- Safety grip
- Gloves size 9

* Double immersion insulated pliers



Art. no.	set	empty	kg	PU
220239 ✸	43	220076	11,780	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Bestseller Premium product

Tool case Leopard 1000 V

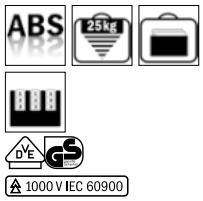
ABS+

Hard-shell case, signal red, 2 tool boards, one with document pocket, base tray with variable dividers, high-quality fittings, complete with 32 safety tools. Case 220076.

Content:

- 2C-VDE electrician's screwdrivers
  2,5 x 75, 4 x 100, 6,5 x 150, 8,0 x 175, 10,0 x 200 mm
- 2C-VDE cross slotted screwdrivers PH, size 1 + 2
- 2C-VDE cross slotted screwdrivers PZ, size 1 + 2
- Retaining screwdrivers 100, 125 mm
- Retaining screwdriver, cross-slotted
- Right angle allen keys, 6, 8 mm
- VDE round nose pliers, 160 mm*
- VDE telephone pliers, straight, 200 mm*
- VDE telephone pliers, bent, 200 mm*
- VDE combination pliers 185 mm*
- VDE wire stripping pliers 160 mm*
- VDE side cutter, 165 mm*
- Socket wrenches 5,5, 6, 7, 8 mm
- Voltage Tester Profi
- Cable knife, insulated
- Cable knife
- Cable scissor
- Plastic pliers 180 mm*
- Covering tape, red 10 m
- NH-safe

* Double immersion insulated pliers



Art. no.	set	empty	kg	PU
220136	34	220076	9,400	1

Tool case Power Pack 1000 V

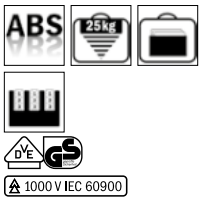
ABS+

rigid case, signal red, with alu frame and 2 locks, 3 plates with many compartements for tools, case 220076 (460 x 180 x 310 mm).

Content:

- 2C VDE electrician's screwdriver 2.5 x 75, 4 x 100, 5.5 x 125, 6.5 x 150 mm
- 2C VDE Phillips screwdriver PH, size 1 + 2
- 2C VDE PZ/FL screwdriver, size 1 + 2
- 2C VDE combination pliers 185 mm*
- 2C VDE diagonal cutters 165 mm*
- 2C VDE telephone pliers 200 mm*
- 2C VDE cable cutter 200 mm
- 2C VDE water pump pliers 240 mm
- VDE cable cutter straight blade 50 mm
- Automatic VDE wire stripper 0.2 – 6 mm²
- Voltage tester TestPen 12 – 1000 V
- Voltage tester Profi 12 – 690 V
- Finger gloves size 9, 1000 V
- Ear plugs
- NH safety handle
- PRO safety glasses

* perfected cutting force performance



Art. no.	set	empty	kg	PU
220303	17	220076	8,680	1

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Tool case Venus Plus 1000 V

ABSfly

Hard case, signal red, complete with 32 safety tools. Case 220032.

Content:
- Electrician's screwdrivers 75, 100, 150, 175, 200 mm
- Cross slotted screwdriver, PH size 1 + 2
- Cross slotted screwdriver, PZ No. 1 + 2
- VDE round nose pliers 160 mm*
- VDE telephone pliers, straight, 200 mm*
- VDE telephone pliers, bent, 200 mm*
- VDE combination pliers 185 mm*
- VDE side cutter 165 mm*
- VDE wire stripping pliers 160 mm*
- Retaining screwdrivers 100, 125 mm
- Retaining screwdriver cross-slotted
- Right angle allen keys, 6, 8 mm
- 2C-VDE socket wrenches 5,5, 6, 7, 8 mm
- Voltage tester Profi
- Cable knife, insulated
- Cable knife
- Cable scissor
- Plastic pliers 180 mm*
- Self adhesive PVC tape, red, 10 m
- NH-Safety grip
- Finger gloves, size 9

* Double immersion insulated pliers

Art. no.	set	empty	kg	PU
220033	32	220032	10,160	1

Tool case Start-up Sanitär

ABS

hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 24 tools, case 220031.

Content:
- Side cutters VDE, 160 mm*
- 2C-VDE telephone pliers, 200 mm*
- Water pump pliers, 240 mm
- 2C-VDE electrician's screwdrivers 2,5 x 75, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross slotted screwdrivers PH 1 + 2
- Hexagon angle screwdriver set, with spherical head, 9 pcs., wrench size 1,5 – 10
- Express-Key M10
- Pipe wrenches, 430 mm, pipe 1 1/2", wrench size 59 mm
- Tube cutter, Ø 3 – 35 mm
- PUK pocket saw DIN 6473 C
- Electricians' chisel, 12 x 250 mm
- Engineers' hammer
- Paint scraper, 185 x 40 mm
- Plaster cup, Ø 125
- Water brush
- Wire brush, 300 mm
- Folding rules, wood, 2 m
- Cabinet level, 200 mm
- Carpenters' pencil, 150 mm

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220263	24	220031	9,300	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

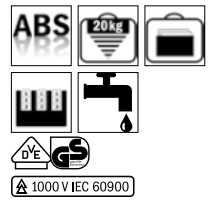
Tool case Start-up SHK

ABS

Hard case, black, 2 tool boards, combination lock, document pocket, base tray with variable dividers, shoulder strap, equipped with 57 tools. Case 220031.

Content:
- 2K-VDE Power side cutter, 200 mm*
- 2K-VDE Storkbill pliers, 200 mm*
- Water pump pliers, 240 mm
- Pipe wrench, 430 mm, pipe 1 1/2', SW 59 mm
- Express spanner M10
- HUPkey switch cabinet spanner with reversible bit
- 2K-VDE electrician's screwdriver, slotted 3.5 x 100, 5.5 x 125 mm
- 2K-VDE Phillips screwdriver PH 1 + 2
- Screwdriver Tx 15, 20, 25
- Socket spanner set 1/4', 33 pieces
- Double open-end spanner DIN 3110, SW 10 – 11
- Double open-end spanner DIN 3110, SW 12 – 13
- Metal cutter knife
- Hexagon offset screwdriver set with ball head, 9-piece SW 1.5 – 10
- Voltage tester 120 – 250 V, loose
- Locksmith's hammer DIN 1041
- Octagonal stone chisel, 28 x 250 mm
- Light metal spirit levels, 400 mm
- Pipe cutter, Ø 3 – 35 mm
- Small pipe cutter, Ø 3 - 16 mm

* perfected cutting force performance



Art. no.	set	empty	kg	PU
220264	57	220031	14,700	1

Tool trolley HUPtransporter Pro

PPsafe

Roomy and organised – the HAUPA tool trolley HUPtransporter Pro provides a lot of space for tools

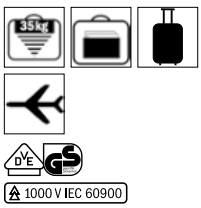
PREMIUM

NEW

Extremely sturdy case: polypropylene (PP) housing, with gas pressure springs, fit for flight: automatic air pressure release valve, stackable, dust-proof, protected against water splashes, temperature stable from -30°C to +80°C, ergonomic two-component handle, eyelets for padlock, aluminium divider system, foam insert optional, colour: black, with owner label, tool trolley HUPtransporter 220820

Content:
- Safety goggles • Wire stripper 0.2 – 6 mm²
- Uni wire stripper 0.2 – 4 mm² • Crimping pliers 0.75 – 16 mm
- Crimping pliers wire end ferrules 0.5 – 16 mm
- Crimping pliers insulated cable lugs 0.5 – 6 mm²
- VDE all-round soft grip scissors 160 mm, 70 mm²
- VDE crimping pliers, curved 200 mm*
- VDE cable cutters 160 mm*
- VDE diagonal cutters 160 mm
- VDE combination pliers 180 mm*
- VDE water pump pliers 240 mm
- VDE diagonal cutters 200 mm
- VDE pliers spanner 280 mm
- VDE cable cutter Hook blade 50 mm
- Switch cabinet spanner
- Cutter blades HUPblackSeries18
- Cutter blades HUPblades18
- Wire cutter with hook blade 8 – 28 mm²
- One-hand cable cutter max. Ø 34 mm
- Deep-hole marker, 2 in 1, black, with sharpener
- Electronic ESD side cutter without blade 115 mm
- Hexagon head offset screwdriver set with ball head, 9 pcs, 1.5 – 10 mm, extra long
- VDE screwdriver **HUPslim** PZ/FL 1 + 2 | PZ 1 + 2 | PH 1 + 2
- VDE electrician's screwdriver **HUPslim** 3.5 x 0.6 x 100, 4 x 0.8 x 100 mm, 4 x 1 x 100 mm, 5.5 x 1 x 125 mm, 6.5 x 1.2 x 150 mm
- Electrician's chisel 10 x 250 mm
- Flat oval stone chisel 32 x 300 mm
- Ratchet ring spanner 4 in 1, 8 x 10 + 12 x 13 mm
- Ratchet ring spanner 4 in 1, 10 x 13 + 17 x 19 mm
- Enclosure spirit level 200 mm
- Light metal spirit level 400 mm
- Measuring tape 5 m • Scale 1 m
- LED torch Pen Torch
- Locksmith's hammer 500 g
- Puk saw with fixed handle
- Voltage tester Profi LED Plus 12 – 1,000 V
- FlexBagPro ratchet screwdriver set
- PU cut protection glove level 3, grey, size 10

* perfected cutting force performance



Art. no.	set	empty	kg	PU
220821	48	220820	10,940	1

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Tool trolley

Tool trolley HUPtransporter StandardPlus

PPsafe

Roomy and organised – the HAUPA tool trolley HUPtransporter StandardPlus provides a lot of space for tools

PREMIUM NEW

Extremely sturdy case: polypropylene (PP) housing, with gas pressure springs, fit for flight: automatic air pressure release valve, stackable, dust-proof, protected against water splashes, temperature stable from -30°C to +80°C, ergonomic two-component handle, eyelets for padlock, aluminium divider system, foam insert optional, colour: black, with owner label, tool trolley HUPtransporter 220820

Content:

- Basic wire stripper 0.5 – 6 mm²
- Uni wire stripper 0.2 – 4 mm²
- Crimping pliers 0.75 – 16 mm
- Crimping pliers wire end ferrules 0.5 – 16 mm
- Crimping pliers insulated cable lugs 0.5 – 6 mm²
- VDE all-round soft grip scissors 160 mm, 70 mm²
- VDE crimping pliers, curved 200 mm*
- VDE cable cutters 160 mm
- VDE diagonal cutters 160 mm*
- VDE power side cutters 200 mm*
- VDE pliers spanner 280 mm
- VDE cable cutter straight blade
- Switch cabinet spanner
- Cutter blades HUPblackSeries18
- Cutter blades HUPblades18
- Stripper with hook blade 8 – 28 mm²
- Basic stripper 4 – 13 mm
- Deep-hole marker, 2 in 1, black, with sharpener
- Electronic ESD diagonal cutters without blade 115 mm
- Hexagonal offset screwdriver set with ball end, 9-piece | 1.5 – 10 mm, extra long
- VDE screwdriver **HUPslim*** PZ/FL 1 + 2 | PZ 1 + 2 | PH 1 + 2
- VDE electrician's screwdriver **HUPslim*** 3.5 x 0.6 x 100, 4 x 0.8 x 100 mm, 4 x 1 x 100 mm, 5.5 x 1 x 125 mm, 6.5 x 1.2 x 150 mm
- Electrician's chisel 10 x 250 mm
- Flat oval stone chisel 32 x 300 mm
- Switch cabinet spirit level 200 mm
- Light metal spirit level 400 mm
- Measuring tape 5 m
- Scale 1 m
- LED torch Pen Torch
- Locksmith's hammer 500 g
- Puk saw with fixed handle
- Voltage tester Profi LED Plus 12 – 1,000 V
- FlexBag ratchet screwdriver set
- PU cut protection glove level 3, grey, size 10

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220822	43	220820	10,900	1

Laser marking

Laser marking for your individual tool case

Show your profile - give your tool case your name.
Logo and name in an elegant laser design on an aluminium plate.

You decide where to place it.

Art. no.	kg	PU
220193	0,002	1

Assortment boxes

Assortment boxes with metal catch and pick boxes

black plastic, including pick boxes

Content:

6	Boxes (S)	49 x 49 x 72 mm
11	Boxes (M)	49 x 98 x 72 mm
2	Boxes (L)	98 x 98 x 72 mm
2	Boxes (XL)	98 x 148 x 72 mm

Art. no.	width	height	depth	kg	PU
221131 *	415	90	335	1,630	1
221133	415	90	335	1,200	1

ABS	ABS hard shell
20kg	Maximum case payload 20 kg
25kg	Maximum case payload 25 kg
40kg	Maximum case payload 40 kg
	With document compartment
	With number lock
	Flight-suitable
TSA	TSA lock

≤50% MAX *High leverage = with lever transmission (pliers with leverage ratio offer up to 50% power saving)

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

SysCon – Systemcontainer

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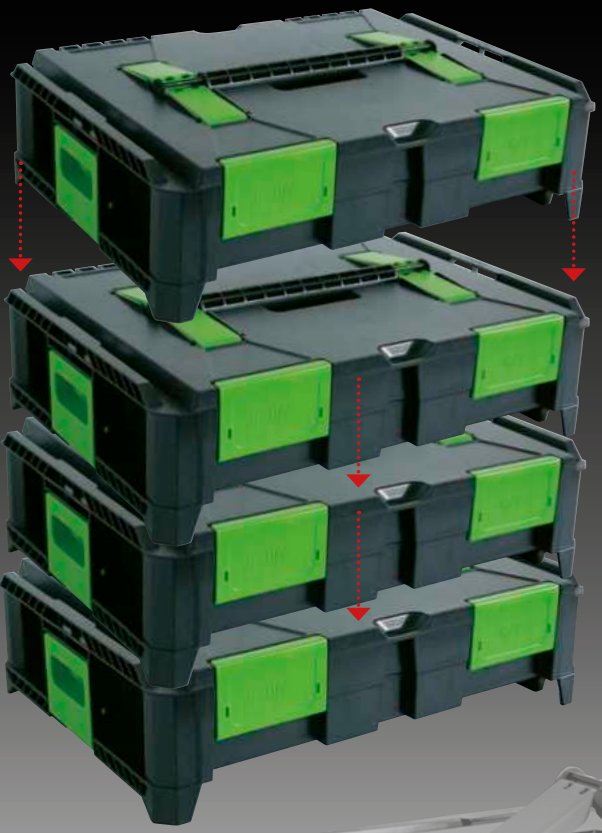


Video SysCon

HAUPA SysCon Produkt-Profil:

Die Grundidee der System-Container ist, dass die einzelnen Container miteinander verbunden werden können, um einen leichten Transport zu gewährleisten, wobei der unkomplizierte Zugriff auf den Inhalt aller Container sichergestellt ist. Die Container können leer oder bestückt angeboten werden. Die Bestückung sollte Sortimente mit Verbindungsmaterial, Befestigungsmaterial sowie Werkzeug umfassen.

Ferner sollen die System-Container als Transportmittel für HAUPA Akku-Hydrauliken dienen, da das Stapelkonzept die Möglichkeit bietet, das hydraulische Presswerkzeug mit den entsprechenden Kabelschuhen als System-Einheit zu organisieren.

Mittels vier konischer Füße wird der oberste Container automatisch in die richtige Position auf den unteren Container gelenkt. Die Verbindung der Container entsteht ohne Kraftaufwand bei der einfachen Platzierung aufeinander. Durch die seitlichen Schnappverschlüsse sind die Container ebenso unkompliziert zu trennen. Die Verschlüsse werden leicht nach außen gezogen, wodurch das Anheben möglich wird.

Bei der Stapelung kann der Containergriff aus- oder eingeklappt sein.

Das Design der Container stellt sicher, dass kein Wasser in den Container gelangt.

Qualitätsprofil:

Um maximale Stabilität zu gewährleisten, werden die Container aus ABS hergestellt. ABS hält sowohl hohen als auch niedrigen Temperaturen stand, ohne sich zu verformen oder zu brechen.

Die Härte-Tests unter verschiedensten Bedingungen:

Fall-Tests mit leeren und bestückten Containern, Stress-Tests, Sprung-Tests sowie Zug-Tests beweisen die Robustheit der Container und der Komponenten wie Griffe, Schließklappen, Schnappverschlüsse etc.

Zielgruppe:

Aufgrund der hohen Qualität und der enormen Robustheit ist der Anwender im professionellen Markt angesiedelt: Handwerk - Industrie - Laboratorien, etc.

Test-Simulation	Temperatur	Fallhöhe	Erklärung / Beobachtung
Falltest (leer)	+20° - 10°C	0,5 m	keine Beschädigung des Produkts
		1,0 m	keine Beschädigung des Produkts
		1,5 m	keine Beschädigung des Produkts
		2,0 m	keine Beschädigung, aber Schnappverschlüsse und Schließklappen springen auf
		2,5 m	kleine Bruchstelle an der Decke des inneren Gehäuses, wo der Deckel auf der Unterseite schließt

Test-Simulation	Temperatur	Fallhöhe	Erklärung / Beobachtung
ultimativer Stresstest (Box geschlossen)	+20° - 10°C	2,0 m	keine Beschädigung des Produkts

Test-Simulation	Temperatur	Fallhöhe	Erklärung / Beobachtung
Falltest (Inhalt 5 kg)	+20° - 10°C	0,5 m	keine Beschädigung des Produkts
		1,0 m	keine Bruchstellen
		1,5 m	keine Beschädigung, aber Schnappverschlüsse und Schließklappen springen auf
		2,0 m	keine Beschädigung, aber Schnappverschlüsse und Schließklappen springen auf

Test-Simulation	Temperatur	Sprunghöhe	Erklärung / Beobachtung
Sprungtest (90 kg)	+20° - 10°C	0,3 m	Es ist nicht möglich, das Produkt durch diesen Test zu zerstören.

Test-Simulation	Temperatur	Inhalt	Erklärung / Beobachtung
Griff	+20° - 10°C	60 kg	keine Beschädigung des Griffs
		70 kg	keine Beschädigung, aber Schnappverschlüsse und Schließklappen springen auf

Test-Simulation	Temperatur	Inhalt	Erklärung / Beobachtung
Schnappverschlüsse und Schließklappen	+20° - 10°C	60 kg	keine Beschädigung der Schnappverschlüsse keine Beschädigung der Schließklappen
		70 kg	keine Beschädigung, aber Schnappverschlüsse und Schließklappen springen auf

ABS plastic box SysCon S

SysCon

outer dimensions: 464 x 335 x 142 mm
inner dimensions: 400 x 300 x 80 mm

without inlay

Art. no.	width	height	depth	kg	PU
220370	400	80	300	2,200	1

ABS plastic box SysCon M

SysCon

outer dimensions: 464 x 335 x 212 mm
inner dimensions: 400 x 300 x 150 mm

without inlay

Art. no.	width	height	depth	kg	PU
220372	400	150	300	3,340	1

ABS plastic box SysCon XL

SysCon

outer dimensions: 464 x 335 x 362 mm
inner dimensions: 400 x 300 x 312 mm

without inlay

Art. no.	width	height	depth	kg	PU
220650	400	312	300	2,800	1

SysCon transport system

SysCon

for simple and flexible transportation of HAUPA ABS SysCon plastic boxes

- SysCon lockable thanks to lateral snap latches on the transport system
- Metal plate with 4 castors, 2 lockable
- Max. load: 200 kg

Art. no.	width	height	depth	kg	PU
220653	470	240	105	3,300	1

SysCon for assortment inserts empty

SysCon

Content:

1	220370	ABS plastic box SysCon S
2	220376	Foam insert SysCon 395 x 300 x 15 mm
24	221135	Box M

Art. no.	width	height	depth	kg	PU
220620	400	80	300	3,440	1

SysCon for assortment inserts, empty

SysCon

Content:

1	220370	ABS plastic box SysCon S
2	220376	Foam insert SysCon 395 x 300 x 15 mm
14	221135	Box M
2	221136	Box L
2	221137	Box XL

Art. no.	width	height	depth	kg	PU
220628	400	80	300	4,300	1

SysCon M tool box empty

SysCon

Content:

1	220372	ABS plastic box SysCon M
1	220399	Foam insert SysCon 300 x 395 x 10 mm
1	220374	Tools insert SysCon
1	220379	Tool plate SysCon 11 compartments

Art. no.	width	height	depth	kg	PU
220622	400	150	300	3,640	1

SysCon M for assortment inserts empty

SysCon

Content:

1	220372	ABS plastic box SysCon M
1	220374/S	Assortment insert SysCon with foam
1	220399	Foam SysCon 395 x 300 x 10 mm
14	221135	Box M
2	221136	Box L
2	221137	Box XL

Art. no.	width	height	depth	kg	PU
220770	400	150	300	4,300	1

SysCon S tool box for inserts, empty

SysCon

Content:

1	220370	ABS plastic box SysCon S
2	220377	Foam insert SysCon 395 x 300 x 20 mm
1	220406	Tools insert SysCon

Art. no.	width	height	depth	kg	PU
220626	400	80	300	4,300	1

ABS plastic box SysCon XL variable

SysCon

outer dimensions: 464 x 335 x 362 mm
inner dimensions: 400 x 300 x 312 mm
incl. tool plate and adjustable inner divider

Art. no.	width	height	depth	kg	PU
220654	464	362	335	3,640	1

Tool plate

SysCon

adjustable inner divider, with 10 tool straps, suitable for Art. 220654
dimensions: 275 x 285 mm

Art. no.	width	height	kg	PU
220655	275	285	0,200	1

Tool plate SysCon

SysCon

11 compartments, for mounting in SysCon cover

Art. no.	width	height	depth	kg	PU
220379	400	20	300	0,200	1

Tools insert SysCon

SysCon

Polypropylen, 5 compartments

Art. no.	width	height	depth	kg	PU
220374	400	80	300	0,200	1

Tools insert SysCon

SysCon

Polypropylen, 10 compartments

Art. no.	width	height	depth	kg	PU
220375	400	80	300	0,200	1

Tools insert SysCon

SysCon

Polypropylen, 18 compartments

Art. no.	width	height	depth	kg	PU
220355	400	80	300	0,230	1

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Tools insert SysCon

SysCon

Polypropylen, with 12 adjustable compartments

Art. no.	width	height	depth	kg	PU
220356	400	80	300	0,320	1

Box S

SysCon

ABS, conical design for stacking with snap on base plate

Art. no.	width	height	depth	kg	PU
221134	49	72	49	0,012	1

Box M

SysCon

ABS, conical design for stacking with snap on base plate

Art. no.	width	height	depth	kg	PU
221135	98	72	49	0,012	1

Box L

SysCon

ABS, conical design for stacking with snap on base plate

Art. no.	width	height	depth	kg	PU
221136	98	72	98	0,050	1

Box XL

SysCon

ABS, conical design for stacking with snap on base plate

Art. no.	width	height	depth	kg	PU
221137	148	72	98	0,060	1

Baseplate for fixing

SysCon

Polypropylene, grids for even better non-slip grip

Art. no.	width	depth	kg	PU
221138	400	300	1,200	1

Foam insert SysCon

soft foam, 395 x 300 x 15 mm

Art. no.	width	height	depth	kg	PU
220376	395	15	300	0,030	1

Foam insert SysCon

soft foam, 395 x 300 x 10 mm

Art. no.	width	height	depth	kg	PU
220399	395	10	300	0,020	1

Foam insert SysCon

rigid foam, 395 x 300 x 20 mm

Art. no.	width	height	depth	kg	PU
220377	395	20	300	0,055	1

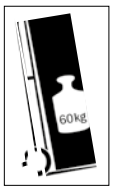
Foam insert SysCon

rigid foam, 395 x 300 x 65 mm

Art. no.	width	height	depth	kg	PU
220378	395	65	300	0,200	1

SysCon hand truck

Properties:
- up to 60 kg
- sturdy aluminum frame
- Hand truck shovel: 390 x 280 mm



Art. no.	Drum/kg	kg	PU
220602	60	3,230	1

SysCon load securing SysConCar

Properties:
- 21 slots (rear side)
- 3 round holes each side, left and right
- 5 round holes in floor plate

Volume for contents:
max. 5 ABS boxes SysCon M
max. 8 ABS boxes SysCon S

Art. no.	width	height	depth	kg	PU
220644	475	1080	360	5,000	1

SysCon tool case set

Content: 20 tools

1	220372	ABS plastic box SysCon M
1	220374	Tools insert SysCon
1	220399	Foam SysCon 400 x 300 x 10 mm
1	220379	Tool plate SysCon 11 compartments

210696	Spanner for switch-cabinets
210695	Automatic wire stripper 0,2 – 6 mm²
263842	VDE electrical tape 19 mm x 20 mm, black
263844	VDE electrical tape 19 mm x 20 mm, white
263860	VDE electrical tape 19 mm x 20 mm, green/yellow
200031	Cable stripping knive 8 – 28 mm²
211200	2C-VDE combination plier DIN 5244, 185 mm
211204	2C-VDE side cutter DIN 5238 B, 165 mm
211208	2C-VDE telephone plier DIN 5236 A, 200 mm, straight
101870	2C-VDE screwdriver PZ/FL 1
101872	2C-VDE screwdriver PZ/FL 2
181910	2C-VDE screwdriver 2,5 x 75 mm
101914	2C-VDE screwdriver 3,5 x 100 mm
101916	2C-VDE screwdriver 4,0 x 100 mm
101920	2C-VDE screwdriver 6,5 x 150 mm
101942	2C-VDE screwdriver PH1
101944	2C-VDE screwdriver PH2

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220392	21	220372	4,300	1

SysCon tool case set Start VDE

Content: 22 tools

1	220372	ABS plastic box SysCon M
1	220374	Tools insert SysCon
1	220399	Foam SysCon 400 x 300 x 10 mm
1	220379	Tool plate SysCon 11 compartments

240042	Aluminium spirit levels 400 mm
180184	Engineers‘ hammer 300 g
210695	Wire stripper Super Plus 0,2 – 6 mm²
200043	Universal stripper 0,2 – 4 mm²
211200	2C-VDE combination pliers DIN 5244, 185 mm
211217	2C-VDE heavy duty side cutters DIN 5238 A, 170 mm
211208	2C-VDE telephone pliers DIN 5236 A, 200 mm, straight
101999	2C-VDE screwdrivers set
101870	2C-VDE screwdriver with PZ slot profile PZ/FL 1
101872	2C-VDE screwdriver with PZ slot profile PZ/FL 2
180092	Electricians’ chisels 10 x 250 mm
100647	Voltage tester VDE/GS
150090	Carpenters‘ pencil
150024	Paint scrapers 40 mm
150004	Water brushes
240002	Folding rules 2 m
150006	Plaster cup

* perfected cutting force performance

Art. no.	set	empty	kg	PU
220608	22	220372	4,300	1

SysCon HUPeMobility

SysCon

Content: 52 pieces

NEW

- ABS-Box SysCon S
- ABS-Box SysCon M
- ABS-Box SysCon XL with divider
- Tool board SysCon 11 compartments
- Rolling board universal for SysCon
- Digital multimeter Multi Check III
- Voltage tester Profi LED Plus II 6 – 1000 V
- VDE-electrician's screwdriver **HUPslim** 3.5 x 0.6 x 100 mm | 4.0 x 0.8 x 100 mm | 5.5 x 1.0 x 125 mm | 6.5 x 1.2 x 150 mm
- VDE-screwdriver **HUPslim** PH 1 + 2
- VDE-universal pliers 180 mm*
- VDE-wire cutter 160 mm*
- VDE-pliers wrench 280 mm
- VDE-pantograph pliers straight*
- VDE-installation pliers
- VDE-finger gloves 1000 V Gr. 10
- Electrician's shield EN 166
- Self-clamping sleeves 10, 20, 30 mm
- Reversible ratchet 200 mm, 3/8"
- T-spanner wrench 200 mm, 3/8"
- Extensions 150 and 250 mm, 3/8"
- Socket wrench inserts 3/8" 8, 10, 12, 13, 14, 17, 19, 22 mm
- Inserts for socket screws 3/8" 4, 5, 6, 8 mm
- VDE-insert 3/8" eco, long WS 8, 10, 12, 13, 14, 17, 19 mm
- VDE-insert 3/8" XZN M8, M10, M12 eco
- Plastic sign round 200 mm DO NOT SWITCH | DANGEROUS VOLTAGE | CAREFUL BATTERIES

* perfected cutting force performance

≤50%

MAX

HUPslim

HUPeMobility

1000 V IEC 60900

VIDEO 220610

Art. no.	set	empty	kg	PU
220610	49	220650	19,500	1

HUPchemie

haupa®
... convincing solutions

Construction Glue HUPfix+

Application HUPFix+:
Gluing of metal, wood and synthetic materials in electrical sectors, building, furniture manufacture, container construction, metal work, machinery, air conditionioning, yacht/boat construction, body-work, vessel construction and construction of window and door frames. Suitable in applications where silicones can not be used. An adhesive with a grab and bond strength so good it can be classed as the ultimate performance adhesive. With HUPfix+ it is possible to glue heavy materials like cables, stone, wood, tiles and metals on ceilings and walls, where other common glues fail.

Characteristics:
The materials which needs to be glued, must be clean, free of oil and grease. Apply the HUPfix+ on one side, place the material to be glued together and press firm. Direct adhesion. Skinning time after 10 till 20 minutes. Curing 3 mm/24 hours. Shelf life: 12 months. Temperature resistance: -40 till +100°C (130°C short-term up to 2-3 hours). Application temperature: +5 till +40°C.

VIDEO 170206

Art. no.	ml	kg	PU
170206 ✸	310 m	0,530	1

MS-Polymer HUPfix

How to use HUPfix:
HUPfix is a high-quality adhesive and sealant with an MS polymer base. UV, weather, saltwater and chlorine resistant. Very good adhesion to many surfaces, in most cases, without primer. Hardens quickly. The join must be smoothed immediately after application using acid-free soapy water.

Properties:
Temperature resistant from -40 to +100°C. Processing temperature +5 to +40°C. HUPfix can be used both as adhesive and for grouting. Can be painted.

Art. no.	ml	Color	kg	PU
170216	310 m	transparent	0,390	1
170210	310 m	grey	0,390	1
170212	310 m	black	0,390	1
170214	310 m	white	0,390	1

HUPsilicon

How to use HUPsilicon:
For grouting indoors and outdoors, window glazing and sealing of joints in wood, plastic and aluminium windows. Corresponds to DIN 18545 Part 2. Very good adhesion on the majority of usual varnishes and paints.

Properties:
Permanently elastic. Aging, weather and UV resistant. Odour neutral. No early crack formation. Good adhesion on worktops. No surface stickiness.
Temperature resistant from -50°C to +150°C
Processing temperature +5°C to +40°C.
Skin formation time approximately 10-15 minutes (at 23°C).

Art. no.	ml	Color	kg	PU
170200	310 m	transparent	0,450	1
170202	310 m	white	0,450	1

High temperature silicon HUPsilicon

How to use HUPsilicon:
For sealing joints and surfaces in temperature-critical areas (extreme cold and heat). Can be used as coating for solid seals. For sealing drive axle covers, inlet systems, differential covers, gear, front and camshaft bearing covers, thermostat housings, oil pumps, oil tanks, spur-wheel covers, spotlights and street lighting, windscreens, water pumps etc. (not suitable for adherence to PP, PE, Teflon® and bitumen surfaces, or for parts constantly exposed to solvents)

Properties:
Sealing and adhesive mass with a silicone base. Heat stabilised, excellent resistance to UV and weather influences as well as to motor and gear oils, resistant to chemicals, mechanical and environmental influences, resistant to water, salt water, cold, heat, very high flexibility and good adherence on almost all surfaces.
Colour: Black
Skin formation time: 10 minutes
Temperature resistance: -40° to +260°

Art. no.	ml	Color	kg	PU
170250	310 m	black	0,450	1

Cartridge tip

for 310 ml cartridges

Art. no.	kg	PU
300116	0,003	12

Cartridge gun Profi

for 310 ml cartridges
- for processing silicone and polymer cartridges

Art. no.	kg	PU
170254	0,450	1

2 Component High-Performance-Adhesive HUPmega

How to use HUPmega:
Gluing of metal, stone, ceramics, wood and plastic.
Simple to use. Extremely high durability. HUPmega is mixed automatically. Within 4 minutes, combine the pieces and wait 24 hours to harden (approximately 75% of the final hardness will be achieve after 2 hours at room temperature).

Properties:
Temperature-resistant: -55°C to+120°C
Open time: approximately 5 minutes
Mechanical processing: After approximately 30 minutes
Final hardness: After 24 hours
Processing temperature: from +10°C to +30°C
Weather-resistant, good media resistance
Storage temperature +6°C to maximum +28°C

Art. no.	ml	kg	PU
170220	25 m	0,075	1

Mixing nozzle

- for 2-component adhesive

Art. no.	kg	PU
170234	0,009	1

2 Component-epoxyd glue HUPepoxyd

How to use HUPexpoxyd:
Gluing of metal, (hard) plastic, ceramics, glass, porcelain, stone, wood, concrete, rubber and much more. Ideal for gluing tasks with high visual requirements. Clean the surfaces to be glued, open the cap and screw the mixing nozzle into place. Dispose of the first 2 g since this will not be mixed 1:1. Then apply the glue and join the parts. Remove the mixing nozzle and dispose it. Replace the cap. Store open cartridges in a cool place and use as soon as possible (you can also work without the nozzle).

Properties:
Temperature resistant: -40°C to +80°C. Processing temperature: +10°C to +30°C. Final hardness: 24 hours.
Open time: approximately 5 minutes.

Art. no.	ml	kg	PU
170222	25 m	0,051	1

2 Component liquid metal HUPfastMetal

How to use HUPfastMetal:
Repair of cracks, drill holes, holes etc. Suitable for extremely strong adhesion of metal and metal alloys (steel, aluminium). Clean the surfaces to be glued, open the cap and screw the mixing nozzle into place. Dispose of the first 2 g since this will not be mixed 1:1. Then apply the glue and join the parts. Remove the mixing nozzle and dispose it. Replace the cap. Store open cartridges in a cool place and use as soon as possible (you can also work without the nozzle).

Properties:
Temperature resistant: -50°C to +120°C, Open time approximately 5 - 10 minutes. After approximately 30 minutes, you will be able to mechanically process the repaired location.

Art. no.	ml	kg	PU
170224	25 m	0,059	1

HUPsuperglue

How to use HUPsuperglue:
The surfaces must be clean and free of oil or grease.
Apply a thin layer of HUPsuperglue to one side and join the parts.

Art. no.	ml	kg	PU
170226 ✱	20 m	0,028	1

Fine droplet tip

- for superglue

Art. no.	kg	PU
170236	0,003	1

Double-Sided Acryl Tape HUPtapeDouble

How to use HUPtapeDouble:
Permanent and safe hold on almost all smooth surfaces such as metal, wood, glass, plastic, ceramics and rubber. Ideal for mounting brackets, signs, hooks, shelf elements, etc.
Not suitable for: PE, PP, PTFE (e.g. Teflon®), silicone, paper and vinyl wallpaper, non-load-carrying surfaces as well as surfaces with dirt-repelling coatings.

Properties:
HUPtapeDouble is an extremely strong, double-sided sticky tape. For durable adhesion, installation and securing both indoors and outdoors. Load up to a maximum of 1.3 kg.
Transparent. Surfaces are not damaged. Moisture resistant.
Used in dry, clean and well-aired areas with temperatures of +10°C to +30°C.

Art. no.	kg	PU
170232	0,053	1

Screw-Locking Medium-Strength HUPlockM

How to use HUPlockM:
For all screws with threads up to M36.
Extremely viscous, medium hard, can be removed.

Properties:
Hand-tight: 10 - 20 minutes
Functionally-tight: 1 - 3 hours
Temperature resistant: -55 to +150°C

Art. no.	ml	kg	PU
170238	50 m	0,083	1

Screw-Locking High-Strength HUPlockH

How to use HUPlockH:
For all screws with threads up to M20.
Medium viscosity, extremely durable, difficult to remove.

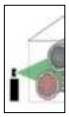
Properties:
Hand-tight: 10 - 20 minutes
Functionally-tight: 1 - 3 hours
Temperature resistant: -55 to +150°C

Art. no.	ml	kg	PU
170240	50 m	0,083	1

Anti-Friction-Coating HUPcable

Application HUPcable:
Spray the prepared cable. Wait for the propellant gas to evaporate (a few seconds) then pull in the cable.

Properties:
HUPcable simplifies pulling of cable into the protective hose.



Art. no.	ml	kg	PU
170174 ✷	400 m	0,360	1

Water-based lubricants and slip agents

This prevents 80% of friction and facilitates cable laying through excellent slippage in every situation. As soon as the water is evaporated, the main part of the lubricant remains and ensures that old cables can easily be pulled out and new ones inserted, for many years and at different temperatures.

Gel lubricant art. 143344: plastic bottle 500 ml
Gel lubricant art. 143345: plastic bottle 1.000 ml

Art. no.		kg	PU
143344	500 ml plastic bottle	0,572	1
143345	1,000 ml plastic bottle	1,100	1

Dispenser for plastic bottle

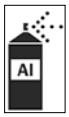
Art. no.	kg	PU
143346	0,016	1

haupa®
... convincing solutions

Aluminium-Spray HUPalu

Application HUPalu:
For servicing and maintaining the value of machine parts, for processing of machines, furnaces, heating and steam systems, pipes, exhaust systems, turbines, etc., as a container protection, coating for wheels, trucks bodies and much more.

Properties:
HUPalu pure aluminum spray 99.5%, heat resistant up to 900°C, anti-corrosive and high-temperature-resistant, scratch-, brushing and abrasion resistant, weather resistant.

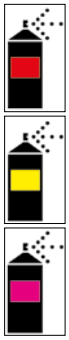


Art. no.	ml	kg	PU
170154	400 m	0,450	1

Marking Paint HUPmark

Application HUPmark:
The area to by sprayed must be dry, clean and grease-free. Bring the can up to room temperature. Before use and after each pause in spraying, shake well until the mixing ball moves freely. After use, spray out upside down.

Properties:
Marking spray for industrial, craft, construction and mining etc. For fast, clean and permanent marking of: Cement, wood, masonry, metal, asphalt, soil, plaster, glass, ceramics etc. For labelling and marking of: Pavements and roads, construction measures, breakthroughs, pipe and cable ducts, free from heavy metals, lead and cadmium, dries quickly and is friction and waterproof.



Art. no.	ml	Color	kg	PU
170140	500 m	red	0,600	1
170141	500 m	yellow	0,600	1
170142	500 m	pink	0,600	1

Zinc-Spray HUPzinc

Application HUPzincDark:
For rectification of hot-dip galvanized parts, subsequent protection after welding, to repair damaged surfaces, corrosion protection by galvanic effect, protective coating for pipes and metals, primer for subsequent coats. Forms a durable protective layer with water-insoluble Zinc oxide, iron (steel) and thus protects also defective places.

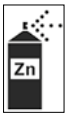
Properties:
HUPzinc is a mixture of high-purity zinc and aluminum powder, heat resistant, weather-resistant and quick-drying.

Art. no.	ml		kg	PU
170150	400 m	Dark	0,450	1
170152 ✷	400 m	Light	0,450	1

Zinc spray 550 HUPzincKorro

How to use HUPzinkKorro:
Shake the container well until the mixing ball is clearly audible and the contents are well mixed. Clean the surface to be treated with the wire brush, or even better sand blast it. The surface must be grease-free and clean. The best processing temperature is from 16-32 °C. For optimum results apply the spray from a distance of 25-30 cm with short motions. For commercial use only. Carry out preliminary tests for effectiveness and material compatibility.

Properties:
The employed zinc and zinc compounds contain more than 99% pure zinc, cross-cut adhesion tested in accordance with DIN EN ISO 2409, heat-resistant up to 500 °C, mandrel bend tested in accordance with DIN EN ISO 1519, salt spray tested in accordance with DIN 50021, subsequent protection after welding work for repairing damaged surfaces, protective coating for pipelines and metals, forms a permanent protective coating with water-insoluble zinc oxide on iron (steel) and thus also protects faulty points.



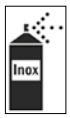
VIDEO 170153

Art. no.	ml	kg	PU
170153	400 m	0,450	1

Stainless-Steel-Spray HUPinox

Application HUPinox:
For maintenance and repair, maintaining the value of stainless steel, for processing of pipes, machinery, truck bodies, silos, turbines, etc., as a container and tank system protection and much more.

Properties:
HUPinox stainless steel coating, alloy, consisting of chrome >15%, nickel >7%, manganese >1%, heat resistant to 300°C, protects against corrosion, durable and weather-resistant protective layer, good and secure adhesion to metal, wood, glass, stone and much more.



Art. no.	ml	kg	PU
170156	400 m	0,450	1

Silicone-Spray HUPsil

Application HUPsil:
In order to eliminate creaking, squeaking and running noise of machines, vehicles, chains. As a lubricant, and as anti-aging. To clean, care and protection of metals, rubber and plastic, for retracting of rubber and plastic profiles, etc.

Properties:
HUPsil is a universal silicone spray and lubricant. It is waterproof, weather and temperature-resistant from -30°C to +200°C. It acts antistatic and dust repellent, lubricates and waterproofs all surfaces without being greasy, anti-corrosive and moisture-resistant.

Art. no.	ml	kg	PU
170162	400 m	0,450	1

Universal-Lubricant HUP40

Application HUP40:
Loosens persistent fittings, nuts, bolts, etc. due to rust and oxidation, removes moisture and condensation on cables and electrical connections and contacts, is based on an ultra-thin film which protects all metal surfaces and prevents further corrosion, keeps moisture from cables and contacts and prevents further accumulation of moisture, Lubricates cares and protects tools, machines, precision instruments, locks, sliding and guiding rails, wheels, bolts, hinges, fittings, etc.
Silicone free! It even melts ice on locks, bolts, hinges, fittings, etc.

Properties:
HUP40 high quality universal spray with 1001 solutions!

Art. no.	ml	kg	PU
170166	400 m	0,450	1

PTFE-Spray HUPptfe

Application HUPptfe:
Anywhere where oil- and grease coatings are unwanted. The special lubricant for all maintenance-free gliding lubrications, protects all metals, leather and wood parts - anti-aging for rubber parts, seals and plastics.
To eliminate creaking, squeaking and running noise of machinery, chains, windows, doors, trays, etc. In the electro-, plastics-, wood-, paper- and textileindustrie. Water-resistant coating of paper, cork and textiles.

Properties:
HUPptfe Oil-free Dry Lubrication Spray. High temperature resistant surface protection from -60 °C to +250°C with long-term effect and low coefficient of friction, quick drying, highly adhesive, grease-free and colorless, tasteless after application, the protection film seems anti-corrosive and moisture repellent.

Art. no.	ml	kg	PU
170158	400 m	0,450	1

Allround PTFE-Spray HUPptfeSynt

Application HUPptfeSynt:
Especially for long-lasting lubrication under very strong pressure and frictional conditions. It protects all moving parts and prevents snagging, creaks and squeaks.

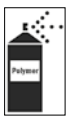
Properties:
HUPptfeSynt for lubrication of precision, such as pressure- loaded parts in an enormously wide range of temperatures.

Art. no.	ml	kg	PU
170160	400 m	0,450	1

Polymer-Spray HUPpolymer

Application HUPpolymer:
Substitute for silicone spray as a retraction, sliding and lubricating aid, as well as long-term care for rubber, EPDM, PP, PVC etc. Significantly improved gliding characteristics on coated surfaces - the coefficients of friction are reduced up to 40%. Treated surfaces have a color-intensifying appearance. Coated surfaces are water-resistant, insensitive to contamination, further processing (gluing, painting, printing, etc.) of adjacent materials without having trouble.

Properties:
HUPpolymer contamination of tools and manufactured parts, which can occur when using silicone oils, are avoided. No stress cracking when in contact treated profiles with plexiglas or polycarbonate.



Art. no.	ml	kg	PU
170170	400 m	0,450	1

Cutting-Oil HUPdrill

Application HUPdrill:
Targeted and clean to use when cutting, very economical and efficient in consumption. For machines, for which the complete separation of the coolant from the hydraulic oil used or lubricating oil is not present. Suitable for the treatment of iron and non-ferrous metals.

Properties:
HUPdrill special cutting oil, transparent. Alloyed oil contains highly effective EP-Additives and polar substances, elastic film of lubricant with corrosion protection, high loads through sustainable boundary layer formation, high load carrying capacity.
Provides low-wear operation with corrosion protection.

Art. no.	ml	kg	PU
170172	400 m	0,450	1

Anti-Rust-Spray HUPrustEX

Application HUPrustEX:
Penetrates the rust, removes oils, resins, tar and oil coal, solves persistent connections easily, eliminates rattles and squeaks protects the long term, penetrates even constrictions and facilitates the disassembly of parts. Triggers stuck screw, brings all corroded connections, such as screw, nuts, bolts, joints moving again.

Properties:
HUPrustEx penetrates and dissolves extremely effective rust, preserves and protects against new rust attack by a MoS2 protective film.

VIDEO 170164

Art. no.	ml	kg	PU
170164	400 m	0,450	1

Contact spray HUPwetBlock

Application HUPwetBlock:
Due to its highly effective ingredients all types of electrical contacts and connections are protected against moisture and corrosion. Water and moisture is reliably suppressed. The product properties remain even after several months of use indoors and also outdoor and prevent permanent leakage currents and short circuits in: lighting systems, connections and sockets, electrical machinery and equipment, pumps, intercom systems, switches and fittings, connectors and contacts sockets, fuse boxes, cable connections, cable reels, battery terminals, engine electrical, electric, bell systems and much more.

VIDEO 170180

Art. no.	ml	kg	PU
170180 ✷	400 m	0,4166	1

Fast degreaser HUPdegreaser

Application HUPdegreaser:
For cleaning and degreasing of dust, dirt, oil, mechanical parts. For removing wax-stains, fats and resins from high potential switches, air conditioning, antenna insulaters, motors, ventilators, switchboards, cables, stubborn dirt on glass and car paint, etc.

Properties:
HUPdegreaser is a quick and intensive degreaser and cleaner for mechanical and electrical equipment. Residue-free and fast evaporating.

VIDEO 170102

Art. no.	ml	kg	PU
170102 ✷	500 m	0,600	1

Electric-Engine-Cleaner HUPelectroClean

Application HUPelectroClean:
It is used to remove dust, dirt, oil, grease, lubricants and coal dust to electromechanical contacts, relays, wires, distributors, coils, etc. Can also be used for pre-cleaning for subsequent painting.

Properties:
HUPelectroClean consisting of a mixture of hydrocarbons and cleaning boosters. Cleans spot and streak free and evaporates without residue after cleaning.

Art. no.	ml	kg	PU
170114 ✷	400 m	0,550	1

Multi Cleaner HUPcleanMulti

Application HUPcleanMulti:
Cleaning of windows, mirrors, glass, monitors, plastic-surfaces, tiles, etc. in industry and crafts.

Properties:
HUPcleanMulti is a Multi-Foam with orange aroma. Intensive cleaner, for a sparkling shine on all surfaces. Powerful, yet mild. Very economical due to high concentrate, skin-sensitive. Spotless, non-porous, streak-free. Cleans with active-foaming effect.

Art. no.	ml	kg	PU
170104	500 m	0,550	1

Metal Degreaser HUPmetalClean

Application HUPmetalClean:
Removes coarse contamination mechanically. Spray from a short distance and allow the cleaning agent to run off. The parts to be cleaned are clean and dry in just a few seconds. Parts do not need to be removed if the dissolved contaminations are able to run off with the fluid.
Note: Does not attack enamelled paints/Not suitable for plastic and seals! Only for commercial use. Carry out tests for effect and material compatibility.

Properties:
For powerful quick cleaning, residue-free and rapid evaporation, removes grease, oil, wax residue, Edding, felt-tip and ball-point pen, resin and stubborn contaminations from all metal surfaces. For residue-free degreasing of all metal objects, but may also be used as cleaner for subsequent painting of gluing.

Art. no.	ml	kg	PU
170103	500 m	0,600	1

Foam Cleaner HUPclean

Application HUPclean:
For cleaning windows, monitors, plastic surfaces, buildings, vehicles and machines.

Properties:
HUPclean is a multifunctional cleaner and achieves best levels of cleanliness on cases of fouling by oil, grease, wax and similar substances.

Art. no.	ml	kg	PU
170100	500 m	0,550	1
170101	1000 m	1,000	1

Label-Remover HUPlableEx

Application HUPlableEx:
Residue-free removal of adhesive residues, labels, lubricants, bitumen, fresh PU foam residues and stubborn stains. For cleaning of metal surfaces (even before painting) suitable in many areas of industry, trade and craft.

Properties:
HUPlableEx is powerful, yet gentle on the material, evaporates quickly and leaves no residue.

Art. no.	ml	kg	PU
170112	400 m	0,450	1

Compressed Air HUPair

Application HUPair:
HUPair compressed air for cooling and debugging overheated parts. To remove dust, dirt and other deposits on computers, Keyboards, engineering components, office equipment, photocopiers, printers etc.

Art. no.	ml	kg	PU
170106 ✷	400 m	0,450	1

Compressed Air non-flamable HUPairXtra

Application HUPairXtra:
Is used anywhere where dust and loose dirt is only removed with difficulty. In the entire range of maintenance and repair of electronic equipment, components, computers, precision mechanical watches, etc. For dust and dirt removal on keyboards, computer cases, cabinets, measuring and control technology instruments, optical instruments, hi-fi and video equipment, as well as modules, printed circuit boards, magnetic heads, drives, etc.

Properties:
HUPairXtra non-flammable - especially good for
suitable cleaning of electrical contacts. For a clean and dry cleaning in hard to reach places and on delicate surfaces.

Art. no.	ml	kg	PU
170108	400 m	0,450	1

Dosage cap Target Control System

The Target Control System is a stable, flexible dosage cap that can be removed at any time.
It is compatible with many of the HAUPA aerosol products (parent valve/star).
This means even more accurate, precise spraying and
dosage. Targeted, accurate and properly dosed.
Not for sprays art: 170106, 170150, 170152, 170400

Art. no.	kg	PU
170406	0,015	1

HUPskinProtect

Application HUPskinProtect:
Protects hands and other parts of the body by a protective film prior to contact with the oil, grease, tar, paint, dust, and other dirt and pollutant species. It can prevent allergic reactions with many substances, because a protective film between the skin and the medium is established. For daily use in the industrial and craft.

Properties:
HUPskinProtect facilitates skin cleaning. The skin remains breathable and does not dry out. Dermatologically tested.

Art. no.	ml	kg	PU
170116	250 m	0,300	1

HUPchemie - Cleaning

Cleaning wipes HUPwipe

- Cleans machines, equipment and plastics
- Removes rust film, grease, sharpie marks and nicotine
- For the heaviest soiling in industry and trade

Art. no.	kg	PU
170118	0,200	1

Hand cleaning cream HUPsoap, 500 ml

Application HUPsoap:
Rub some grams on dry hands, add some water and wash thoroughly. Reduce the consumption with the corresponding dosing dispenser.

Properties:
HUPsoap Special cleaning cream for the removal of stubborn dirt e.g. fresh paint and adhesive residues, oils, grease, tar, bitumen, resins etc.

Art. no.	ml	kg	PU
170126	500 m	0,500	1
170127	3000 m	3,000	1
170128	10000 m	10,000	1

Dispenser for hand cleaning cream HUPsoap, 3l

- compatible for art. 170127
- Stainless steel tube

Art. no.	kg	PU
170129	0,800	1

You can find our HUPchemie safety certificates in the download area at www.haupa.com.

HUPchemie - Testing

Freeze-Spray HUPcool

Application HUPcool:
HUPcool to remove dust, dirt and other deposits on computers, Keyboards, engineering components, office equipment, photocopiers, printers, etc. For cooling and debugging overheated parts.

Art. no.	ml	kg	PU
170400	400 m	0,455	1

Smoke-Detector-Test-Spray HUPdetect

Application HUPdetect:
Test your smoke detectors once a month with this test spray, to exclude technical defect, as well as the contamination of the detector.

Properties:
- directly simulated fire smoke
- enough for about 150-200 test operations
- Fast and reliable

Art. no.	ml	kg	PU
170404	250 m	0,180	1

Adhesion+Sealing
Coating+Lubrication
Cleaning
Testing

PU Packing unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

* Bestseller Premium product

Soldering accessoires

haupa®

... convincing solutions

Soldering irons

chrome nickel steel tube, with schuko safety plug, replaceable nickel-plated copper tips

Art. no.	Watt	Volt	⟷	kg	PU
160142	60	220	265	0,322	1
160144	80	220	315	0,319	1
160146	100	220	320	0,324	1

Soldering irons

with plastic handle, with schuko safety plug, replaceable copper tips, nickel-plated

Art. no.	Watt	Volt	⟷	kg	PU
160150	30	220	250	0,264	1

Soldering irons

soldering tip internally heated, chrome vanadium steel tube, with plastic handle, with schuko safety plug, replaceable nickel-plated copper tips, for electronic work

Art. no.	Watt	Volt	⟷	kg	PU
160190	15	220	200	0,257	1

Torch brazing set SolderingKit

12-pieces, for pocket lighter butane gas, with Piezo ignition, heating time: +/- 25 seconds (peak), performance can be infinitely regulated, temperatures with naked flame up to 1200 °C, brazing up to 550 °C, heat shrinking up to 680 °C, burn time approximately 60 minutes, in black plastic case.

Art. no.	kg	PU
262098	0,670	1

Solder in triangular sticks DIN 1707

length approx. 430 mm, approx. 250 g per stick, size: 11 x 11 x 11 x 430 mm

Art. no.	Sn%	Roll/g	kg	PU
160112	30	250	0,275	1
160114	40	250	0,247	1

Soldering stone

Art. no.	size	kg	PU
160130	65x45x20	0,070	1

Soldering paste acc. to DIN 8511-F-SW 26

rosin halide-activated

Field of application:
electro-technic, electronics, manufacture of electrical appliances

Art. no.	kg	PU
160090	0,073	1

Soldering fluid acc. to DIN 8511-F-SW 32

rosin halide-activated

Field of application:
electro-technic, electronics, manufacture of electrical appliances

Art. no.	size	kg	PU
160092	50 ml	0,054	1

Grease for soft-soldering acc. to DIN 8511-F-SW 21

ammonium chloride, organic preparation field of

Application:
general soldering work

Art. no.	size	kg	PU
160094	50 ml	0,072	1
160096	100 ml	0,132	1

Soldering grease for fittings acc. to DIN 8511-F-W 22

Field of application:
sanitary technics, copper tubes etc.

Art. no.	size	kg	PU
160100	70 ml	0,080	1

Soldering fluid acc. to DIN 8511-F-W 21

Ammonium chloride, organic preparation

Field of application:
sanitary technics, copper tubes etc.

Art. no.	size	kg	PU
160102	50 ml	0,065	1

Solder for electronic work

Solder for electronic work acc. to DIN EN 29453

antimony-free, soldering flux acc. To DIN EN 29454, 1.1.2.B (F-SW 26), S-Sn60Pb40, rosin halide-activated

Art. no.	Ø	Sn%	Roll/g	kg	PU
160020	1	60	100	0,104	1
160022	1	60	250	0,253	1
160024	1	60	500	0,529	1
160026	1	60	1000	1,008	1
160028	1,5	60	16	0,016	1
160030	1,5	60	100	0,106	1
160042	1,5	60	250	0,247	1
160044	1,5	60	500	0,528	1
160046	1,5	60	1000	1,022	1
160050	2	60	100	0,108	1
160052	2	60	250	0,250	1
160054	2	60	500	0,529	1

Solder for electronic work

Solder for electronic work acc. to DIN EN 29453

antimony-free, soldering flux acc. to DIN EN 29454, 1.1.2.B (F-SW 26),
S-Sn60Pb39Cu1 / S-Sn60Pb38Cu2 (160018), rosin halide-activated

Art. no.	Ø	Sn%	Roll/g	⟷	kg	PU
160000	1	60	9	1 m	0,009	1
160002	1	60	100		0,106	1
160004	1	60	250		0,259	1
160006	1	60	500		0,528	1
160008	1	60	1000		1,015	1
160012	1,5	60	100		0,102	1
160014	1,5	60	250		0,255	1
160016	1,5	60	500		0,523	1
160018	1,5	60	1000		1,024	1

Solder for electronic work acc. to DIN EN 29453

antimony-free, soldering flux acc. To DIN EN 29454, 1.1.2.B (F-SW 26),
S-Pb60Sn40, rosin halide-activated

Art. no.	Ø	Sn%	Roll/g	kg	PU
160060	2	40	100	0,106	1
160062	2	40	250	0,257	1

Fittings' solder acc. to DIN EN 29453

low antimony content, soldering flux acc. to DIN EN 29454, 2.1.3.B (F-SW 24),
S-Pb60Sn40, ammonium chloride based, organically prepared

Art. no.	Ø	Sn%	Roll/g	⟷	kg	PU
160070	1,5	40	18	1 m	0,018	1
160072	2	40	100		0,103	1
160074	2	40	250		0,258	1

Solder lead-free (RoHS-directive)

Solder wire according to DIN EN 29453

lead-free special alloy, 2.5% flux percentage according
to DIN EN 29454, 1.1.2.B (EN-61190-ROLO), 1.00 mm of Ø, 0,100 kg spools
S-Sn99Cu1, DIN EN 29453 (Sn99, 3Cu0,7 - eutectic)

Art. no.	Ø	Sn%	Roll/g	kg	PU
160420	1	99	100	0,114	1
160422	1	99	250	0,262	1
160424	1	99	500	0,536	1
160426	1	99	1000	1,000	1
160430	1,5	99	100	0,112	1
160442	1,5	99	250	0,266	1
160444	1,5	99	500	0,500	1
160446	1,5	99	1000	1,000	1
160450	2	99	100	0,109	1
160452	2	99	250	0,257	1
160454	2	99	500	0,527	1

Solder wire according to Din EN 29453

lead-free special alloy, 3.5% flux percentage according to
DIN EN 29454, 1.1.3.B (EN-61190-ROLO), 1.00 mm of Ø, 0, 100 kg spools
S-Sn99Cu1, DIN EN 29453 (Sn99, 3Cu0,7 - eutectic)

Art. no.	Ø	Sn%	Roll/g	kg	PU
160402	1	99	100	0,114	1
160404	1	99	250	0,250	1
160406	1	99	500	0,500	1
160408	1	99	1000	1,000	1
160414	1,5	99	250	0,258	1
160416	1,5	99	500	0,535	1
160418	1,5	99	1000	1,000	1

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... convincing solutions

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Legend

	total length in mm
m	total length in m
mm	span width in mm
"	tube diameter
mm	span width in mm
	outer packaging
N	min. Holding force
	max. bundle diameter
Ø	diameter / cross-section in mm
Ø1	horizontal diameter
Ø2	vertical diameter
ØBL	blade length
Ø bo.	bolt diameter in mm
Ø mm²	max. cable cross section
Ø/Inch	diameter in inch
Ø ST	cutting depth
°C	max. Soldering tip temperature
A	sleeve length
Al	aluminium
B	flange width
Balloon Ø	balloon diameter
bar	max. test pressure
BL	blade length
c	flange length
c1	flange length 1
c2	flange length 2
c-hole	core length
CL	cutting length
Col.	colour
Cont.	content
content ml	content in ml
crimp	crimping range
crimp coaxial	crimping range coaxial
crimp modular	crimping range modular
CSS	cross-section in mm
CSS rm/sm	cross-section rm/sm
CSS/red.	conductor cross-section reduced
Cu	copper
Cu pipe Ø	copper pipe diameter
CW	cutting width
d1	internal diameter
d1/red.	internal diameter reduced
d2	hole diameter
d4	external diameter
dB	Insulation value SNR
depth (D)	depth in mm
Drill Ø	diameter drill
drive	drive
drum/kg	drum weight in kg
drum/Ø	drum diameter in mm
drum/width	drum width in mm
E	length to middle of hole
empty	art. no. unassembled
Fo.	form
H1	height 1 in mm
height (H)	height in mm
Hole Ø	Hole diameter
HW/HG	hammer head weight in g
I/no. / Id.	identification number
I/no. / Id. Al	identification number Al
I/no. / Id. Cu	identification number Cu
Inner Ø	Inner diameter
kg	weight in kg
kg/100	weight in kg/100 pcs.
kg/h	gas quantity in kg/h
KlBr	blade width
kN	lifting capacity / max. safe working load in kN
KSt	blade thickness
L	length in mm
load	load
Loc.	locator
M	thread/metric
mat.	material
Mat/S	material thickness
max. L	max. length
max. ml	cartridge capacity
max. Ø	max. cartridge diameter
min. Ø	min. cartridge diameter
mm²	max. cable diameter in mm²
N/Ø	nail diameter
NL	nail length
Nm	tightening torque
No.	number
NP	nominal pressure in bar
Outer Ø	outer diameter
PG	Hole diameter
PH	Phillips
PrU/PU	price unit / packing unit
plug	plug dimensions
PU	packing unit
PW	pressing width
PZ	Pozidriv
Quant.	quantity
RJ	pressing area modular plug
role/G	role weight in g
rope mm²	cable cross-section
rope Ø	suitable for lanyard diameter
rope-Ø	rope diameter in mm
s	material thickness
Sbl.	saw blade length
screws	suitable for screw diameters
se	single core sector
set	quantity of parts
Shank Ø / Shaft Ø	shaft diameter in mm
size	size
sm	multiple core sector
Sn% / Tin %	tin percentage
span Ø	jaw width
span width	width across flats
strength (St.)	strength in mm
thd.	thread
TL	total length in mm
TM	thread metric
TMA	tested/Measured area
TPI	teeth Per Inch
Tube Ø	tube diameter
v1	slim pressing
v2	witdh in mm
width (B)	witdh in mm
WS	wrench size

General Terms and Conditions of Trade

haupa®

... convincing solutions

HAUPA GmbH General Terms and Conditions of Business and Delivery

1 General/ provisions/Scope
1.1 These HAUPA GmbH (hereinafter referred to as "HAUPA") General Terms of Business and Delivery apply exclusively. Terms and conditions of a HAUPA contractual partner (hereinafter referred to as a "Customer") that contradict or deviate from these Terms and Conditions of Sale and Delivery will not be recognised unless HAUPA has expressly agreed in writing to the applicability of such deviating terms and conditions. These Terms and Conditions of Business and Delivery shall also apply if HAUPA makes a delivery to a Customer without reservation with knowledge that the Customer's terms and conditions conflict with or deviate from these Terms and Conditions of Business and Delivery.

1.2 These Terms and Conditions of Business and Delivery also apply to all future transactions with the Customer.

1.3 These Terms and Conditions of Business and Delivery only apply in dealings with business enterprises.

2 Offer and acceptance
2.1 All offers from HAUPA are subject to confirmation. This is subject to reservation of the right to discontinue articles and to make price changes. The scope of HAUPA's delivery obligation is determined by its order confirmation or offer. Verbal and telephonic agreements only become effective upon written confirmation.

2.2 If an order qualifies as an offer according to section 145 German Civil Code (BGB), HAUPA may accept such an offer within four weeks. A contract is concluded at the latest upon dispatch of the order confirmation, shipment of ordered goods or, in the case of partial delivery, upon shipment of the first delivery.

2.3 Documents, drawings, weight and measurement data, samples, etc. contained in offers are only approximate information and do not represent guaranteed characteristics. HAUPA is entitled to deviate from descriptions in an offer, provided that such deviations are not of a fundamental or essential nature and do not impair the contractually intended use.

2.4 If parts are manufactured by HAUPA according to Customer drawings, drawings prepared by HAUPA and approved by the Customer are deemed to be authoritative. Deviations from approved drawings must be agreed separately and any additional costs incurred as a result must be reimbursed.

2.5 If the Customer requests customised cost estimates, any associated expenses must be reimbursed. If an order is placed, any respective expenses in this regard will be offset against the purchase price.

3 Intellectual property rights
3.1 HAUPA reserves ownership and copyright to all illustrations, drawings, calculations and other documents. Without limitation, this applies to written documents that are designated as "confidential". They may only be disclosed to third parties by the Customer with the prior written consent of HAUPA.

3.2 If supplies of goods and services are made on the basis of drawings or other information provided by the Customer, and if third-party industrial property rights are asserted in this regard, as between the parties, the Customer shall indemnify HAUPA against all such claims.

4 Delivery/Delay in delivery
4.1 Delivery periods and delivery dates shall only be deemed to have been agreed as binding if they are expressly agreed in writing in the offer. HAUPA shall not be bound by the delivery date or the delivery period if the Customer does not fulfil its obligations (instalment payments, provision of necessary documents, etc.) on a timely basis. The right to assert the defence of non-performance of the contract remains reserved.

4.2 Delivery periods shall commence on the day on which the contract was concluded in writing at the earliest. The commencement of such period presupposes clarification of all technical questions.

4.3 In the event of subsequent changes requested by the Customer, HAUPA is released from the obligation to comply with the delivery date or delivery period.

4.4 The delivery period shall be deemed to have been complied with if the delivery item has left HAUPA's works, or HAUPA has provided notice that goods are ready for dispatch, by the end of the delivery period.

4.5 The Customer cannot assert any claims due to delays in delivery which are not due to intent or gross negligence on the part of HAUPA. This applies in particular to delays in delivery due to a force majeure event. In such cases, the agreed delivery date or delivery period shall be postponed in accordance with the duration of the respective impediment to delivery.

4.6 Returns can only be made with the express prior consent of HAUPA. Parts from the current delivery programme must be returned in their original packaging free of defects and in salable condition. Returns must be carriage paid and at the risk of the sender with deduction of a 20% return fee. Processing fees will be deducted on a time and materials basis. Such costs may include recoding, cleaning and repackaging expenses.

4.7 If the Customer is in default of acceptance or violates other duties to cooperate, HAUPA is entitled to demand compensation for damages incurred in this respect, including any additional expenses. HAUPA is also entitled to set a reasonable acceptance period for the Customer and to withdraw from the contract after its expiry without success and may claim damages in lieu of performance.

4.8 In the case of special articles, HAUPA reserves the right to make over or underdeliveries of up to 10%.

5 Passage of risk/Packaging
5.1 Risk shall pass to the Customer upon dispatch of the goods at the latest, even if partial deliveries are made.

5.2 Deliveries are made ex works. HAUPA will insure the goods against insurable risks at the expense of the Customer only on the Customer's express request.

5.3 Transport packaging and all other packaging in accordance with the Packaging Ordinance shall not be taken back. The Customer is obliged to arrange for the disposal of such packaging at its own expense.

6 Prices/Payment terms
6.1 Unless otherwise stated in the order confirmation, prices quoted are ex works in all cases, excluding packaging, which shall be charged separately.

6.2 Quoted prices are net prices; statutory value added tax will be added at the applicable rate.

6.3 HAUPA may charge the Customer for any additional costs incurred as a result of subsequent change requests.

6.4 Invoices are due for payment within 30 days of the invoice date without deduction. Discounts shall only be deemed agreed if expressly confirmed in writing by HAUPA.

6.5 HAUPA is entitled, even in the event of conflicting payment terms of the Customer, to apply payment first to the oldest obligation not yet reduced to judgement. If costs or interest have already been incurred, HAUPA is entitled to set off payments first against the costs, then against interest and finally against the principal obligation.

6.6 HAUPA is entitled to assign claims within the HAUPA Group.

6.7 The Customer is only entitled to apply a set-off if and insofar as its counterclaims have been reduced to final judgement, are undisputed or have been acknowledged in writing by HAUPA. The Customer's right of retention is limited to claims arising from the contractual relationship.

7 Liability
7.1 HAUPA is not liable for damages caused by improper handling, wear, storage or other actions of the Customer or third parties.

7.2 Statutory claims arising from liability for material defects shall become time-barred 24 months after delivery of the goods. This does not constitute a guarantee of liability. Batteries are excluded from this limitations period. For supplies of batteries, we only recognise a period of six months from delivery. This does not constitute a guarantee of durability.

7.3 The Customer is obliged to comply with its duty of inspection according to section 377 German Commercial Code (HGB) even if the goods are resold.

7.4 HAUPA has the right to choose between repair or replacement.

7.5 HAUPA shall not bear expenses required for the purpose of tracking if such expenses are increased by the fact that the goods were taken to a place other than the Customer's place of business after delivery. This does not apply if moving the product conforms to its intended use.

7.6 The Customer's right of recourse against HAUPA on account of claims arising from liability for material defects asserted against the Customer by its customers is excluded if the Customer has not fulfilled its obligation to inspect and give notice of defects or if the goods have been modified by means of processing.

7.7 HAUPA's liability for damages according to applicable statutory provisions is unlimited if a breach of duty attributable to HAUPA is based on intent or gross negligence. To the extent that the respective breach of duty attributable to HAUPA is due to ordinary negligence, and an essential contractual obligation has been culpably breached, liability for damages is limited to foreseeable damages typically occurring in comparable cases. Liability is excluded all other cases.

7.8 This is without prejudice to liability according to the provisions of the Product Liability Act. This is likewise without prejudice to liability for injury to life, limb and health.

8 Retention of title
8.1 HAUPA retains title to all parts that have been delivered until receipt of all payments under the delivery contract. If the Customer is in breach of contract, in particular by being in default of payment, HAUPA is entitled to repossess the goods.

8.2 The Customer is obliged to treat all goods delivered to it with care and to insure them, at its own expense, against any form of destruction at their replacement value for the period during which title is retained.

8.3 Costs for maintenance and inspection work shall also be borne by the Customer during the period during which title is retained even if such work carried out by HAUPA.

8.4 In the event of seizures or other forms of attachment by third parties, the Customer must inform HAUPA immediately in writing so that HAUPA may intervene as a third party. In the event that a third party is not in a position to reimburse the judicial and extrajudicial costs of such an action, the Customer shall be liable for such costs.

8.5 The Customer is entitled to resell purchased items in the ordinary course of business. However, the Customer hereby assigns to HAUPA all claims that accrue to it from resales to their customers or third parties in the amount of HAUPA's final invoice amount (including VAT), irrespective of whether the object of sale has been resold without or after processing. The Customer remains entitled to collect such claim even after delivery. This is without prejudice to HAUPA's authority to collect such claims itself. However, HAUPA undertakes
not to collect such claims as long as the Customer meets its payment obligations from the proceeds collected, is not in default of payment and, in particular, no
petition for the opening of insolvency proceedings has been filed or payments have not been suspended.

8.6 If delivered goods are inseparably mixed or combined with other objects not belonging to HAUPA, HAUPA shall acquire co-ownership of the new or combined object in the ratio of the value of the delivered goods (final invoice amount including value added tax) to the other object(s) at the time of mixing

or combining. The Customer shall safeguard sole ownership or co-ownership thus created on behalf of HAUPA.

8.7 Payment of cost allocations for tools do not entitle the Customer to such tools; they remain the sole property of HAUPA.

9 Prohibition of assignment
No claims of the Customer against HAUPA arising from the contractual relationship may be assigned.

10 Product liability
10.1 The Customer may only use the goods as intended and must ensure that such goods are resold only to persons familiar with the product hazards and risks.

10.2 When using the goods as raw materials and component products for its own products, the Customer is likewise obliged to comply with its warning obligation with regard to goods delivered by HAUPA when placing the end product on the market. As between the parties, the Customer shall, upon first request, indemnify and hold HAUPA harmless against the assertion of claims in the event of a breach of this obligation.

11 Miscellaneous/Final provisions
11.1 The place of performance is the location of HAUPA's registered office.

11.2 The place of jurisdiction for all disputes arising under or in connection with this contract is the location of HAUPA's registered office. However, HAUPA is also entitled to sue the Customer at the court located at the location of the registered office the Customer with general jurisdiction over the Customer or at the place where the Customer has a branch office.

11.3 The domestic law of the country in which HAUPA has its registered applies exclusively to the exclusion of the UN Convention on Contracts for the International Sale of Goods.

12 Data protection
12.1 In accordance with section 4 of the German Federal Data Protection Act, the Customer agrees that personal data may be processed by the contractor using electronic means. It is aware that data will not be transferred to third parties outside the HAUPA Group and that it may refuse or withdraw consent with effect for the future.

Last updated: october 2025

Quality

HAUPA has been certified according to DIN EN ISO 9000 since 1996 (2003 DIN EN ISO 9001).

In order to incorporate a true quality standard the quality management department of HAUPA decided at a very early stage to apply for ISO 9000 certification, which controls and covers the complete internal working and monitoring procedures. From goods receipt to dispatch – all working processes are carried out according to defined procedures.

All HAUPA employees receive regular training in order to comply with these standards and to encourage them to actively suggest ways of improving the processes. Special, so-called QMB employees analyse modified structures and integrate these into the defined standards. Independent auditors carry out audits at regular intervals to ensure compliance.

DIN EN ISO 9001:2015 - Certificates

HAUPA products are certified in accordance with

VDE GS

1000V IEC 60900

RoHS

UL

Brunel

Memberships

ETIM International

ZVEI: Die Elektroindustrie

IHK Bergische Industrie- und Handelskammer Wuppertal-Solingen-Remscheid

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