EN

haupa®

Main catalogue 2024

haupa.com

Industrial Quality

haupa® BRINKO®

... togehter even stronger

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

Tradition and innovative prowess for more than 60 years

HAUPA stands for **hand tools of the highest quality** and safety for electrical engineers as well as for high-quality**, system-certified cable connection and crimping technology.**

With our products, we always focus on the **HAUPAplus,** the **added value,** the special advantage for our customers. It is our passion to develop and provide good, safe, reliable and appealing products. Our aim is to enable users to fulfil their tasks faster, safer and easier, so that the results also meet the requirements of their company. Our range now comprises more than 7,000 products, which are available in over 50 countries worldwide. We have been growing steadily from the very beginning.

What drives us?

We endeavour to develop products of the highest precision that offer users added value.

Our experience, tradition, innovative strength and reliability make us your partner in the areas of tools and cable connection technology. Through our acquisition of BRINKO in 2020, we have expanded our portfolio by 1,000 items in the area of sanitary tools. This opens up completely new perspectives for the entire sanitary and electrical wholesale trade. Both HAUPA and BRINKO have a traditional and family-run background. BRINKO has been firmly rooted in Remscheid since 1860. In this HAUPA general catalogue you will find the complete product portfolio for electrical and sanitary applications. We look forward to convincing you of our products and hope you enjoy browsing through the catalogue.

Jens-Ole Paas and the entire
HAUPA team

Jens-Ole Paas
CEO

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.”

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HAUPA stands for hand tools of the highest quality and safety for the electrical engineer. With our products, we always pay attention to the HAUPAplus; the special advantage for our customers. Our passion is to build a good, reliable and safe tool, which the user will enjoy for a long time.

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 the electrical industry. In addition, we produce and market a wide range of basic tools for professional use in electrical engineering. The high **quality** of the products is the top priority at **HAUPA.** To ensure this, we canstantly carry out **quality checks** in-house.

In recent years, our range has been expanded many times over. In order to be able to serve and satisfy our customers beyond electrical engineering, we are always busy adding new tools and accessories to our portfolio. This allows us to provide a central point of contact in the most diverse fields of the electrical trade.

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!

Cable cutters

haupa®

... 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 11	page 11	page 12	page 12	page 12	page 12	page 13	page 13	page 13	page 15	page 15	page 15	page 15	page 10	page 11
	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 cutters

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		Replacement blade	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

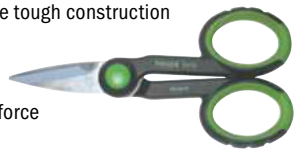
with one four-blade knife. System with a service life that is four times longer, thanks to four-way adjustment of the blade of 90°. Blades lie protected in the body, which prevents damage of the blades and injury to the user. Tube contact surface for better guidance of the tube.

Art. no.	Ø	kg	PU
200208	14 - 45	0,111	1

Cable scissors

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

Our 1000 V pliers can be found on page 227.

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Cable cutters

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

Ø 8 | Cu AL

Art. no.		Ø	mm²	kg	PU
201085 ✸	160	8	16	0,177	1

Kabelschneider

- zum Schneiden von Cu- / Al- Kabeln feindrähtig, mehrdrähtig und massiv Cu
- Chrom Vanadium Stahl, tauchisolierte Griffhüllen
- Abisolierfunktion im oberen Kopfbereich
- Kabelmesserfunktion durch 180 Grad Überschlag der Schenkel
- Daten-, Telefon- und Steuerungskabel max. Ø 12 mm
- Cu eindrähtig max. 16 mm²
- Cu feindrähtig max. 35 mm²
- Cu mehrdrähtig max. 25 mm²
- Al eindrähtig max. 25 mm²
- Al mehrdrähtig max. Ø 8 mm = 25 mm²

Ø 12 | Cu AL

Art. no.		Ø	mm²	kg	PU
201087	200	12	35	0,289	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

Ø 8 | Cu AL

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

Ø 12 | Cu AL

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

Ø 10 | Ø 15 | Cu AL

Art. no.			Ø	mm²	kg	PU
200086	✸	170	10	25	0,266	1
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

Ø 25 | Cu AL

Art. no.		Ø	mm²	kg	PU
200105	215	25	70	0,281	1

single wire | wire rope
multi-wire | armoured steel cable (SWA)
sector-shaped | ACSR
fine wire | BOLT
communication/ data | solid steel | solid CU

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

✸ Best-seller | Premium product

One-hand cable cutters

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

Ø 16,9 | Cu AL

Art. no.		Ø	mm²	kg	PU
201002 *	180	16,9	70	0,241	1

Cable cutter with a snap

- one-handed cable cutters for fine wire cables only
- two-stage adjustment mechanism (patent)
- low force required
- laser-cut components
- CNC-ground cutting
- inductively hardened blades
- adjustable screw joint
- telephone cable maximum Ø 26.1 mm
- Cu fine wire cable, maximum Ø 18.9 mm = 120 mm²

Video 201000

Ø 18,9 | Cu AL

Art. no.		Ø	mm²	kg	PU
201000	230	18,9	120	0,514	1

Cable cutters

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

Ø 27 | Cu AL

Art. no.		Ø	mm²	kg	PU
200087	500	27	150	1,026	1

Cable cutters

- 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

Ø 20 | Ø 35 | Ø 50 | Cu AL

Art. no.		Ø	mm²	kg	PU
200073	300	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

Ø 24 | Cu AL

Art. no.		Ø	mm²	kg	PU
200197	700	24	120	1,839	1

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

Ø 40 | Cu AL

Art. no.		Ø	mm²	kg	PU
200100	980	40	400	3,920	1
200104			cutting head	0,606	1

Our 1000 V pliers can be found on page 227.

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... convincing solutions

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Wire Cutter (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

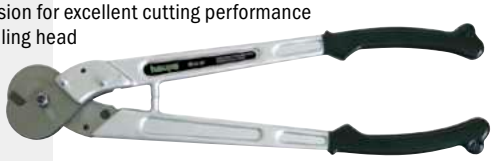
Wire cutter

- 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	180	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

Cable cutters

Hand cable cutter Ø 34 m

NEW

- 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. 200089-1

		mm²	Ø
Cu/Al (Cl. 2 + 5):	Cu/Al wire multi wiring	300	34
	Cu/Al wire sector format	300	34
	Cu wire fine wiring	300	34
	Cu wire fine wiring or telecommunication cable	300	34
Length:			260
Weight:			0,600

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

NEW

Hand cable cutter Ø 62 mm

- 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:

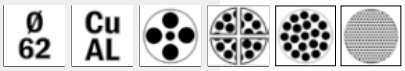
- All parts made from high-strength special steel, with hardened or tempered cutting edges and stressed components
- Burnished surfaces
- Ergonomically shaped soft handles
- Colour: black/green

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



Art. no. 200183-1

		mm²	Ø
Cu (Cl. 2 + 5):	Cu wire multi wiring	480	62
	Cu wire multi wiring	480	62
	Cu wire multi wiring	480	62
	Cu wire fine wiring or telecommunication cable	480	62
Al (Cl. 2 + 5):	Al wire multi wiring	380	34
	Al wire multi wiring	380	34
	Al wire multi wiring	380	34
	Al wire fine wiring or telecommunication cable	380	34
Length:			297
Weight:			0,820

INFO

Cable cutters 200111, 200112

Precise cut!

The blade joints (screw connection on rotation blade) are adjusted to 0.05 mm!

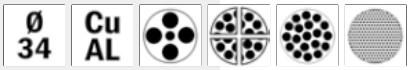
Durable and strong

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



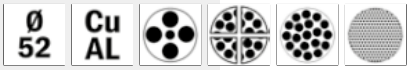
Art. no. 200111

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	185	34
	Cu/Al wire sector format	240	34
	Cu wire fine wiring	240	34
	Cu wire fine wiring or telecommunication cable		34
Length:			250
Weight:			0,790

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

Video 200112



Art. no. 200112

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	400	52
	Cu/Al wire sector format	400	52
	Cu wire fine wiring	450	52
	Cu wire fine wiring or telecommunication cable		52
Length:			320
Weight:			1,122

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Cable cutter

PREMIUM

High leverage, perfected cutting force performance, particularly smooth-running cable cutter with needle bearing eccentric drive up to 35 mm Ø. Extremely durable tool

Ø 35 | Cu AL

Art. no. 200113

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	240	35
	Cu/Al wire sector format	240	35
	Cu wire fine wiring	300	35
	Cu wire fine wiring or telecommunication cable		35
Length:			250
Weight:			0,976

Cable cutter

PREMIUM

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

Ø 45 | Cu AL

Art. no. 200177

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	300	45
	Cu/Al wire sector format	240	45
	Cu wire fine wiring	300	45
	Cu wire fine wiring or telecommunication cable		45
Length:			260
Weight:			0,900

- single wire
- multi-wire
- sector-shaped
- fine wire
- communication/data
- wire rope
- armoured steel cable (SWA)
- ACSR
- BOLT
- solid steel
- solid CU

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

PREMIUM

High leverage, perfected cutting force performance, particularly smooth-running cable cutter with needle bearing eccentric drive up to 52 mm Ø. Extremely durable tool

Ø 52 | Cu AL

Art. no. 200114

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	400	52
	Cu/Al wire sector format	480	52
	Cu wire fine wiring	500	52
	Cu wire fine wiring or telecommunication cable		52
Length:			325
Weight:			1,340

Special cable cutter

PREMIUM

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.)

Ø 75 | Cu AL

Art. no. 200116

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	300	75
	Cu/Al wire sector format	240	75
	Cu wire fine wiring	300	75
	Cu wire fine wiring or telecommunication cable		75
Length:			370
Weight:			1,585

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

Best-seller Premium product

Cable cutters with eccentric drive

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

PREMIUM

High leverage, perfected cutting force performance, almost maintenance-free two-hand cable cutter up to 62 mm Ø, smooth-running through needlebearing eccentric drive, great range of application, comes with cog comb to clean cogs

Ø 62 | Cu AL

Art. no. 200115

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	750	62
	Cu/Al wire sector format	750	62
	Cu wire fine wiring	750	62
	Cu wire fine wiring or telecommunication cable		62
Length:			410
Weight:			2,224

Cable cutter

PREMIUM

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

Ø 80 | Cu AL

Art. no. 200119

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	1000	80
	Cu/Al wire sector format	1000	80
	Cu wire fine wiring	1000	80
	Cu wire fine wiring or telecommunication cable		80
Length:			610
Weight:			3,322

Cable cutter

PREMIUM

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

Ø 100 | Cu AL

Art. no. 200179

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	1400	100
	Cu/Al wire sector format	1400	100
	Cu wire fine wiring	1400	100
	Cu wire fine wiring or telecommunication cable		100
Length:			610
Weight:			3,322

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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

Art. no.	↔	mm²	kg	PU
200178	230	300	1,140	1

Video 200178

PDF 200178

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 EN 50182: Cross-section 150/25 mm², Ø 20 mm, 7/2.1 mm
Steel armoured tubing: Ø 50 mm

Art. no.	mm²	kg	PU
200178/S1	300	0,100	1

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.	mm²	kg	PU
200178/B	150	0,100	1

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.	mm²	kg	PU
200178/C	350	0,100	1

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.	mm²	kg	PU
200178/S	350	0,100	1

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.	mm²	kg	PU
200178/S2	200	0,100	1

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

Best-seller Premium product

Front cable cutters

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.
- Transport handle play can be set (2 grub screws 3 mm in lever)

Front cable cutter

for Copper and Alu-cable 25 mm Ø, squeeze-free cutting, optimized levertransmission

Ø 25 | Cu AL

Art. no. 200124

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	120	25
	Cu/Al wire sector format	120	25
	Cu wire fine wiring	120	25
	Cu wire fine wiring or telecommunication cable		25
Length:			245
Weight:			1,020

Front cable cutter

for Copper and Alu-cable 34 mm Ø, squeeze-free cutting, optimized levertransmission by eccentric drive system

Ø 34 | Cu AL

Art. no. 200126

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	185	34
	Cu/Al wire sector format	185	34
	Cu wire fine wiring	240	34
	Cu wire fine wiring or telecommunication cable		34
Length:			330
Weight:			1,541

Front cable cutters with eccentric drive

Front cable cutter with eccentric drive

PREMIUM

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 wearfree 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

Ø 35 | Cu AL | MAX

Art. no. 200131

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	240	35
	Cu/Al wire sector format	240	35
	Cu wire fine wiring	300	35
	Cu wire fine wiring or telecommunication cable		35
Length:			330
Weight:			1,673

Front cable cutter with eccentric drive

PREMIUM

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

Ø 55 | Cu AL | MAX

Art. no. 200151

		mm²	Ø
Cutting range:	Cu/Al wire multi wiring	550	55
	Cu/Al wire sector format	550	55
	Cu wire fine wiring	550	55
	Cu wire fine wiring or telecommunication cable		55
Length:			485
Weight:			3,493

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Hydraulic cable cutters

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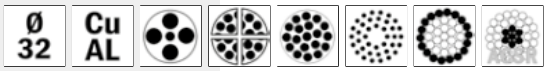
Hydraulic cable cutters

Hydraulic cable cutter „HH 32-ST“

- 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	7,000	1

single wire

multi-wire

sector-shaped

fine wire

communication/data

wire rope

armoured steel cable (SWA)

ACSR

BOLT

solid steel

solid CU

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	11,300	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

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

Best-seller Premium product

Hydraulic safety life line cable cutter

DIN EN 50110-1 HAUPA Schneidgarnituren 60.000 V

used for working under voltage acc. to VDE 0105, part 100.

Consisting of:

- Hydraulic shear with high pressure hose of 10 m, with leak-free coupling system and earth harness acc. to DIN EN 50110-1
- Double piston pump mounted on foot-pedal, with foot-operated switch
- Transport case
- Fully operational and filled with special oil

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.

Ø 85 | Cu AL

Art. no.	Ø	ND	kg	PU
216417	85	625 bar	32,000	1

Hydraulic safety life line cable cutter

PREMIUM

Ø 95 | Cu AL

Art. no.	Ø	ND	kg	PU
216421	95	625 bar	33,000	1

Hydraulic safety life line cable cutter

PREMIUM

Video 216416

Ø 120 | Cu AL

Art. no.	Ø	ND	kg	PU
216416	120	625 bar	36,600	1
216416/850	120	850 bar	36,600	1

- single wire
- multi-wire
- sector-shaped
- fine wire
- communication/data
- wire rope
- armoured steel cable (SWA)
- ACSR
- BOLT
- solid steel
- solid CU

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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

Ø 52 | Cu AL | Li-ION 18V 4Ah

Art. no.	Ø	kg	PU
216434-1	52	7,130	1
216434-1-NO	52	5,733	1
216434-1-N	52	2,817	1

Battery powered cable cutter „AS-65“

- for copper and aluminium cable
- diameter up to 65 mm

Ø 65 | Cu AL | Li-ION 18V 4Ah

Art. no.	Ø	kg	PU
216435-1	65	7,200	1
216435-1-NO	65	3,500	1
216435-1-N	65	2,900	1

Battery powered cable cutter „AS-52F“

- for copper and aluminium cable
- with blades for fine-stranded cables
- diameter up to 52 mm

Ø 52 | Cu AL | Li-ION 18V 4Ah

Art. no.	Ø	kg	PU
216436/F-1	52	7,480	1
216436/F-1-NO	52	6,081	1
216436/F-1-N	52	3,165	1

Battery powered cable cutter „AS-52ACSR“

- Diameter 18,6 mm / 120 mm²
- ACSR 19 mm
- not suitable for Cu/Al

Video 216436

Ø 18,6 | AL Fe | ACSR | Li-ION 18V 4Ah

Art. no.	Ø	kg	PU
216436-1	18,6	7,480	1
216436-1-NO	18,6	6,081	1
216436-1-N	18,6	3,165	1

Hydraulic cable cutters

Battery powered cable cutter „AS6-S20“

hydraulic for cutting telecommunications cables, cutting head can be rotated by 180°, manual return after the cut has been completed.
Scope of delivery: 1 cutting tool, 1 quick charger, 1 battery, 1 carry strap loop, in SysCon stacking box.

- 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

Video 216418

Ø 20 | Cu AL | 60 kN | 700 bar | 180° | Li-ION 18V 2Ah | SysCon

Art. no.	Ø	kg	PU
216418-1	20	6,722	1
216418-1-NO	20	5,553	1
216418-1-N	20	2,637	1

Battery powered wire 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

Ø 32 | Cu AL | 60 kN | 700 bar | 180° | Li-ION 18V 2Ah | SysCon

Art. no.	Ø	kg	PU
216419-1	32	7,640	1
216419-1-NO	32	6,471	1
216419-1-N	32	3,555	1

Scope of delivery for all battery-hydraulic cable cutters:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon or system case
incl. Insert.
For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

- single wire
- multi-wire
- sector-shaped
- fine wire
- communication/data
- wire rope
- armoured steel cable (SWA)
- ACSR
- BOLT
- solid steel
- solid CU

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

Best-seller Premium product

Battery-hydraulic cable cutter „AS6-S32ACSR“

For cutting cables with steel core (ACSR), cutting head 180° rotatable, manual return after the cut is complete.

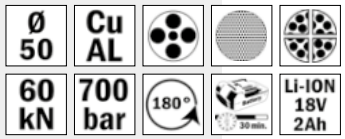
- Precise cut with little conductor deformation
- Cutting force kN: 60
- Work pressure in bar: 700
- Cutting width Ø: 32
- Cutting head 180° rotating
- Battery charging time in minutes: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- Compatible with battery Art. No. 215523 and charger Art. No. 215527
- Compatible with MAKITA 18 V charging equipment
- LED front lamp for work area illumination

Art. no.	Ø	⟷	kg	PU
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

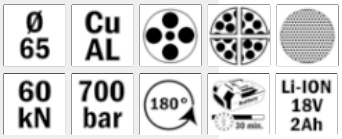
Battery-hydraulic cable cutter „AS6S-65“

- for copper and aluminium cable, multi wire
- diameter up to 65 mm

Scope of delivery:

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: 65
- 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
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, 1 quick charger, 1 battery, carrying belt, for copper and aluminium cable. 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

Video 216422

Art. no.	Ø	⟷	kg	PU
216422-1	40	385	10,289	1
216422-1-NO	40	385	8,890	1
216422-1-N	40	385	5,640	1

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Battery powered cable cutter „AS12-52“

Cutting head can be rotated by 180°, manual return, LED for battery control, 1 quick charger, 1 battery, carrying belt, 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
- ACSR
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 4 Ah

Art. no.	Ø	↔	kg	VE
216424-1	52	385	13,129	1
216424-1-NO	52	385	11,730	1
216424-1-N	52	385	8,480	1

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

Video 216428

Art. no.	Ø	↔	kg	PU
216428-1	85	385	12,949	1
216428-1-NO	85	385	11,550	1
216428-1-N	85	385	8,300	1

Scope of delivery for all battery-hydraulic cable cutters:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon or system case
incl. Insert.
For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

Battery powered cable cutter „SAS6-85“

Cutting head can be rotated by 180°, manual return, LED for battery control. For copper and aluminium cable as well as armoured steel cable, telephon cable. The unit also has 2 white LED's to illuminate the respective work area.

- Pressing force kN: 60
- Working pressure (bar): 700
- Cutting width Ø: 85
- Armoured steel cable
- Battery charging time in minutes: 120
- Battery type: Li-Ion, 18 V, 4 Ah

Art. no.	Ø	↔	kg	PU
216430-1	85	385	12,959	1
216430-1-NO	85	385	11,560	1
216430-1-N	85	385	8,310	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
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 4 Ah

Video 216428

Art. no.	Ø	↔	kg	PU
216425-1	85	385	16,149	1
216425-1-NO	85	385	14,750	1
216425-1-N	85	385	11,500	1

- single wire
- multi-wire
- sector-shaped
- fine wire
- communication/data
- wire rope
- armoured steel wire (SWA)
- ACSR
- BOLT
- solid steel
- solid CU

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

Best-seller Premium product

Hydraulic cutting tools

Art.	216418-1	216419-1	216422-1	216424-1	216428-1	216430-1	216425-1	216420-1	216423-1	216426-1	--	--
Type	AS6ST-20	AS6S-32	AS6-40	AS12-52	AS6-85	SAS6-85	AS12-S85	AS6-S50	AS6-S65	AS6-S32ACSR	--	--

Hand hydraulic cutting tools

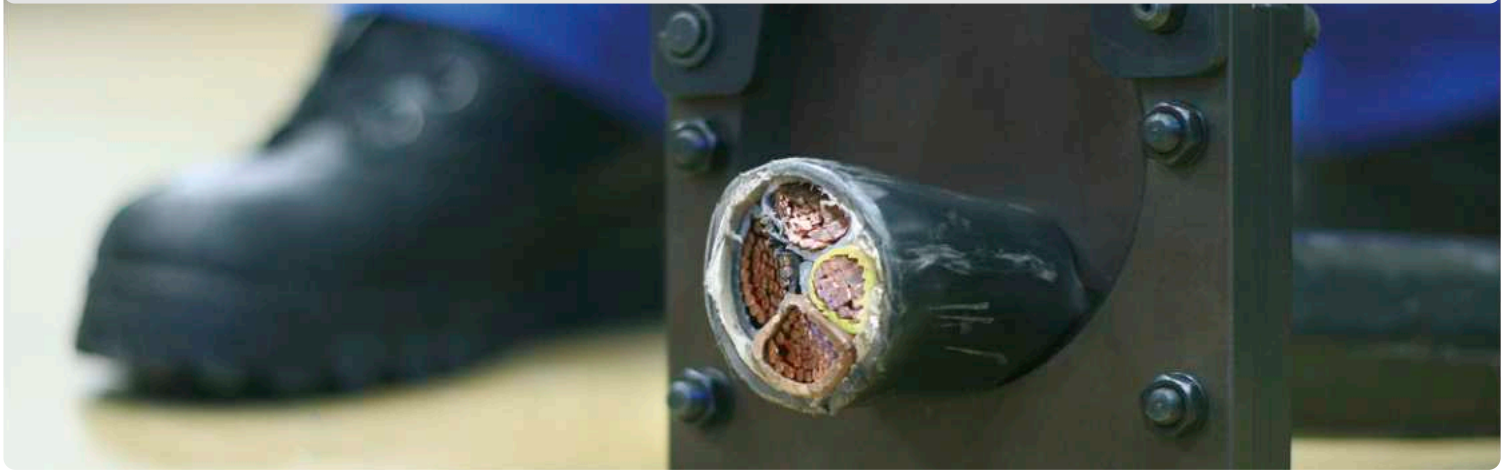
Art.	--	--	--	--	--	216404	--	--	--	--	--	--
Type	--	--	--	--	--	HS-85	--	--	--	--	--	--

Hydraulic cutting heads

Art.	--	--	--	--	--	216408	--	--	--	--	216415	216410
Type	--	--	--	--	--	KS-85	--	--	--	--	KS-95	KS120
Diameter	20	32	40	52	85	85	85	50	65	32	95	120
Head	swivel	open	swivel	swivel	swivel	swivel	open	open	open	open	open	swivel
Output force	6	6	6	12	6	6	6	6	6	6	700 bar	700 - 850 bar
Immediate motor-stop	●	●	●	●	●	●	●	●	●	●	●	●

Material

Copper	20	32	40	52	46	85	85	50	65	32	95	120
Aluminium	20	28	40	52	28	85	85	50	65	--	95	120
Underground cable	--	--	40	52	50	85	85	32	52	--	95	120
Telephone cable	--	--	40	--	85	85	85	50	65	--	95	120
ACSR	●	--	--	32	--	--	--	--	--	●	--	--
Steel wire (aluminium steel wire)	●	--	●	●	--	--	--	--	--	●	●	●
Tension wire	16	--	22	●	--	--	--	--	--	20	22	22
	20	--	25	●	--	--	--	--	--	20	25	25
	20	--	25	●	--	--	--	--	--	20	25	25
	●	--	--	●	--	--	--	--	--	●	●	●
	20	--	20	●	--	--	--	--	--	20	15	15
	20	--	25	●	--	--	--	--	--	20	20	20
Soft steel bar	(below SS41) 13 mm	--	16	25	--	--	--	--	--	--	--	--
Sheetmetal & wire armouring, Cu	20	--	--	●	--	85	85	--	--	--	95	120
Lead sheated cable	20	--	40	52	85	85	85	--	--	--	95	120



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 strip 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		0,096	1
200024	6 - 28	spare blades	0,010	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	6 - 25	spare blades	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)

Scope

- 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	0,068	1

„Profi set“ cable stripping system 4 – 70

In shockproof plastic boxes, stackable, dimensions: (L 260mm, W 154mm, H 57mm) Set: 6-piece

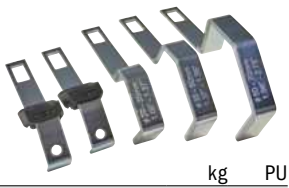
Contents:

- 201040
- 201042
- 201044
- 201046
- 201048
- 201050

Art. no.	Ø	kg	PU
201054	4 - 70	0,673	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	0,070	1
201050	50 - 70	156 x 15 x 69	0,086	1

Replacement hook blades

Suitable for cable stripping system 4 – 70 (art. no. 201040)

Art. no.	Ø	kg	PU
201052	4 - 70	0,007	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 blades	0,004	1

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

✷ Best-seller Premium product

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

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	35 - 50	Spare blades	0,004	1

Stripper standard

- For removing the sleeve from all current round cables
- Blades, titanium nitride coated, thanks to the higher cutting speed
- Lower wear, increased durability
- No need to set blades required to cutting depth
- Fixture clip for safe storage
- Housing made from high-quality, hard wearing 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 - 2.5 mm² single wire • Lengthwise cut

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	0,068	1

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

Use: For stripping all popular coaxial cables and tightening F connectors (HEX 11)
Scope: Ø 4.8 – 7.5mm F connectors (HEX 11)
Cable types:
Standard coaxial cable, e.g. TV coax, RG58U/RG59U, RG6, PVC flex 3 x 0.75mm²

Art. no.	Ø	kg	PU
201058	4,8 – 7,5 mm	0,320	1

Hex socket wrench for coax

- for items 201058

Art. no.	SW	kg	PU
201059	11	0,080	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

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Cable strippers

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.	Crimp	kg	PU
200069	RG 58-59-62-6	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 stripper 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	
200634	10 - 16	0,054	

NEW

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

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	125	4,5 - 10	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	128	4,5 - 10	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

PREMIUM

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

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

✷ Best-seller Premium product

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

Multifunktionswerkzeug inkl. Kabelschneider für Kupferkabel.
- komfortable Griffe
- präzise Abisolierung durch Formmesser
- Schneidfunktion
- Greiffunktion
- mit Griffverriegelung

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

PREMIUM

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

✷ Best-seller PREMIUM 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 blades	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
- TÜV / GS approved

Video 210696

Art. no.	⟷	mm²	kg	PU
210698	165	0,2 - 6	0,094	1

Automatic wire stripper Secura

- 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 6.0 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

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

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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	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	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		Replacement blade	0,030	1

Cable stripper Outlet 20

- For stripping round cable Ø 7.5 to 9 mm
- Insulation thickness of cable maximum 1.65 mm
- Ideal for processing NYM cables 3 x 1.5 mm to 5 x 1.5 mm²
- Coaxial cable, screened or unscreened measuring control and control cables

Suitable for connecting potential equalising, screened connection system or grounding clips.

Art. no.	↔	Ø	Cable cutout	kg	PU
210699	160	7,5 - 9	20	0,100	1

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

✸ Best-seller Premium product

Automatic cable stripper

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	0,005	1

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	0,005	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	0,413	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	0,005	1

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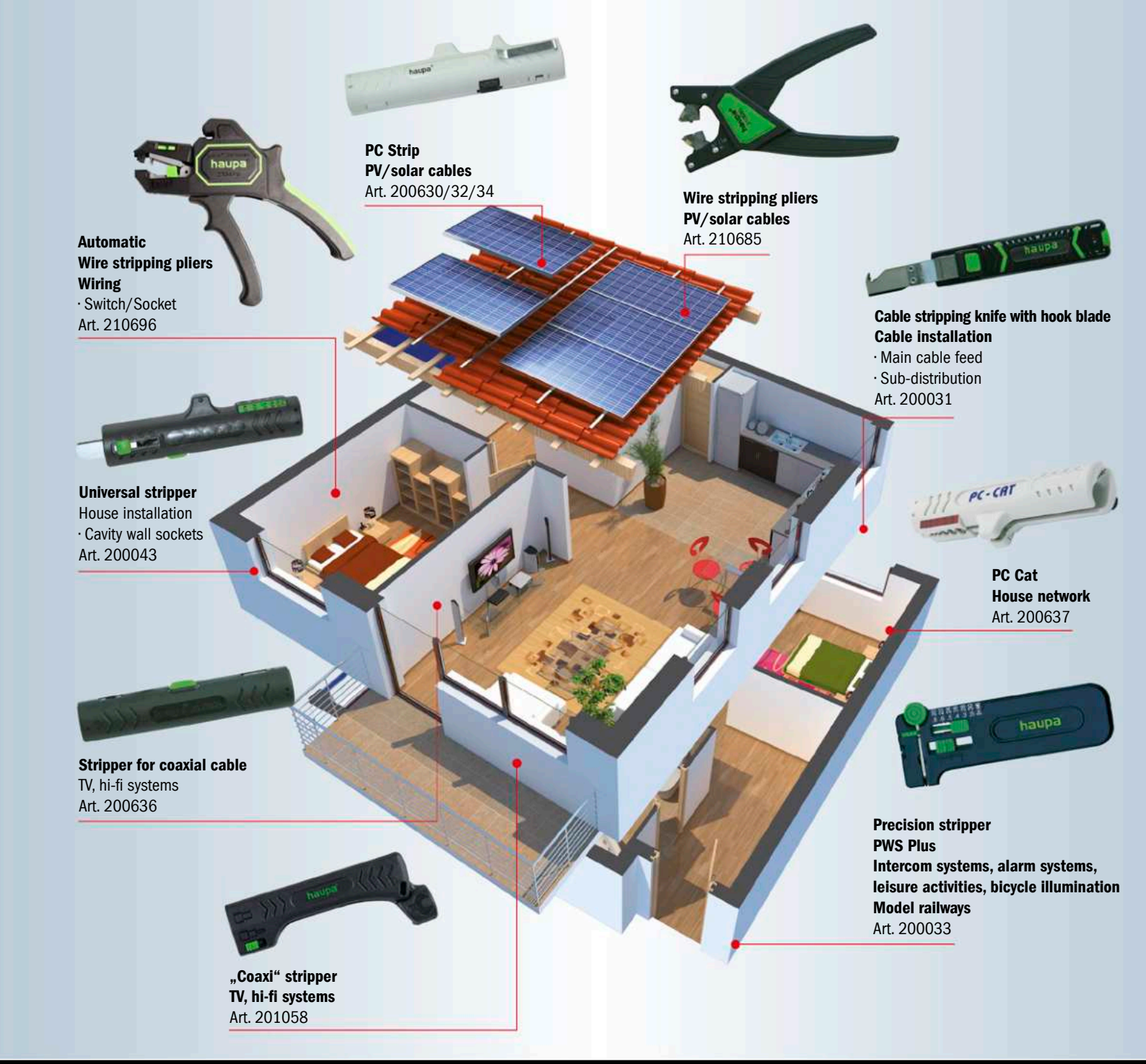

Strippers for building installation work

Stripping

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INFO

Cable strippers

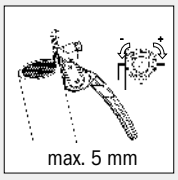
Stripping refers to the removal of the outer sleeve of the cable.
A special tool is used to first cut in a ring around and then along the length of the cable.
Cable sleeve cutters are available in a wide variety of versions.

Important:
When stripping, the insulation of the inner wires and the wires themselves may not be damaged.

Cable sheath cutter

PREMIUM

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

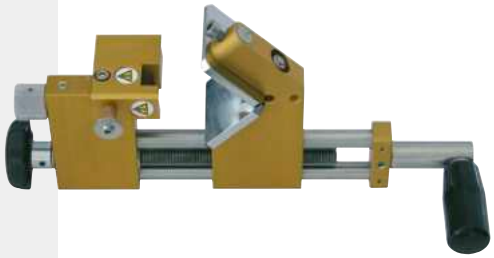
Art. no.	⟷	Ø	kg	PU
200187	260	26 - 52	0,760	1
200188	290	47 - 75	1,100	1

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 blades	0,100	5

Cable Sheath Stripper

A combination tool for all standard cross-sections in the medium-high voltage range for VPE single-core cables.
Cutting and stripping the exterior sleeve and the inner cable insulation.
Two feeds and a zero setting can be set to ensure precise stripping. The sleeve is lifted at the cutting point and this prevents damage to the construction elements below.

Video 200524

Art. no.	Ø	mm²	kg	PU
200524	15 - 55	35 - 500	0,800	1
200524/1		Replacement 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

PREMIUM

Content:
- Sleeve cutter
- Plastic prism
- Stripping device
- Silicone paste
- Edge cutter
- Key for changing blades

Art. no.	mm²	kg	PU
200522	35 - 500	0,800	1

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

Best-seller Premium product

Pressing and crimping

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... convincing solutions

1.5
2.5
4-6
0.5

Crimping pliers for Photovoltaic

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

with locking device, with adjustable crimp pressure, chrome plated **square crimp** (for MC3 (multi contact)), **roll crimp** (for MC4 (multi contact))

Art. no.	mm²		kg	PU
211657	2,5 - 6	for MC3	0,560	1
211659 ✷	2,5 - 6	for MC4	0,560	1

Crimping pliers HUPstar Photovoltaik

for photovoltaic connectors. Crimp pliers for industrial users, revolving precision impression dies with parallel feed, changeable dies.
Pressing star 213084/E
Photovoltaik: Amphenol Helios H4: 2,5 / 4 / 6, for MC3 (multi contact): 2,5 / 4 / 6,
for MC4 (multi contact): 2,5 / 4 / 6, Tyco Solarlok: 1,5 / 2,5 / 4 / 6

Art. no.	⟷	mm²	kg	PU
213084	230	1,5 - 6	0,650	1
216084/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 „Multi - Contact“ connectors MC3
2,5 + 4 + 6 mm², AWG 13/11/10
Crimping dies for „Multi - Contact“ connectors MC4
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.	Width	Height	Depth		kg	PU
212005	260	40	200	for MC3 + MC4	1,150	1

HAUPA Crimp System for Photovoltaics

Crimp System Pliers for Photovoltaics
The basic hardware of the carrying case consists of:
- one pair of pliers, chromium-plated without crimping pliers insert
- one allen wrench (A/F 2.5 mm)
- one open-jawed wrench (A/F 7)
- 2 pieces spare screws (M4 x 10/M4 x 16 mm)

Specifications:
- Special crimping pliers for crimping solar contacts of almost all types of connector systems
- Guaranteed exact, solder-free, electric connections
- Parallel closing of the crimping dies
- 30 % reduction of hand force through optimized leverage
- Forced latching for reliable crimping, releasable
- Crimp pressure adjustable
- Long lever arm allowing single-hand and two-hand control
- Easy change of the crimping pliers inserts, Locator fitting option for the determination of the connector position
- Several crimping positions in one crimp die assembly
- Design: chromium-plated with black plastic handle
- Material: specially heat-treated special steel

Art. no.	mm²		kg	PU
212200	6	6 pcs.	0,998	1

Crimp inserts for "Huber & Suhner" contacts		
212206	2,5 + 4 mm², AWG 13/11	1
212208	4 + 6 mm², AWG 11/10	1
Crimp inserts for "multi-contact" contacts		
212210	for MC3, 2,5 + 4 + 6 mm², AWG 13/11/10	1
212212	for MC3, Locator	1
Crimp inserts for "multi-contact" contacts		
212214	for MC4, 2,5 + 4 + 6 mm², AWG 13/11/10	1
212216	for MC4, Locator	1
Crimp insert for "Hirschmann" contacts		
212218	2,5 + 4 + 6 mm², AWG 13/11/10	1
Crimp insert for "Tyco" contacts		
212220	Tyco 1,5 + 2,5 + 4 + 6 mm²	1
212222	Locator for Tyco	1
Dies for Solar contacts Amphenol		
212226	2,5 + 4 mm², AWG 13/11	1
212228	Locator for Amphenol	1

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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

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	4	for MC3 and MC4	0,900	1

Assembly tool for MC4 connectors (multi contact)

For assembling and loosening the cable glands of MC4 connectors (multi contact), easy loosening of the locks on MC4 housings, made of glass-fiber reinforced plastic

Art. no.		kg	PU
110806	for MC4	0,048	1

HUPsolarKit 3

5-piece set in practical plastic case

Contents:
211225 Cable cutters VDE “HUPtriCut” 160 mm for Ø 8 mm
201060 Cable stripper “HUPstripPV” | 2,5 – 6,0 mm²
110806 assembly tool for MC4 (multi contact, 2 pieces)
211659 Crimping pliers photovoltaic | for MC4 (multi contact) 2,5 – 6 mm²
330046/K Case with insert

Art. no.	Set	kg	PU
330046	5	1,320	1

HUPsolarKit 4

5-piece set in practical plastic case

Content:
211225 Cable cutters VDE “HUPtriCut” 160 mm for Ø 8 mm
201060 Cable stripper “HUPstripPV” | 2,5 – 6,0 mm²
110806 assembly tool for MC4 (multi contact, 2 pieces)
213110 HUPcompact “HC06” for MC4 connector (multi contact) 4 – 10 mm²
330048/K Case with insert

Art. no.	Set	kg	PU
330048	5	1,320	1

HUPsolarKit 5

5-piece set in practical belt pouch
Content:
201085 Cable cutter “HUPtriCut” dip-insulated 160 mm for Ø 8 mm
201060 Cable stripper “HUPstripPV” | 2,5 – 6,0 mm²
110806 assembly tool for MC4 (multi contact, 2 pieces)
213110 HUPcompact “HC06” for MC4 connector (multi contact) 4 – 10 mm²
220105 Belt bag “ToolBelt” with 8 compartments

Art. no.	Set	kg	PU
330050	5	0,700	1

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

Best-seller Premium product

Crimping pliers for end sleeves

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 ✷	140	0,25 - 2,5	0,202	1
210824 ✷	220	0,75 - 16	0,304	1
212214 ✷	225	10 - 35	0,277	1

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	0,533	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

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Crimping pliers for end sleeves

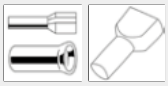
HUPcompact „HC02”

or 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)

Art. no.	mm²	kg	PU
213088	0,25 - 16	0,480	1

Crimping pliers HUPsquare 10

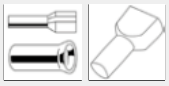
for end sleeves, precise square pressing profile, automatic setting to the conductor cross-section, unlockable forced lock, guarantees connections that meet DIN, high transmission and ergonomically shaped plastic handles for fatigue free working, **square pressing**



Art. no.	mm²		Twin (mm²)	kg	PU
212804	0,08 - 10	square	2 x 4	0,413	1

Crimping pliers HUPsquare 16

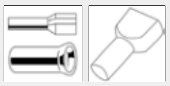
for end sleeves, precise square pressing profile, automatic setting to the conductor cross-section, unlockable forced lock, guarantees connections that meet DIN, high transmission and ergonomically shaped plastic handles for fatigue free working, **square pressing**



Art. no.	mm²		Twin (mm²)	kg	PU
212806	0,5 - 16	square	2 x 6	0,413	1

Crimping pliers

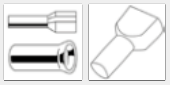
for end sleeves, precise square pressing profile, automatic setting to the conductor cross-section, unlockable forced lock, guarantees connections that meet DIN, high transmission and ergonomically shaped plastic handles for fatigue free working, **square pressing**, grooved and 2 smooth jaws for better insertion of the sleeve.



Art. no.	mm²		Twin	kg	PU
210804	0,08 - 10	square	2 x 4	0,360	1

Crimping pliers

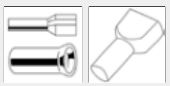
for end sleeves, precise crimping profile, automatic setting to the conductor crosssection, unlockable forced lock, guarantees connections that meet DIN, high transmission and ergonomically shaped plastic handles for fatigue free working, **square pressing**



Art. no.	mm²		Twin (mm²)	kg	PU
211816 ✸	0,08 - 16	square	2 x 6	0,413	1

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, **hexagon pressing**



Art. no.	mm²		Twin (mm²)	kg	PU
211818	0,08 - 16	hexagonal	2 x 10	0,413	1

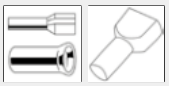
PU Packing unit PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Best-seller Premium product

Crimping pliers for end sleeves

Front-Crimping pliers

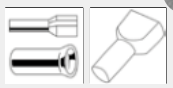
for end sleeves, precise square pressing profile, automatic adjustment on wire diameter, frontal approach allows working in small areas, sidewise approach for end sleeves up to 2.5 mm², with locking device, high transmission and ergonomically formed plastic handle, **square pressing**



Art. no.	mm²		Twin (mm²)	kg	PU
210819	0,08 - 10	square	2 x 4	0,489	1
211810	0,08 - 16	square	2 x 6	0,489	1

Crimpzange

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 Komplett-Set im Koffer

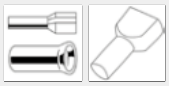
in case:
1 „Quadro“-pliers incl. magazine
2 spare magazines

Art. no.		mm²	kg	PU
210682	170	0,5 - 2,5	0,713	1

Pneumatic crimpers

HAUPA Pneumatic Crimper

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

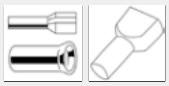


Video 217010-40

Art. no.	⟷	mm²	kg	PU
217030	200	0,25 - 2,5	0,720	1
217040	200	4 - 10	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	200	0,25 - 2,5	5,000	1
217020	200	4 - 10	5,000	1

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

Best-seller Premium product

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MADE IN GERMANY
0804

Crimping pliers for insulated crimp cable lugs

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 >2.5 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

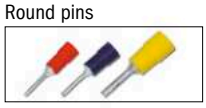
Round terminals

Flat terminals

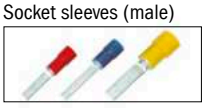
Socket sleeves (female)

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**

Art. no.	Ø	kg	PU
213090	0,1 - 6	0,578	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 boltcutters and wire stripper with threaded bolt-cutter, **oval pressing**

Art. no.	mm²	kg	PU
210808 ✷	1,5 - 6	0,198	1

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

✷ Best-seller Premium product

Crimping pliers for 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.	Crimp	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.	Crimp	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 Koax

for coaxial connectors. Crimp pliers for industrial users, revolving precision impression dies with parallel feed, changeable dies.

Pressing star 213082/E
Coax:
Hexagon crimp, BNC, TNC, SNB, SNC, SMS, SMA, MCX, 1.07 to 10.9 mm

Art. no.	↔	kg	PU
213082	230	0,650	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.

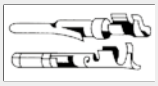
Crimping pliers

short construction, for twisted contacts, 20% angled handy form, with locking device, with adjustable crimp pressure, **square pressing**

Art. no.	Crimp	kg	PU
211656	0,14 - 4	0,367	1
211658	1,5 - 6	0,372	1

Crimping pliers

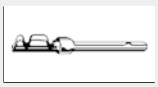
short construction, for rolled contacts, 20% angled handy form, with locking device



Art. no.	Crimp	kg	PU
211660	0,5 - 1,5	0,370	1

Crimping pliers

short construction, for D-Sub-connectors, 20% angled handy form, with locking device



Art. no.	Crimp	kg	PU
211662	0,08 - 0,5	0,365	1

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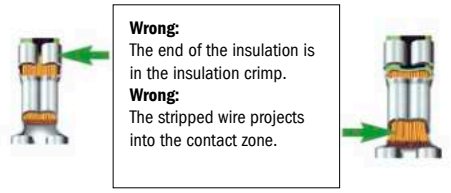
Crimping pliers for uninsulated open brass cable lugs

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”.



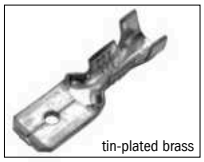
Wrong:
The end of the insulation is in the insulation crimp.
Wrong:
The stripped wire projects into the contact zone.

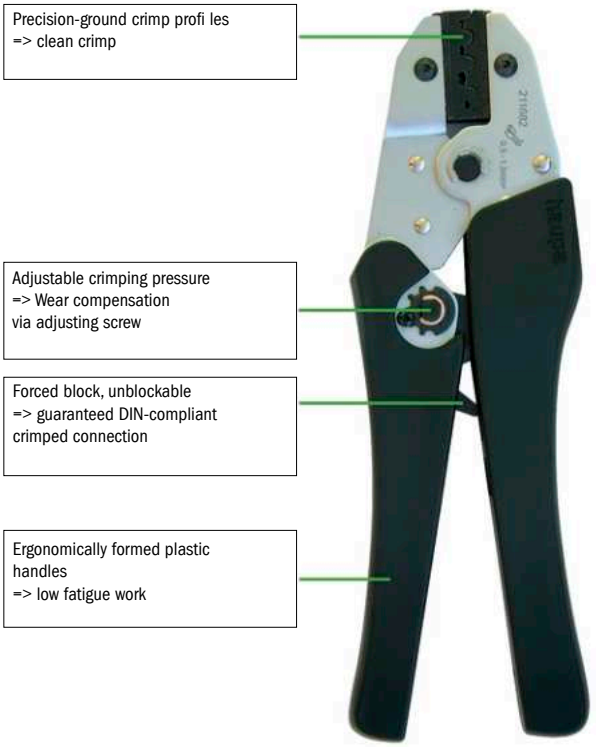
Correct:
The end of the insulation and the stripped wire are crimped accurately.
To facilitate accurate crimping a positioning aid is available for crimping pliers.

Socket sleeves (female) with cable stop

Socket sleeves (female) with cable stop and side cable connection

Flat terminals





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	0,05 - 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**

Art. no.	Ø	kg	PU
213094	0,5 - 6	0,490	1

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

✷ Best-seller Premium product

Crimping pliers for uninsulated crimp cable lugs

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**

DIN 46234 | DIN 46341

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**

DIN 46234 | DIN 46341

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**

Standard Cu | Standard Cu | DIN 46234 | DIN 46341

Art. no.	Ø	kg	PU
213092	0,75 - 10	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

Standard Cu | Standard Cu | DIN 46234 | DIN 46341 | Ni

Art. no.	mm²	kg	PU
210771	0,75-1-2,5-4-6 0,75 - 6	0,478	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

Standard Cu | Standard Cu | DIN 46234 | DIN 46341 | Ni

Art. no.	mm²	kg	PU
210772	1-2,5-4 > 6-10 1 - 10	0,478	1
210774	1 > 2-6-10-16 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

Standard Cu | Standard Cu | DIN 46234 | DIN 46341

Art. no.	mm²	kg	PU
210799	0,5 - 16	0,903	1

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INFO

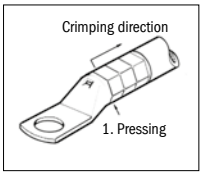
Crimping pliers for uninsulated tubular cable lugs

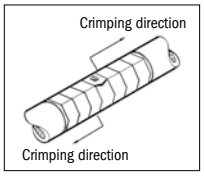
1. Choosing the connector
To achieve a standard-compliant connection it is necessary to choose the correct connector for the application and the right cable cross section.

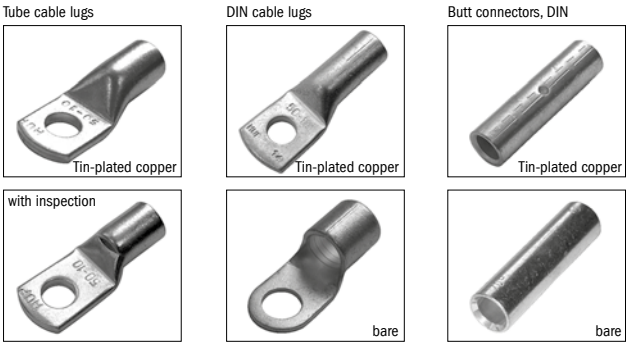
2. Stripping
Before notching, the cable must be stripped according to the insertion length (+10% due to change in length of the crimping sleeve.

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		0,75-1-2,5-4-6	0,75 - 6	0,478	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		1-2,5-4 > 6-10	1 - 10	0,478	1
210774		1 > 2-6-10-16	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

Art. no.		mm²		kg	PU
210830	✸	0,75 - 16	standard	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

for uninsulated “Standard” tube terminals/connectors and tube terminals for fine-wire cables, with integrated rotatable profile disc, **mandrel shape pressing**, with telescopic grips, also suited for thinned, compacted conductors

Art. no.	mm²		kg	PU
210836	50 - 120		5,280	1
210838	120 - 240		5,200	1
210840	185 - 400		5,200	1

Crimping pliers

with built-in rotable profile disk, **hexagon 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

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

✸ Best-seller Premium product

Crimping pliers for modular plugs

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.	Crimp	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.	Crimp	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.	Crimp	kg	PU
210857	RJ11 6(4), RJ12 6(4), RJ45	0,471	1

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.	Crimp	kg	PU
210871	RJ11 6(4), RJ12 6(4), RJ45, RJ10 4(4), RJ14	0,520	1

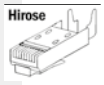
Crimping pliers for modular plugs

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

for crimping pliers 213000



Art. no.	Crimp	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

PDF

213000

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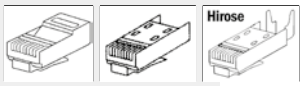
Crimping pliers for modular plugs

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

Network range

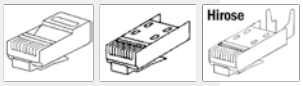
se with insert. With tools for cable stripping, cutting, crimping and applying to strips, sockets or fields.

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.	kg	PU
300033	0,700	1

Dies

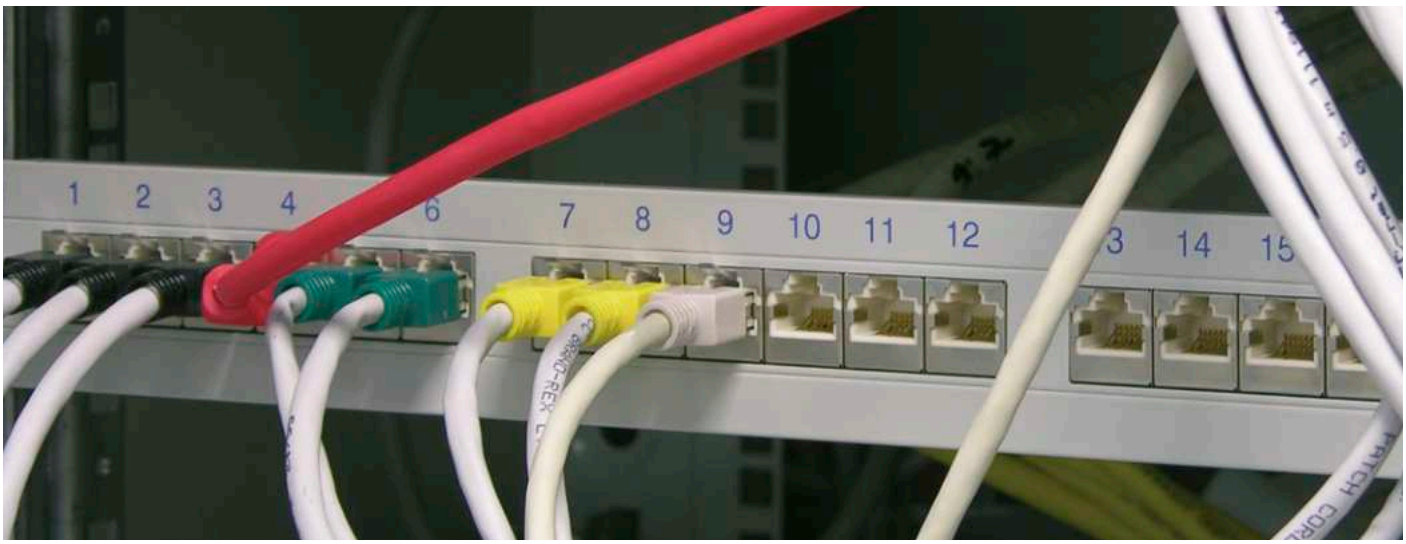
for crimping pliers 213020



Art. no.	Crimp	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

PDF 213000

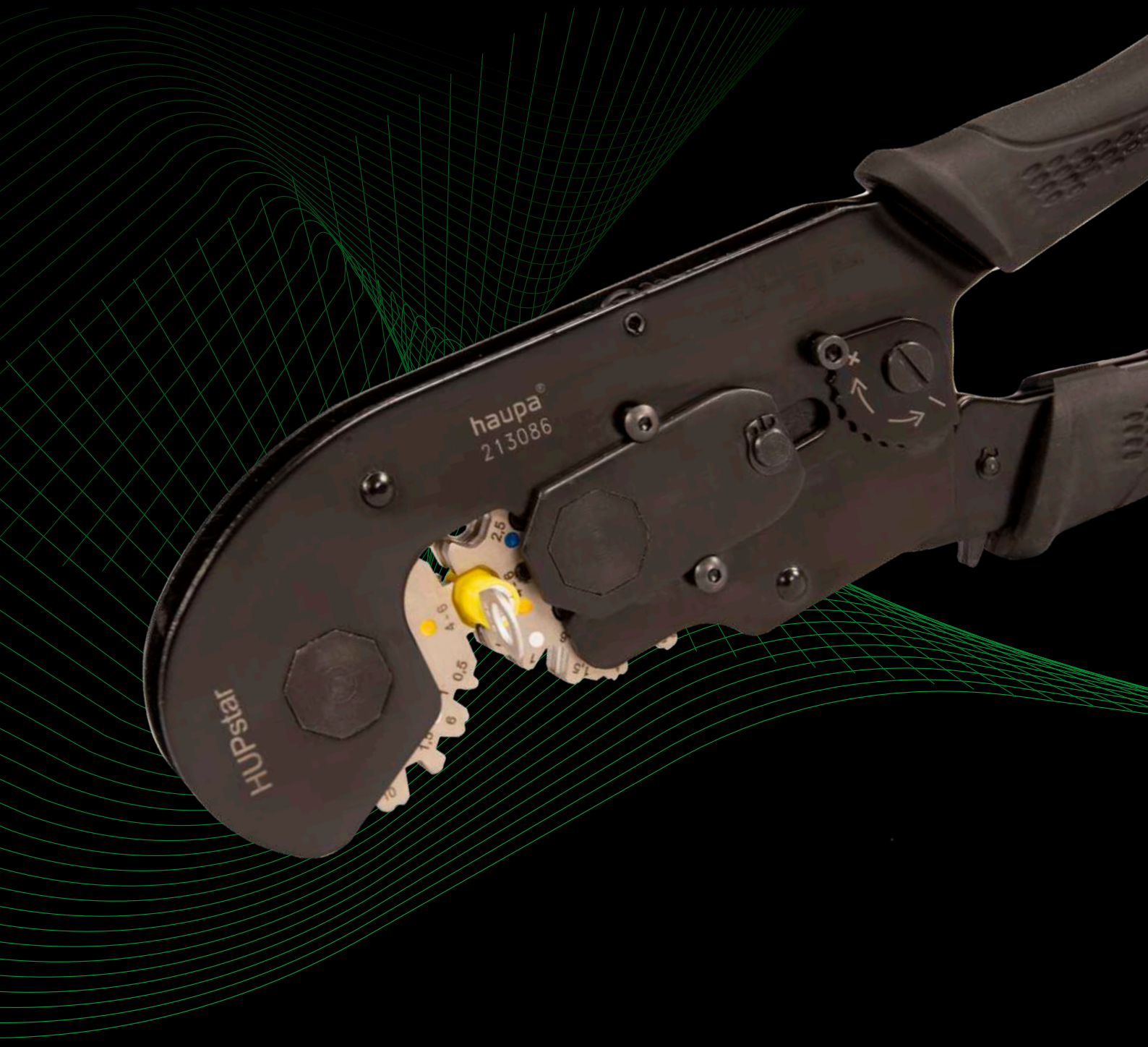
PDF 213020



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

Best-seller Premium product

Multi-functional pliers



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INFO

Crimp stars for open and closed tool frames

Crimping pliers HUPstar from HAUPA

When it comes to high-end crimping technology for professional, industrial users, with the HUPstar HAUPA has succeeded in introducing a range which uses 3 different frame types to handle all common connection pressings simply by quickly and reliably replace the relevant star. Thus making it the ideal complete tool for your tool case and in the workshop.

7 versions of HUPstar are already permanent components of the range:

1. End sleeves
   Insulated crimp-style cable lugs
   Ring cable lugs (DIN 46234 / DIN 46341)
2. End sleeves 0.14 – 16 mm²
   Open brass cable lugs
3. Coaxial:
4. Photovoltaics / Solar
5. Fibre Optic Connector
6. Twisted contacts, square
7. Automotive contacts

The star can be changed in just 30 seconds!

The colour code on the stars enables fast and correct assignment. The extremely precise parallel feed and the eroded precision crimp profile mean that this product has been very well received by the industry. Not just thanks to the high quality processing of the crimp star which is, thanks to the surface properties for around 80,000 precision crimps. After all a precise and safe normed crimp is the guarantee for complicationfree, high quality and long-lasting connections.

Ergonomically, the HUPstar can, thanks to the short construction of the handles and the rather small opening angle, also be operated quickly, safely and gentle to joints even with small hands. Due to the innovative manufacturing procedure, individual stars, designed for industrial customers, can also be made without additional costs.

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, closed-frame design

Art. no.	↔	kg	PU
213077	230	0,510	1

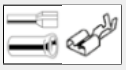
Crimping pliers „HUPstar"

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	0,650	1

Crimping pliers „HUPstar"

Pressing star 213080/E:
End sleeves:
0.14-0.25 / 0.25-0.5 / 1 / 1.5 / 2.5 / 4 / 6 / 10 / 16
Open non-insulated brass cable lugs:
0.14-0.25 / 0.25-0.5 / 1 / 1.5 / 2.5 / 4 / 6



Art. no.	↔	kg	PU
213080	230	0,650	1

213086/E

0,5	0,1-0,25	0,25
0,75	0,5-1,0	0,5
1,5	1,5	1,0
2,5	2,5	1,5
4,0	4,0	2,5
6,0	6,0	4,0
10,0	-	6,0
-	-	10,0

213080/E

0,14-0,25	0,14-0,25
0,25-0,5	0,25-0,5
0,75	0,75
1,0	1,0
1,5	1,5
2,5	2,5
4,0	2,54
6,0	6,0
10,0	-
16,0	-

213082/E

1,07
1,2
1,46
1,69
1,72
1,75
2,54
3,25
6,48s
7,0
8,1
8,23
9,73
10,9

213098/E

Fibre Optic
1,69
2,5
3,0
3,25
3,65
4,2
4,52
4,95
5,0
6,5
10,9

213102/E

0,1
0,14
0,25
0,34
0,5
1,0
1,5
2,5
4,0
6,0
10
Locator for
ø 1,6
ø 2,5
ø 4,0

213084/E - Photovoltaic

Amphenol	Multi Contact	Multi Contact	Tyco
2,5	2,5	2,5	1,5
2,5	2,5	2,5	1,5
6,0	6,0	6,0	4,6

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

Best-seller Premium product

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	0,650	1

Crimping pliers HUPstar Photovoltaic

Pressing star 213084/E
Photovoltaics:
Amphenol Helios H4: 2,5 / 4 / 6
Multi-Contact MC3: 2,5 / 4 / 6
Multi-Contact MC4: 2,5 / 4 / 6
Tyco Solarlok: 1,5 / 2,5 / 4 / 6

Art. no.	⟷	kg	PU
213084	230	0,650	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	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	0,650	1

Crimping pliers „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	0,650	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	Dies	0,160	1

HUPstar

End sleeves 0,25 - 16 mm²
Socket sleeves 0,25 – 6 mm²

Art. no.		kg	PU
213080/E	Dies	0,160	1

HUPstar „Coaxial”

Coaxial
BNC, TNC, SNB, SNC, SMS, SMA, MCX, 1,07 - 10,9 mm

Art. no.		kg	PU
213082/E	Dies	0,160	1

HUPstar „Photovoltaic”

for art. 213077
Photovoltaics / Solar
Amphenol Helios H4 2.5 - 6, multi-contact MC3/ MC4 2.5 - 6.0
Tyco Solarlok, 1.5 – 6 mm²

Art. no.		mm²	kg	PU
213084/E	Dies	1,5 - 6	0,160	1

HUPstar „fibre optic”

Fibre optic connector
1.62; 2.5; 3; 3.25; 3.65; 4.2; 4.52; 4.95; 5; 6.5; 10.9

Art. no.		kg	PU
213098/E	Dies	0,170	1

HUPstar „Twisted contacts, square”

for frame Art. no. 213077
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	Dies	0,170	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	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

Content:
Art. 211690
Art. 210763/E
Art. 210764/E
Art. 210765/E
Art. 210761/E

Video 211692

Art. no.	Set	kg	PU
211692 ✷	5	0,900	1

Crimping pliers X-Crimp

Crimping pliers used to quickly change HAUPA precision pressing inserts, including dies article 210761/E.

- 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

Art. no.		kg	PU
211690	210761/E	0,566	1

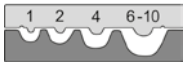
Crimping dies for insulated crimp cable lugs

for insulated crimp cable lugs, **oval pressing**

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**



Art. no.	mm²	kg	PU
210764/E	1 - 10	0,111	1

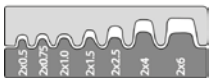
Crimping dies for end sleeves

for end sleeves, **trapezoid pressing**

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

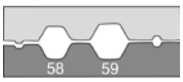
for TWIN-end sleeves, **trapezoid pressing**



Art. no.	mm²	kg	PU
211676/E	0,5 - 6	0,050	1

Crimping dies for coaxial cable

for coaxial cable, **hexagon pressing**



Art. no.	Crimp	kg	PU
210767/E	RG 58-59-62-6	0,050	1

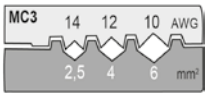
Crimping dies for flat connectors

for flat connectors, uninsulated open brass cable lugs, **roll pressing**

Art. no.	mm²	kg	PU
210762/E	0,5 - 6	0,111	1

Crimping dies for photovoltaic MC3 (multi contact)

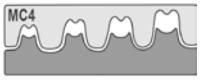
for „multi-contact“ contacts



Art. no.	mm²		kg	PU
211657/E	2,5 - 6	for MC3	0,050	1

Crimping dies for photovoltaic MC4 (multi contact)

for „multi-contact“ contacts



Art. no.	mm²		kg	PU
211659/E	2,5 - 6	for MC4	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	0,56	1

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

✷ Best-seller Premium product

Multi-function pliers

Crimpset MULTI

nnovative 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.	Width	Height	Depth	kg	PU
211960	260	40	200	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 1	1
211964	End sleeves 16 - 35 mm²	1
211965	Sockets 0,5-2,5	1
211990	Coax, Thinnet, Mini-UHF, BNC/TNC RG 58, RG 174	1
211991	Coax, BNC/TNC RG 174, RG 179, small coaxial connectors	1
211992	SMA, SMB, Mini-59, Mini-UHF, BNC/TNC RG 6, RG 6 Quad	1
211993	Coax, CATV “F” Typ, BNC/TNC RG 6, RG 6 Quad	1
211994	N-Type RG 8, RG 11	1
211995	Coax, N-Typ RG 8, RG 11, RG 213, RG 216	1
211996	Fibre optic SMA	1
211997	Fibre optic SMA, SMB, SFR, ST, SC Typ	1
211968	RJ 45 - 8P8K, Steward Connectors, 22-24 AWG	1
211969	RJ 11, RJ 12 - 6P6K, Steward Connectors, 22-24 AWG	1
211970	Telephone 4P4K, AMP+Steward Connectors, 22-24 AWG	1
211971	RJ 45 - 8P8K, AMP, 22-24 AWG	1
211972	RJ 11, RJ 12 - 6P6C, AMP, 22-24 AWG	1
211973	RJ 11, DEC MMJ - 6P6K, AMP, 22-24 AWG	1
211980	RJ 45 - 8P8K, short, Steward Connectors, STP 22-24 AWG	1
211981	RJ 45 - 8P8K, long, Hirose, STP 22-24 AWG	1
211982	RJ 45 - 8P8K, short, Hirose, STP 22-24 AWG	1
211985	RJ 45 - 8P8K, AMP, Molex, for Ø 6,0 mm, STP 22-24 AWG	1
211998	insulated terminals 0,5-6,0 mm²	1
211999	unisolated terminals 0,5-6,0 mm²	1
212000	Coax RG58-59-62-71	1
212007	for MC3 connectors (multi contact)	1
212008	for MC4 connectors (multi contact)	1

Elektric crimper

HAUPA electric crimper

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

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

Video 217050

Art. no.	mm²	kg	PU
217050	6 - 50	10,000	1

Dies for electro crimper 217050

217052	rolled contacts 0,14-1/1,5/2,5/4 mm²	1
217056	rolled contacts 0,1-1,5 mm²	1
217058	rolled contacts 0,1-1,5 mm²	1
217060	rolled contacts 0,5-6 mm²	1
217062	end sleeves 0,25-6mm	1
217064	insulated terminals 0,5-6 mm² symmetric	1
217066	insulated terminals 0,5-6 mm² asymmetric	1
217068	tube terminals 0,34-2,5 mm²	1
217070	tube terminals “Super flex” 4-10 mm²	1
217072	tube terminals “Standard” 4-10 mm²	1
217074	crimping terminals 4-10 mm²	1
217076	crimping terminals 0,5-10 mm²	1
217078	protection cover for 217056, 217060	1
217080	protection cover for 217070, 217072, 217074, 217076	1
217082	protection cover for 217068	1
217084	protection cover for 217062	1
217086	protection cover for 217064, 217066	1
217088	Locator for 217060, socket sleeves 6,3 mm	1
217090	Locator for 217056, 217058, 217060, socket sleeves 4,8 mm	1
217092	Locator for 217056, socket sleeves (female) 2,8x5 mm	1
217094	Locator for 217056, socket sleeves (female) 2,8x6 mm	1
217096	Locator for 217060, socket (male) 6,3 mm	1
217098	Locator for 217060, socket (male) 6,3 mm HN	1

haupa®

... convincing solutions

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

Product-specific features
- 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, **oval pressing**, DIN 46234

Art. no.	mm²	kg	PU
215026	10	0,039	1
215028	16	0,039	1

Crimping dies

noninsulated crimping terminals, **hexagonal pressing**, DIN 46234

Art. no.	Cu	Al	KZ	kg	PU
215030	6	-	5	0,100	1
215032	10	-	6	0,100	1
215034	16	10	8	0,100	1
215036	25 - 25	16	10	0,150	1
215038	35 - 35	25	12	0,150	1
215040	50 - 50	35	14	0,150	1

Crimping dies

for crimping terminals DIN, **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

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

Best-seller Premium product

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.

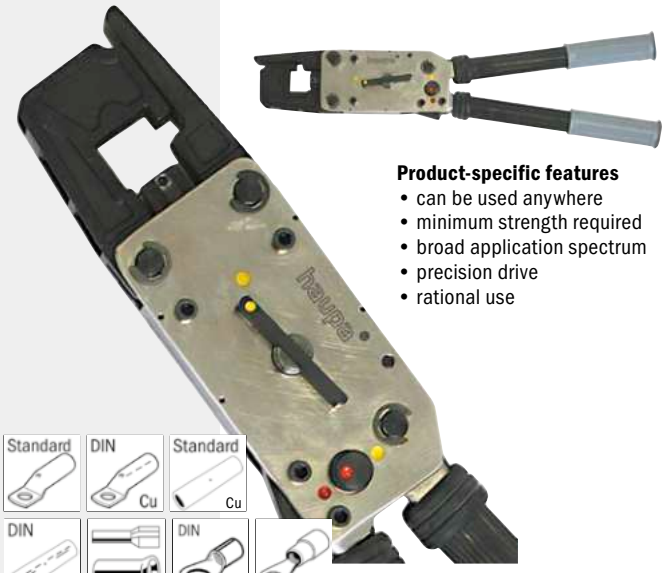
Crimping stroke and pressure (to approx. 5.5 t) are created by several hand lever movements. The manual force required is low due to the high efficiency of the system. The press and the connecting parts can only be separated from one another when the crimp is complete. This drive system ensures that 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.

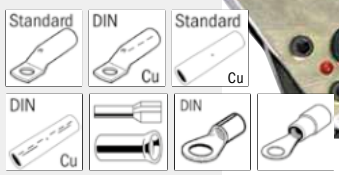
Only then does the actual crimping process begin with the hand lever. When the required crimping depth has been reached the press releases pressure spontaneously and the hinged cover can be opened to remove the connector. The crimping process can be interrupted if an error has been made in the choice 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.

Crimping 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



Product-specific features
- 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

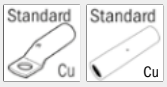
Metal box

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

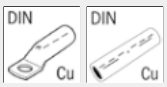
Crimping dies

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.	Cu	Al	KZ	kg	PU
215142	-	10 - 50	6 - 16	0,128	1
215144	16 - 35	16 - 25	8 - 12	0,130	1
215146	25 - 50	25 - 35	10 - 14	0,130	1
215148	95	70	18	0,130	1
215150	120	-	20	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

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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.

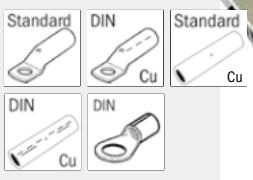
By turning the wheel on the handle in an anti-clockwise direction the crimping inset can be transported directly to the installation on the connecting part. Only then does the actual crimping process begin with the hand lever. When the required crimping depth has been reached the press releases the pressure 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

Product-specific features
- 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

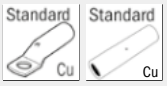
Metal box

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

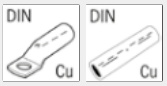
Crimping dies

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

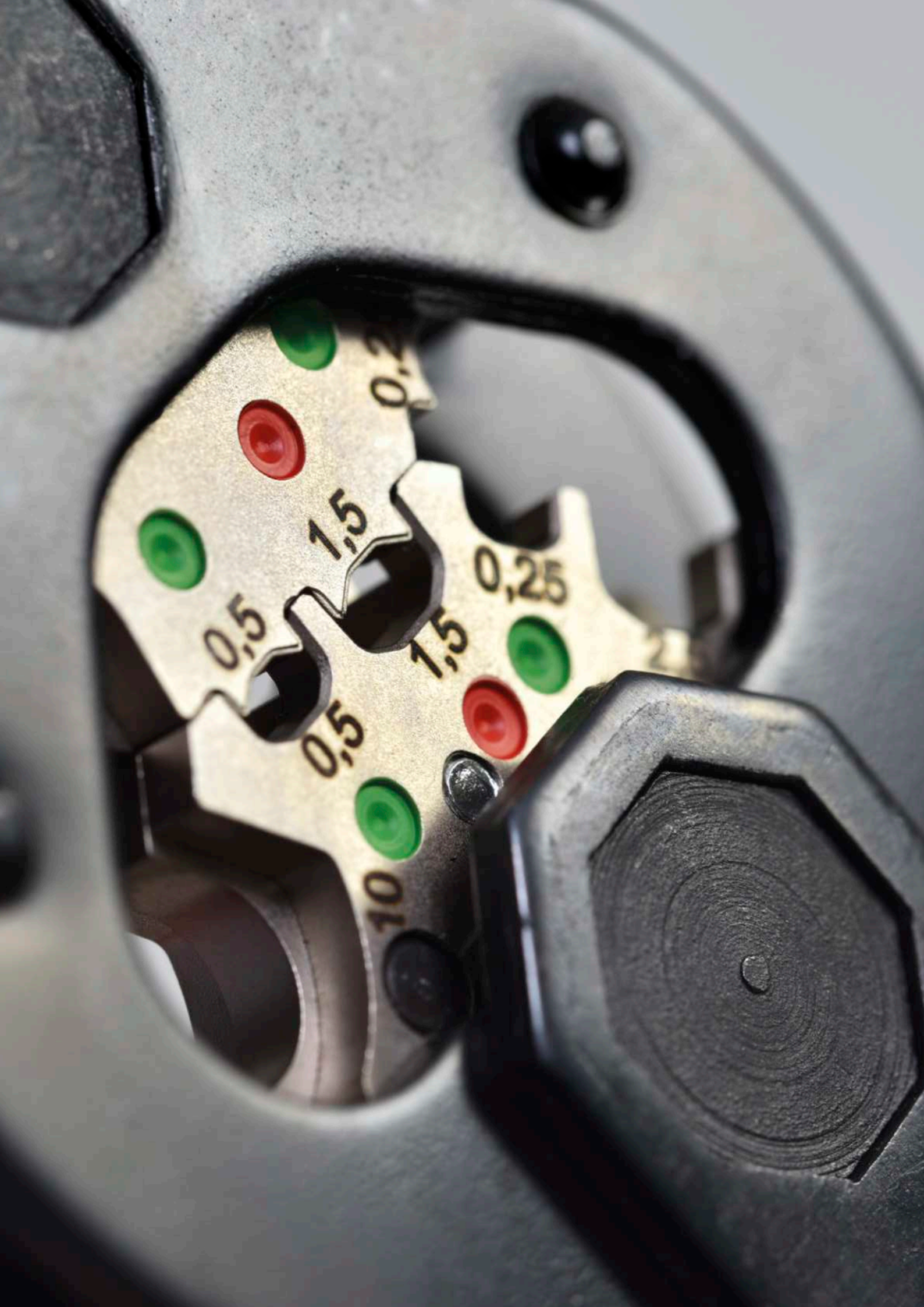
for crimping terminals DIN, **hexagonal pressing**



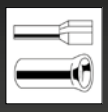
Art. no.	Cu	Al	KZ	kg	PU
215230	10	-	6	0,350	1
215232	16	-	8	0,330	1
215234	25	16	10	0,328	1
215236	35	25	12	0,330	1
215238	50	35	14	0,326	1
215240	70	50	16	0,326	1
215242	95	70	18	0,321	1
215244	120	-	20	0,300	1
215246	150	95 - 120	22	0,305	1
215248	185	150	25	0,305	1
215250	240	185	28	0,290	1

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

Best-seller Premium product


1,5
0,25
0,5
1,5
0,5

Pictograms cable connectors


End sleeves

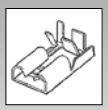
TWIN end sleeves

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

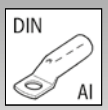
Hirose connectors for modular connectors

non-insulated cable lugs DIN 46234

non-insulated connectors DIN 46341

standard tubular terminals

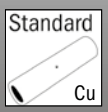
DIN tubular terminals CU



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

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 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

haupa®

... 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

Hydraulics for interchangeable pressing tools, crimping head can be rotated by 180°, with fast opening, manual return flow after perfect pressure.

- for 4 different interchangeable heads (item no. 216761, item no. 216762, item no. 216763, item no. 216764)
- Heads can be changed easily
- Can be locked using 2 extractable pins
- 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
- 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.

Video 216760-1

60 kN | 700 bar | 180° | Li-ION 18V 2Ah | SysCon | Sensor Technik

Art. no.	↔	kg	PU
216760-1	315	6,728	1
216760-1-NO	315	5,329	1
216760-1-N	315	2,413	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

300-06

6-300 | 6-300 | 16-300 | 6-300 | 6-300 | 16-300

Art. no.	mm²	↔	kg	PU
216761	6 - 300	140	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

10-240 | 10-240 | 50-240 | 50-240 | 10-240

Art. no.	mm²	↔	kg	PU
216763	10 - 240	130	1,200	1

Cutting headstock „U-KS6-S50“

for copper and aluminium cable

Ø 50 | Cu AL

Art. no.	Ø	↔	kg	PU
216762	50	233	2,800	1

Cutting headstock „U-KS6-S65“

NEW

for copper and aluminium cable

Ø 65 | Cu AL

Art. no.	mm²	↔	kg	PU
216762/65	65	233	3,300	1

Cutting headstock „U-KS6-S32ACSR”

NEW

for copper and aluminium cable

Ø 32 | AL Fe | ACSR

Art. no.	mm²	↔	kg	PU
216762/32ACSR	32	233	2,800	1

Punching headstock „U-S-6“

without inserts, including tension rods and adapter

Advantages:

- Head can be rotated by 360°
- Flexible aluminium head

Punching capacity:
Shaped holes 138 x 138 mm (ST37 2.5 mm)
Round holes 150 mm (ST37 3 mm) / 63 mm (VA 2 mm)

Art. no.	↔	kg	PU
216764	180	2,700	1

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Crimping headstock „U-D300-6”

Pressing head 4-mandrel „U-KD300-6“ 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
- Connectors: standard Cu 16 – 120

Art. no.	mm²		kg	PU
216665-U	16 - 300	180	2,700	1

Crimping headstock „U-D400-6”

Pressing head 4-mandrel „U-HKD400-6“ for exchange head system US-6M (216760-1), insert does not need to be changed, mandrel pressing.
- Pressing force in kN: 60 kN • Head can be opened
- Cable lugs: standard Cu 25 – 400
- Connectors: standard Cu 25 – 400

Art. no.	mm²		kg	PU
216666-U	25 - 400	180	2,700	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	1,200	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	6,728	1

Universal set 1

Hand pliers for interchangeable pressing tools
- Pressing load kN: 60
- Working pressure in bar: 700

Art. no.		kg	PU
216766	Set	11,200	1

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.		kg	PU
216767	Set	11,700	1

Universal set 3

NEW

Made up of item 216760-1, item 216763 and item 216762/65.
Technical data and scope of delivery see items 216760-1, 216763 and 216762/65.

Art. no.		kg	PU
216766/65	Set	10,180	1

Universal set 4

NEW

Made up of item 216760-1, item 216761 and item 216762/65.
Technical data and scope of delivery see items 216760-1, 216761 and 216762/65.

Art. no.		kg	PU
216767/65	Set	10,180	1

Scope of delivery for all battery-hydraulic cable cutters:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon or system case
incl. Insert.
For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

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

Best-seller Premium product

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.

- 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

185-H6

10-240 | 10-185 | 16-150 | 10-240 | 10-185 | 16-150

60 kN | 700 bar | 180°

Video 215765

Art. no.	mm²	Size	kg	PU
215765	10 - 240	370 x 140 x 75 mm	4,600	1

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

185-H6

10-240 | 10-185 | 16-150 | 10-240 | 10-185 | 16-150

60 kN | 700 bar | 180° | Li-ION 18V 2Ah | SysCon

Art. no.	mm²	Size	kg	PU
215770-1	10 - 185	398 x 75 mm	6,540	1
215770-1-NO	10 - 185	398 x 75 mm	5,370	1
215770-1-N	10 - 185	398 x 75 mm	2,480	1

Scope of delivery for all battery-hydraulic cable cutters:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon or system case
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

10-240 | 10-185 | 16-150 | 10-240 | 10-185 | 16-150

60 kN | 700 bar | 180° | Li-ION 18V 2Ah | SysCon | Sensor technik

Video 215770/M

Art. no.	mm²	Size	kg	VE
215770/M-1	10 - 185	398 x 75 mm	6,570	1
215770/M-1-NO	10 - 185	398 x 75 mm	5,400	1
215770/M-1-N	10 - 185	398 x 75 mm	2,480	1

Crimping dies standard

standard copper tube terminals and connectors, hexagonal pressing

Standard | Standard | 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

DIN Cu | DIN Cu | DIN Al | DIN Al | 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

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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
- Cable lugs: standard Cu 10-240 • DIN Cu 10-240 • DIN Al 16-185
- Connectors: 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

10-240 | 10-240 | 16-185 | 10-240 | 10-240 | 16-185

60 kN | 700 bar | 180° | Li-ION 18V 2Ah | SysCon

Art. no.	mm²	Size	kg	PU
215881-1	10 - 240	415 x 75 mm	6,650	1
215881-1-NO	10 - 240	415 x 75 mm	5,480	1
215881-1-N	10 - 240	415 x 75 mm	2,560	1

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.

240-H6

10-240 | 10-240 | 16-185 | 10-240 | 10-240 | 16-185

60 kN | 700 bar | 180° | Li-ION 18V 2Ah | SysCon | Sensor

Video 215881/M

Art. no.	mm²	Size	kg	PU
215881/M-1	10 - 240	415 x 75 mm	6,670	1
215881/M-1-NO	10 - 240	415 x 75 mm	5,500	1
215881/M-1-N	10 - 240	415 x 75 mm	2,590	1

Scope of delivery for all battery-hydraulic cable cutters:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon or system case
incl. Insert.
For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

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

240-H6

10-240 | 10-240 | 16-185 | 10-240 | 10-240 | 16-185

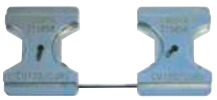
60 kN | 700 bar | 180°

Art. no.	mm²	Size	kg	PU
215800	10 - 240	400 x 150 x 65 mm	4,500	1

Crimping dies

standard copper tube terminals and connectors, **hexagonal pressing**

Standard | Standard | 240-H6

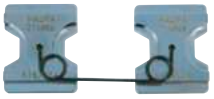


Art. no.	mm²	kg	PU
215852	10 - 16	0,157	1
215854	25 - 35	0,155	1
215856	50 - 70	0,150	1
215858	95 - 120	0,145	1
215859	150	0,159	1
215860	185	0,156	1
215861	240	0,156	1

Crimping dies DIN Cu + Al

DIN Cu/Al tube terminals and connectors, **hexagonal pressing**

DIN Cu | DIN Cu | DIN Al | DIN Al | 240-H6



Art. no.	mm²	Al	KZ	kg	PU
215862	10 - 16	-	6 - 8	0,155	1
215864	25 - 35	16 - 25	10 - 12	0,151	1
215866	50 - 70	35 - 50	14 - 16	0,149	1
215868	95 - 120	70	18 - 20	0,129	1
215869	150	95 - 120	22	0,145	1
215870	185	150	25	0,147	1
215872	240	185	28	0,114	1

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

Best-seller | Premium product

Battery powered crimping tool „S0-6“

Hydraulic for interchangeable dies, crimping head can be rotated by 180°, Head can be opened, manual return flow after perfect pressure.

- 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: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- With the new HAUPA battery item no. 215523 and charger item no. 215527
- Cable lugs: standard Cu 6-300 • DIN Cu 6-300 • DIN Al 16-300
- Connectors: Cu 6-300 • DIN Cu 6-300 • DIN Al 16-300

300-06

6-300 | 6-300 | 16-300 | 6-300 | 6-300 | 16-300

60 kN | 700 bar | 180° | Li-ION 18V 2Ah | SysCon

Art. no.	mm²	Size	kg	PU
216801-1	6 - 300	383 x 75 mm	7,070	1
216801-1-NO	6 - 300	383 x 75 mm	5,910	1
216801-1-N	6 - 300	383 x 75 mm	2,990	1

Battery powered crimping tool „S0-6M“ Sensor

Technical data and scope of delivery, see 216801.

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.

PREMIUM

300-06

6-300 | 6-300 | 16-300 | 6-300 | 6-300 | 16-300

60 kN | 700 bar | 180° | Li-ION 18V 2Ah | SysCon | Sensor technik

Video 216801/M

Art. no.	mm²	Size	kg	PU
216801/M-1	6 - 300	383 x 75 mm	6,670	1
216801/M-1-NO	6 - 300	383 x 75 mm	5,920	1
216801/M-1-N	6 - 300	383 x 75 mm	3,000	1

Battery powered crimping tool „A0-6“ 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
- Cable lugs: standrad Cu 6-300 • DIN Cu 6-300 • DIN Al 16-300
- Connectors: standard Cu 6-300 • DIN Cu 6-300 • DIN Al 16-300
- Pressing time, battery-operated in seconds: 4
- Battery charging time in minutes: 120
- Battery type: Li-Ion 18 V, 4 Ah
- Dual-piston pump

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 2 white LED designed to illuminate the working area.

300-06

6-300 | 6-300 | 16-300 | 6-300 | 6-300 | 16-300

60 kN | 700 bar | 180° | Li-ION 18V 4Ah | Sensor technik

Video 216800

Art. no.	mm²	Size	kg	PU
216800-1	6 - 300	375 x 343 x 75 mm	9,400	1
216800-1-NO	6 - 300	375 x 343 x 75 mm	8,000	1
216800-1-N	6 - 300	375 x 343 x 75 mm	4,750	1

Scope of delivery for all battery-hydraulic cable cutters:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon or system case
incl. Insert.
For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

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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 16-300
- Connectors: standard Cu 6-300 • DIN Cu 6-300 • DIN Al 16-300
- Dual-piston pump
- Weight in kg: 3,5
- Weight of set in kg: 5,0

300-06

60 kN | 700 bar | 180°

Art. no.	mm²	Size	kg	PU
216802	6 - 300	500 x 170 x 80 mm	5,000	1

Hand pliers „MO-6“ for exchangeable dies

Extent of supply: 1 crimping tool, in metal suitcase.

- Crimping range cable lugs: Cu 6-300 • DIN Cu 6-300 / DIN Al 16-300
- Crimping range connectors: Cu 6-300 • DIN Cu 6-300 / DIN Al 16-300

300-06

60 kN | 180°

Art. no.	mm²	Size	kg	PU
216804	10 - 300	765 x 175 mm	11,800	1

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

300-06

60 kN | 700 bar

Art. no.	mm²	Size	kg	PU
216807	6 - 300	235 x 91,5 x 57 mm	4,200	1

Dies for terminals and connectors DIN

DIN Cu | DIN Cu

300-06

Cu

Art. no.	Cu	KZ	PB	kg	PU
216832	6	5	5	0,123	1
216834	10	6	5	0,122	1
216836	16	8	5	0,125	1
216838	25	10	5	0,120	1
216840	35	12	5	0,120	1
216842	50	14	5	0,119	1
216844	70	16	5	0,120	1
216846	95	18	5	0,120	1
216848	120	20	5	0,120	1
216850	150	22	5	0,120	1
216852	185	25	5	0,120	1
216854	240	28	5	0,115	1
216856	300	32	5	0,120	1

Crimping dies set DIN Cu

12 DIN-Crimping diesin 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

300-06

DIN Cu | DIN Cu

Art. no.	↔	mm²	kg	PU
216831-SET	235	10 - 300	4,200	1

Dies for terminals and connectors standard

Standard Cu | Standard Cu | 300-06

Cu

Art. no.	mm²	PB	kg	PU
216806	6	5	0,136	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

300-06

Standard Cu | Standard Cu

Art. no.	↔	mm²	kg	PU
216805-SET	235	6 - 300	4,200	1

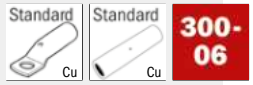
PU Packing unit PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

Best-seller | Premium product

Dies for terminals and compacted connectors

for standard tube terminals and compacted connectors, also on compacted thinned connectors

Cu



Art. no.	mm²	PB	kg	PU
216806/V	6	5	0,136	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

NEW

Dies for terminals and compacted connectors

for standard tube terminals and compacted connectors, also for thinned, compacted conductors, in 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	kg	PU
216806/V-SET	235	6 -300	1,880	1

Dies for tubular terminals „F-Type“

F-Type 300-06

Cu

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**)

Cu

Art. no.	mm²	kg	PU
216952	10	0,120	1
216954	16	0,120	1
216956	25	0,120	1
216958	35	0,120	1
216960	50	0,120	1
216962	70	0,120	1
216964	95	0,120	1
216966	120	0,120	1
216968	150	0,120	1
216970	185	0,120	1
216972	240	0,120	1

Dies for rounding of round conductors

300-06

Cu
Al

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

Oval crimp for stripped pipe cable lugs

press inserts for insulated tubular cable lugs, **oval crimping**

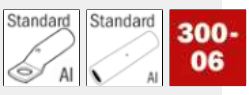
300-06

Cu

Art. no.	mm²	PB	kg	PU
216670	10	5	0,136	1
216672	16	5	0,136	1
216674	25	5	0,136	1
216676	35	5	0,135	1
216678	50	5	0,135	1
216680	70	5	0,134	1
216682	95	5	0,134	1
216684	120	5	0,134	1
216686	150	5	0,134	1

Dies for standard aluminium pipe cable lugs

press inserts for standard tubular cable lugs, **hexagonal crimping**



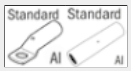
Al

Art. no.	mm²	PB	kg	PU
216812/AL	16-25	7	0,135	1
216814/AL	35	7	0,135	1
216816/AL	50	7	0,134	1
216818/AL	70	7	0,132	1
216820/AL	95	7	0,132	1
216822/AL	120	7	0,130	1
216824/AL	150	7	0,128	1
216826/AL	185	7	0,125	1
216828/AL	240	7	0,121	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

300-06



Art. no.	⟷	mm²	kg	PU
216812/AL-SET	235	25 - 240	4,200	1

Dies for connectors with notch

press inserts for connectors with notch

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	0,143	1

Dies for DIN aluminium pipe cable lugs

press inserts for standard tubular cable lugs

Al

300-06

Art. no.	rm/sm	re/se mm²	PB	KZ	kg	PU
216840/AL	16-25	25-35	7	12	0,120	1
216842/AL	35	50	7	14	0,119	1
216844/AL	50	70	7	16	0,120	1
216846/AL	70	95	7	18	0,120	1
216850/AL	95-120	120-150	7	22	0,120	1
216852/AL	150	185	7	25	0,120	1
216854/AL	185	240	7	28	0,120	1
216856/AL	240	300	5	32	0,115	1
216858/AL	300	400	5	34	0,120	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

300-06

Art. no.	⟷	mm²	kg	PU
216840/AL-SET	235	16 - 300	4,200	1

Dies for indent crimping for compacted cables

Mandrel crimping compacted cables for insulated tube lugs

Cu

300-06

Art. no.	mm²	kg	PU
216863	16	0,136	1
216865	25	0,136	1
216867	35	0,136	1
216869	50	0,135	1
216871	70	0,135	1
216873	95	0,134	1
216875	120	0,134	1
216877	150	0,134	1

Dies for C-connectors

press inserts for C-connectors

Cu

300-06

Art. no.	mm²	PB	kg	PU
216984	16	5	0,135	1
216984/25	25	5	0,135	1
216985	35	5	0,135	1
216986	50	5	0,134	1
216986/70C	70	5	0,140	1
216987	4-4	5	0,132	1
216988	10-10	5	0,132	1
216989	10-1	5	0,132	1

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

Best-seller Premium product

Battery-hydraulic Base 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° | Li-ION 18V 4Ah | Sensor Technik

Art. no.	mm²	Size	kg	PU
216625-1	500	430 x 340 x 75 mm	6,544	1
216625-1-NO	500	430 x 340 x 75 mm	5,800	1
216625-1-N	500	430 x 340 x 75 mm	5,316	1

Crimping head U-KDE500-12

Pressing head 180° rotatable, 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
- Weight in kg: 1,284

35-500 standard | 35-500 standard | DIN 46234 | 120 kN | 700 bar | 360°

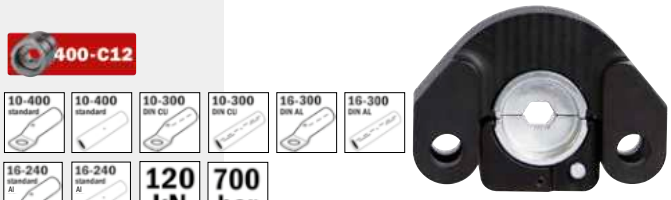
Art. no.	mm²	kg	PU
216626	35-500	1,284	1

Scope of delivery for all battery-hydraulic cable cutters:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon or system case
incl. Insert.
For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

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
- Weight in kg: 1,332



400-C12

10-400 standard | 10-400 standard | 10-300 DIN CU | 10-300 DIN CU | 16-300 DIN AL | 16-300 DIN AL | 16-240 standard AL | 16-240 standard AL | 120 kN | 700 bar

Art. no.	mm²	kg	PU
216627	10-400	1,323	1

Cutting head „U-KS12-S85“

Cutting head 180° rotatable, for copper and aluminum cables

- Crimping force in kN: 120
- Working pressure in bar: 700
- Cutting width Ø: 85 mm
- Weight in kg: 5,483

Ø 85 | Cu AL | 120 kN | 700 bar | 180°

Art. no.	mm²	↔	kg	PU
216628	85	260 mm	5,483	1

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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
- Cable lugs: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-300
- 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

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 2 white LED designed to illuminate the working area.

400-C12

10-400 standard | 10-300 DIN Cu | 16-300 DIN Al | 10-185 standard | 10-150 DIN Cu | 16-120 DIN Al

120 kN | 700 bar | 180° | Li-ION 18V 4 Ah | Sensor Technik

Video 216601

Art. no.	mm²	Size	kg	PU
216601-1	10 - 400	375 x 375 x 75 mm	11,830	1
216601-1-NO	10 - 400	375 x 375 x 75 mm	9,150	1
216601-1-N	10 - 400	375 x 375 x 75 mm	5,900	1

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 16-300
- 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

400-C12

10-400 standard | 10-300 DIN Cu | 16-300 DIN Al | 10-185 standard | 10-150 DIN Cu | 16-120 DIN Al

120 kN | 700 bar | 180°

Art. no.	mm²	Size	kg	PU
216124	10 - 400	585 x 180 x 72 mm	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 16-300
- 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

400-C12

10-400 standard | 10-300 DIN Cu | 16-300 DIN Al | 10-185 standard | 10-150 DIN Cu | 16-120 DIN Al

120 kN | 700 bar

Art. no.	mm²	Size	kg	PU
216004	10 - 400	245 x 130 x 72 mm	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
- 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
- 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

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 2 white LED designed to illuminate the working area.

400-C12

10-400 standard | 10-300 DIN Cu | 16-300 DIN Al | 10-400 standard | 10-300 DIN Cu | 16-300 DIN Al

120 kN | 700 bar | 180° | Li-ION 18V 4 Ah | Sensor Technik

Video 216622

Art. no.	mm²	Size	kg	PU
216622-1	10 - 400	430 x 340 x 75 mm	11,830	1
216622-1-NO	10 - 400	430 x 340 x 75 mm	10,430	1
216622-1-N	10 - 400	430 x 340 x 75 mm	7,180	1

Scope of delivery for all battery-hydraulic cable cutters:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon or system case
incl. Insert.
For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

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

Best-seller | Premium product

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

400-C12

10-400 | 10-300 DIN Cu | 16-300 DIN Al | 10-400 | 10-300 DIN Cu | 16-300 DIN Al

120 kN | 700 bar | 180°

Art. no.	mm²	Size	kg	PU
216125	10 - 400	640 x 170 x 77 mm	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

400-C12

10-400 | 10-300 DIN Cu | 16-300 DIN Al | 10-400 | 10-300 DIN Cu | 16-300 DIN Al

120 kN | 700 bar

Art. no.	mm²	Size	kg	PU
216005	10 - 400	320 x 130 x 76 mm	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 16-300
- Connectors: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-300
- Quick coupling
- Weight in kg: 4
- Weight of set in kg: 5

400-C12

10-400 | 10-300 DIN Cu | 16-300 DIN Al | 10-400 | 10-300 DIN Cu | 16-300 DIN Al | 120 kN | 700 bar

Art. no.	mm²	Size	kg	PU
215980	10 - 400	275 x 90 x 76 mm	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
- Head can be opened
- Opening/ Hub: 20 mm
- 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
- Pressing time, battery-operated in sec.: 6 - 13
- Battery charging time in minutes: 120
- Battery type: Li-Ion, 18 V, 4 Ah
- Dual-piston pump

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 2 white LED designed to illuminate the working area.

400-C12

10-400 | 10-300 DIN Cu | 16-300 DIN Al | 10-400 | 10-300 DIN Cu | 16-300 DIN Al

120 kN | 700 bar | 180° | 60 min. | Li-ION 18V 4Ah | Sensor

Video 216503

Art. no.	mm²	Size	kg	PU
216503-1	10 - 400	405 x 353 x 75 mm	10,970	1
216503-1-NO	10 - 400	405 x 353 x 75 mm	9,570	1
216503-1-N	10 - 400	405 x 353 x 75 mm	5,320	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 16-300
- Connectors: standard Cu 10-400 • DIN Cu 10-300 • DIN Al 16-300
- Dual-piston pump
- Weight in kg: 4,0
- Weight set in kg: 5,0

400-C12

10-400 | 10-300 DIN Cu | 16-300 DIN Al | 10-400 | 10-300 DIN Cu | 16-300 DIN Al | 120 kN | 700 bar | 180°

Art. no.	mm²	Size	kg	PU
215946	10 - 400	615 x 180 x 76 mm	7,500	1

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Crimping Dies

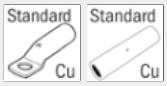
Crimping dies DIN

for Copper and Aluminium, hexagonal pressing

Art. no.	mm²	PB	KZ	kg	PU
216036	10	10	6	0,248	1
216038	16	10	8	0,248	1
216040	25	13	10	0,244	1
216042	35	13	12	0,235	1
216044	50	13	14	0,231	1
216046	70	13	16	0,226	1
216048	95	14	18	0,229	1
216050	120	14	20	0,225	1
216052	150	10	22	0,197	1
216054	185	10	25	0,193	1
216056	240	10	28	0,185	1
216060	300	10	32	0,142	1

Crimping dies

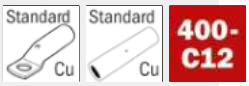
Standard copper tube terminals and connectors, **hexagonal pressing**



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

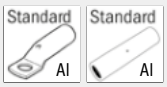
Crimping dies DIN

for DIN Aluminium terminals and connectors, **hexagonal pressing**

Art. no.	rm/sm	re/se	PB	KZ	kg	PU
216042/AL	16-25	25-35	12	12	0.235	1
216044/AL	35	50	12	14	0.231	1
216046/AL	50	70	12	16	0.226	1
216048/AL	70	95	12	18	0.229	1
216052/AL	95-120	120-150	14	22	0.197	1
216054/AL	150	185	14	25	0.193	1
216056/AL	185	240	14	28	0.185	1
216060/AL	240	300	17	32	0.142	1
216062/AL	300	-	17	34	0.142	1

Crimping dies

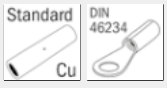
for standard Aluminium terminals and connectore, **hexagonal pressing**



Art. no.	mm²	PB	kg	PU
216012/AL	16-25	10	0.210	1
216014/AL	35	10	0.207	1
216016/AL	50	13	0.224	1
216018/AL	70	13	0.221	1
216020/AL	95	13	0.226	1
216022/AL	120	13	0.200	1
216024/AL	150	14	0.200	1
216026/AL	185	14	0.191	1
216028/AL	240	10	0.186	1

Crimping dies

Standard copper tube terminals and connectors, **mandrel shape crimping**



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

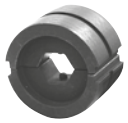
PU Packing unit PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

Best-seller Premium product

Crimping dies for cable class 5+6, F-Type

tubular terminals and connectors, F-Type

F-Type haupa 400-C12 Cu



Art. no.	mm²	PB	kg	PU
216160	10	8	0,211	1
216162	16	8	0,216	1
216164	25	11	0,227	1
216168	50	13	0,232	1
216166	35	13	0,234	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 prerounding of square connectors

400-C12 Cu Al

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**

400-C12 Cu

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	0,200	1
216123	240	26	0,200	1

Crimping dies

for insulated tube terminals, **oval pressing**

400-C12 Cu

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

C-connectors, **oval pressing**

400-C12 Cu

Art. no.	mm²	PB	kg	PU
216148	16	16	0,135	1
216149	25	17	0,135	1
216150	35	20	0,135	1
216152	50	20	0,134	1
216154	70	30	0,132	1
216156	95	30	0,132	1
216157	120	20	0,132	1

Deep indent crimping accessories

Cu

Pressing inserts „Deep Indend“ (AH-12/KH-12/HH-12)

for conduit terminals and connectors, **thorn pressing**

Art. no.	mm²		kg	PU
216552	50 - 70	Cable Lugs	0,211	1
216554	95 - 185	Cable Lugs	0,211	1
216556	240	Cable Lugs	0,211	1
216562	50 - 70	Connectors	0,211	1
216564	95 - 185	Connectors	0,211	1
216566	240	Connectors	0,211	1

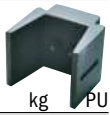
Adapter pressing thorn

Art. no.	Size	kg	PU
216570	1 - 4	0,211	1

Pressing thorn

Art. no.	mm²	Size	kg	PU
216574	50 - 70	1	0,211	1
216576	95 - 185	2	0,211	1
216578	240	4	0,211	1

Holder for „Deep Indend“ pressing inserts



Art. no.	mm²	kg	PU
216580	50 - 185	0,211	1
216582	240	0,211	1

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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.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Pressing width: thorn
- Cable lugs: standard Cu 10-240 • DIN AL 50-240
- Connectors: standard Cu 10-240 • DIN AL 50-240
- Pressing time, battery-operated in sec.: 6-12
- Battery charging time in min.: 30
- Battery type: Li-Ion, 18 V, 2 Ah

Art. no.	mm²	Size	kg	PU
216669-1	10 - 240	455 x 75 mm	7,270	1
216669-1-NO	10 - 240	455 x 75 mm	6,100	1
216669-1-N	10 - 240	455 x 75 mm	3,180	1

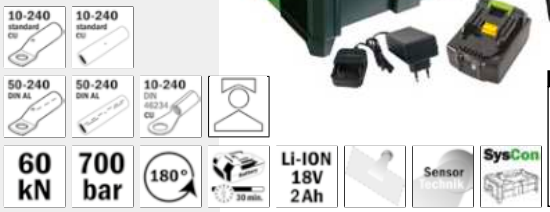
Akkuhydraulisches Presswerkzeug „SDE240-6M“ Sensor

Technical data and scope of delivery, see 216669-1.

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 216669/M

Art. no.	mm²	Size	kg	PU
216669/M-1	10 - 240	455 x 75 mm	7,280	1
216669/M-1-NO	10 - 240	455 x 75 mm	6,110	1
216669/M-1-N	10 - 240	455 x 75 mm	3,190	1

Scope of delivery for all battery-hydraulic cable cutters:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon or system case
incl. Insert.
For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

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

Best-seller Premium product

Battery powered crimping tool „SD300-6“

Crimping head can be rotated by 360°, manual return flow after perfect pressure, **quad-mandrel pressing**.

- Pressing force in kN: 60
- Working pressure in bar: 700
- Pressing width: thorn
- Cable lugs: standard Cu 16-300
- Connectors: standard Cu 16-120
- Pressing time, battery-operated in sec.: 6-12
- Battery charging time in min.: 30
- Battery type: Li-Ion, 18 V, 2 Ah

Art. no.	mm²	Size	kg	PU
216663-1	16 - 300	443 x 75 mm	7,970	1
216663-1-NO	16 - 300	443 x 75 mm	6,800	1
216663-1-N	16 - 300	443 x 75 mm	3,880	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.

Video 216663/M

Art. no.	mm²	Size	kg	PU
216663/M-1	16 - 300	443 x 75 mm	8,280	1
216663/M-1-NO	16 - 300	443 x 75 mm	7,110	1
216663/M-1-N	16 - 300	443 x 75 mm	4,200	1

Test pin and template see page 80

Scope of delivery for all battery-hydraulic cable cutters:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon or system case
incl. Insert.
For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

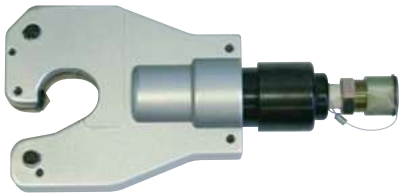
Hydraulic hand pliers „HD300-6“

Crimping head can be rotated by 360°, manual return after completed pressing, light and compact construction in black plastic case.
- Pressing force in kN: 60
- Working pressure in bar: 700
- Cable lugs: standard Cu 16-300
- Connectors: standard Cu 16-120
- Dual-piston pump
- Weight in kg: 5,0
- Weight of set in kg: 6,5

Art. no.	mm²	Size	kg	PU
216660	16 - 300	570 x 160 x 60 mm	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	Size	kg	PU
216665	16 - 300	275 x 130 x 60 mm	3,800	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!

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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

Art. no.	mm²	Size	kg	PU
216667-1	25 - 400	455 x 75 mm	8,070	1
216667-1-NO	25 - 400	455 x 75 mm	6,900	1
216667-1-N	25 - 400	455 x 75 mm	3,890	1

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	Size	kg	PU
216667/M-1	25 - 400	455 x 75 mm	8,260	1
216667/M-1-NO	25 - 400	455 x 75 mm	7,090	1
216667/M-1-N	25 - 400	455 x 75 mm	4,170	1

Test pin

Test pin for hydraulic four mandrel pressing tools

Art. no.	kg	PU
216660/B	0,566	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	Size	kg	PU
216661	25 - 400	585 x 160 x 75 mm	6,700	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	Size	kg	PU
216666	25 - 400	300 x 136 x 82 mm	4,000	1

Template for four mandrel pressing

emplate for hydraulic four mandrel pressing tools to be used in connection with 216660/B

Art. no.	kg	PU
216660/L	0,566	1

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

Best-seller Premium product

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
- DIN 46234
- Weight in kg: 7,7

35-500 standard | 35-500 standard | DIN 46234 | 120 kN | 700 bar | 360°

Art. no.	mm²	kg	PU
216691	35 - 500	7,700	1

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: 120
- Working pressure in bar: 700
- Hinged Head
- Cable Lugs: standard Cu 35-500 • DIN AL 95-500
- Connectors: standard Cu 35-500 • DIN Al 95-500
- DIN 46234
- Pressing time, battery-operated in sec.: 6-12
- Battery charging time in min: 60
- Battery type: Li-Ion, 18 V, 4 Ah

35-500 standard | 35-500 standard | DIN 46234 | 120 kN | 700 bar | 360° | 60 min. | Li-ION 18V 4Ah | Sensor technik

Art. no.	⟷	mm²	kg	PU
216668/M-1	450	35 - 500	11,430	1
216668/M-1-NO	450	35 - 500	9,700	1
216668/M-1-N	450	35 - 500	6,780	1

Headstock „KDE500-12“

- Pressing force in kN: 120
- Working pressure in bar: 700
- Hinged Head
- Cable Lugs: standard Cu 35-500
- Connectors: standard Cu 35-500
- DIN 46234
- Weight in kg: 3,5

35-500 standard | 35-500 standard | DIN 46234 | 120 kN | 700 bar | 360°

Art. no.	mm²	kg	PU
216690	35 - 500	3,500	1

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

Pressure testing tool recorder Sensor

for all accumulator hydraulics with sensor technology

Art. no.	kg	PU
217107	0,700	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 und 215525

Art. no.	kg	PU
215527	0,126	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

Useful adapter for the use of Bosch-, Milwaukee- or Dewalt Batteries with HAUPA Battery powered tools.
- with sliding connection

Art. no.	Adapter for	kg	PU
215529	Bosch	0,350	1
215531	Milwaukee	0,350	1
215533	Dewalt	0,350	1

Scope of delivery for all battery-hydraulic cable cutters:
1 tool, 1 quick charger and 1 rechargeable battery in SysCon or system case
incl. Insert.
For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

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

Best-seller Premium product

Hydraulic crimping headstock „KH-25“

for uninsulated terminals 95 - 630 mm², pressure 250 kN, 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 DINconnection material according to DIN. Cu ze (free of tensile)

DIN Cu | DIN Cu | 630-H250

Art. no.	mm²	Al	KZ	kg	PU
212372	95	70	18	1,340	1
212376	120	-	20	1,340	1
212380	150	95 - 120	22	1,335	1
212382	185	150	25	1,325	1
212384	240	185	28	1,250	1
212388	300	240	32	1,275	1
212390	300	300	34	1,180	1
212392	400	400	38	1,160	1
212394	500	-	42	1,110	1
212396	625	500	44	1,100	1

Crimping dies, standard, Cu

standard, **hexagonal pressing**

Standard Cu | Standard Cu | 630-H250

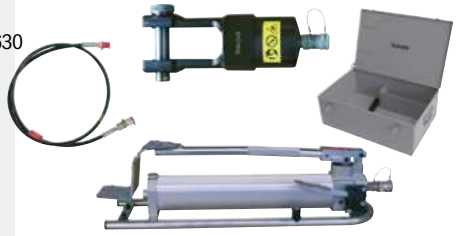
Art. no.	Cu	kg	PU
212580	95	1,340	1
212581	120	1,340	1
212582	150	1,335	1
212583	185	1,325	1
212584	240	1,250	1
212585	300	1,275	1
212586	400	1,160	1
212587	500	1,110	1
212588	625	1,100	1

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 width: wide
- 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	13,500	1

Crimping dies, standard

standard, **hexagon pressing**

Standard Cu | Standard 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	2,300	1
216318	625	2,300	1

Crimping dies, DIN

DIN, **hexagon pressing** for terminals and connectors DIN 46235 and for Al terminals and Al connectors

DIN Cu | DIN Cu | 1000-H450

Art. no.	mm²	Al	KZ	kg	PU
216320	120	-	20	2,635	1
216322	150	95 - 120	22	2,600	1
216324	185	150	25	2,620	1
216326	240	185	28	2,580	1
216328	300	240	32	2,580	1
216330	300	300	34	2,235	1
216332	400	-	38	2,300	1
216334	500	-	42	2,300	1
216336	625	-	44	2,300	1
216338	800	-	52	2,300	1
216340	1000	-	58	2,040	1

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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.	ND	kg	PU
216348	700	12,000	1

Hydraulic high-pressure hose

steel-reinforced with rapid coupling to foot pump art. 216348 and electro-hydraulic pump art. 216352

Art. no.	m	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.	ND		kg	PU
216352	700	230V	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.	ND		kg	PU
216357	700	Battery	8,000	1

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

Best-seller Premium product

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

The corresponding punching head "U-S-6" (Art. no. 216764) and adapter for pumps (Art. no. 216765) can be found on pages 65 und 66.

Punching dies, metric

- ST37, 3 mm
- **also compatible with** art. no. 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
217622	63,5	ISO 63	217662	0,950	1

Punching dies, PG

- ST37, 3 mm
- **also compatible with** art. no. 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

Punching dies, square

- ST37, 2,5 mm
- **UNF**
- **also compatible with art. no.** 216764

Art. no.	Width/Height	kg	PU
217650	46	1,862	1
217652	68	1,500	1
217654	92	2,000	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	0,203	1

Adapter

for connecting rod art. no. 217660

- UNF

Art. no.	kg	PU
217664	0,100	1

Spacer bushing

Art. no.	kg	PU
217666	0,100	1

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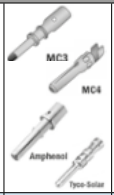
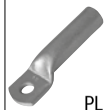
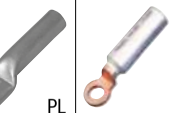
6 tonne pressing tools

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

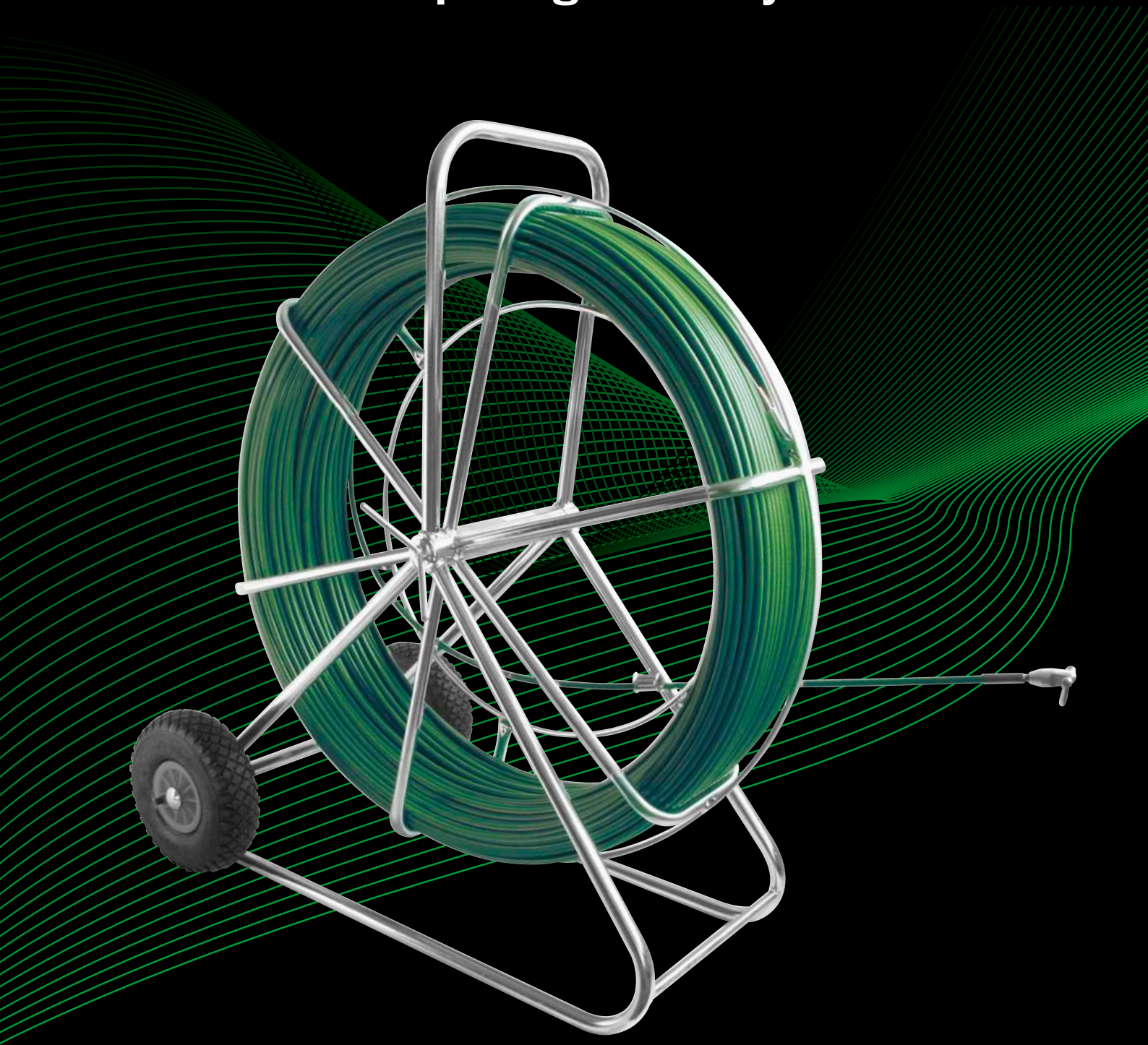
12 tonne pressing tools

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/100	PU	PE
150152	10	3,5	13,100	1	1
150154	15	3,5	20,800	1	1
150156	20	3,5	26,800	1	1
150158	25	3,5	32,300	1	1

Spiral fish tapes

made from steel spirals, fourfold twisted, with solid steel end pieces, strip size 4 mm

Art. no.	⟷	Ø	kg/100	PU	PE
150200	5	4	31,200	1	1
150202	10	4	69,100	1	1
150204	15	4	98,800	1	1
150206	20	4	134,300	1	1
150208	25	4	182,000	1	1
150210	30	4	185,900	1	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/100	PU	PE
150220 ✸	5	3	6,000	1	1
150222 ✸	10	3	10,300	1	1
150224 ✸	15	3	14,100	1	1
150226 ✸	20	3	18,800	1	1
150228	25	3	24,600	1	1
150230	30	3	24,400	1	1
150241 ✸	10	4	16,000	1	1
150243 ✸	15	4	23,400	1	1
150245 ✸	20	4	30,300	1	1
150247 ✸	25	4	38,600	1	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/100	PU	PE
150232	10	4	15,200	1	1
150234	15	4	23,600	1	1
150236	20	4	30,300	1	1
150238	25	4	40,200	1	1
150239	30	4	44,500	1	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/100	PU	PE
150450	5	3	4,800	1	1
150452	10	3	9,900	1	1
150454	15	3	13,900	1	1
150456	20	3	16,300	1	1
150458	25	3	21,800	1	1
150462	5	4	8,000	1	1
150464	10	4	15,800	1	1
150466	15	4	24,000	1	1
150468	20	4	29,200	1	1
150470	25	4	38,900	1	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/100	PU	PE
150476	10	4	18,000	1	1
150478	15	4	26,000	1	1
150480	20	4	33,200	1	1
150482	25	4	41,200	1	1

PU Packing unit PE Price unit

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

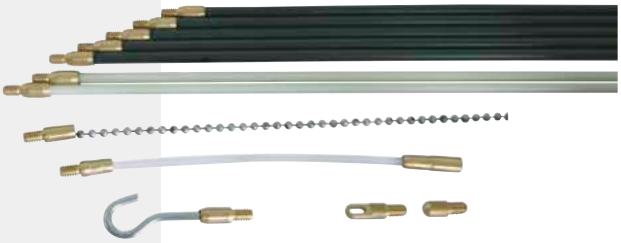
✸ Best-seller Premium product

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.	⟷		kg	PU
150560	7	12 pcs.	0,500	1

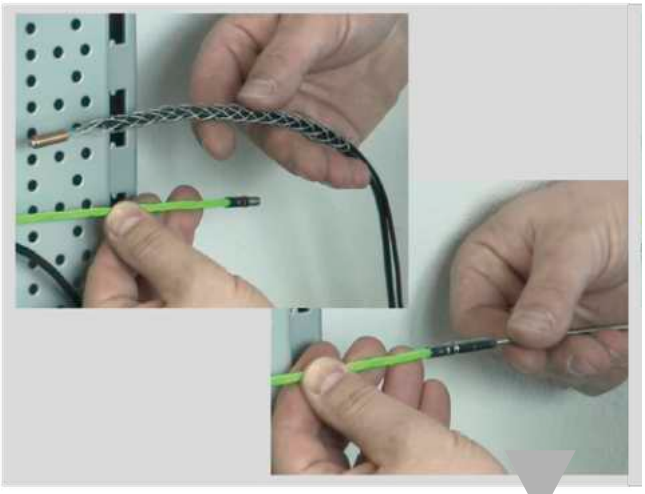
Fibre glass push rod set

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.	⟷		kg	PU
150562 ✷	10	16 pcs.	0,700	1



Additional accessories, see HAUPA fibre, page94

Cable pulling device HAUPA PullTec

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:
- 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: 300 kg

Art. no.	⟷		Ø	kg	PU
143500	20	M5	4	1,300	1
143502 ✷	30	M5	4	1,500	1

Haupa PullTec4 30 m replacement rod

„Single Composite“ 4,0 mm, green

Art. no.	⟷		Ø		kg	PU
143503	30	M5	4	replacement rod	1,200	1
143501	20	M5	4	replacement rod	1,000	1

Guiding head with eyelet M5

Art. no.		Ø		kg	PU
143508	M5	6	guiding head	0,200	1

Cable pulling device HAUPA PullTec

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 ✷	30	M5	5,2		1,700	1
143505	20	M5	5,2	replacement rod	1,100	1
143507	30	M5	5,2	replacement rod	1,300	1
143509		M5	6	guiding head	0,200	1

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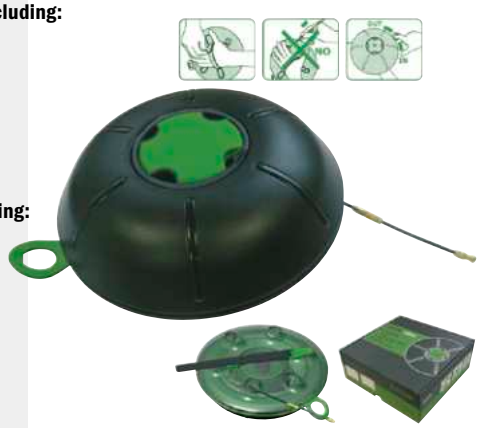
Cable pulling device, accessories

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	20	M5	3	HAUPA-FIBRE 20 m	1,199	1
143002	30	M5	3	HAUPA-FIBRE 30 m	1,500	1
143002/ECO	30	M5	3	HAUPA-FIBRE ECO 30 m	1,198	1

Pulling unit with loop M5

Art. no.		Ø	kg	PU
143008	M5	6	0,020	1

Guiding head with loop M5

Art. no.		Ø	kg	PU
143010	M5	6	0,200	1

Guiding head M5

Art. no.		Ø	kg	PU
143012	M5	7	0,010	1

Guiding head M5

Art. no.		Ø	kg	PU
143014	M5	10	0,011	1

Guiding head Ø 13 mm M5

Art. no.		Ø	kg	PU
143030	M5	13	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	M5	3	0,003	1

Cable grips

Art. no.	⟷		Ø	kg	PU
143020	200	M5	4-6	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	20	3	20	0,022	1
143006	30	3	30	0,034	1

Service set for HAUPA-FIBRE

Art. no.		kg	PU
143028	M5	0,041	1

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

Best-seller Premium product

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	40	M5	4,5	3,900	1
143052 *	60	M5	4,5	4,400	1
143054	80	M5	4,5	4,800	1

Replacement glass fibre rod FOX

Ø 4.5 mm, complete with front/end sleeve M5

Art. no.	⟷		Ø	kg	PU
143056	40	M5	4,5	0,900	1
143058	60	M5	4,5	1,400	1
143060	80	M5	4,5	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	VE
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	M5	7	0,010	1
143014	M5	10	0,011	1
143030	M5	13	0,017	1

Guiding head set with heads Ø 7, 10, 13 mm M5

Art. no.			kg	PU
143068	M5	3 pcs.	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	0,002	1

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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

lying version

Art. no.	↔		Ø	kg	PU
143100	40	M6	6	5,200	1
143102	60	M6	6	5,900	1
143104	80	M6	6	6,800	1
143105	100	M6	6	7,700	1

standing version

Art. no.	↔		Ø	kg	PU
143106	40	M6	6	7,200	1
143108	60	M6	6	8,300	1
143110	80	M6	6	9,400	1
143111	100	M6	6	10,300	1

standing version with wheels

Art. no.	↔		Ø	kg	PU
143112	40	M6	6	7,400	1
143114	60	M6	6	8,500	1
143116	80	M6	6	9,600	1
143117	100	M6	6	10,500	1

Replacement glass fibre rod SIX

Ø 6 mm, including front/end sleeve M5

Art. no.	↔		Ø	kg	PU
143118	40	M6	6	1,700	1
143120	60	M6	6	2,500	1
143122	80	M6	6	3,250	1
143124	100	M6	6	4,150	1

Guiding head with loop M6

Art. no.		Ø	kg	PU
143126	M6	6	0,018	1

Front bulb with shackle M6

Art. no.		Ø	kg	PU
143128	M6	6	0,022	1

Guiding role made from aluminium M6

Art. no.		Ø	kg	PU
143130	M6	6	0,026	1

Guiding head M6

Art. no.		Ø	kg	PU
143132	M6	6	0,017	1

Front/end sleeve M6

Art. no.		Ø	kg	PU
143134	M6	6	0,013	1

Connection shackle for probes Ø 6 mm

Art. no.	Ø	kg	PU
143136	6	0,012	1

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

✸ Best-seller Premium product

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

standing version

Art. no.	⟷		Ø	kg	PU
143150	40	M12	7,5	8,100	1
143152	60	M12	7,5	9,400	1
143154	80	M12	7,5	10,700	1
143156	100	M12	7,5	11,900	1

standing version with wheels

Art. no.	⟷		Ø	kg	PU
143160	40	M12	7,5	9,100	1
143162	60	M12	7,5	10,400	1
143164	80	M12	7,5	11,700	1
143166	100	M12	7,5	12,900	1
143168 *	120	M12	7,5	14,100	1

Replacement glass fibre rod FIX

Ø 7.5 mm, including front/end sleeve M12

Art. no.	⟷		Ø	kg	PU
143170	40	M12	7,5	1,500	1
143172	60	M12	7,5	2,000	1
143174	80	M12	7,5	3,000	1
143176	100	M12	7,5	3,700	1
143178	120	M12	7,5	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	kg	PU
143184	M12	40	0,220	1

Front/end sleeve M12

Art. no.		Ø	kg	PU
143186	M12	7,5	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	83	M12	30	0,006	1

Pipe cleaning brush

Art. no.	Ø	kg	PU
143200	80 mm	0,200	1
143202	97 mm	0,098	1
143204	117 mm	0,400	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

standing version

Art. no.	⟷		Ø		kg	PU
143210	40	M12	9	Ø 795 mm	9,100	1
143212	60	M12	9	Ø 795 mm	12,900	1
143214	80	M12	9	Ø 795 mm	14,820	1

standing version with wheels

Art. no.	⟷		Ø		kg	PU
143216	100	M12	9	Ø 1000 mm	29,400	1
143218	120	M12	9	Ø 1000 mm	31,300	1
143220	150	M12	9	Ø 1000 mm	33,900	1

Replacement glass fibre rod STRONG

Ø 9 mm, including front/end sleeve M12

Art. no.	⟷		Ø	kg	PU
143222	40	M12	9	3,800	1
143224	60	M12	9	5,500	1
143226	80	M12	9	7,500	1
143228	100	M12	9	9,400	1
143230	120	M12	9	11,300	1
143232	150	M12	9	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

standing version with wheels

Art. no.	⟷		Ø	kg	PU
143250	150	M12	11	43,000	1
143252	200	M12	11	50,000	1
143254	250	M12	11	56,500	1
143256	300	M12	11	64,500	1

Replacement glass fibre rod POWER

Ø 9 mm, including front/end sleeve M12

Art. no.	⟷		Ø	kg	PU
143258	150	M12	11	21,900	1
143260	200	M12	11	29,200	1
143262	250	M12	11	36,400	1
143264	300	M12	11	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

standing version with wheels

Art. no.	⟷		Ø	kg	PU
143270	150	M12	14,5	85,000	1
143272	200	M12	14,5	99,000	1
143274	250	M12	14,5	113,000	1
143276	300	M12	14,5	127,000	1
143278	350	M12	14,5	141,000	1
143280	400	M12	14,5	156,000	1

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

✸ Best-seller Premium product

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	kg	PU
143184	M12	40	0,220	1

Front/end sleeve M12

Art. no.		Ø	kg	PU
143185	M12	11	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 mm	0,200	1
143202	97 mm	0,098	1
143204	117 mm	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	200	M5	4-6	0,009	1
143302	210	M5	6-9	0,013	1
143304	350	M5	9-12	0,024	1
143306	350	M5	12-15	0,029	1
143308	500	M5	15-19	0,200	1
143310	500	M5	19-25	0,052	1
143312	450	M5	25-31	0,400	1

Cord und cable grips

Art. no.	⟷	Ø	kg	PU
143336	2000	8-16	0,250	1
143338	2000	10-20	0,250	1
143340	2000	20-30	0,250	1
143342	2000	30-40	0,250	1

Cable grips for subterraneous cable laying

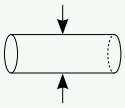
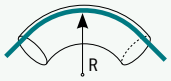
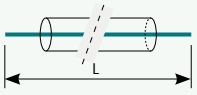
Hand-braided cable grips made from zinced steel braid with 1 loop or 2 loops and integrally moulded Talurit ferrule.

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
143314	1250	10-20	1	0,378	1
143318	1250	20-30	1	0,380	1
143322	1250	30-40	1	0,424	1
143326	1250	40-50	1	0,430	1
143330	1250	50-65	1	0,388	1
143334	1250	65-80	1	1,120	1

Art. no.	⟷	Ø	♀	kg	PU
143316	1250	10-20	2	0,465	1
143320	1250	20-30	2	0,460	1
143324	1250	30-40	2	0,510	1
143328	1250	40-50	2	0,200	1
143332	1250	50-65	2	0,520	1

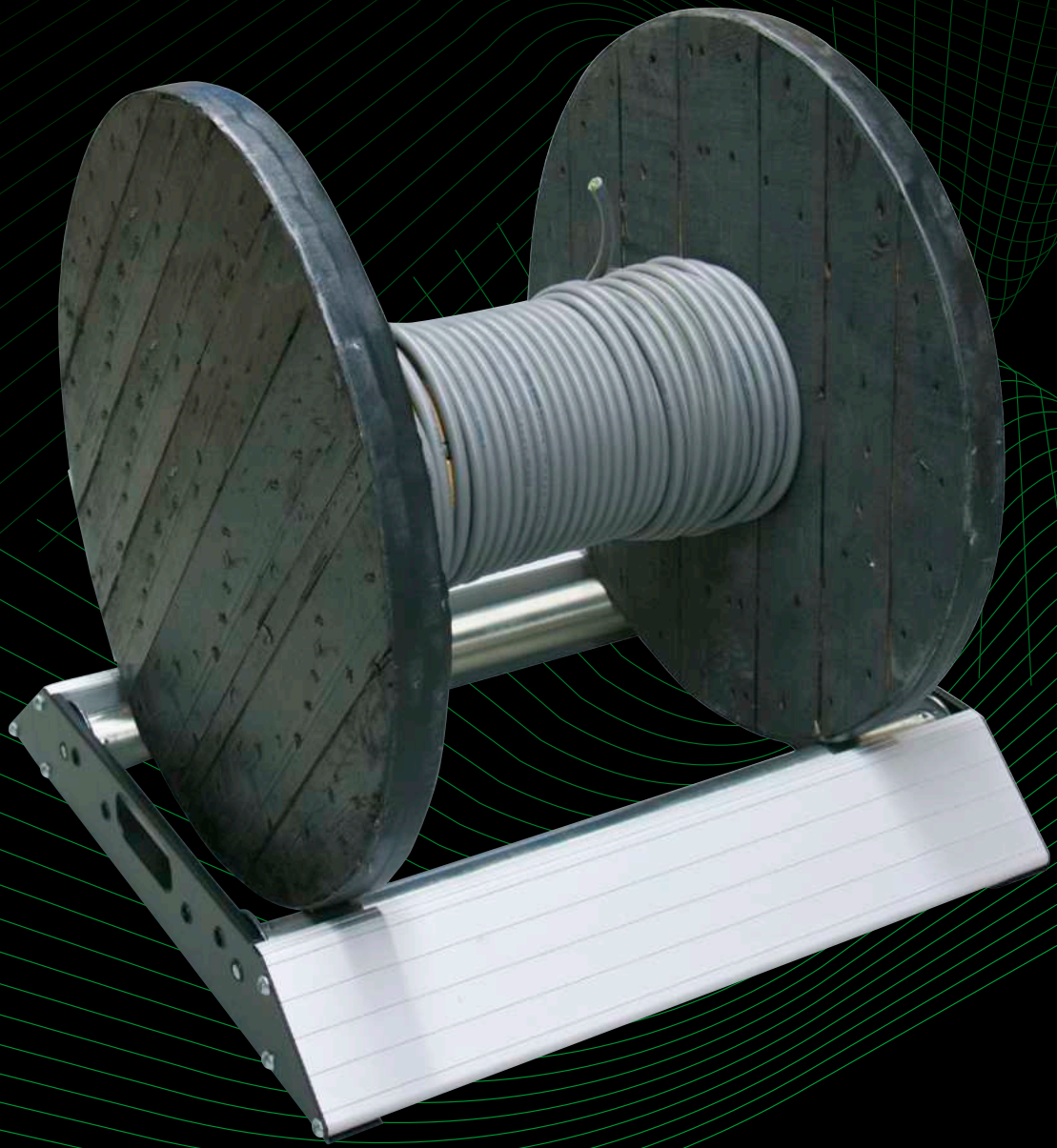
Legend cable pulling device

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)	88
PullTec 4,0 mm	16-32	+++	100	300	130	10-30 (+ 3-5 m)	87
PullTec 5,2 mm	20-32	+++	100	350	140	10-40 (+ 3-5 m)	87
FOX 4,5 mm	40-60	+++	310	1200	170	20-40 (+ 3-5 m)	89
SIX 6,0 mm	50-80	++++	400	2000	230	30-60 (+ 3-5 m)	90
FIX 7,5 mm	63-100	++++	500	3200	290	40-70 (+ 3-5 m)	91
STRONG 9,0 mm	63-125	++++	620	4400	340	60-150 (+ 3-5 m)	92
POWER 11,0 mm	63-150	++++	770	6250	500	100-300 (+ 3-5 m)	92
KING 15,0 mm	100-250	++++	1150	15000	550	150-450 (+ 3-5 m)	92
PERLON® 3,0 mm	16	+	80	200	110	5-15 (+ 2-3 m)	86
SPIRAL 4,0 mm	20-32	+	180	115	115	10-25 (+ 3-5 m)	86

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

✸ Best-seller Premium product

Decoiler



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Decoiler

Decoiler 600

The new 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/width	drum-Ø	drum/kg	kg	PU
143398	330	600	50	3,5	1

Decoiler 1200

The new 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/width	drum-Ø	drum/kg	kg	PU
143400 ✷	560	1200	175	9	1

Decoiler 1200 +

The new 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/width	drum-Ø	drum/kg	kg	PU
143402	660	1200	300	10,5	1

Cable unwinder

Cable unwinder

4 box cable unwinder.

Carton size 240 x 240 mm

Art. no.	drum/width	drum-Ø	drum/kg	kg	PU
143406	600	130	50	5,5	1

Cable unwinder

Length: 400 mm
Width: 400 mm
Height: 390 mm

Video 143404

Art. no.	drum-Ø	drum/kg	kg	PU
143404	600	50	8	1

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

✷ Best-seller Premium product

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 profi“ PREMIUM

Content in plastik case:
3 x basic module „CableGo“ + 3 wire brackets
3 x table clamp „CableGo“
3 x mounting bracket „CableGo“
1 x connection set and several mounting parts „CableGo“

Video 143422

Art. no.		kg	PU
143422	14 pcs.	4,800	1

Cable pulling device „CableGo starter“

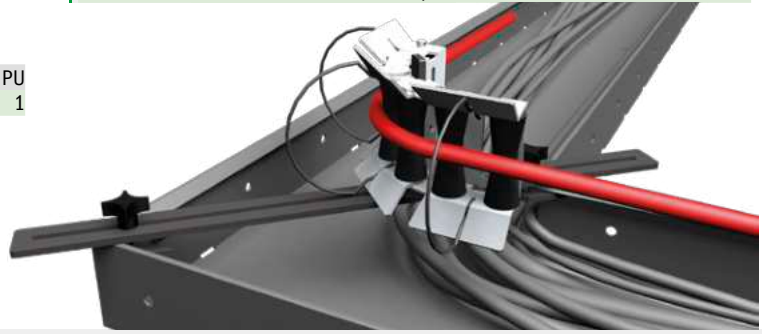
Content in plastik case:
1 x basic module „CableGo“ + 3 wire brackets
1 x table clamp „CableGo“
1 x mounting bracket „CableGo“

Art. no.		kg	PU
143420	6 pcs.	9,000	1

Cable pulling device „CableGo master“

Content in plastik case:
5 x basic module „CableGo“ + 3 wire brackets
5 x table clamp „CableGo“
5 x mounting bracket „CableGo“
1 x connection set and several mounting parts „CableGo“

Art. no.		kg	PU
143424	17 pcs.	6,800	1



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

Best-seller Premium product

SysCon cable pulling device „CableGo starter“

Content in SysCon stacking box art. 220372:
1 x basic module „CableGo“ + 3 wire brackets
1 x table clamp „CableGo“
1 x connection set and several mounting parts „CableGo“

Art. no.		kg	PU
143430	6 pcs.	3,700	1

SysCon cable pulling device „CableGo profi“

PREMIUM

Content in SysCon stacking box art. 220372:
3 x basic module „CableGo“ + 3 wire brackets
3 x table clamp „CableGo“
3 x mounting bracket „CableGo“
1 x connection set and several mounting parts „CableGo“

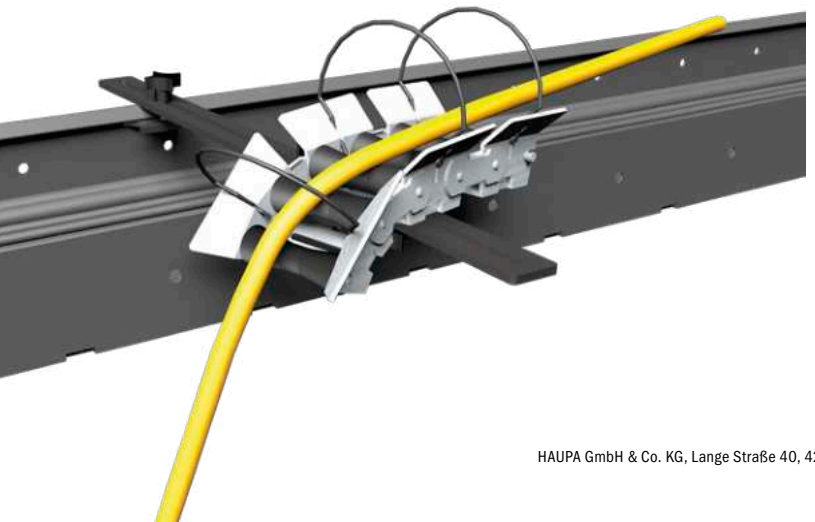
Art. no.		kg	PU
143432	14 pcs.	5,700	1

SysCon cable pulling device „CableGo master“

PREMIUM

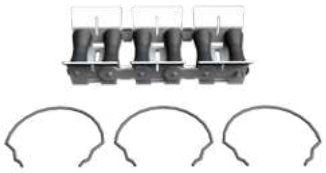
Content in SysCon stacking box art. 220372:
5 x basic module „CableGo“ + 3 wire brackets
5 x table clamp „CableGo“
5 x mounting bracket „CableGo“
1 x connection set basic module „CableGo“

Art. no.		kg	PU
143434	17 pcs.	7,700	1



Basic module „CableGo“ + 3 wire brackets

Basic module for easy cable penetrations in corners and roundings.



Art. no.		kg	PU
143440	4 pcs.	0,500	1

Table clamp „CableGo“

Table clamp for fixing basic modules.

Art. no.		kg	PU
143441	1 pcs.	0,080	1

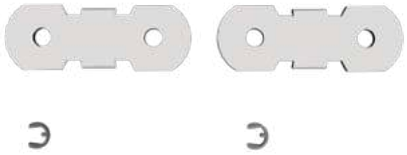
Mounting bracket „CableGo“

Mounting bracket for fixing basic modules.

Art. no.		kg	PU
143442	7 pcs.	0,360	1

Connection set basic module „CableGo“

Connection set for connecting several basic modules.



Art. no.		kg	PU
143443	2 pcs.	0,025	1

Set 3 wire brackets „CableGo“

Wire brackets for basic modules.

Art. no.		kg	PU
143444	3 pcs.	0,045	1

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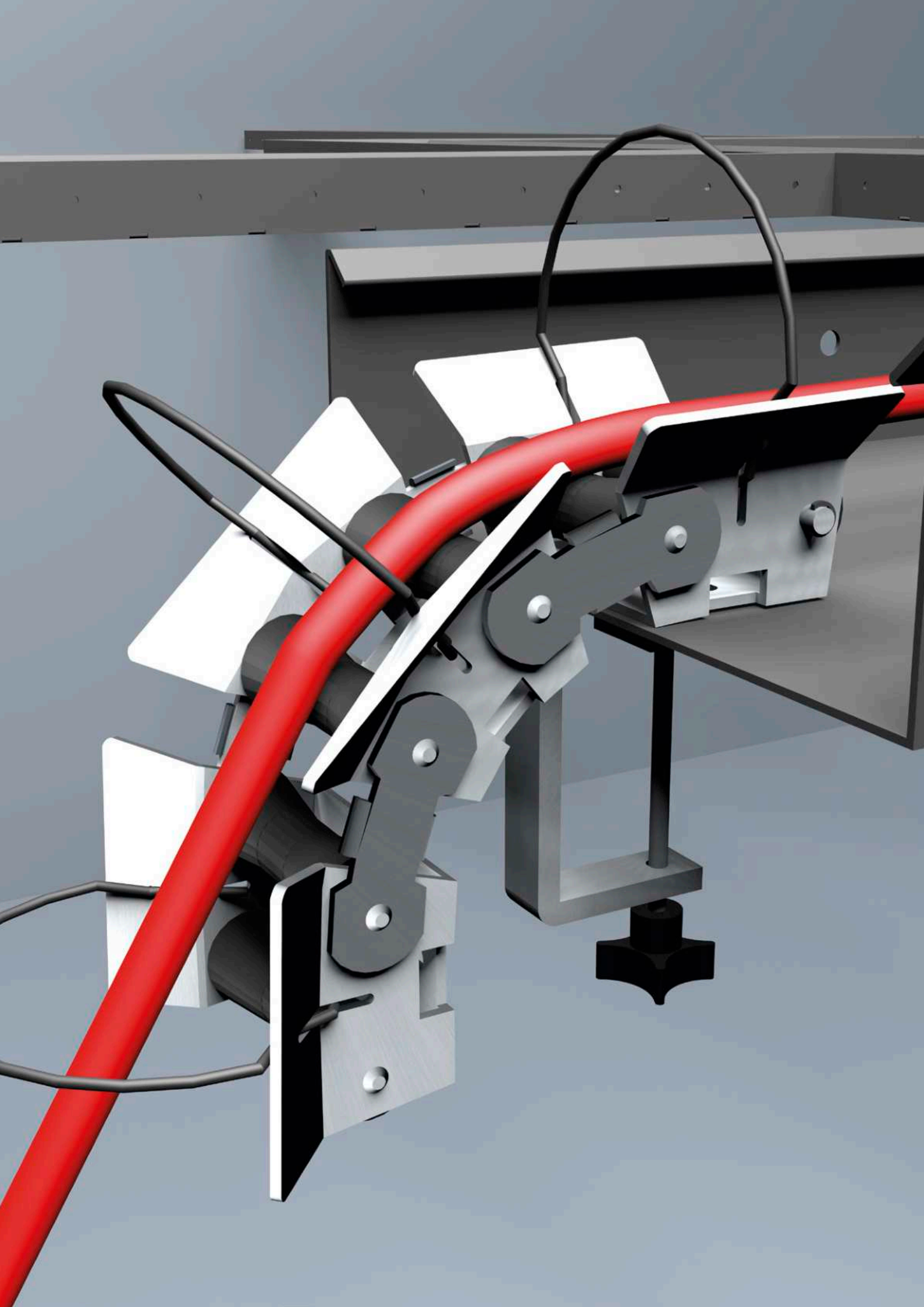

Connecting clamps

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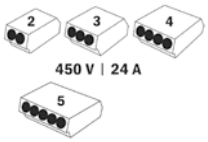
RoHS

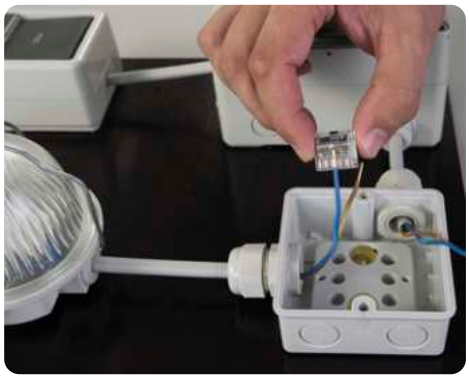
Connecting clamps, Nylon

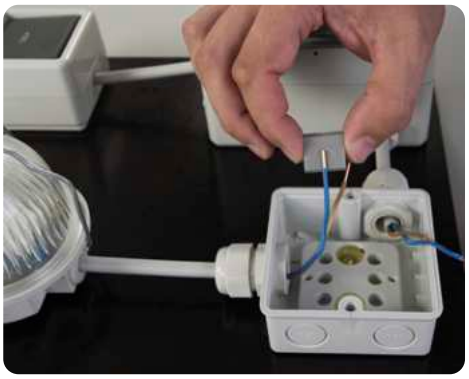
Nylon

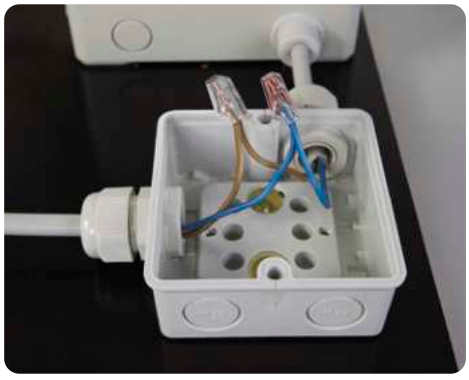
Connecting clamps, 2-5 pin, Nylon

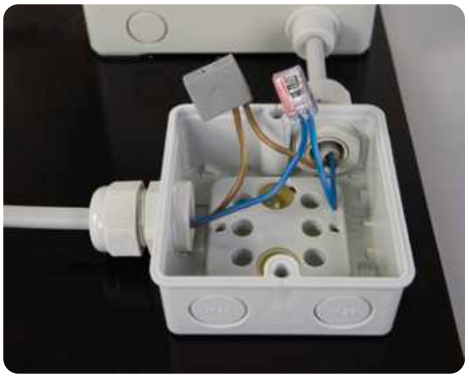
Art. no.	CSS	Pol	Volt	A	kg/100	PU
265033	**1,0 - 2,5**	2	450	24	0,013	100
265034	**1,0 - 2,5**	3	450	24	0,013	100
265035	**1,0 - 2,5**	4	450	24	0,013	100
265036	**1,0 - 2,5**	5	450	24	0,013	100











PU Packing unit PE Price unit

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

Best-seller Premium product

End sleeves

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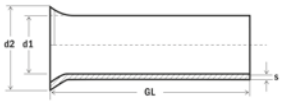
RoHS

End sleeves

- **of electrolytic copper, bare**
- **Dimensions to DIN 46228, Part 1**

Cu

Art. no.	CSS	d1	d2	s	TL	kg/100	PU
270141	**0,34**	0,85	1,8	0,15	**5**	0,003	1000
270140	**0,5**	1,0	2,1	0,15	**6**	0,004	1000
270140/500		1,0	2,1	0,15	**6**	0,002	500
270142	**0,75**	1,2	2,3	0,15	**6**	0,005	1000
270142/500		1,2	2,3	0,15	**6**	0,003	500
270143		1,2	2,3	0,15	**10**	0,005	1000
270143/500		1,2	2,3	0,15	**10**	0,005	500
270144		1,2	2,3	0,15	**12**	0,007	1000
270146	**1**	1,4	2,5	0,15	**6**	0,005	1000
270146/500		1,4	2,5	0,15	**6**	0,004	500
270148		1,4	2,5	0,15	**10**	0,007	1000
270148/500		1,4	2,5	0,15	**10**	0,006	500
270149		1,4	2,5	0,15	**12**	0,009	1000
270149/500		1,4	2,5	0,15	**12**	0,009	500
270150	**1,5**	1,7	2,8	0,15	**7**	0,005	1000
270150/500		1,7	2,8	0,15	**7**	0,005	500
270152		1,7	2,8	0,15	**10**	0,009	1000
270152/500		1,7	2,8	0,15	**10**	0,008	500
270154		1,7	2,8	0,15	**12**	0,012	1000
270154/500		1,7	2,8	0,15	**12**	0,009	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**	0,008	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	0,2	**9**	0,018	1000
270164/500		2,8	4,0	0,2	**9**	0,014	500
270166		2,8	4,0	0,2	**12**	0,019	1000
270166/500		2,8	4,0	0,2	**12**	0,018	500
270168		2,8	4,0	0,2	**18**	0,030	1000
270168/500		2,8	4,0	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**	0,068	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	0,2	**18**	0,114	100
270195		8,3	11,0	0,2	**20**	0,108	100
270196		8,3	11,0	0,2	**22**	0,100	100
270198		8,3	11,0	0,2	**26**	0,110	100



PU Packing unit PE Price unit

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

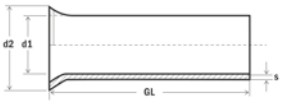
Best-seller Premium product

RoHS

End sleeves

- **of electrolytic copper, tin-plated**
- **Dimensions to DIN 46228, Part 1**

Cu



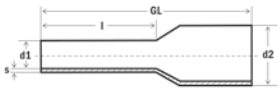
Art. no.	CSS	d1	d2	s	TL	kg/100	PU
270066	**0,25**	0,75	1,7	0,15	**5**	0,003	1000
270066/500		0,75	1,7	0,15	**5**	0,002	500
270068	**0,34**	0,85	1,8	0,15	**5**	0,003	1000
270068/500		0,85	1,8	0,15	**5**	0,001	500
270070	**0,5**	1,0	2,1	0,15	**6**	0,003	1000
270070/500		1,0	2,1	0,15	**6**	0,003	500
270072	**0,75**	1,2	2,3	0,15	**6**	0,003	1000
270072/500		1,2	2,3	0,15	**6**	0,003	500
270074		1,2	2,3	0,15	**12**	0,007	1000
270074/500		1,2	2,3	0,15	**12**	0,003	500
270076	**1**	1,4	2,5	0,15	**6**	0,004	1000
270077		1,4	4,0	0,15	**8**	0,005	1000
270078		1,4	2,5	0,15	**10**	0,007	1000
270078/500		1,4	2,5	0,15	**10**	0,003	500
270079		1,4	2,5	0,15	**12**	0,008	1000
270079/500		1,4	2,5	0,15	**12**	0,004	500
270080	**1,5**	1,7	2,8	0,15	**7**	0,006	1000
270082		1,7	2,8	0,15	**10**	0,009	1000
270082/500		1,7	2,8	0,15	**10**	0,005	500
270084		1,7	2,8	0,15	**12**	0,010	1000
270084/500		1,7	2,8	0,15	**12**	0,005	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**	0,018	1000
270088	**2,5**	2,2	3,4	0,15	**7**	0,008	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	0,2	**9**	0,015	1000
270096		2,8	4,0	0,2	**12**	0,020	1000
270097		2,8	4,0	0,2	**15**	0,024	1000
270098		2,8	4,0	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	0,0	**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	100
270124	**35**	8,3	11,0	0,2	**18**	0,112	100
270126		8,3	11,0	0,2	**22**	0,132	100
270128		8,3	11,0	0,2	**25**	0,143	100
270130		8,3	11,0	0,2	**30**	0,155	100
270131	**50**	10,3	13,0	0,3	**22**	0,202	100
270132	**70**	12,5	15,0	0,4	**25**	0,259	100
270134	**95**	14,5	17,0	0,4	**30**	0,500	50
270135	**120**	16,5	19,0	0,5	**32**	0,660	50
270136	**150**	18,5	21,0	0,5	**38**	0,529	50
270137	**185**	20,0	23,5	0,6	**40**	1,350	25

End sleeves

RoHS

End sleeves DIN colour range

- **insulated**
- **Electrolytic copper, tin-plated**
- **Dimensions to DIN 46228. Part 4**
- **DIN colour range III**



Art. no.	CSS		d1	d2	s	TL	l	kg/100	PU	
270800 ✷	**0,5**	white	1,1	3,1	0,15	14,0	**8**	0,010	100	
270801		white	1,1	3,1	0,15	14,0	**8**	0,009	500	
270802	**0,75**	grey	1,25	3,3	0,15	14,0	**8**	0,009	500	
270803 ✷		grey	1,25	3,3	0,15	14,0	**8**	0,013	100	
272803		grey	1,2	2,8	0,15	16,0	**10**	0,012	100	
270804	**1**	red	1,5	3,5	0,15	14,6	**8**	0,014	100	
270805		red	1,5	3,5	0,15	14,6	**8**	0,009	500	
272804		red	1,4	3,0	0,15	16,0	**10**	0,013	100	
270806		red	1,5	3,5	0,15	18,0	**12**	0,013	500	
270807	**1,5**	black	1,7	4,0	0,15	14,6	**8**	0,013	500	
270808 ✷		black	1,7	4,0	0,15	14,6	**8**	0,014	100	
270809		black	1,7	4,0	0,15	14,6	**10**	0,111	100	
270810 ✷	**2,5**	blue	2,3	4,9	0,15	15,0	**8**	0,020	100	
270811		blue	2,3	4,9	0,15	15,0	**8**	0,017	500	
270812		blue	2,3	4,9	0,15	16,5	**10**	0,018	500	
272812		blue	2,2	4,2	0,15	17,4	**10**	0,030	100	
270813		blue	2,3	4,9	0,15	25,0	**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	0,2	20,0	**12**	0,045	100	
270820		yellow	3,6	7,0	0,2	26,0	**18**	0,055	100	
270822 ✷	**10**	red	4,6	8,4	0,2	21,5	**12**	0,057	100	
270824		red	4,6	8,4	0,2	27,5	**18**	0,072	100	
270826 ✷	**16**	blue	6,0	9,6	0,2	22,2	**12**	0,082	100	
270828		blue	6,0	9,6	0,2	28,2	**18**	0,103	100	
270830 ✷	**25**	yellow	7,3	12,0	0,2	30,0	**16**	0,142	50	
270832		yellow	7,3	12,0	0,2	32,0	**18**	0,152	50	
270834		yellow	7,3	12,0	0,2	36,0	**22**	0,168	50	
270836 ✷	**35**	red	8,3	13,5	0,2	30,0	**16**	0,168	50	
270838		red	8,3	13,5	0,2	32,0	**18**	0,178	50	
270840		red	8,3	13,5	0,2	39,0	**25**	0,218	50	
270842 ✷	**50**	blue	10,3	15,0	0,3	36,0	**20**	0,344	50	
270844		blue	10,3	15,0	0,3	40,0	**25**	0,404	50	
270762	**70**	yellow	13,5	17,2	0,4	37,0	**21**	0,540	25	
270859	**95**	red	14,8	15,6	0,4	44,0	**25**	0,600	25	
270861	**120**	blue	16,7	17,7	0,5	47,6	**27**	0,780	25	
270863	**150**	yellow	19,6	20,6	0,5	57,6	**32**	0,123	25	

End sleeves colour range III, DIN “SmallPack”

- **insulated**
- **Electrolytic copper, tin-plated**
- **Dimensions to DIN 46228. Part 4**
- **DIN colour range III**

Art. no.	CS		d1	d2	s	TL	l	kg/100		PU	
270800/25	**0,5**	white	1,1	3,1	0,15	14,0	**8**	0,010	250	25	
270803/25	**0,75**	grey	1,25	3,3	0,15	14,0	**8**	0,013	250	25	
270804/25	**1**	red	1,5	3,5	0,15	14,6	**8**	0,014	250	25	
270808/25	**1,5**	black	1,7	4,0	0,15	14,6	**8**	0,014	250	25	
270810/25	**2,5**	blue	2,3	4,9	0,15	15,0	**8**	0,020	250	25	
270814/25	**4**	grey	2,9	5,6	0,2	17,7	**10**	0,030	250	25	
270818/10	**6**	yellow	3,6	7,0	0,2	20,0	**12**	0,045	100	10	
270822/10	**10**	red	4,6	8,4	0,2	21,5	**12**	0,057	100	10	
270826/10	**16**	blue	6,0	9,6	0,2	22,2	**12**	0,082	100	10	
270830/5	**25**	yellow	7,3	12,0	0,2	30,0	**16**	0,142	50	5	
270836/5	**35**	red	8,3	13,5	0,2	30,0	**16**	0,168	50	5	

PU Packing unit PE Price unit

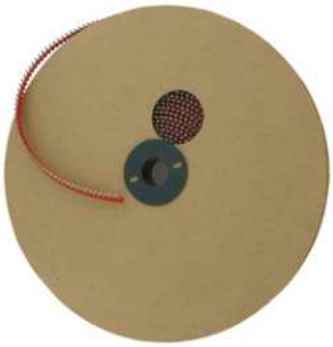
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Best-seller Premium product

End sleeves

End sleeves in tape form, to DIN 46228 P. 4

- **insulated**
- **Copper/plastic, tin-plated surface**
- **DIN color range III**



Art. no.	CSS		l	coils	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	**1,0**	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

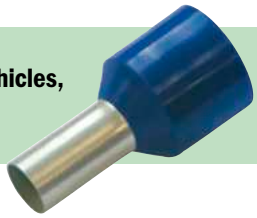
End sleeves in tape form, to DIN 46228 P. 4

- **insulated**
- **Copper/plastic, tin-plated surface**

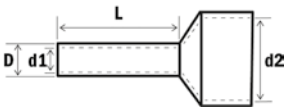
Art. no.	CSS		l	dispenser	kg/100	PU
272280	**0,5**	white	**8**	150x150x18 mm	0,070	1000
272284	**0,75**	grey	**8**	150x150x18 mm	0,100	1000
272290	**1**	red	**8**	150x150x18 mm	0,120	1000
272294	**1,5**	black	**8**	150x150x18 mm	0,120	1000
272298	**2,5**	blue	**8**	150x150x18 mm	0,140	500

End sleeves for short-circuit-proof cables

- **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



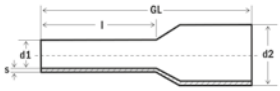
Art. no.	CSS		d1	d2	l	kg/100	PU	
270900	**1,5**	black	1,8	6,8	**8**	0,026	100	
270902		black	1,8	6,8	**10**	0,024	100	
270904	**2,5**	blue	2,3	7,8	**8**	0,033	100	
270906		blue	2,3	7,8	**12**	0,360	100	
270908	**4**	grey	2,9	7,8	**10**	0,046	100	
270910	**6**	yellow	3,8	7,3	**12**	0,062	100	
270912	**10**	red	4,5	9,8	**12**	0,081	100	
270914	**16**	blue	6,0	12,2	**12**	0,107	100	



End sleeves

End sleeves, colour range I, (french)

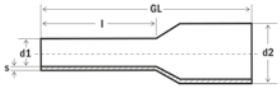
- **insulated**
- **Electrolytic copper, tin-plated**
- **Dimensions to DIN 46228. Part 4**
- **Colour range I, french**



Art. no.	CSS		d1	d2	s	TL	l	kg/100	PU	
270014	**0,25**	yellow	0,8	2,3	0,15	10,4	**6**	0,005	100	
270015		yellow	0,8	2,3	0,15	10,4	**6**	0,023	500	
270016	**0,34**	green	0,8	2,5	0,15	12,4	**6**	0,022	500	
270800 ✸	**0,5**	white	1,1	3,1	0,15	14,0	**8**	0,010	100	
270801		white	1,1	3,1	0,15	14,0	**8**	0,009	500	
270021	**0,75**	blue	1,25	3,3	0,15	14,5	**8**	0,021	100	
270022		blue	1,25	3,3	0,15	14,5	**8**	0,021	500	
270804	**1**	red	1,5	3,5	0,15	14,6	**8**	0,014	100	
270805		red	1,5	3,5	0,15	14,6	**8**	0,009	500	
270808 ✸	**1,5**	black	1,7	4,0	0,15	14,6	**8**	0,014	100	
270027		black	1,7	4,0	0,15	24,4	**18**	0,022	100	
270028		black	1,7	4,0	0,15	24,4	**18**	0,022	500	
270029	**2,5**	grey	2,3	4,9	0,15	15,0	**8**	0,020	100	
270030		grey	2,3	4,9	0,15	15,0	**8**	0,020	500	
270031		grey	2,3	4,9	0,15	21,0	**18**	0,028	100	
270032		grey	2,3	4,9	0,15	21,0	**18**	0,028	500	
270033	**4**	orange	2,9	5,6	0,2	17,7	**10**	0,029	100	
270034		orange	2,9	5,6	0,2	17,7	**10**	0,029	500	
270036		orange	2,9	5,6	0,2	25,7	**18**	0,040	100	
270038	**6**	green	3,6	7,0	0,2	20,0	**12**	0,043	100	
270040		green	3,6	7,0	0,2	26,0	**18**	0,065	100	
270042	**10**	brown	4,6	8,4	0,2	21,5	**12**	0,046	100	
270044		brown	4,6	8,4	0,2	27,5	**18**	0,073	100	
270046	**16**	ivory	6,0	9,6	0,2	24,2	**12**	0,081	100	
270048		ivory	6,0	9,6	0,2	28,2	**18**	0,103	100	
270049	**25**	black	7,3	12,0	0,2	30,0	**16**	0,070	50	
270050		black	7,3	12,0	0,2	32,0	**18**	0,079	50	

End sleeves, colour range II, (german)

- **insulated**
- **Electrolytic copper, tin-plated**
- **Colour range II, german**



Art. no.	CSS		d1	d2	s	TL	l	kg/100	PU	
270714	**0,25**	light blue	0,8	2,3	0,15	10,4	**6**	0,007	100	
270715		light blue	0,8	2,3	0,15	10,4	**6**	0,005	500	
270716	**0,34**	emerald	0,8	2,5	0,15	10,4	**6**	0,005	500	
270719	**0,5**	orange	1,1	3,1	0,15	14,0	**8**	0,010	100	
270720		orange	1,1	3,1	0,15	14,0	**8**	0,009	500	
270721	**0,75**	white	1,25	3,3	0,15	14,6	**8**	0,012	100	
270722		white	1,25	3,3	0,15	14,6	**8**	0,011	500	
272721		white	1,2	2,8	0,15	16,0	**10**	0,012	100	
270723	**1**	yellow	1,5	3,5	0,15	14,6	**8**	0,013	100	
270724		yellow	1,5	3,5	0,15	14,6	**8**	0,011	500	
272723		yellow	1,4	3,0	0,15	16,0	**10**	0,013	100	
270725	**1,5**	red	1,7	4,0	0,15	14,6	**8**	0,015	100	
270726		red	1,7	4,0	0,15	14,6	**8**	0,013	500	
272725		red	1,7	3,5	0,15	16,0	**10**	0,015	100	
270727		red	1,7	4,0	0,15	24,4	**18**	0,023	100	
270728		red	1,7	4,0	0,15	24,4	**18**	0,023	500	
270810 ✸	**2,5**	blue	2,3	4,9	0,15	15,0	**8**	0,020	100	
270811		blue	2,3	4,9	0,15	15,0	**8**	0,017	500	
270812		blau	2,3	4,9	0,15	16,5	**8**	0,018	500	
272812		blau	2,3	4,9	0,15	17,4	**10**	0,030	500	
270813		blue	2,3	4,9	0,15	25,0	**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	0,2	20,0	**12**	0,050	100	
270740		black	3,6	7,0	0,2	26,0	**18**	0,062	100	
270742	**10**	ivory	4,6	8,4	0,2	21,5	**12**	0,066	100	
270744		ivory	4,6	8,4	0,2	27,5	**18**	0,081	100	
270746	**16**	green	6,0	9,6	0,2	22,2	**12**	0,080	100	
270748		green	6,0	9,6	0,2	28,2	**18**	0,104	100	
270750	**25**	brown	7,3	11,2	0,2	29,0	**16**	0,132	50	
270754	**35**	beige	8,3	12,7	0,2	30,0	**16**	0,170	50	
270756		beige	8,3	12,7	0,2	39,0	**25**	0,400	25	
270758	**50**	olive	10,3	15,0	0,3	36,4	**20**	0,328	25	
270760		olive	10,3	15,0	0,3	41,0	**25**	0,300	25	
270762	**70**	yellow	13,5	17,2	0,4	37,0	**21**	0,536	25	

PU Packing unit PE Price unit

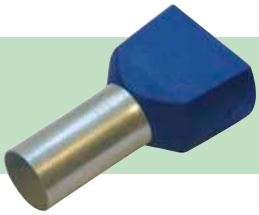
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Best-seller Premium product

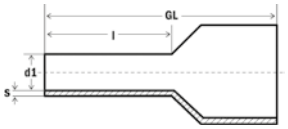
RoHS

Twin-end sleeves two cables DIN

- **tube section of electrolytic copper**
- **galvanically tin-plated**
- **plastic collar of PP**
- **heat-resistant to 105°C**



Art. no.	CSS		d1	s	TL	l	kg/100	PU
270778 *	**0,5**	white	1,5	0,15	15,0	**8**	0,011	100
270780 *	**0,75**	grey	1,8	0,15	15,0	**8**	0,013	100
270782		grey	1,8	0,15	17,0	**10**	0,014	100
270784 *	**1**	red	2,05	0,15	15,0	**8**	0,014	100
270787		red	2,05	0,15	17,0	**10**	0,015	100
270788 *	**1,5**	black	2,3	0,15	16,0	**8**	0,017	100
270790		black	2,3	0,15	20,0	**12**	0,022	100
270792 *	**2,5**	blue	2,9	0,2	18,5	**10**	0,029	100
270794 *		blue	2,9	0,2	21,5	**13**	0,033	100
270796 *	**4**	grey	3,8	0,2	23,0	**12**	0,049	100
270797 *	**6**	yellow	4,9	0,2	25,0	**14**	0,072	100
270798 *	**10**	red	6,5	0,2	26,0	**14**	0,090	100
270799 *	**16**	blue	8,3	0,2	31,0	**16**	0,078	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**

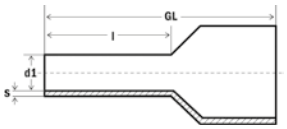
Art. no.	LCSQ		d1	s	TL	l	kg/100		PU
270778/25	**0,5**	white	1,5	0,15	15,0	**8**	0,011	250	25
270780/25	**0,75**	grey	1,8	0,15	15,0	**8**	0,013	250	25
270784/25	**1**	red	2,05	0,15	15,0	**8**	0,014	250	25
270788/25	**1,5**	black	2,3	0,15	16,0	**8**	0,017	250	25
270792/25	**2,5**	blue	2,9	0,2	18,5	**10**	0,029	250	25
270796/10	**4**	grey	3,8	0,2	23,0	**12**	0,049	100	10
270797/10	**6**	yellow	4,9	0,2	25,0	**14**	0,072	100	10
270798/5	**10**	red	6,5	0,2	26,0	**14**	0,090	100	10
270799/5	**16**	blue	8,3	0,2	31,0	**16**	0,078	50	5

RoHS

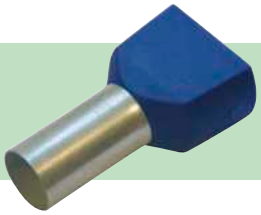
Twin-end sleeves two cables, colour range I, (french)

- tube section of electrolytic copper
- galvanically tin-plated
- plastic collar of PP
- heat-resistant to 105°C

Art. no.	LQ		d1	s	GL	l	kg/100	PU
273400	**0,75**	blue	1,8	0,15	15,0	**8**	0,074	100
273402		blue	1,8	0,15	17,0	**10**	0,074	100
270784 ✸	**1**	red	2,05	0,15	15,0	**8**	0,022	100
270787		red	2,05	0,15	17,0	**10**	0,026	100
270788 ✸	**1,5**	black	2,3	0,15	16,0	**8**	0,022	100
270790		black	2,3	0,15	20,0	**12**	0,026	100
273404	**2,5**	grey	2,9	0,2	18,5	**10**	0,034	100
273406		grey	2,9	0,2	21,5	**13**	0,036	100
273408	**4**	orange	3,8	0,2	23,0	**12**	0,050	100
273410	**6**	green	6,5	0,2	26,0	**14**	0,072	100
273412	**10**	brown	6,5	0,2	26,0	**14**	0,096	100
273414	**16**	ivory	8,5	0,2	31,0	**16**	0,082	100

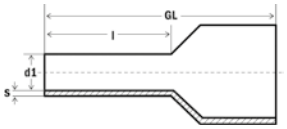


Twin-end sleeves, colour series II (German)



- **insulated**
- **Copper/plastic, tin-plated surface**
- **Colour range II, german**

Art. no.	CSS		d1	s	TL	l	kg/100	PU
273350	**0,5**	orange	1,5	0,15	15,0	**8**	0,031	100
273352	**0,75**	white	1,8	0,15	15,0	**8**	0,031	100
273354		white	1,8	0,15	17,0	**10**	0,031	100
273356	**1**	yellow	2,05	0,15	15,0	**8**	0,031	100
273358		yellow	1,7	0,15	17,0	**12**	0,031	100
273360	**1,5**	red	2,3	0,15	16,0	**8**	0,031	100
273362		red	2,3	0,15	20,0	**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	23,0	**12**	0,049	100
273364	**6**	black	4,9	0,2	25,0	**14**	0,031	100
273366	**10**	ivory	6,5	0,2	26,0	**14**	0,031	100
273368	**16**	green	8,3	0,2	31,0	**16**	0,031	50



PU Packing unit PE Price unit

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

✸ Best-seller Premium product

RoHS

Empty dispenser box

Art. no.	kg	PU
270870	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.	kg	PU
270217	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.	kg	PU
270218	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.	kg	PU
270854 ✷	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.	kg	PU
270858	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.	kg	PU
270795 ✷	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.	kg	PU
270852	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.	kg	PU
270856	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.	kg	PU
270850	0,090	1

haupa®
... 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.	kg	PU
270864	0,109	1

Slide Box with DIN TWIN end sleeves

Content:
50 pcs. white, 2 x 0,5 mm², art. 270778
50 pcs. grey, 2 x 0.75 mm², art. 270780
50 pcs. red, 2 x 1.0 mm², art. 270784
50 pcs. black, 2 x 1.5 mm², art. 270788
25 pcs. blue, 2 x 2.5 mm², art. 270792

Art. no.	kg	PU
270866	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.	Content	type	kg	PU
270888	5000	DIN	2,150	1
270890	5000	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.	Content	type	kg	PU
270891	5300	DIN	2,100	1
270892	5300	I	2,100	1
270893	5300	II	2,100	1

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

Best-seller Premium product

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.	Content	type	kg	PU
270882/DIN	1150	DIN	1,740	1
270882	1150	I	1,700	1
270894	1150	II	2,150	1

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.	Content	kg	PU
270899	4700	2,150	1

Assortment for Combi-Crimp – DIN

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.	Content	type	kg	PU
270895 ✷	3900	DIN	4,300	1
270896	3900	I	4,300	1
270897	3900	II	4,300	1

Assortments of end sleeves - SysCon

SysCon end sleeves & 210804

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.	Content	kg	PU
220382	4100	4,300	1

SysCon end sleeves & 210842

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.	Content	kg	PU
220390	4950	4,300	1

Insulated crimp terminals

haupa®

... 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

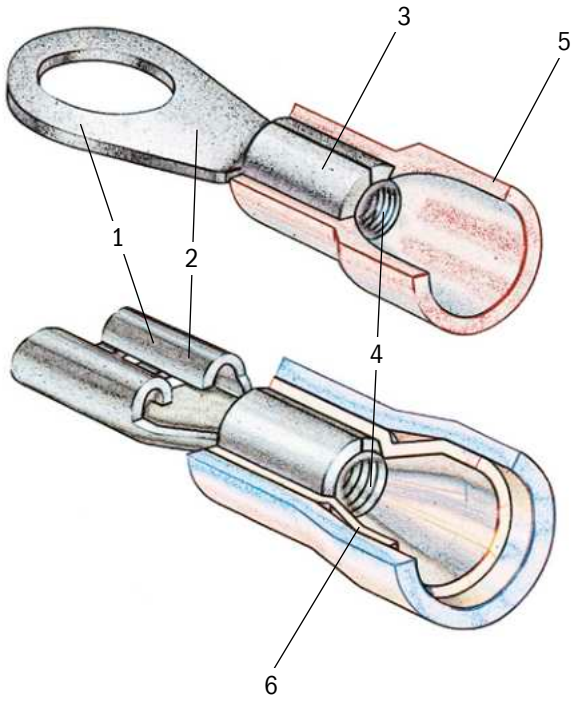
The standard models are available with insulation in special self-extinguishing PVC or in Nylon and in colours according to International Standards. The high quality of the insulation materials employed for all crimp terminals ensure a high degree of resistance to the mechanical solicitations that they must undergo during the crimping operations without alteration of their insulation characterictics.

RoHS

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

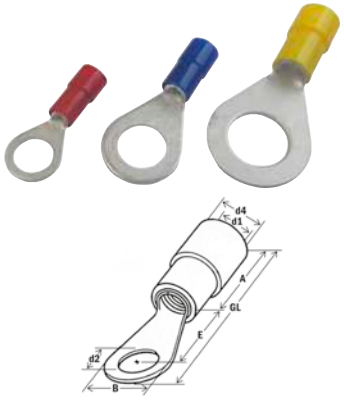
Crimp terminals, PVC-insulated

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

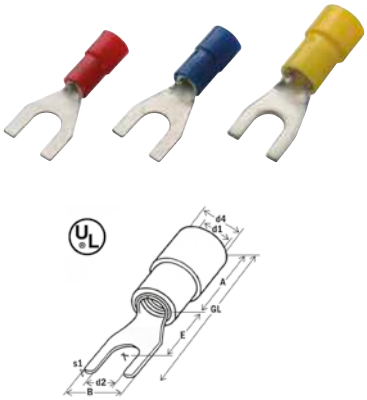


Art. no.	CSS	M	d2	d1	d4	s1	A	TL	E	B	kg/100		PU
260250	**0,5 - 1,0**	2,5	2,6	1,95	4,2	0,8	10,4	22,2	8,6	8,0	0,071	500	100
260252		3	3,2	1,95	4,2	0,8	10,4	15,4	4,4	5,5	0,072	500	100
260254		3,5	3,6	1,95	4,2	0,8	10,4	22,2	7,8	8,0	0,065	500	100
260256 *		4	4,2	1,95	4,2	0,8	10,4	22,0	7,5	8,0	0,079	500	100
260258 *		5	5,2	1,95	4,2	0,8	10,4	22,4	8,0	8,0	0,096	500	100
260260 *		6	6,2	1,95	4,2	0,8	10,4	23,7	8,6	10,0	0,106	500	100
260262		8	8,3	1,95	4,2	0,8	10,4	30,0	12,6	14,0	0,136	500	100
260264		10	10,4	1,95	4,2	0,8	10,4	30,0	12,8	14,0	0,190	500	100
260267	**1,5 - 2,5**	3	3,2	2,45	4,8	0,8	11,0	18,5	4,3	6,4	0,078	500	100
260268		3,5	3,7	2,45	4,8	0,8	11,0	23,0	8,0	8,0	0,078	500	100
260270 *		4	4,2	2,45	4,8	0,8	11,0	23,0	8,0	8,0	0,092	500	100
260272 *		5	5,2	2,45	4,8	0,8	11,0	26,0	9,8	10,0	0,111	500	100
260274 *		6	6,2	2,45	4,8	0,8	11,0	28,0	11,7	11,0	0,123	500	100
260276		8	8,2	2,45	4,8	0,8	11,0	33,0	14,5	15,0	0,147	500	100
260278		10	10,5	2,45	4,8	0,8	11,0	33,0	14,5	15,0	0,200	500	100
260282	**4 - 6**	3,5	3,7	3,5	6,6	1,0	14,0	26,5	8,4	8,0	0,163	500	100
260284		4	4,2	3,5	6,6	1,0	14,0	26,5	8,4	8,0	0,168	500	100
260286		5	5,2	3,5	6,6	1,0	14,0	29,6	10,2	10,0	0,186	500	100
260288 *		6	6,2	3,5	6,6	1,0	14,0	30,6	11,0	11,0	0,196	500	100
260290 *		8	8,2	3,5	6,6	1,0	14,0	37,0	15,3	15,0	0,243	500	100
260292		10	10,5	3,5	6,6	1,0	14,0	40,0	16,5	19,0	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

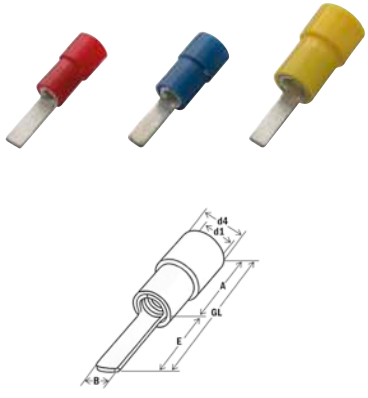


Art. no.	CSS	M	d2	d1	d4	s1	A	TL	E	B	kg/100		PU
260300	**0,5 - 1,0**	3	3,2	1,95	4,2	0,8	10,4	20,0	6,7	5,6	0,065	500	100
260302		3,5	3,7	1,95	4,2	0,8	10,4	19,4	6,5	6,5	0,065	500	100
260304 *		4	4,2	1,95	4,2	0,8	10,4	20,9	6,3	6,4	0,070	500	100
260306		5	5,2	1,95	4,2	0,8	10,4	21,2	8,0	8,0	0,092	500	100
260308		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	11,0	23,0	8,4	5,6	0,079	500	100
260312		3,5	3,7	2,45	4,8	0,8	11,0	20,3	5,3	6,6	0,085	500	100
260314 *		4	4,2	2,45	4,8	0,8	11,0	20,3	5,3	6,6	0,084	500	100
260316		5	5,2	2,45	4,8	0,8	11,0	25,0	9,5	9,1	0,109	500	100
260318		6	6,3	2,45	4,8	0,8	11,0	27,0	11,2	10,0	0,118	500	100
260320	**4,0 - 6,0**	4	4,2	3,5	6,6	1,0	14,0	26,0	7,2	8,1	0,116	500	100
260322 *		5	5,2	3,5	6,6	1,0	14,0	28,5	10,5	9,0	0,179	500	100
260324		6	6,3	3,5	6,6	1,0	14,0	29,5	11,0	11,0	0,188	500	100
260326		8	8,2	3,5	6,6	1,0	14,0	35,2	15,0	15,2	0,229	500	100
260328		10	10,5	3,5	6,6	1,0	14,0	38,0	16,6	19,0	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	d4	A	TL	E	B	kg/100		PU
260330	**0,5 - 1,0**	1,7	4,2	10,4	19,4	9,0	2,8	0,058	500	100
260331		1,7	4,2	10,4	24,9	14,5	3,0	0,070	500	100
260332	**1,5 - 2,5**	2,3	4,8	10,4	19,4	9,0	2,8	0,066	500	100
260333		2,3	4,8	10,4	26,4	16,0	2,8	0,080	500	100
260334	**4 - 6**	3,4	6,8	13,5	23,5	10,0	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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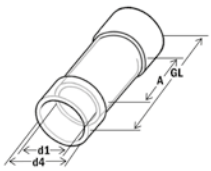
Crimp terminals, PVC-insulated

RoHS

Butt connectors

- of electrolytic copper, tin-plated • Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC +75°/600V

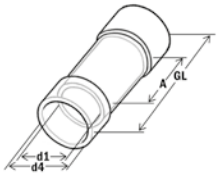


Art. no.		CSS	d1	d4	A	TL	kg/100		PU
260350	✸	**0,5 - 1,0**	1,7	4,0	15	22,7	0,110	500	100
260352	✸	**1,5 - 2,5**	2,3	4,5	15	22,7	0,130	500	100
260354	✸	**4,0 - 6,0**	3,4	6,8	15	26,7	0,230	500	100

Parallel connectors

- of electrolytic copper, tin-plated • Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC +75°/600V

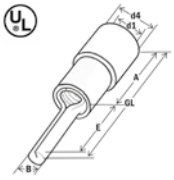


Art. no.		CSS	d1	d4	A	TL	kg/100		PU
260360		**0,5 - 1,0**	1,7	4,0	8,0	16,0	0,060	500	100
260362		**1,5 - 2,5**	2,3	4,5	8,0	16,0	0,080	500	100
260364		**4,0 - 6,0**	3,4	6,8	8,0	20,5	0,140	500	100

Round pins

- of electrolytic copper, tin-plated • Easy Entry
- PVC-insulated, with expanded insulating sleeve, suitable for harmonised cables

PVC +75°/600V

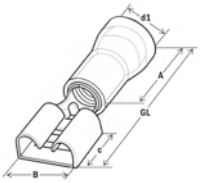


Art. no.		CSS	d1	d4	A	TL	E	B	kg/100		PU
260370		**0,5 - 1,0**	1,95	4,20	10,4	22,4	12,0	1,8	0,070	500	100
260371			1,95	4,20	10,4	20,0	9,0	1,8	0,060	500	100
260372		**1,5 - 2,5**	2,45	4,8	11,0	23,0	12,0	1,8	0,080	500	100
260373			2,45	4,8	11,0	20,0	9,0	1,8	0,070	500	100
260374		**4,0 - 6,0**	3,5	6,6	14,0	28,0	14,0	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	TL	c	B	material	kg/100		PU
260380		**0,5 - 1,0**	2,8x0,5	3,5	9,5	17,9	6,4	3,2	PVC	0,070	500	100
260382			2,8x0,8	3,5	9,5	17,9	6,4	3,2	PVC	0,070	500	100
260384			4,8x0,5	3,5	9,5	18,7	6,0	5,0	PVC	0,080	500	100
260386			4,8x0,8	3,5	9,5	18,7	6,0	5,0	PVC	0,080	500	100
260400			5,2x0,8	3,5	9,5	18,7	6,4	5,5	PVC	0,090	500	100
260392	✸		6,3x0,8	3,5	9,5	20,5	7,8	6,6	PVC	0,100	500	100
260388		**1,5 - 2,5**	4,8x0,5	4,3	9,5	18,7	6,0	5,0	PVC	0,090	500	100
260390			4,8x0,8	4,3	9,5	18,7	6,0	5,0	PVC	0,090	500	100
260402			5,2x0,8	4,3	9,5	18,7	6,4	5,5	PVC	0,090	500	100
260394	✸		6,3x0,8	4,3	9,5	20,5	7,8	6,6	PVC	0,120	500	100
260396	✸	**4,0 - 6,0**	6,3x0,8	6,2	13,5	24,5	7,8	6,6	PVC	0,190	500	100
260404			9,8x1,1	6,2	13,5	29,2	12,0	10,0	PVC	0,260	500	100

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

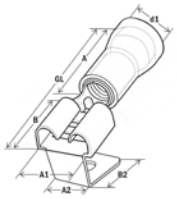
Crimp terminals, PVC-insulated

RoHS

Socket sleeves (female) with branch

- **Brass, tin-plated, PVC-insulated**
- **with vibration-free copper sleeve • Easy Entry**

PVC -75°/600V

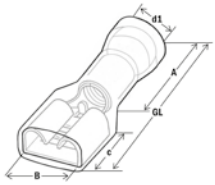


Art. no.	CSS	plug	d1	A	TL	A1	A2	B	B2	material	kg/100		PU
260410	**0,5 - 1,0**	6,3x0,8	3,5	9,5	22,2	6,6	6,3	7,8	8,0	PVC	0,140	500	100
260412	**1,5 - 2,5**	6,3x0,8	4,3	9,5	22,2	6,8	6,3	7,8	8,0	PVC	0,150	500	100
260411	**4,0 - 6,0**	6,3x0,8	4,3	9,5	22,2	6,8	6,3	7,8	8,0	PVC	0,280	500	100

Socket sleeves (female), fully-insulated

- **Brass, tin-plated, PVC-insulated**
- **with vibration-free copper sleeve • Easy Entry**

PVC -75°/600V

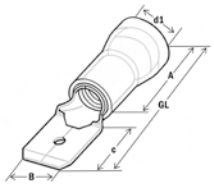


Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100		PU
260414 ✷	**0,5 - 1,0**	6,3x0,8	2,7	11,0	22,0	6,8	6,6	PVC	0,129	500	100
260415		4,8x0,8	2,7	11,0	20,0	6,0	5,0	PVC	0,100	500	100
260416 ✷	**1,5 - 2,5**	6,3x0,8	3,2	11,0	22,0	6,8	6,6	PVC	0,130	500	100
260417		4,8x0,8	3,2	11,0	20,0	6,0	5,0	PVC	0,110	500	100
260418 ✷	**4,0 - 6,0**	6,3x0,8	3,8	14,0	25,0	6,8	6,6	PVC	0,220	500	100

Flat terminals

- **Brass, tin-plated, PVC-insulated**
- **with vibration-free copper sleeve • Easy Entry**

PVC -75°/600V

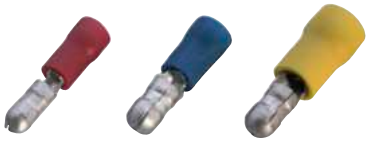


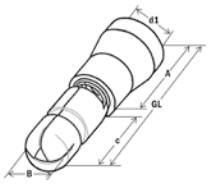
Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100		PU
260510	**0,5 - 1,0**	2,8x0,5	3,8	10,5	19,2	6,5	2,8	PVC	0,060	500	100
260512		2,8x0,8	3,8	10,5	19,2	6,5	2,8	PVC	0,065	500	100
260514		4,8x0,5	3,8	10,5	19,2	6,5	4,8	PVC	0,075	500	100
260516		4,8x0,8	3,8	10,5	19,2	6,7	4,8	PVC	0,080	500	100
260422 ✷		6,3x0,8	3,5	10,0	20,5	7,7	6,3	PVC	0,090	500	100
260518	**1,5 - 2,5**	4,8x0,5	3,8	10,5	19,2	6,5	4,8	PVC	0,085	500	100
260520		4,8x0,8	3,8	10,5	19,2	6,7	4,8	PVC	0,090	500	100
260424 ✷		6,3x0,8	4,0	10,0	20,5	7,7	6,3	PVC	0,100	500	100
260426 ✷	**4,0 - 6,0**	6,3x0,8	5,5	13,5	24,5	7,7	6,3	PVC	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	TL	c	B	material	kg/100		PU
260446	**0,5 - 1,0**	4 mm	3,5	9,5	20,2	8,7	4,0	PVC	0,090	500	100
260448	**1,5 - 2,5**	5 mm	4,3	9,5	20,7	8,7	5,0	PVC	0,110	500	100
260449		4 mm	4,3	9,5	20,2	8,7	4,0	PVC	0,100	500	100
260450	**4,0 - 6,0**	5 mm	6,5	13,5	25,0	10,0	5,0	PVC	0,170	500	100

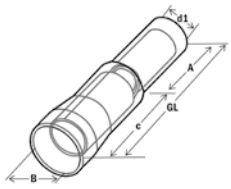
Crimp terminals, PVC-insulated

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	TL	c	B	material	kg/100		PU	
260440	**0,5 - 1,0**	4 mm	3,5	9,5	20,2	8,7	4,0	PVC	0,130	500	100	
260442	**1,5 - 2,5**	5 mm	4,3	9,5	20,7	8,7	5,0	PVC	0,150	500	100	
260443		4 mm	4,3	9,5	20,2	8,7	4,0	PVC	0,130	500	100	
260444	**4,0 - 6,0**	5 mm	6,5	13,0	25,0	12,0	5,0	PVC	0,250	500	100	

Rapid connectors

- **of electrolytic copper, tin-plated**
- **Polypropylene**

Art. no.	CSS	A	TL	kg/100		PU	
260336 ✸	**0,5 - 1,0**	20,0	27,0	0,130		100	
260500		9,8	37,0	0,100		100	
260337	**1,5 - 2,5**	20,0	27,0	0,130		100	
260502		9,8	37,0	0,120		100	
260338	**4,0 - 6,0**	20,5	34,5	0,290		100	
260504		9,8	37,0	0,140		100	

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

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.	Contents	L	W	H	kg	VE
300169	**350 SmallPacks, various**	410	580	180	9,500	1

Crimp terminals, PVC-insulated

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	M	d2	d1	d4	s1	A	TL	E	B	kg/100		PU	
260256/10	**0,5 - 1,0**	4	4,2	1,95	4,2	0,8	10,4	22,0	7,5	8,0	0,096	100	10	
260258/10		5	5,2	1,95	4,2	0,8	10,4	22,4	8,0	8,0	0,096	100	10	
260270/10	**1,5 - 2,5**	4	4,2	2,45	4,8	0,8	11,0	23,0	8,0	8,0	0,092	100	10	
260272/10		5	5,2	2,45	4,8	0,8	11,0	26,0	9,8	10,0	0,111	100	10	
260274/10		6	6,2	2,45	4,8	0,8	11,0	28,0	11,7	11,0	0,123	100	10	
260288/10	**4,0 - 6,0**	6	6,2	3,5	6,6	1,0	14,0	30,6	11,0	11,0	0,196	100	10	
260290/10		8	8,2	3,5	6,6	1,0	14,0	37,0	15,3	15,0	0,243	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	M	d2	d1	d4	s1	A	TL	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	0,100	100	10	
260306/10		5	5,2	1,95	4,2	0,8	10,4	21,2	8,0	8,0	0,100	100	10	
260314/10	**1,5 - 2,5**	4	4,2	2,45	4,8	0,8	11,0	20,3	5,3	6,6	0,100	100	10	
260316/10		5	5,2	2,45	4,8	0,8	11,0	25,0	9,5	9,1	0,100	100	10	
260324/10	**4,0 - 6,0**	6	6,3	3,5	6,6	1,0	14,0	29,5	11,0	11,0	0,200	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	d4	A	TL	kg/100		PU	
260350/10	**0,5 - 1,0**	1,7	4,0	15	22,7	0,110	100	10	
260352/10	**1,5 - 2,5**	2,3	4,5	15	22,7	0,130	100	10	
260354/10	**4,0 - 6,0**	3,4	6,8	15	26,7	0,230	100	10	

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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	TL	c	B	material	kg/100		PU
260386/10	**0,5 - 1,0**	4,8x0,8	3,5	9,5	18,7	6,0	5,0	PVC	0,100	100	10
260392/10		6,3x0,8	3,5	9,5	20,5	7,8	6,6	PVC	0,100	100	10
260390/10	**1,5 - 2,5**	4,8x0,8	4,3	9,5	18,7	6,0	5,0	PVC	0,100	100	10
260394/10		6,3x0,8	4,3	9,5	20,5	7,8	6,6	PVC	0,120	100	10
260396/10	**4,0 - 6,0**	6,3x0,8	6,2	13,5	24,5	7,8	6,6	PVC	0,190	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	TL	c	B	material	kg/100		PU
260414/10	**0,5 - 1,0**	6,3x0,8	2,7	11,0	22,0	6,8	6,6	PVC	0,129	100	10
260416/10	**1,5 - 2,5**	6,3x0,8	3,2	11,0	22,0	6,8	6,6	PVC	0,130	100	10

Flat terminals „SmallPack“

- Brass, tin-plated, PVC-insulated
- with vibration-free copper sleeve • Easy Entry

PVC -75°/600V

Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100		PU
260516/10	**0,5 - 1,0**	4,8x0,8	3,8	10,5	19,2	6,7	4,8	PVC	0,100	100	10
260422/10		6,3x0,8	3,5	10,0	20,5	7,7	6,3	PVC	0,090	100	10
260520/10	**1,5 - 2,5**	4,8x0,8	3,8	10,5	19,2	6,7	4,8	PVC	0,100	100	10
260424/10		6,3x0,8	4,0	10,0	20,5	7,7	6,3	PVC	0,100	100	10
260426/10	**4,0 - 6,0**	6,3x0,8	5,5	13,5	24,5	7,7	6,3	PVC	0,180	100	10

Round terminals „SmallPack“

- 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	TL	c	B	material	kg/100		PU
260448/10	**0,5 - 1,0**	6,3x0,8	2,7	11,0	22,0	6,8	6,6	PVC	0,129	100	10

Round sleeves „SmallPack“

- 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	TL	c	B	material	kg/100		PU
260442/10	**1,5 - 2,5**	5 mm	4,3	9,5	20,7	8,7	5,0	PVC	0,200	100	10

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

Best-seller Premium product

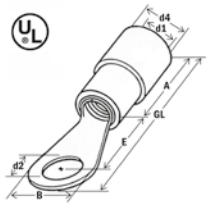
Crimp terminals, Nylon-insulated

RoHS

Ring terminals DIN 46237

- of electrolytic copper, tin-plated, soldered • Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables

Nylon +105°/600V

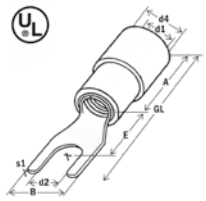


Art. no.	CSS	M	d2	d1	d4	s1	A	TL	E	B	kg/100		PU	
260243	**0,2 - 0,5**	2	2,2	1,00	2,3	0,5	8,0	16,5	6,0	5,0	0,050	500	100	
260245		3	3,2	1,00	2,3	0,5	8,0	16,5	6,0	5,0	0,070	500	100	
260246		3,5	3,7	1,00	2,3	0,5	8,0	16,5	8,0	6,0	0,070	500	100	
260247		4	4,3	1,00	2,3	0,5	8,0	19,3	8,0	6,5	0,065	500	100	
260248		5	5,3	1,00	2,3	0,5	8,0	20,0	8,0	8,0	0,040	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	0,072	500	100	
260651		3	3,2	1,95	4,2	0,8	10,4	22,2	8,6	8,0	0,070	500	100	
260654		3,5	3,6	1,95	4,2	0,8	10,4	22,2	7,8	8,0	0,067	500	100	
260656		4	4,2	1,95	4,2	0,8	10,4	22,0	7,5	8,0	0,079	500	100	
260658		5	5,2	1,95	4,2	0,8	10,4	22,4	8,0	8,0	0,096	500	100	
260660		6	6,2	1,95	4,2	0,8	10,4	23,7	8,6	10,0	0,105	500	100	
260662		8	8,3	1,95	4,2	0,8	10,4	30,0	12,6	14,0	0,136	500	100	
260664		10	10,4	1,95	4,2	0,8	10,4	30,0	12,8	14,0	0,103	500	100	
260666	**1,5 - 2,5**	3	3,2	2,45	4,8	0,8	11,0	23,0	8,0	8,0	0,110	500	100	
260667		3,5	3,7	2,45	4,8	0,8	11,0	23,0	8,0	8,0	0,080	500	100	
260670		4	4,2	2,45	4,8	0,8	11,0	23,0	8,0	8,0	0,088	500	100	
260672		5	5,2	2,45	4,8	0,8	11,0	26,0	9,8	10,0	0,107	500	100	
260674		6	6,2	2,45	4,8	0,8	11,0	28,0	11,7	11,0	0,120	500	100	
260676		8	8,2	2,45	4,8	0,8	11,0	33,0	14,5	15,0	0,142	500	100	
260678		10	10,5	2,45	4,8	0,8	11,0	33,0	14,5	15,0	0,133	500	100	
260682	**4,0 - 6,0**	3,5	3,7	3,5	6,6	1,0	14,0	26,5	8,4	8,0	0,150	500	100	
260684		4	4,2	3,5	6,6	1,0	14,0	26,5	8,4	8,0	0,165	500	100	
260686		5	5,2	3,5	6,6	1,0	14,0	29,6	10,2	10,0	0,182	500	100	
260688		6	6,2	3,5	6,6	1,0	14,0	30,6	11,0	11,0	0,190	500	100	
260690		8	8,2	3,5	6,6	1,0	14,0	37,0	15,3	15,0	0,237	500	100	
260692		10	10,5	3,5	6,6	1,0	14,0	40,0	16,5	19,0	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

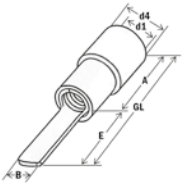


Art. no.	CSS	M	d2	d1	d4	s1	A	TL	E	B	kg/100		PU	
260700	**0,5 - 1,0**	3	3,2	1,95	4,2	0,8	10,4	20,0	6,7	5,6	0,068	500	100	
260702		3,5	3,7	1,95	4,2	0,8	10,4	19,4	6,5	6,5	0,066	500	100	
260704		4	4,2	1,95	4,2	0,8	10,4	20,9	6,3	6,4	0,071	500	100	
260706		5	5,2	1,95	4,2	0,8	10,4	21,2	8,0	8,0	0,092	500	100	
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	11,0	23,0	8,4	5,6	0,079	500	100	
260712		3,5	3,7	2,45	4,8	0,8	11,0	20,3	5,3	6,6	0,086	500	100	
260714		4	4,2	2,45	4,8	0,8	11,0	20,3	5,3	6,6	0,084	500	100	
260716		5	5,2	2,45	4,8	0,8	11,0	25,0	9,5	9,1	0,110	500	100	
260718		6	6,3	2,45	4,8	0,8	11,0	27,0	11,2	10,0	0,170	500	100	
260721	**4,0 - 6,0**	4	4,2	3,5	6,6	1,0	14,0	26,0	7,2	8,1	0,157	500	100	
260722		5	5,2	3,5	6,6	1,0	14,0	28,5	10,5	9,0	0,179	500	100	
260724		6	6,3	3,5	6,6	1,0	14,0	29,5	11,0	11,0	0,190	500	100	
260726		8	8,2	3,5	6,6	1,0	14,0	35,2	15,0	15,2	0,230	500	100	
260728		10	10,5	3,5	6,6	1,0	14,0	38,0	16,6	19,0	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	d4	A	TL	E	B		kg/100		PU	
260730	**0,5 - 1,0**	1,7	4,2	10,4	19,4	9,0	2,8		0,059	500	100	
260731		1,7	4,2	10,4	24,9	14,5	3,0		0,072	500	100	
260732	**1,5 - 2,5**	2,3	4,8	10,4	19,4	9,0	2,8		0,067	500	100	
260733		2,3	4,8	10,4	26,4	16,0	2,8		0,084	500	100	
260734	**4,0 - 6,0**	3,4	6,8	13,5	23,5	10,0	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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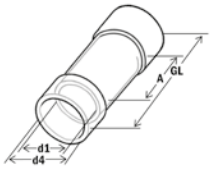
Crimp terminals, Nylon-insulated

RoHS

Butt connectors

- of electrolytic copper, tin-plated • Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables

Nylon +105°/600V

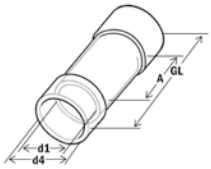


Art. no.	CSS	d1	d4	A	TL	kg/100		PU
260750	**0,5 - 1,0**	1,7	4,0	15,0	22,7	0,103	500	100
260752	**1,5 - 2,5**	2,3	4,5	15,0	22,7	0,128	500	100
260754	**4,0 - 6,0**	3,4	6,8	15,0	26,7	0,221	500	100

Parallel connectors

- of electrolytic copper, tin-plated • Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables

Nylon +105°/600V

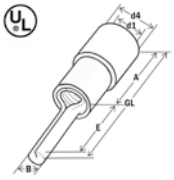


Art. no.	CSS	d1	d4	A	TL	kg/100		PU
263360	**0,5 - 1,0**	1,7	4,0	8,0	16,0	0,069	500	100
263362	**1,5 - 2,5**	2,3	4,5	8,0	16,0	0,080	500	100
263364	**4,0 - 6,0**	3,4	6,8	8,0	16,0	0,150	500	100

Round pins

- of electrolytic copper, tin-plated • Easy Entry
- Nylon-insulated, with expanded insulating sleeve, suitable for harmonised cables

Nylon +105°/600V

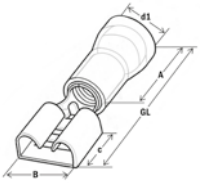


Art. no.	CSS	d1	d4	A	TL	E	B	kg/100		PU
260770	**0,5 - 1,0**	1,95	4,2	10,4	22,0	12	1,9	0,072	500	100
260771		1,95	4,2	10,4	20,0	9,0	1,9	0,064	500	100
260772	**1,5 - 2,5**	2,45	4,8	11,0	23,0	12,0	1,9	0,079	500	100
260773		2,45	4,8	11,0	20,0	9,0	1,9	0,074	500	100
260774	**4,0 - 6,0**	3,6	6,6	14,0	28,0	14,0	2,7	0,078	500	100
260376	**10**	4,5	8,3	21,5	38,0	15,0	4,0	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	TL	c	B	material	kg/100		PU
263380	**0,5 - 1,0**	2,8x0,5	3,5	9,5	17,9	6,4	3,2	Nylon	0,070	500	100
263382		2,8x0,8	3,5	9,5	17,9	6,4	3,2	Nylon	0,077	500	100
263384		4,8x0,5	3,5	9,5	18,7	6,0	5,0	Nylon	0,080	500	100
263386		4,8x0,8	3,5	9,5	18,7	6,0	5,0	Nylon	0,080	500	100
263400		5,2x0,8	3,5	9,5	18,7	6,4	5,5	Nylon	0,090	500	100
263392		6,3x0,8	3,5	9,5	20,5	7,8	6,6	Nylon	0,100	500	100
263388	**1,5 - 2,5**	4,8x0,5	4,3	9,5	18,7	6,0	5,0	Nylon	0,090	500	100
263393		4,8x0,8	4,3	9,5	18,7	6,0	5,0	Nylon	0,100	500	100
263402		5,2x0,8	4,3	9,5	18,7	6,4	5,5	Nylon	0,090	500	100
263394		6,3x0,8	4,3	9,5	20,5	7,8	6,6	Nylon	0,110	500	100
263396	**4,0 - 6,0**	6,3x0,8	6,2	13,5	24,5	7,8	6,6	Nylon	0,190	500	100
263404		9,8x1,1	6,2	13,5	29,2	12,0	10,0	Nylon	0,260	500	100

PU Packing unit PE Price unit

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

Best-seller Premium product

Crimp terminals, Nylon-insulated

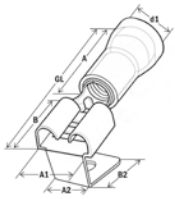
RoHS

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	TL	A1	A2	B	B2	material	kg/100		PU
263410	**0,5 - 1,0**	6,3x0,8	3,5	9,5	22,2	6,8	6,3	7,8	8	Nylon	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	Nylon	0,150	500	100
263413	**4,0 - 6,0**	6,3x0,8	4,3	9,5	22,2	6,8	6,3	7,8	8,0	Nylon	0,200	500	100

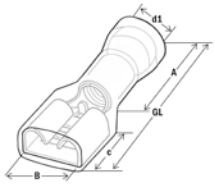


Socket sleeves (female), fully-insulated

- **Brass, tin-plated, Nylon-insulated**
- **with vibration-free copper sleeve - Easy Entry**

Nylon ›105°/600V

Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100		PU
263451	**0,5 - 1,0**	2,8x0,5	4,0	11,0	19,5	6,5	3,2	Nylon	0,085	500	100
263452		2,8x0,8	4,0	11,0	19,5	6,5	3,2	Nylon	0,086	500	100
263453		4,8x0,5	4,0	11,0	20,2	6,4	5,0	Nylon	0,088	500	100
263414		6,3x0,8	4,0	11,0	21,5	7,5	6,6	Nylon	0,120	500	100
263415		4,8x0,8	4,0	11,0	20,2	6,4	5,0	Nylon	0,100	500	100
263456	**1,5 - 2,5**	4,8x0,5	5,0	11,0	20,2	6,4	5,0	Nylon	0,104	500	100
263416		6,3x0,8	5,0	11,0	21,5	7,5	6,6	Nylon	0,130	500	100
263417		4,8x0,8	5,0	11,0	20,2	6,4	5,0	Nylon	0,110	500	100
263418	**4,0 - 6,0**	6,3x0,8	6,5	13,0	24,2	7,5	6,6	Nylon	0,220	500	100

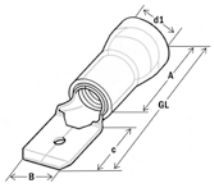


Flat terminals

- **Brass, tin-plated, Nylon-insulated**
- **with vibration-free copper sleeve - Easy Entry**

Nylon ›105°/600V

Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100		PU
263510	**0,5 - 1,0**	2,8x0,5	3,8	10,5	19,2	6,5	2,8	Nylon	0,068	500	100
263512		2,8x0,8	3,5	10,5	19,2	6,5	2,8	Nylon	0,066	500	100
263514		4,8x0,5	3,8	10,5	10,5	6,5	4,8	Nylon	0,076	500	100
263516		4,8x0,8	3,8	10,5	19,2	6,7	4,8	Nylon	0,077	500	100
263422		6,3x0,8	3,5	10,0	20,5	7,7	6,3	Nylon	0,090	500	100
263518	**1,5 - 2,5**	4,8x0,5	3,8	10,5	19,2	6,5	4,8	Nylon	0,080	500	100
263520		4,8x0,8	3,8	10,5	19,2	6,7	4,8	Nylon	0,086	500	100
263424		6,3x0,8	4,0	10,0	20,5	7,7	6,3	Nylon	0,100	500	100
263426	**4,0 - 6,0**	6,3x0,8	5,5	13,5	24,5	7,7	6,3	Nylon	0,180	500	100

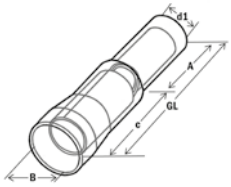


Round sleeves

- **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	TL	c	B	material	kg/100		PU
263440	**0,5 - 1,0**	4 mm	3,5	9,5	20,2	8,7	4,0	Nylon	0,130	500	100
263442	**1,5 - 2,5**	5 mm	4,3	9,5	20,7	8,7	5,0	Nylon	0,150	500	100
263443		4 mm	4,3	9,5	20,2	87	4,0	Nylon	0,130	500	100



Crimp terminals, Nylon-insulated

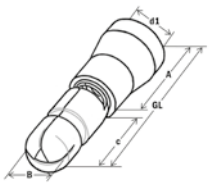
RoHS

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	TL	c	B	material	kg/100		PU	
263446	**0,5 - 1,0**	4 mm	3,5	9,5	20,2	8,7	4,0	Nylon	0,090	500	100	
263448	**1,5 - 2,5**	5 mm	4,3	9,5	20,7	8,7	5,0	Nylon	0,110	500	100	
263449		4 mm	4,3	9,5	20,2	8,7	4,0	Nylon	0,100	500	100	
263450	**4,0 - 6,0**	5 mm	6,5	13,5	25,0	10,0	5,0	Nylon	0,200	500	100	

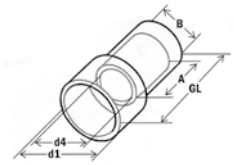


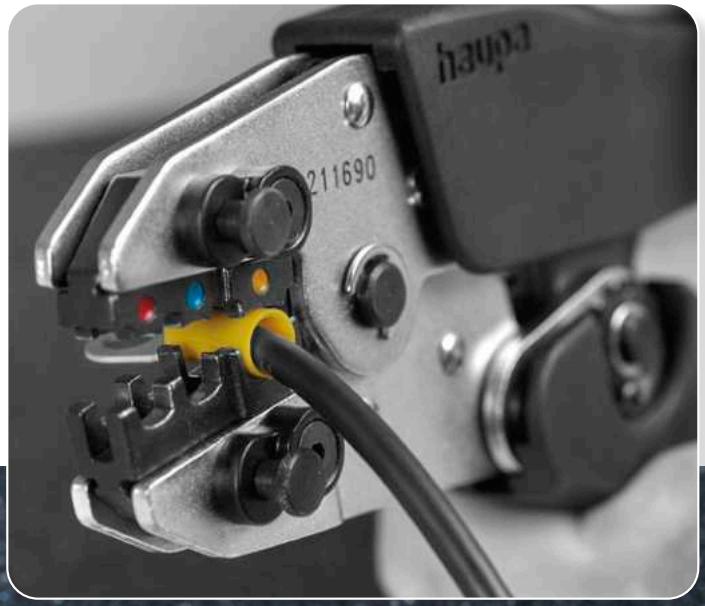
End connectors

- of electrolytic copper, tin-plated
- Nylon-insulated

Nylon -105°/600V

Art. no.		CSS	d1	d4	A	TL	B	kg/100		PU
260427	✸	**0,5 - 1,0**	6,2	2,2	8,0	15,2	5,0	0,060	500	100
260428		**1,5 - 2,5**	6,5	2,5	8,0	15,2	5,9	0,065	500	100
260430		**4,0 - 6,0**	9,4	3,5	8,5	17,8	7,3	0,125	500	100
260431		**10**	12,0	4,6	9,5	22,2	9,3	0,260	500	100





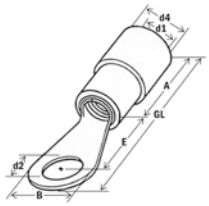
Crimp terminals, PC-insulated

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

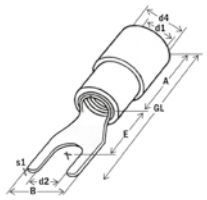


Art. no.	CSS	M	d2	d1	d4	s1	A	TL	E	B	kg/100		PU
340256	**0,5 - 1,0**	4	4,3	1,6	4,0	0,8	11,0	22,0	7,0	8,0	0,170	500	100
340258		5	5,3	1,6	4,0	0,8	11,0	24,0	8,0	10,0	0,220	500	100
340270	**1,5 - 2,5**	4	4,3	2,3	4,5	0,8	11,0	22,0	7,0	8,0	0,220	500	100
340272		5	5,3	2,3	4,5	0,8	11,0	25,0	9,0	10,0	0,250	500	100
340274		6	6,5	2,3	4,5	0,8	11,0	27,5	11,0	11,0	0,130	500	100
340288	**4,0 - 6,0**	6	6,5	3,6	6,4	1,0	13,0	28,5	10,0	11,0	0,200	500	100
340290		8	8,4	3,6	6,4	1,0	13,0	33,0	13,0	14,0	0,280	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

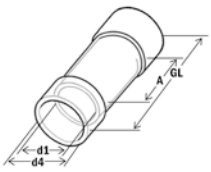


Art. no.	CSS	M	d2	d1	s1	A	TL	E	B	kg/100		PU
340304	**0,5 - 1,0**	4	4,3	1,6	0,8	11,0	22,3	7,0	6,6	0,105	500	100
340314	**1,5 - 2,5**	4	4,3	2,3	0,8	11,0	22,3	7,0	6,6	0,200	500	100
340322	**4,0 - 6,0**	6	6,5	3,6	1,0	13,0	29,5	10,0	10,7	0,220	500	100

Butt connectors

- of electrolytic copper, tin-plated, soldered • suitable for harmonised cables
- PC-insulated, with expanded insulating sleeve • Easy Entry

PC 125°/600V

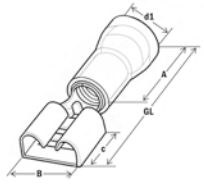


Art. no.	CSS	d1	d4	A	TL		kg/100		PU
340350	**0,5 - 1,0**	1,7	4,0	14,7	25,0		0,110	500	100
340352	**1,5 - 2,5**	2,3	4,5	14,7	25,0		0,130	500	100
340354	**4,0 - 6,0**	3,4	6,3	14,7	27,0		0,240	500	100

Socket sleeves (female)

- Brass, tin-plated • PC-insulated
- with vibration-free copper sleeve • Easy Entry

PC 125°/300V



Art. no.	CSS	plug	d1	A	TL	c	B		kg/100		PU
340392	**0,5 - 1,0**	6,3x0,8	4,0	11,0	21,5	7,5	6,6		0,080	500	100
340394	**1,5 - 2,5**	6,3x0,8	4,5	11,0	21,5	7,5	6,6		0,085	500	100
340396	**4,0 - 6,0**	6,3x0,8	6,3	13,0	23,5	7,5	6,6		0,230	500	100

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Crimp terminals, PC-insulated

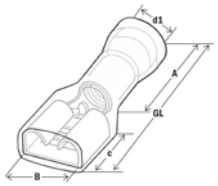
RoHS

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	TL	c	B	material	kg/100		PU	
340414	**0,5 - 1,0**	6,3x0,8	4,0	10,0	21,5	7,5	6,6	PC	0,090	500	100	
340416	**1,5 - 2,5**	6,3x0,8	4,5	10,0	21,5	7,5	6,6	PC	0,100	500	100	

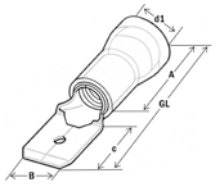


Flat terminals

- **Brass, tin-plated • PC-insulated**
- **with vibration-free copper sleeve • Easy Entry**

PC ·125°/300V

Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100		PU	
340422	**0,5 - 1,0**	6,3x0,8	4,0	11,0	22,0	7,7	6,35	PC	0,150	500	100	
340424	**1,5 - 2,5**	6,3x0,8	4,5	11,0	22,0	7,7	6,35	PC	0,155	500	100	
340426	**4,0 - 6,0**	6,3x0,8	6,3	13,0	24,0	7,7	6,35	PC	0,260	500	100	

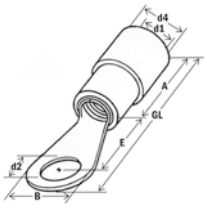


RoHS

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

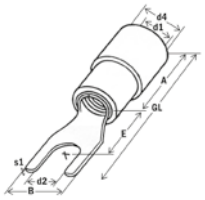


Art. no.	CSS	M	d2	d1	d4	s1	A	TL	E	B	kg/100		PU
370256	**0,5 - 1,0**	4	4,3	1,7	4,0	0,75	10,0	19,4	6,3	6,6	0,130	500	100
370258		5	5,3	1,7	4,0	0,75	10,0	20,8	7,0	8,0	0,130	500	100
370270	**1,5 - 2,5**	4	4,3	2,3	4,5	0,8	10,0	19,4	6,3	6,6	0,150	500	100
370272		5	5,3	2,3	4,5	0,8	10,0	21,8	7,8	8,5	0,170	500	100
370274		6	6,4	2,3	4,5	0,8	10,0	26,8	11,0	12,0	0,135	500	100
370288	**4,0 - 6,0**	6	6,4	2,3	4,5	0,8	10,0	26,8	11,0	12,0	0,210	500	100
370290		8	8,4	3,4	6,4	1,0	13,0	34,0	13,3	15,0	0,260	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

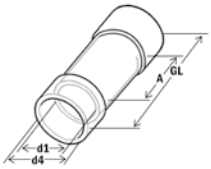


Art. no.	CSS	M	d2	d1	d4	s1	A	TL	E	B	kg/100		PU
370304	**0,5 - 1,0**	4	4,3	1,7	4,0	0,75	10,0	21,0	6,5	6,4	0,150	500	100
370314	**1,5 - 2,5**	4	4,3	2,3	4,5	0,8	10,0	21,0	6,5	6,4	0,170	500	100
370322	**4,0 - 6,0**	6	6,4	3,4	6,4	1,0	13,0	25,5	7,0	9,0	0,160	500	100

Butt connectors “ECO-Line”

• of electrolytic copper, tin-plated • PVC-insulated, with expanded insulating sleeve • suitable for harmonised cables

PVC ECO-Line +75°/300V

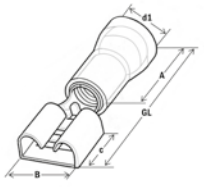


Art. no.	CSS	d1	d4	A	TL		kg/100		PU
370350	**0,5 - 1,0**	1,7	4,0	14	24,6		0,081	500	100
370352	**1,5 - 2,5**	2,5	4,5	14	24,6		0,103	500	100
370354	**4,0 - 6,0**	3,4	6,3	14	26,5		0,173	500	100

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	TL	c	B	material	kg/100		PU
370392	**0,5 - 1,0**	6,3x0,8	4,0	10,0	20,5	7,5	6,6	PVC	0,070	500	100
370394	**1,5 - 2,5**	6,3x0,8	4,5	10,0	20,5	7,5	6,6	PVC	0,077	500	100
370396	**4,0 - 6,0**	6,3x0,8	5,5	13,0	23,5	7,5	6,6	PVC	0,097	500	100

Crimp terminals, PVC-insulated

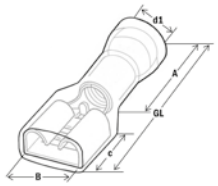
RoHS

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	TL	c	B	material	kg/100		PU	
370414	**0,5 - 1,0**	6,3x0,8	4,0	10,0	22,0	7,5	6,6	PVC	0,113	500	100	
370416	**1,5 - 2,5**	6,3x0,8	4,5	10,0	22,0	7,5	6,6	PVC	0,102	500	100	

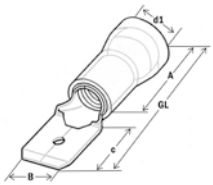


Flat terminals “ECO-Line”

- **Brass, tin-plated • PVC-insulated**
- **with vibration-free copper sleeve**

PVC ECO-Line +75°/300V

Art. no.	CSS	plug	d1	A	TL	c	B	material	kg/100		PU	
370422	**0,5 - 1,0**	6,3x0,8	4,0	10,0	21,0	7,7	6,35	PVC	0,058	500	100	
370424	**1,5 - 2,5**	6,3x0,8	4,5	10,0	21,0	7,7	6,35	PVC	0,064	500	100	
370426	**4,0 - 6,0**	6,3x0,8	5,5	13,0	24,0	7,7	6,35	PVC	0,088	500	100	



RoHS

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.

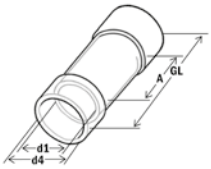
SPECIAL FEATURE: The fusible inside adhesive cover provides excellent durability and is safer than traditional connectors.

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 (with deflector page 200).
The connection Check whether the fusible inside adhesive comes out on the sides to ensure optimal tightness.

Butt connectors

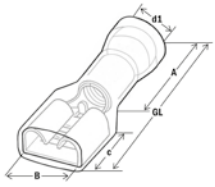
- **Copper, tin-plated • Insulating cover: Polyolefin with inside adhesive**
- **RoHS conform**



Art. no.		CSS	A	TL	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	✷	**4,0 - 6,0**	15	41	0,300	500	100	

Socket sleeves (female)

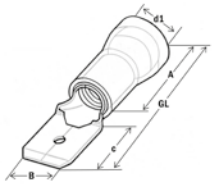
- **Brass, tin-plated • Insulating cover: Polyolefin with inside adhesive**
- **RoHS conform**



Art. no.	CSS	plug	TL	B	kg/100		PU	
363510	**0,5 - 1,0**	6,3x0,8	30,0	6,6	0,129	500	100	
363512	**1,5 - 2,5**	6,3x0,8	30,0	6,6	0,138	500	100	
363514	**4,0 - 6,0**	6,3x0,8	30,0	6,6	0,200	500	100	

Flat terminals

- **Brass, tin-plated • Insulating cover: Polyolefin with inside adhesive**
- **RoHS conform**



Art. no.	CSS	plug	TL	B	kg/100		PU	
363520	**0,5 - 1,0**	6,3x0,8	30,0	6,6	0,092	500	100	
363522	**1,5 - 2,5**	6,3x0,8	30,0	6,6	0,106	500	100	
363524	**4,0 - 6,0**	6,3x0,8	30,0	6,6	0,159	500	100	

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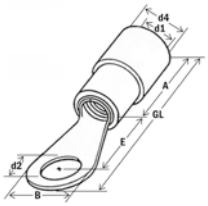
Shrinkable connectors, Polyolefin-insulated

RoHS

Ring terminals

- **Copper, tin-plated • Insulating cover: Polyolefin with inside adhesive**
- **RoHS conform**



Art. no.	CSS	M	d2	TL	B	kg/100		PU
363530	**0,5 - 1,0**	4	4,3	28,5	8,0	0,073	500	100
363532		5	5,3	28,5	8,0	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	0,122	500	100
363546		8	8,4	35,5	12,0	0,118	500	100
363548		10	10,5	37,5	13,6	0,128	500	100
363550	**4,0 - 6,0**	4	4,3	34,2	9,5	0,173	500	100
363552		5	5,3	34,0	9,5	0,172	500	100
363554		6	6,5	37,5	12,0	0,201	500	100
363556		8	8,4	42,0	15,0	0,251	500	100
363558		10	10,5	42,0	15,0	0,226	500	100

Shrink connectors

Butt connectors „SmallPack“

- **Copper, tin-plated • RoHS-conform**
- **Insulating cover: Polyolefin with inside adhesiver**

Art. no.	CSS	A	TL	kg/100		PU
363500/10	**0,5 - 1,0**	14	36	0,120	100	10
363502/10	**1,5 - 2,5**	15	36	0,132	100	10
363504/5	**4,0 - 6,0**	15	41	0,300	50	5

Welded shrink connectors

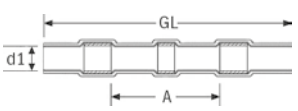
Welded shrink connectors

- **Copper, tin-plated • Insulating cover: Polyolefin with inside adhesive**
- **RoHS conform**

Art. no.	CSS	d4	TL	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	**4,0 - 6,0**	6,0	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	TL	kg/100		PU
363606	**0,5 - 1,0**	2,7	15,2	42	0,090	500	100
363607	**1,5 - 2,5**	4,5	15,2	42	0,110	500	100
363608	**4,0 - 6,0**	6,0	15,2	42	0,160	500	100

PU Packing unit PE Price unit

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

✸ Best-seller 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.	Content	Insulation	kg	PU
260762	1250	PVC	3,139	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.	Content	Insulation		kg	PU
260764	1250	PVC	210802	3,278	1
262048	1250	PVC	-	3,400	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.	Content	Insulation	kg	PU
260765 *	1200	PVC	3,367	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.	Content	Insulation	kg	PU
260777 *	1200	PVC	2,980	1

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

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.	Content	kg	PU
220381	1500	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.	Content	kg	PU
220391	3700	4,300	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Socket sleeves

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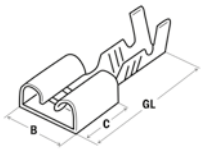
Socket sleeves (male and female)

RoHS

Socket sleeves (female)

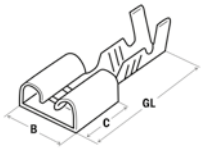
- **bare brass**
- **not insulated, to DIN 46247/part 1 - 3 and similar**



Art. no.	CSS	plug	TL	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	15,0	6,4	5,6	0,075	200
280012		4,8x0,5	15,0	6,4	5,6	0,043	200
280016		2,8x0,8	16,0	6,4	3,75	0,040	200
280020		2,8x0,5	16,0	6,4	3,75	0,020	200

Socket sleeves (female)

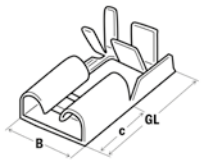
- **bare brass**
- **not insulated, to DIN 46247/part 1 - 3 and similar**



Art. no.	CSS	plug	TL	c	B	kg/100	PU
280030	**0,5 - 1,0**	6,3x0,8	19,2	7,6	7,6	0,073	200
280034	**1,0 - 2,5**	6,3x0,8	19,2	7,6	7,6	0,038	200
280038	**0,5 - 1,25**	4,8x0,8	15,0	6,4	5,6	0,041	200
280042		4,8x0,5	15,0	6,4	5,6	0,027	200
280046		2,8x0,8	16,0	6,4	3,75	0,023	200
280050		2,8x0,5	16,0	6,4	3,75	0,027	200

Socket sleeves (female)

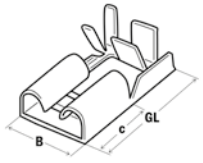
- **bare brass**
- **not insulated, to DIN 46247/part 1 - 3 and similar**



Art. no.	CSS	plug	TL	c	B	kg/100	PU
280060	**0,5 - 1,0**	6,3x0,8	14,1	7,6	7,6	0,073	200
280064	**1,0 - 2,5**	6,3x0,8	14,1	7,6	7,6	0,078	200

Socket sleeves (female)

- **bare brass**
- **not insulated, to DIN 46247/part 1 - 3 and similar**



Art. no.	CSS	plug	TL	c	B	kg/100	PU
280070	**0,5 - 1,0**	6,3x0,8	14,1	7,6	7,6	0,075	200
280074	**1,0 - 2,5**	6,3x0,8	14,1	7,6	7,6	0,078	200

PU Packing unit PE Price unit

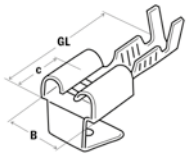
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

Best-seller Premium product

Socket sleeves (female) with branch

- **bare brass**
- **not insulated, to DIN 46247/part 1 - 3 and similar**

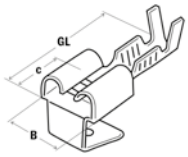
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280080	**0,5 - 1,0**	6,3x0,8	19,6	7,7	7,6	0,108	200
280084	**1,0 - 2,5**	6,3x0,8	16,2	7,7	7,6	0,103	200



Socket sleeves (female) with branch

- **bare brass**
- **not insulated, to DIN 46247/part 1 - 3 and similar**

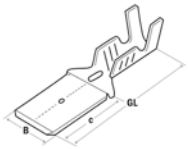
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280090	**0,5 - 1,0**	6,3x0,8	19,6	7,7	7,6	0,110	200
280094	**1,0 - 2,5**	6,3x0,8	16,2	7,7	7,6	0,112	200



Flat terminals

- **bare brass**
- **uninsulated**

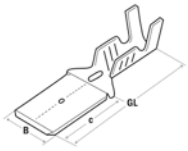
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280100	**0,5 - 1,0**	6,3x0,8	20,6	6,35	6,3	0,055	200
280104	**1,0 - 2,5**	6,3x0,8	17,2	6,35	6,3	0,057	200



Flat terminals

- **tin-plated brass**
- **uninsulated**

Art. no.	CSS	plug	TL	c	B	kg/100	PU
280110	**0,5 - 1,0**	6,3x0,8	20,6	6,35	6,3	0,054	200
280114	**1,0 - 2,5**	6,3x0,8	17,2	6,35	6,3	0,057	200



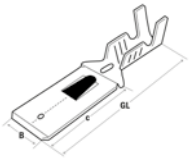
Socket sleeves (male and female)

RoHS

Socket sleeves (male) with latching tongue

- **bare brass**
- **uninsulated**

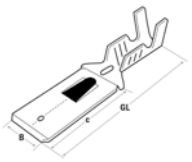
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280101	**0,5 - 1,0**	6,3x0,8	20,0	8,0	6,3	0,200	200
280105	**1,0 - 2,5**	6,3x0,8	20,0	8,0	6,3	0,085	200



Socket sleeves (male) with latching tongue

- **tin-plated brass**
- **uninsulated**

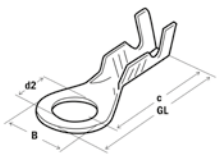
Art. no.	CSS	plug	TL	c	B	kg/100	PU
280111	**0,5 - 1,0**	6,3x0,8	20,0	8,0	6,3	0,082	200
280115	**1,0 - 2,5**	6,3x0,8	20,0	8,0	6,3	0,089	200



Ring terminals

- **bare brass**
- **uninsulated**

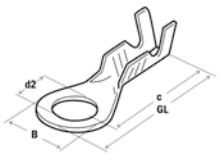
Art. no.	CSS	M	d2	TL	B	kg/100	PU
280120	**0,5 - 1,0**	3	3,2	21,0	8,0	0,054	200
280124		4	4,3	21,0	8,0	0,038	200
280128		5	5,08	22,0	9,5	0,068	200
280132	**1,0 - 2,5**	3	3,2	21,0	8,0	0,076	200
280136		4	4,3	21,0	8,0	0,046	200
280140		5	5,08	22,0	9,5	0,045	200



Ring terminals

- **tin-plated brass**
- **uninsulated**

Art. no.	CSS	M	d2	TL	B	kg/100	PU
280150	**0,5 - 1,0**	3	3,2	21,0	8,0	0,057	200
280154		4	4,3	21,0	8,0	0,040	200
280158		5	5,08	22,0	9,5	0,056	200
280162	**1,0 - 2,5**	3	3,2	21,0	8,0	0,076	200
280166		4	4,3	21,0	8,0	0,046	200
280170		5	5,08	22,0	9,5	0,043	200



PU Packing unit PE Price unit

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

Best-seller Premium product

Socket sleeves (female), insulating sleeves, connectors

RoHS

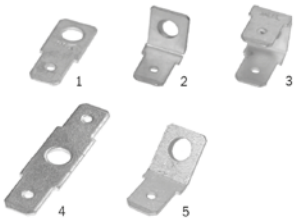
Flat terminals

- **bare brass**
- **uninsulated**

Art. no.	plug	d2	TL	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

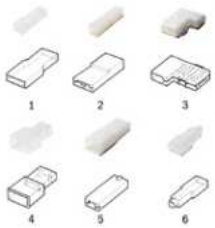
- **tin-plated brass**
- **uninsulated**



Art. no.	plug	d2	TL	form		kg/100	PU
280190	6,3x0,8	4,2	19,2	1	0°	0,083	200
280192	6,3x0,8	4,2	10,2	5	45°	0,084	200
280194	6,3x0,8	4,2	11,3	2	90°	0,095	200
280196	6,3x0,8	4,2	30,3	4	0°	0,137	200
280198	6,3x0,8	4,2	11,45	3	90°	0,272	200

Insulating sleeves

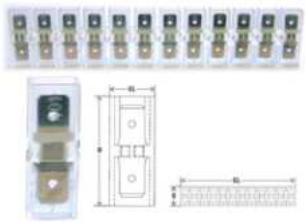
- **of PVC and nylon**



Art. no.	plug	form	material	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)

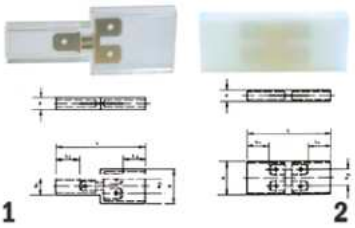
- **1 - 12 pole**
- **PVC, natural colour**



Art. no.	plug	TL	form	B	material	kg/100	PU
280460	2,8x0,8	7,5	1	35,0	PVC	0,157	100
280482	2,8x0,8	88,0	12	35,0	PVC	1,770	10
280490	4,8x0,8	12,5	1	28,0	PVC	0,200	100
280512	4,8x0,8	147,0	12	28,0	PVC	2,800	10
280520	6,3x0,8	12,5	1	28,0	PVC	0,240	100
280542	6,3x0,8	147,0	12	28,0	PVC	2,850	10
280550	2,8x0,8	12,5	1	28,0	PVC	0,250	100
280572	2,8x0,8	147,0	12	28,0	PVC	0,440	50

Elastic cable distributors

- **PVC, natural colour**



Art. no.	plug	TL	form	c	material	kg/100	PU
280580	6,3x0,8	53,0	1	15,0	PVC	0,500	50
280582	6,3x0,8	51,0	2	13,0	PVC	0,500	50

Small packages

RoHS

Socket sleeves (female) „SmallPack“

- **bare brass**
- **not insulated**

Art. no.	CSS	plug	TL	c	B	kg/100	PU
280000/20	**0,5 - 1**	6,3x0,8	19,2	7,6	7,6	0,070	20
280004/20	**1 - 2,5**	6,3x0,8	19,2	7,6	7,6	0,070	20
280008/20	**0,5 - 1,25**	4,8x0,8	15,0	6,4	5,6	0,070	20

Socket sleeves (female) „SmallPack“ with branch

- **bare brass**
- **not insulated**

Art. no.	CSS	plug	TL	c	B	kg/100	PU
280084/20	**1,0 - 2,5**	6,3x0,8	15,0	6,4	5,6	0,070	20

Flat terminals „SmallPack“

- **bare brass**
- **not insulated**

Art. no.	CSS	plug	TL	c	B	kg/100	PU
280100/20	**0,5 - 1**	6,3x0,8	20,6	6,35	6,3	0,070	20
280104/20	**1 - 2,5**	6,3x0,8	17,2	6,35	6,3	0,070	20

Cable lugs and connectors

haupa®

... convincing solutions

INFO

Instructions

1. The choice of the connector

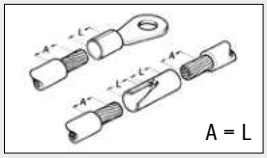
In order to obtain a connection that can be guaranteed for a long time it is necessary to select the connectors suitable to the application field and strictly conform to the section of the cable to be crimped.
In the large range of Haupa products you will certainly find the ideal solution for every requirement.

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.

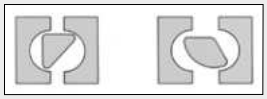


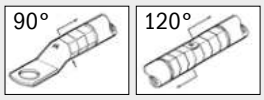
4. Assembling

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-available 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:
AD300-6, SD300-6, HD300-6, KD300-6 /
AD400-6, SD400-6, HD400-6, HKD400
(page 75 - 76)

Temperature resistance

Connector	Temperature
Cable lugs & connectors copper	max.120° C (in acc. to DIN 46234)
Cable lugs & connectors aluminium	max.120° C (in acc. to IEC 61238)
Cable lugs & connectors of pure nickel	max. 500° C
End sleeves without insulation	max. 120° C (in acc. to DIN 46234)
End sleeves insulated	max. 105° C
Insulated terminals PVC	- 10° C --> + 75° C
Insulated terminals Nylon	- 55° C --> + 105° C
Insulated teminals 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		Multi-core cables		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

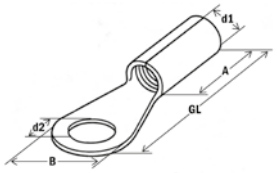
Valid at ambient temperatures of 30 degrees Celsius

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**

Cu



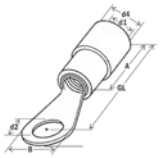
Art. no.	CSS	M	d2	d1	A	TL	B	kg/100	PU
290619	**0,5 - 1,0**	2,5	2,6	1,95	5,2	17,25	8,0	0,056	100
290620 *		3	3,2	1,95	5,2	17,25	8,0	0,055	100
290621		3,5	3,7	1,95	5,2	17,25	8,0	0,039	100
290622		4	4,2	1,95	5,2	16,65	8,0	0,065	100
290624		5	5,2	1,95	5,2	17,25	8,0	0,082	100
290623 *		6	6,2	1,95	5,2	18,5	10,0	0,091	100
290625		8	8,2	1,95	5,2	25,0	14,0	0,121	100
290617		10	10,5	1,95	5,2	25,0	14,0	0,178	100
290626	**1,5 - 2,5**	3	3,2	2,45	5,2	17,25	8,0	0,065	100
290627		3,5	3,7	2,45	5,2	17,25	8,0	0,058	100
290628		4	4,2	2,45	5,2	17,25	8,0	0,076	100
290630 *		5	5,2	2,45	5,2	20,0	10,0	0,097	100
290632 *		6	6,2	2,45	5,2	22,0	11,0	0,110	100
290634		8	8,2	2,45	5,2	26,8	15,0	0,132	100
290635		10	10,5	2,45	5,2	26,8	15,0	0,138	100
290636	**4,0 - 6,0**	4	4,2	3,5	6,5	18,7	8,0	0,131	100
290637		3,5	3,7	3,5	6,5	18,7	8,0	0,058	100
290646 *		5	5,3	3,6	6,0	15,0	10,0	0,157	100
290648 *		6	6,5	3,6	6,0	16,0	11,0	0,166	100
290650		8	8,4	3,6	6,0	19,0	14,0	0,214	100
290652		10	10,5	3,6	6,0	21,0	18,0	0,281	100
290654		12	13,0	3,6	6,0	21,0	18,0	0,219	100
290656	**10**	5	5,3	4,5	8,0	16,0	10,0	0,216	100
290658 *		6	6,4	4,5	8,0	17,0	11,0	0,227	100
290660		8	8,4	4,5	8,0	20,0	14,0	0,280	100
290662		10	10,5	4,5	8,0	21,0	18,0	0,339	100
290663		12	13,0	4,5	8,0	23,0	22,0	0,300	100
290664	**16**	5	5,3	5,8	10,0	20,0	10,0	0,353	100
290666		6	6,4	5,8	10,0	20,0	11,0	0,362	100
290668 *		8	8,4	5,8	10,0	22,0	14,0	0,404	100
290670		10	10,5	5,8	10,0	24,0	18,0	0,477	100
290672		12	13,0	5,8	10,0	26,0	22,0	0,565	100
290676	**25**	6	6,4	7,5	11,0	25,0	12,0	0,706	50
290678 *		8	8,4	7,5	11,0	25,0	16,0	0,776	50
290680		10	10,5	7,5	11,0	26,0	18,0	0,764	50
290682		12	13,0	7,5	11,0	31,0	22,0	0,886	50
290684		16	17,0	7,5	11,0	35,0	28,0	1,190	50
290686 *	**35**	8	8,4	9,0	12,0	26,0	16,0	0,896	50
290688		10	10,5	9,0	12,0	27,0	18,0	0,900	50
290690		12	13,0	9,0	12,0	31,0	22,0	1,000	50
290692		16	17,0	9,0	12,0	36,0	28,0	1,400	50
290694	**50**	8	8,4	11,0	16,0	34,0	18,0	1,600	40
290696 *		10	10,5	11,0	16,0	34,0	18,0	1,600	40
290698		12	13,0	11,0	16,0	36,0	22,0	1,700	40
290700		16	17,0	11,0	16,0	40,0	28,0	2,000	25
290701	**70**	8	8,4	13,0	18,0	38,0	22,0	2,500	25
290702 *		10	10,5	13,0	18,0	38,0	22,0	2,500	25
290704		12	13,0	13,0	18,0	38,0	22,0	2,400	20
290707	**95**	8	8,4	15,0	20,0	42,0	24,0	3,800	20
290708 *		10	10,5	15,0	20,0	42,0	24,0	3,800	20
290710 *		12	13,0	15,0	20,0	42,0	24,0	3,700	20
290712		16	17,0	15,0	20,0	44,0	28,0	3,900	20
290713 *	**120**	10	10,5	16,5	22,0	44,0	24,0	5,200	25
290714 *		12	13,0	16,5	22,0	44,0	24,0	5,200	25
290716		16	17,0	16,5	22,0	48,0	28,0	6,200	25
290717		20	21,0	16,5	22,0	53,0	32,0	5,900	25
290719	**150**	10	10,5	19,0	24,0	50,0	30,0	7,500	25
290721 *		12	13,0	19,0	24,0	50,0	30,0	7,400	25
290718		16	17,0	19,0	24,0	50,0	30,0	6,800	25
290720 *	**185**	16	17,0	21,0	25,0	50,0	36,0	9,400	20

Solderless terminals insulated

RoHS

Insulated crimp cable lugs

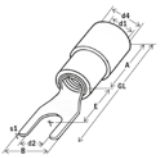
- **Nylon-insulated • Material: 99,9% E-Cu • Surface: tin-plated**
- **Ring type • For conductors, e.g. to VDE 0295 class 2, 5, 6**
- **Hard soldered in crimping area • Grooved profile for improved contact caracteristics**
- **Crimp direct with insulation**



Art. no.	CSS	M	d2	d1	d4	A	TL	kg/100	PU
260902	**10**	5	5,3	4,5	8,0	16,5	24,5	0,283	100
260904 ✸		6	6,5	4,5	8,0	16,5	25,5	0,240	100
260906		8	8,4	4,5	8,0	16,5	28,5	0,200	100
260908		10	10,5	4,5	8,0	16,5	29,5	0,400	100
260910		12	13,0	4,5	8,0	16,5	31,5	0,420	100
260912	**16**	5	5,3	5,8	11,0	21,5	31,5	0,400	100
260914		6	6,5	5,8	11,0	21,5	31,5	0,400	100
260916 ✸		8	8,4	5,8	11,0	21,5	33,5	0,500	100
260918		10	10,5	5,8	11,0	21,5	35,5	0,600	100
260920		12	13,0	5,8	11,0	21,5	37,5	0,600	100
260922	**25**	5	5,3	7,5	13,0	24,0	38,0	0,800	100
260924		6	6,5	7,5	13,0	24,0	38,0	0,800	100
260926 ✸		8	8,4	7,5	13,0	24,0	38,0	0,900	100
260928		10	10,5	7,5	13,0	24,0	39,0	1,000	100
260930		12	13,0	7,5	13,0	24,0	44,0	1,100	100
260932		16	17,0	7,5	13,0	24,0	48,0	1,300	100
260934	**35**	6	6,5	9,0	14,5	27,0	41,0	1,100	100
260936 ✸		8	8,4	9,0	14,5	27,0	41,0	1,000	100
260938		10	10,5	9,0	14,0	27,0	42,0	1,000	100
260940		12	13,0	9,0	14,5	27,0	46,0	1,260	100
260942		16	17,0	9,0	14,5	27,0	51,0	1,550	100
260944	**50**	6	6,5	11,0	16,5	29,5	47,5	3,300	50
260946 ✸		8	8,4	11,0	16,5	29,5	47,5	3,300	50
260948		10	10,5	11,0	16,5	29,5	47,5	3,200	50
260950		12	13,0	11,0	16,5	29,5	49,5	3,600	50
260952		16	17,0	11,0	16,5	29,5	53,5	4,200	50
260954	**70**	6	6,5	13,0	18,7	31,5	51,0	5,200	50
260956		8	8,4	13,0	18,7	31,5	51,0	5,000	50
260960		12	13,0	13,0	18,7	31,5	51,0	5,000	50
260962		16	17,0	13,0	18,7	31,5	55,0	5,400	50
260964 ✸	**95**	8	8,4	15,0	21,7	35,5	57,5	8,000	50
260966		10	10,5	15,0	21,7	35,5	57,5	8,200	50
260968		12	13,0	15,0	21,7	35,5	57,5	7,800	50
260970		16	17,0	15,0	21,7	35,5	59,5	8,200	50
260972	**120**	8	8,4	16,5	24,2	40,0	62,0	10,600	25
260974 ✸		10	10,5	16,5	24,2	40,0	62,0	11,200	25
260976		12	13,0	16,5	24,2	40,0	62,0	10,800	25
260978		16	17,0	16,5	24,2	40,0	66,0	11,600	25
260980	**150**	10	10,5	19,0	27,2	44,0	70,0	16,800	25
260982		12	13,0	19,0	27,2	44,0	70,0	16,800	25
260984		16	17,0	19,0	27,2	44,0	70,0	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	100
260860 ✸		6	0,320	100
260862	**16**	5	0,584	100
260863 ✸		8	0,630	100

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

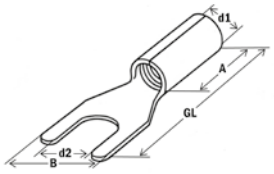
RoHS

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**

Cu

Art. no.	CSS	M	d2	d1	A	TL	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	15,0	6,4	0,058	100
290734		5	5,2	1,95	5,2	16,25	8,0	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	21,0	10,0	0,120	100
290744	**4,0 - 6,0**	4	4,2	3,5	6,5	18,6	8,0	0,152	100
290746		5	5,2	3,5	6,5	21,1	9,0	0,176	100
290748 *		6	6,2	3,5	6,5	22,3	11,0	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	0,319	100
290752	**10**	5	5,2	4,7	8,5	20,8	9,0	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	0,513	100

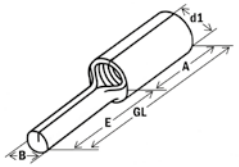


Pin terminals without insulation DIN 46230

- **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**

Cu

Art. no.	CSS	d1	A	TL	E	B	kg/100	PU
290770 *	**0,5 - 1,0**	1,85	5,0	17,3	12,0	1,8	0,083	100
290771		1,85	5,0	17,3	9,0	1,8	0,078	100
290773 *	**1,5 - 2,5**	2,4	5,0	17,3	12,0	1,8	0,065	100
290775		2,4	5,0	17,3	9,0	1,8	0,058	100
290777	**4,0 - 6,0**	3,6	6,0	24,5	12,5	2,6	0,157	100
290776	**10**	4,5	8,5	20,5	14,0	4,0	0,300	100
290778 *	**16**	5,8	10,5	26,5	14,0	4,5	0,411	100
290780 *	**25**	7,0	14,0	33,0	15,0	7,0	0,600	100
290782	**35**	8,2	16,0	40,0	20,0	8,0	1,238	100
290784	**50**	9,5	19,0	45,0	20,0	9,5	1,800	100
290786	**70**	11,2	24,0	55,0	25,0	11,5	3,053	50
290788	**95**	13,59	24,0	55,0	25,0	13,5	4,100	50



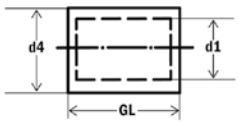
RoHS

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**

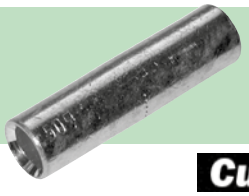
Cu

Art. no.		CSS	d1	d4	TL	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	7,0	9	0,165	2000	100
291100		**16**	5,5	8,5	10	0,274	1000	100
291102		**25**	7,0	10,0	13	0,500	600	100
291104		**35**	8,5	12,0	16	0,800	300	50
291106		**50**	10,0	14,0	19	1,200	300	50
291108		**70**	12,0	16,5	19	1,600	200	50
291110		**95**	13,5	18,0	20	2,400	150	25
291112		**120**	15,0	19,5	22	3,500	100	25
291114		**150**	16,5	21,0	26	3,000	80	20



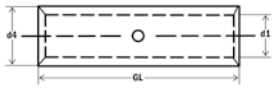
Solderless butt connectors DIN 46341 part 1, type B

- **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**



Cu

Art. no.		CSS	d1	d4	TL	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	7,0	21	0,300	800	100
291128	✸	**16**	5,5	8,5	26	0,600	500	50
291130		**25**	7,0	10,0	29	1,100	400	50
291132		**35**	8,5	12,0	32	1,500	150	25
291134		**50**	10,0	14,0	48	2,300	150	25
291136		**70**	12,0	16,5	48	3,400	100	25
291138		**95**	13,5	18,0	48	5,800	50	25
291140		**120**	15,0	19,5	48	8,500	50	25
291142		**150**	16,5	21,0	48	11,100	40	20



PU Packing unit PE Price unit

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

✸ Best-seller Premium product

RoHS

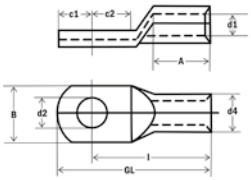
Tubular terminals, Light “T” series

light

- **Material: 99.9% electrolytic copper E-CU DIN 40500**
- **Surface: tin-plated**
- **with sight hole**

Cu

Art. no.	CSS	M	d2	d1	d4	A	TL	kg/100		PU
294000	**1,5**	4	4,3	2,4	4,0	7,0	19,0	0,105	2000	100
294002 ✷		5	5,3	2,4	4,0	7,0	19,0	0,101	2000	100
294004		6	6,4	2,4	4,0	7,0	20,0	0,101	2000	100
294006	**2,5**	4	4,3	2,7	4,3	7,0	19,0	0,117	2000	100
294008 ✷		5	5,3	2,7	4,3	7,0	19,0	0,113	2000	100
294010		6	6,4	2,7	4,3	7,0	21,0	0,119	2000	100
294012		8	8,3	2,7	4,3	7,0	23,0	0,121	2000	100
294014	**4**	4	4,3	3,1	4,8	9,5	21,5	0,162	2000	100
294016 ✷		5	5,3	3,1	4,8	9,5	21,5	0,152	2000	100
294018		6	6,4	3,1	4,8	9,5	23,5	0,100	2000	100
294020		8	8,3	3,1	4,8	9,5	28,5	0,200	2000	100
294022	**6**	4	4,3	3,8	5,5	10,0	26,0	0,200	1800	100
294024 ✷		5	5,3	3,8	5,5	10,0	26,0	0,200	1800	100
294026 ✷		6	6,4	3,8	5,5	10,0	26,0	0,300	1400	100
294028		8	8,3	3,8	5,5	10,0	29,0	0,200	1400	100
294034	**10**	5	5,3	4,7	6,9	11,5	27,5	0,300	1000	100
294036 ✷		6	6,4	4,7	6,9	11,5	27,5	0,300	1000	100
294038 ✷		8	8,3	4,7	6,9	11,5	30,5	0,300	800	100
294040		10	10,5	4,7	6,9	11,5	30,5	0,300	600	100
294044	**16**	5	5,3	5,6	7,8	12,0	27,5	0,400	600	100
294046		6	6,4	5,6	7,8	12,0	27,5	0,400	600	100
294048 ✷		8	8,3	5,6	7,8	12,0	31,0	0,500	400	100
294050		10	10,5	5,6	7,8	12,0	32,0	0,400	400	100
294052		12	13,2	5,6	7,8	12,0	37,5	0,500	400	100
294054	**25**	6	6,4	7,1	9,5	13,5	34,0	0,700	400	50
294056 ✷		8	8,3	7,1	9,5	13,5	34,0	0,700	400	50
294058		10	10,5	7,1	9,5	13,5	37,0	0,700	300	50
294060 ✷		12	13,2	7,1	9,5	13,5	40,0	0,800	300	50
294062	**35**	6	6,4	8,2	11,0	16,0	39,0	1,300	240	50
294064 ✷		8	8,3	8,2	11,0	16,0	39,0	2,900	240	50
294066		10	10,5	8,2	11,0	16,0	43,0	1,300	160	50
294068		12	13,2	8,2	11,0	16,0	43,0	1,200	160	50
294070		14	14,5	8,2	11,0	16,0	48,0	1,300	160	50
294080	**50**	6	6,4	9,5	12,5	20,0	45,0	1,700	150	40
294082		8	8,3	9,5	12,5	20,0	45,0	1,700	150	40
294084 ✷		10	10,5	9,5	12,5	20,0	49,0	1,900	150	40
294086		12	13,2	9,5	12,5	20,0	49,0	1,800	100	40
294088		14	14,5	9,5	12,5	20,0	54,0	1,900	100	30
294094	**70**	8	8,3	11,5	15,0	20,0	47,6	2,700	100	25
294096 ✷		10	10,5	11,5	15,0	20,0	51,6	2,800	100	25
294098		12	13,2	11,5	15,0	20,0	51,6	2,600	100	25
294100		14	14,5	11,5	15,0	20,0	62,6	3,300	80	20
294102		16	16,5	11,5	15,0	20,0	62,6	3,100	80	20
294106	**95**	8	8,3	13,5	17,0	22,0	55,8	3,500	80	20
294108		10	10,5	13,5	17,0	22,0	55,8	3,500	80	20
294110 ✷		12	13,2	13,5	17,0	22,0	55,8	2,900	80	20
294112		14	14,5	13,5	17,0	22,0	66,8	4,000	60	15
294114		16	16,5	13,5	17,0	22,0	66,8	3,900	60	15
294118	**120**	10	10,5	15,6	20,0	27,0	71,5	6,900	80	10
294120 ✷		12	13,2	15,6	20,0	27,0	71,5	6,800	80	10
294122		14	14,5	15,6	20,0	27,0	71,5	6,600	40	10
294124		16	16,5	15,6	20,0	27,0	71,5	6,400	40	10
294128	**150**	10	10,5	16,5	21,0	32,0	78,0	8,000	40	10
294130 ✷		12	13,2	16,5	21,0	32,0	78,0	8,000	40	10
294132		14	14,5	16,5	21,0	32,0	78,0	7,800	40	10
294134		16	16,5	16,5	21,0	32,0	78,0	7,500	40	10
294138	**185**	10	10,5	18,4	23,6	34,0	84,0	11,200	40	10
294140		12	13,2	18,4	23,6	34,0	84,0	11,200	40	20
294142		14	14,5	18,4	23,6	34,0	84,0	10,800	40	20
294144		16	16,5	8,4	23,6	34,0	84,0	10,800	40	20



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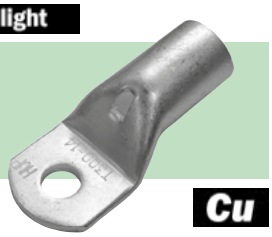
RoHS

Tubular terminals, Light “T” series

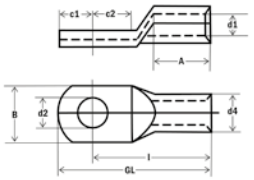
light

- tubular
- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated
- with sight hole



Cu

Art. no.	CSS	M	d2	d1	d4	A	TL	kg/100		PU
294150	**240**	12	13,2	21,2	26,4	37,0	90,0	13,300	20	10
294152		14	14,5	21,2	26,4	37,0	90,0	13,000	20	10
294154 ✸		16	16,5	21,2	26,4	37,0	90,0	15,000	20	10
294160	**300**	12	13,2	23,4	28,6	40,0	96,0	15,400	16	8
294162		14	14,5	23,4	28,6	40,0	96,0	15,000	16	8
294164		16	16,5	23,4	28,6	40,0	96,0	2,900	16	8
294174	**400**	16	16,5	26,8	32,8	37,0	104,7	22,700	10	5
294176		20	21,0	26,8	32,8	37,0	104,7	22,000	10	5
294184	**500**	16	16,5	29,8	38,4	46,5	115,5	42,000	8	3
294196	**630**	20	21,0	34,5	44,7	50,0	133,0	66,800	6	3



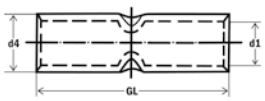
Butt connectors, Light “M” series

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

Cu

Art. no.	CSS	d1	d4	TL		kg/100		PU
294200	**1,5**	2,4	4,0	22,0		0,080	2000	200
294202	**2,5**	2,7	4,3	22,0		0,080	2000	200
294204	**4**	3,1	4,8	25,0		0,300	1000	100
294206	**6**	3,8	5,5	25,0		0,300	1000	100
294208	**10**	4,7	6,9	25,0		0,400	600	100
294210	**16**	5,6	7,8	29,0		0,500	600	100
294212	**25**	7,1	9,5	29,0		0,700	500	50
294214	**35**	8,2	11,0	35,0		1,200	300	50
294218	**50**	9,5	12,5	35,0		1,400	240	40
294220	**70**	11,5	15,0	45,0		2,700	120	20
294222	**95**	13,5	17,0	47,0		3,200	40	20
294224	**120**	15,6	20,0	52,0		5,500	40	20
294226	**150**	16,5	21,0	59,0		6,500	40	20
294228	**185**	18,4	23,6	65,0		9,200	40	20
294230	**240**	21,2	26,4	75,0		11,900	20	10
294232	**300**	23,4	28,6	90,0		14,500	10	5
294234	**400**	26,8	32,8	106,0		24,200	10	5



PU Packing unit PE Price unit

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

✸ Best-seller Premium product

RoHS

Tubular cable lugs, standard series

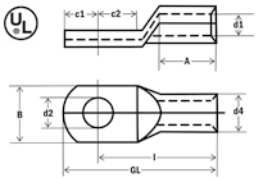
HUPtype

- 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

Cu

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	d4	A	v1	v2	l	B	c1	c2	kg/100		PU
290900 *	0,75	3	3,2	1,3	2,8	6,0	1	-	12,0	6,0	3,25	4,0	0,073	2000	100
290902		4	4,3	1,3	2,8	6,0	1	-	13,0	6,5	4,0	5,0	0,064	2000	100
290904	1,5	3	3,2	1,8	3,3	6,0	1	-	12,0	6,5	3,25	4,0	0,060	2000	100
290906 *		4	4,3	1,8	3,3	6,0	1	-	13,0	6,5	4,0	5,0	0,066	2000	100
290908 *		5	5,3	1,8	3,3	6,0	1	-	14,0	7,5	4,75	5,5	0,087	2000	100
290910		6	6,5	1,8	3,3	6,0	1	-	16,0	9,0	6,5	6,5	0,097	2000	100
290912	2,5	3	3,2	2,3	4,2	6,0	1	-	12,0	7,5	3,25	4,0	0,103	2000	100
290914		4	4,3	2,3	4,2	6,0	1	-	13,0	7,5	4,0	5,0	0,112	2000	100
290916 *		5	5,3	2,3	4,2	6,0	1	-	14,0	8,5	4,75	5,5	0,121	2000	100
290918		6	6,5	2,3	4,2	6,0	1	-	16,0	9,5	6,5	6,5	0,143	2000	100
290920		8	8,5	2,3	4,2	6,0	1	-	20,0	13,0	7,75	9,5	0,151	2000	100
290922	4	4	4,3	3,0	5,0	8,0	1	-	17,0	8,5	4,75	5,5	0,200	2000	100
290924 *		5	5,3	3,0	5,0	8,0	1	-	17,0	9,0	4,75	6,0	0,161	2000	100
290926 *		6	6,5	3,0	5,0	8,0	1	-	19,0	10,0	6,5	6,5	0,220	2000	100
290928		8	8,5	3,0	5,0	8,0	1	-	22,0	13,0	8,5	9,5	0,300	2000	100
290930	6	4	4,3	3,5	6,5	9,0	1	-	18,0	8,5	5,0	5,5	0,452	1800	100
290932 *		5	5,3	3,5	6,5	9,0	1	-	21,0	10,0	6,5	7,5	0,475	1800	100
290934 *		6	6,5	3,5	6,5	9,0	1	-	21,0	12,0	6,5	7,5	0,400	1400	100
290936		8	8,5	3,5	6,5	9,0	1	-	23,0	15,0	10,0	10,0	0,500	1400	100
290938	10	5	5,3	4,5	7,0	10,0	1	-	22,0	12,0	6,5	7,5	0,400	1000	100
290940 *		6	6,5	4,5	7,0	10,0	1	-	22,0	12,0	6,5	7,5	0,400	1000	100
290942 *		8	8,5	4,5	7,0	10,0	1	-	25,0	15,0	10,0	10,0	0,540	800	100
290944		10	10,5	4,5	7,0	10,0	1	-	27,0	17,0	12,0	12,0	0,573	600	100
290946		12	13,0	4,5	7,0	10,0	1	-	29,0	19,0	13,0	13,0	0,600	600	100
290948	16	5	5,3	5,5	8,5	13,0	1	1	26,0	12,0	5,5	6,5	0,800	600	100
290950		6	6,5	5,5	8,5	13,0	1	1	27,0	12,0	6,25	7,5	0,700	600	100
290952 *		8	8,5	5,5	8,5	13,0	1	1	29,0	15,0	8,5	9,5	0,800	400	100
290954		10	10,5	5,5	8,5	13,0	1	1	31,0	17,0	10,5	11,5	0,950	400	100
290956		12	13,0	5,5	8,5	13,0	1	1	33,0	19,0	12,0	13,0	1,000	400	100
290958	25	6	6,5	7,0	10,0	15,0	2	1	30,0	14,0	7,5	7,5	1,100	400	50
290960 *		8	8,5	7,0	10,0	15,0	2	1	32,0	16,0	10,0	10,0	1,200	400	50
290962		10	10,5	7,0	10,0	15,0	2	1	34,0	18,0	12,0	12,0	1,200	300	50
290964		12	13,0	7,0	10,0	15,0	2	1	35,0	19,0	13,0	13,0	1,300	300	50
290966	35	6	6,5	8,5	12,0	17,0	2	1	32,0	17,0	7,5	7,5	1,900	240	40
290968 *		8	8,5	8,5	12,0	17,0	2	1	34,0	17,0	10,0	10,0	1,900	240	40
290970		10	10,5	8,5	12,0	17,0	2	1	37,0	19,0	12,0	12,0	2,100	160	40
290972		12	13,0	8,5	12,0	17,0	2	1	38,0	21,0	13,0	13,0	2,000	160	40
290974		16	17,0	8,5	12,0	17,0	2	1	42,0	26,0	16,0	16,0	2,100	160	40
290976	50	6	6,5	10,0	14,0	19,0	2	1	37,0	20,0	10,0	10,0	2,900	160	40
290978 *		8	8,5	10,0	14,0	19,0	2	1	37,0	20,0	10,0	10,0	2,700	160	40
290980 *		10	10,5	10,0	14,0	19,0	2	1	39,0	20,0	12,0	12,0	2,900	160	25
290982		12	13,0	10,0	14,0	19,0	2	1	43,0	23,0	13,0	13,0	3,300	100	25
290984		16	17,0	10,0	14,0	19,0	2	1	46,0	28,0	16,0	16,0	3,100	100	25
290985	70	6	6,5	12,0	16,5	21,0	2	1	43,0	23,0	10,0	10,0	4,200	100	25
290986		8	8,5	12,0	16,5	21,0	2	1	43,0	23,0	10,0	10,0	4,200	100	25
290988 *		10	10,5	12,0	16,5	21,0	2	1	44,0	23,0	12,0	12,0	4,300	100	25
290990		12	13,0	12,0	16,5	21,0	2	1	46,0	23,0	13,0	13,0	4,500	100	25
290991		14	15,0	12,0	16,5	21,0	2	1	48,0	23,0	14,5	14,5	4,600	100	25
290992		16	17,0	12,0	16,5	21,0	2	1	50,0	28,0	16,0	16,0	5,100	100	25
290994	95	8	8,5	13,5	18,0	25,0	2	1	48,0	26,0	12,0	12,0	5,300	100	25
290996		10	10,5	13,5	18,0	25,0	2	1	48,0	26,0	12,0	12,0	5,100	100	25
290998 *		12	13,0	13,5	18,0	25,0	2	1	49,0	26,0	13,0	13,0	5,200	100	25
290999		14	15,0	13,5	18,0	25,0	2	1	51,0	26,0	14,5	14,5	5,400	60	15
291000		16	17,0	13,5	18,0	25,0	2	1	54,0	28,0	16,0	16,0	5,600	60	15
291002		20	21,0	13,5	18,0	25,0	2	1	60,0	36,0	22,0	22,0	6,000	60	15



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RoHS

Tubular terminals, standard series

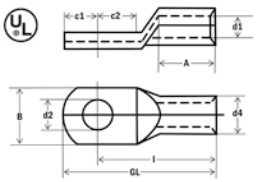
HUPtype

- 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

Cu

available with and without sight hole e.g. 29 00 04/S (add xx xx xx/s when ordering)

Art. no.	CSS	M	d2	d1	d4	A	v1	v2	l	B	c1	c2	kg/100		PU
290004	**120**	8	8,5	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,300	60	15
290006 ✸		10	10,5	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,200	60	15
290008 ✸		12	13,0	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,100	60	15
290009		14	15,0	15,0	19,5	26,0	2	1	52,0	28,0	15,0	15,0	5,900	72	18
290010		16	17,0	15,0	19,5	26,0	2	1	54,0	30,0	16,0	16,0	6,200	60	15
290012		20	21,0	15,0	19,5	26,0	2	1	63,0	36,0	22,0	22,0	7,900	60	15
290014	**150**	10	10,5	16,5	21,0	30,0	2	1	56,0	31,0	14,0	14,0	7,500	60	15
290016 ✸		12	13,0	16,5	21,0	30,0	2	1	57,0	31,0	15,0	15,0	7,300	60	15
290017		14	15,0	16,5	21,0	30,0	2	1	57,0	31,0	15,0	15,0	7,900	60	15
290018		16	17,0	16,5	21,0	30,0	2	1	58,0	31,0	16,0	16,0	7,500	60	15
290020		20	21,0	16,5	21,0	30,0	2	1	66,0	36,0	22,0	22,0	8,800	48	12
290022 ✸	**185**	12	13,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	11,100	40	20
290023		14	15,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	11,800	40	20
290024 ✸		16	17,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	10,700	40	20
290026		20	21,0	19,0	24,0	30,0	2	1	69,0	39,0	22,0	22,0	10,700	40	20
290028 ✸	**240**	12	13,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,700	30	15
290029		14	15,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,400	30	15
290030 ✸		16	17,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,400	30	15
290034	**300**	12	13,0	23,5	29,5	44,0	4	2	87,0	43,0	24,0	24,0	22,000	16	8
290036		14	15,0	23,5	29,5	44,0	4	2	87,0	43,0	24,0	24,0	21,700	16	8
290038		16	17,0	23,5	29,5	44,0	4	2	87,0	43,0	24,0	24,0	21,300	16	8
290040		20	21,0	23,5	29,5	44,0	4	2	87,0	43,0	24,0	24,0	21,400	16	8
290046	**400**	16	17,0	27,0	34,0	44,0	4	2	90,0	49,0	24,0	24,0	31,800	10	5
290048		20	21,0	27,0	34,0	44,0	4	2	90,0	49,0	24,0	24,0	30,500	10	5
290041	**500**	16	17,0	31,0	38,0	70,0	4	2	103,0	55,0	24,0	24,0	45,000	12	6
290043		20	21,0	31,0	38,0	70,0	4	2	103,0	55,0	24,0	24,0	45,000	12	6
290045	**625**	16	17,0	34,0	41,0	70,0	4	2	108,0	60,0	24,0	24,0	49,200	6	3
290047		20	21,0	34,0	41,0	70,0	4	2	108,0	60,0	24,0	24,0	49,200	6	3



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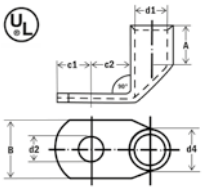
Angled tubular cable lugs 90°, standard series

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

Art. no.	CSS	M	d2	d1	d4	A	v1	v2	l	B	c1	c2	kg/100		PU
290932/90	**6**	5	5,3	3,5	6,5	9,0	1	-	21,0	10,0	6,5	7,5	0,475	1800	100
290934/90		6	6,5	3,5	6,5	9,0	1	-	21,0	12,0	6,5	7,5	0,400	1400	100
290936/90		8	8,5	3,5	6,5	9,0	1	-	23,0	15,0	10,0	10,0	0,500	1400	100
290938/90	**10**	5	5,3	4,5	7,0	10,0	1	-	22,0	12,0	6,5	7,5	0,400	1000	100
290940/90		6	6,5	4,5	7,0	10,0	1	-	22,0	12,0	6,5	7,5	0,400	1000	100
290942/90		8	8,5	4,5	7,0	10,0	1	-	25,0	15,0	10,0	10,0	0,540	800	100
290944/90		10	10,5	4,5	7,0	10,0	1	-	27,0	17,0	12,0	12,0	0,573	600	100
290948/90	**16**	5	5,3	5,5	8,5	13,0	1	1	26,0	12,0	5,5	6,5	0,800	600	100
290950/90		6	6,5	5,5	8,5	13,0	1	1	27,0	12,0	6,25	7,5	0,700	600	100
290952/90		8	8,5	5,5	8,5	13,0	1	1	29,0	15,0	8,5	9,5	0,800	400	100
290954/90		10	10,5	5,5	8,5	13,0	1	1	31,0	17,0	10,5	11,5	0,950	400	100
290956/90		12	13,0	5,5	8,5	13,0	1	1	33,0	19,0	12,0	13,0	1,000	400	100
290958/90	**25**	6	6,5	7,0	10,0	15,0	2	1	30,0	14,0	7,5	7,5	1,100	400	50
290960/90		8	8,5	7,0	10,0	15,0	2	1	32,0	16,0	10,0	10,0	1,200	400	50
290962/90		10	10,5	7,0	10,0	15,0	2	1	34,0	18,0	12,0	12,0	1,250	300	50
290964/90		12	13,0	7,0	10,0	15,0	2	1	35,0	19,0	13,0	13,0	1,300	300	50



PU Packing unit PE Price unit

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

✸ Best-seller Premium product

RoHS

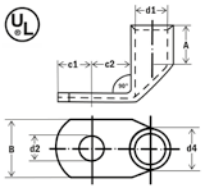
Angled tubular cable lugs 90°, standard series

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

Art. no.	CSS	M	d2	d1	d4	A	v1	v2	l	B	c1	c2	kg/100		PU
290966/90	**35**	6	6,5	8,5	12,0	17,0	2	1	32,0	17,0	7,5	7,5	1,900	240	40
290968/90		8	8,5	8,5	12,0	17,0	2	1	34,0	17,0	10,0	10,0	1,900	240	40
290970/90		10	10,5	8,5	12,0	17,0	2	1	37,0	19,0	12,0	12,0	2,100	160	40
290972/90		12	13,0	8,5	12,0	17,0	2	1	38,0	21,0	13,0	13,0	2,000	160	40
290976/90	**50**	6	6,5	10,0	14,0	19,0	2	1	37,0	20,0	10,0	10,0	2,900	160	40
290978/90		8	8,5	10,0	14,0	19,0	2	1	37,0	20,0	10,0	10,0	2,700	160	40
290980/90		10	10,5	10,0	14,0	19,0	2	1	39,0	20,0	12,0	12,0	2,900	150	25
290982/90		12	13,0	10,0	14,0	19,0	2	1	43,0	23,0	13,0	13,0	3,300	100	25
290986/90	**70**	8	8,5	12,0	16,5	21,0	2	1	43,0	23,0	10,0	10,0	4,200	100	25
290988/90 *		10	10,5	12,0	16,5	21,0	2	1	44,0	23,0	12,0	12,0	4,300	100	25
290990/90		12	13,0	12,0	16,5	21,0	2	1	46,0	23,0	13,0	13,0	4,500	100	25
290992/90		16	17,0	12,0	16,5	21,0	2	1	50,0	28,0	16,0	16,0	5,100	100	25
290994/90	**95**	8	8,5	13,5	18,0	25,0	2	1	48,0	26,0	12,0	12,0	5,300	100	25
290996/90		10	10,5	13,5	18,0	25,0	2	1	48,0	26,0	12,0	12,0	5,100	100	25
290998/90		12	13,0	13,5	18,0	25,0	2	1	49,0	26,0	13,0	13,0	5,200	100	25
291000/90		16	17,0	13,5	18,0	25,0	2	1	54,0	28,0	16,0	16,0	5,600	60	15
291002/90		20	21,0	13,5	18,0	25,0	2	1	60,0	36,0	22,0	22,0	6,000	60	15
290006/90	**120**	10	10,5	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,200	60	15
290008/90		12	13,0	15,0	19,5	26,0	2	1	51,0	28,0	14,0	14,0	6,100	60	15
290010/90		16	17,0	15,0	19,5	26,0	2	1	54,0	30,0	16,0	16,0	6,200	60	15
290014/90	**150**	10	10,5	16,5	21,0	30,0	2	1	56,0	31,0	14,0	14,0	7,500	60	15
290016/90		12	13,0	16,5	21,0	30,0	2	1	57,0	31,0	15,0	15,0	7,300	60	15
290018/90		16	17,0	16,5	21,0	30,0	2	1	58,0	31,0	16,0	16,0	7,500	60	15
290020/90		20	21,0	16,5	21,0	30,0	2	1	66,0	36,0	22,0	22,0	8,800	60	12
291004/90	**185**	10	10,5	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	11,100	40	20
290022/90		12	13,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	11,100	40	20
290024/90		16	17,0	19,0	24,0	30,0	2	1	65,0	35,0	18,0	18,0	10,700	40	20
290028/90	**240**	12	13,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,700	30	15
290030/90		16	17,0	21,0	26,0	35,0	4	2	72,0	39,0	21,5	19,0	13,400	30	15



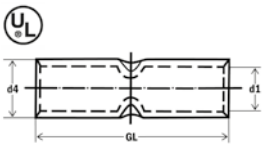
Butt connectors, standard series

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

Cu

Art. no.	CSS	d1	d4	v1	v2	TL		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**	3,0	5,0	1	-	19		0,195	1000	100
291058	**6**	3,5	6,5	1	-	19		0,350	1000	100
291060	**10**	4,5	7,0	1	-	30		0,558	600	100
291062	**16**	5,5	8,5	1	1	35		0,984	500	50
291064	**25**	7,0	10,0	2	1	40		1,350	200	50
291066	**35**	8,5	12,0	2	1	45		2,150	200	50
291068	**50**	10,0	14,0	2	1	50		3,100	100	25
291070	**70**	12,0	16,5	2	1	55		4,700	50	25
291072	**95**	13,5	18,0	2	1	60		5,600	50	25
291074	**120**	15,0	19,5	2	1	65		6,800	60	15
291076	**150**	16,5	21,0	2	1	70		7,800	40	20
291078	**185**	19,0	24,0	2	1	80		11,700	30	5
291080	**240**	21,0	26,0	4	2	90		13,900	20	10
291082	**300**	23,5	29,5	4	2	100		22,300	10	5
291084	**400**	27,0	34,0	4	2	100		29,000	10	5



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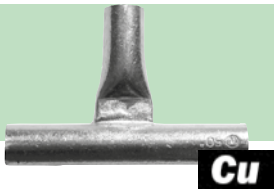
RoHS

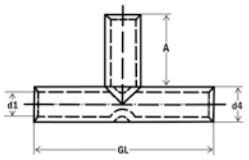
T-connectors, standard series

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	d4	A	TL	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**	3,0	5,0	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	20,0	38	95	17,800	10
291356	**150**	16,8	21,3	44	110	17,900	10
291358	**185**	19,0	24,0	45	115	28,300	1
291360	**240**	21,0	26,0	52	130	31,200	1



PU Packing unit PE Price unit

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

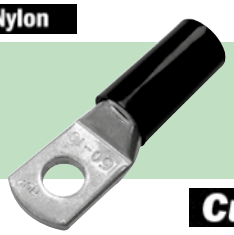
Best-seller Premium product

RoHS

Tubularcable lugs, nylon-insulated, standard series

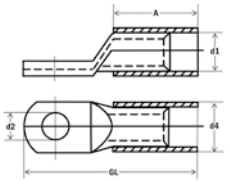
Nylon

- 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



Cu

Art. no.	CSS	M	d2	d1	d4	A	TL	kg/100	PU
290800	**10**	5	5,5	7,0	9,0	17,0	35,5	0,400	100
290801		6	6,5	7,0	9,0	17,0	35,5	0,600	100
290802		8	8,5	7,0	9,0	17,0	42,0	0,500	100
290804		10	10,5	7,0	9,0	17,0	46,0	0,700	50
290806	**16**	5	5,5	8,5	10,5	21,0	39,5	0,600	100
290810		6	6,5	8,5	10,5	21,0	41,3	0,900	50
290812		8	8,5	8,5	10,5	21,0	45,5	1,000	50
290814		10	10,5	8,5	10,5	21,0	49,5	1,000	50
290816		12	13,0	8,5	10,5	21,0	54,0	1,000	50
290818	**25**	6	6,5	10,0	12,0	24,0	46,5	1,200	25
290820		8	8,5	10,0	12,0	24,0	51,0	1,300	25
290822		10	10,5	10,0	12,0	24,0	55,0	1,500	25
290824		12	13,0	10,0	12,0	24,0	57,0	1,400	25
290826	**35**	6	6,5	12,0	14,0	27,0	49,5	2,100	25
290830		8	8,5	12,0	14,5	27,0	54,0	2,100	25
290832		10	10,5	12,0	14,5	27,0	59,0	2,300	25
290834		12	13,0	12,0	14,5	27,0	61,0	2,300	25
290836	**50**	6	6,5	14,0	16,5	32,0	59,0	3,100	25
290840		8	8,5	14,0	16,5	32,0	59,0	3,100	25
290842		10	10,5	14,0	16,5	32,0	63,0	3,300	25
290844		12	13,0	14,0	16,5	32,0	68,0	3,400	25
290846		14	15,0	14,0	16,5	32,0	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	13,0	16,4	18,9	33,5	70,5	5,000	15
290854		14	15,0	16,4	18,9	33,5	73,5	5,000	15
290856		16	17,0	16,4	18,9	33,5	78,5	5,000	15
290858	**95**	8	8,5	17,8	20,8	40,0	74,0	5,800	25
290860		10	10,5	17,8	20,8	40,0	74,0	5,800	25
290862		12	13,0	17,8	20,8	40,0	76,0	5,200	25
290864		14	15,0	17,8	20,8	40,0	79,5	6,200	25
290866		16	17,0	17,8	20,8	40,0	84,0	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	13,0	19,3	22,3	41,5	80,5	6,200	20
290874		14	15,0	19,3	22,3	41,5	82,5	6,600	20
290876		16	17,0	19,3	22,3	41,5	85,5	6,500	20
290878	**150**	10	10,5	20,8	23,8	48,0	88,0	8,800	20
290880		12	13,0	20,8	23,8	48,0	89,0	8,400	20
290882		14	15,0	20,8	23,8	48,0	90,0	8,500	20
290884		16	17,0	20,8	23,8	48,0	92,0	8,100	20
290886		20	21,0	20,8	23,8	48,0	106,0	8,100	20

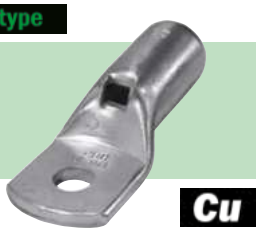


RoHS

Tubular cable lugs for fine-wired, high flexible conductors

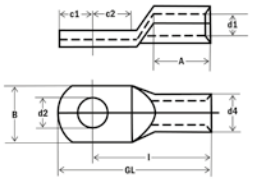
F-type

- 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



Cu

Art. no.	CSS	M	d2	d1	d4	A	l	c1	c2	kg/100		PU
290250 ✸	**10**	6	6,4	5,0	8,0	16,0	23,0	6,0	7,0	0,700	1000	100
290252		8	8,4	5,0	8,0	17,0	26,0	7,0	9,0	0,700	800	100
290254		10	10,5	5,0	8,0	16,0	26,0	8,0	10,0	0,800	600	100
290256		12	13,0	5,0	8,0	17,0	31,0	10,0	14,0	0,800	600	100
290258	**16**	6	6,4	6,0	9,0	17,0	26,0	7,0	9,0	0,900	600	100
290260 ✸		8	8,4	6,0	9,0	17,0	26,0	7,0	9,0	0,900	400	100
290262		10	10,5	6,0	9,0	16,0	28,0	10,0	12,0	1,000	400	100
290264		12	13,0	6,0	9,0	22,0	35,0	12,0	13,0	1,000	400	100
290266	**25**	6	6,4	8,0	11,0	20,0	30,0	7,0	10,0	1,300	400	50
290268 ✸		8	8,4	8,0	11,0	20,0	30,0	8,0	10,0	1,300	400	50
290270		10	10,5	8,0	11,0	20,0	32,0	10,0	12,0	1,500	300	50
290272		12	13,0	8,0	11,0	22,0	35,0	12,0	13,0	1,500	300	50
290276 ✸	**35**	8	8,4	9,0	13,0	25,0	35,0	10,0	10,0	2,500	240	40
290278		10	10,5	9,0	13,0	24,0	35,0	10,0	11,0	2,500	160	40
290280		12	13,0	9,0	13,0	26,0	40,0	12,0	14,0	2,600	160	40
290282	**50**	8	8,4	11,0	14,5	27,0	39,0	11,0	12,0	3,000	150	25
290284 ✸		10	10,5	11,0	14,5	27,0	39,0	11,0	12,0	2,900	150	25
290286 ✸		12	13,0	11,0	14,5	27,0	41,0	12,0	14,0	2,900	100	25
290288		16	17,0	11,0	14,5	27,0	44,0	15,0	17,0	3,000	100	25
290290	**70**	8	8,4	13,0	17,0	32,0	44,0	11,0	12,0	4,400	100	25
290292 ✸		10	10,5	13,0	17,0	32,0	44,0	11,0	12,0	4,000	100	25
290294		12	13,0	13,0	17,0	32,0	46,0	12,0	14,0	4,400	100	25
290296		16	17,0	13,0	17,0	32,0	49,0	15,0	17,0	4,500	100	25
290300	**95**	10	10,5	15,0	20,0	37,0	54,0	15,0	17,0	7,700	100	25
290302 ✸		12	13,0	15,0	20,0	37,0	54,0	15,0	17,0	7,400	100	25
290304		16	17,0	15,0	20,0	37,0	54,0	15,0	17,0	7,000	100	25
290306	**120**	10	10,5	17,0	22,0	41,0	58,0	15,0	17,0	9,400	80	20
290308 ✸		12	13,0	17,0	22,0	41,0	58,0	15,0	17,0	8,900	80	20
290310		16	17,0	17,0	22,0	41,0	58,0	15,0	17,0	8,700	72	18
290316 ✸	**150**	12	13,0	19,0	25,0	48,0	65,0	15,0	17,0	13,300	48	12
290318		16	17,0	19,0	25,0	48,0	65,0	15,0	17,0	12,700	48	12
290320		20	21,0	19,0	25,0	48,0	68,0	19,0	20,0	8,200	48	10
290322	**185**	12	13,0	21,0	27,0	54,0	71,0	15,0	17,0	16,200	40	20
290324		16	17,0	21,0	27,0	54,0	71,0	15,0	17,0	15,800	40	20
290326		20	21,0	21,0	27,0	54,0	74,0	19,0	20,0	14,200	40	15
290328 ✸	**240**	12	13,0	24,0	30,0	56,0	76,0	19,0	20,0	20,300	30	15
290330		16	17,0	24,0	30,0	56,0	76,0	19,0	20,0	20,700	30	15
290332		20	21,0	24,0	30,0	56,0	76,0	19,0	20,0	18,300	30	15
290334	**300**	12	13,0	26,0	32,0	62,0	93,0	21,0	31,0	30,000	16	8
290336		16	17,0	26,0	32,0	62,0	93,0	21,0	31,0	28,100	16	8
290338		20	21,0	26,0	32,0	62,0	93,0	21,0	31,0	26,200	16	8



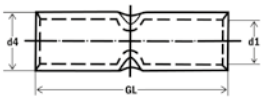
Butt-connector for fine stranded high flexible conductors

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

Cu

Art. no.	CSS	d1	d4	TL		kg/100		PU
290350	**10**	5,0	8,0	30		0,800	600	50
290352	**16**	6,0	9,0	35		1,000	500	50
290354	**25**	8,0	11,0	35		1,300	200	50
290356	**35**	9,0	13,0	35		2,100	200	25
290358	**50**	11,0	14,5	45		3,700	100	25
290360	**70**	13,0	17,0	45		4,600	50	25
290362	**95**	15,0	20,0	45		7,300	50	50
290364	**120**	17,0	22,0	55		6,900	50	25
290366	**150**	19,0	25,0	65		9,800	50	18
290368	**185**	21,0	27,0	70		13,600	36	18
290370	**240**	24,0	30,0	70		16,000	12	6
290372	**300**	26,0	32,0	75		7,000	6	6
290374	**400**	30,0	36,0	100		11,100	6	6



PU Packing unit PE Price unit

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

✸ Best-seller Premium product

RoHS

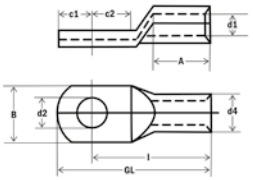
Cable lugs acc. to DIN 46235

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

Cu

Art. no.	CSS	M	ld.	d2	d1	d4	A	v1	v2	l	c1	c2	B	kg/100		PU
290001	**6**	5	5	5,3	3,8	5,5	10,0	2	-	24,0	6,5	7,5	8,5	0,300	800	100
290003		6	5	6,4	3,8	5,5	10,0	2	-	24,0	7,5	8,0	8,5	0,300	800	100
290005		8	5	8,4	3,8	5,5	10,0	2	-	24,0	10,0	10,0	13,0	0,300	800	100
290007	**10**	5	6	5,3	4,5	6,0	10,0	2	-	27,0	7,0	8,5	9,0	0,700	800	100
290011		6	6	6,4	4,5	6,0	10,0	2	-	27,0	7,5	8,5	9,0	0,600	800	100
290013		8	6	8,4	4,5	6,0	10,0	2	-	27,0	10,0	10,0	13,0	0,300	800	100
290015		10	6	10,5	4,5	6,0	10,0	2	-	28,0	10,0	10,0	15,0	0,500	800	100
290019	**16**	6	8	6,4	5,5	8,5	20,0	2	1	36,0	7,5	8,0	13,0	1,100	500	50
290021		8	8	8,4	5,5	8,5	20,0	2	1	36,0	10,0	10,0	13,0	1,100	400	50
290025		10	8	10,5	5,5	8,5	20,0	2	1	36,0	12,0	12,0	17,0	1,200	400	50
290027		12	8	13,0	5,5	8,5	20,0	2	1	36,0	13,0	13,0	18,0	1,200	400	50
290031	**25**	6	10	6,4	7,0	10,0	20,0	2	1	38,0	7,5	8,0	14,0	1,300	300	50
290033		8	10	8,4	7,0	10,0	20,0	2	1	38,0	10,0	10,0	16,0	1,400	300	50
290035		10	10	10,5	7,0	10,0	20,0	2	1	38,0	12,0	12,0	17,0	1,600	300	50
290037		12	10	13,0	7,0	10,0	20,0	2	1	38,0	13,0	13,0	19,0	1,400	300	50
290039	**35**	6	12	6,4	8,2	12,5	20,0	2	1	42,0	7,5	8,0	17,0	2,700	150	25
290042		8	12	8,4	8,2	12,5	20,0	2	1	42,0	10,0	10,0	17,0	2,900	150	15
290044		10	12	10,5	8,2	12,5	20,0	2	1	42,0	12,0	12,0	19,0	3,000	150	25
290049		12	12	13,0	8,2	12,5	20,0	2	1	42,0	13,0	13,0	21,0	2,800	150	25
290050	**50**	8	14	8,4	10,0	14,5	28,0	3	1	52,0	10,0	10,0	20,0	4,500	100	25
290051		10	14	10,5	10,0	14,5	28,0	3	1	52,0	12,0	12,0	22,0	4,400	100	25
290052		12	14	13,0	10,0	14,5	28,0	3	1	52,0	13,0	13,0	24,0	4,400	100	25
290053		16	14	17,0	10,0	14,5	28,0	3	1	52,0	16,0	16,0	28,0	4,300	100	20
290054	**70**	8	16	8,4	11,5	16,5	28,0	3	1	55,0	10,0	10,0	24,0	5,900	100	25
290055		10	16	10,5	11,5	16,5	28,0	3	1	55,0	12,0	12,0	24,0	6,000	100	25
290056		12	16	13,0	11,5	16,5	28,0	3	1	55,0	13,0	13,0	24,0	5,300	100	25
290057		16	16	17,0	11,5	16,5	28,0	3	1	55,0	16,0	16,0	30,0	5,600	80	20
290058	**95**	10	18	10,5	13,5	19,0	35,0	4	2	65,0	12,0	12,0	28,0	8,900	60	15
290059		12	18	13,0	13,5	19,0	35,0	4	2	65,0	13,0	13,0	28,0	8,500	60	15
290060		16	18	17,0	13,5	19,0	35,0	4	2	65,0	16,0	16,0	32,0	8,700	60	15
290061	**120**	10	20	10,5	15,5	21,0	35,0	4	2	70,0	15,0	16,0	32,0	11,100	40	20
290063		12	20	13,0	15,5	21,0	35,0	4	2	70,0	16,0	17,0	32,0	11,000	40	20
290064		16	20	17,0	15,5	21,0	35,0	4	2	70,0	19,0	20,0	32,0	10,600	40	20
290065		20	20	21,0	15,5	21,0	35,0	4	2	70,0	21,0	22,0	38,0	11,100	30	20
290066	**150**	10	22	10,5	17,0	23,5	35,0	4	2	78,0	15,0	16,0	34,0	15,800	30	15
290067		12	22	13,0	17,0	23,5	35,0	4	2	78,0	16,0	17,0	34,0	15,600	30	15
290068		16	22	17,0	17,0	23,5	35,0	4	2	78,0	19,0	20,0	34,0	15,700	30	15
290069		20	22	21,0	17,0	23,5	35,0	4	2	78,0	21,0	22,0	40,0	15,800	20	12
290070	**185**	10	25	10,5	19,0	25,5	40,0	4	2	82,0	15,0	16,0	37,0	17,200	20	10
290071		12	25	13,0	19,0	25,5	40,0	4	2	82,0	16,0	17,0	37,0	18,300	20	10
290072		16	25	17,0	19,0	25,5	40,0	4	2	82,0	19,0	20,0	37,0	17,700	20	10
290073		20	25	21,0	19,0	25,5	40,0	4	2	82,0	21,0	22,0	40,0	18,900	20	10
290074	**240**	12	28	13,0	21,5	29,0	40,0	5	2	92,0	16,0	17,0	42,0	26,400	16	8
290075		16	28	17,0	21,5	29,0	40,0	5	2	92,0	19,0	20,0	42,0	26,900	16	8
290076		20	28	21,0	21,5	29,0	40,0	5	2	92,0	21,0	22,0	45,0	26,900	16	8
290077	**300**	16	32	17,0	24,5	32,0	50,0	-	2	100,0	19,0	22,0	46,0	33,000	8	4
290078		20	32	21,0	24,5	32,0	50,0	-	2	100,0	19,0	22,0	46,0	33,000	8	4
290079	**400**	16	38	17,0	27,5	38,5	70,0	-	3	115,0	25,0	25,0	55,0	70,200	6	6
290080		20	38	21,0	27,5	38,5	70,0	-	3	115,0	25,0	25,0	54,0	45,100	6	6
290081	**500**	20	42	21,0	31,0	42,0	70,0	-	3	125,0	25,0	25,0	60,0	76,600	6	6
290082	**625**	20	44	21,0	34,5	44,0	80,0	-	3	125,0	25,0	25,0	64,0	78,000	1	1
290083	**800**	20	52	21,0	40,0	52,0	100,0	-	3	165,0	30,0	30,0	75,0	148,600	1	1
290084	**1000**	20	58	21,0	44,0	58,0	100,0	-	3	165,0	30,0	30,0	83,0	195,200	1	1



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RoHS

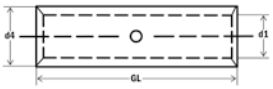
Compression joints acc. to DIN 46267 Part 1 (for non-tension connections)

DIN

- Material: 99.9% E-Cu DIN 40500
- Surface: bare
- With marks for correct crimping
- Annealed material for easier crimping

Cu

Art. no.	CSS	ld.	d1	d4	v1	v2	TL	kg/100		PU
291520	**6**	5	3,8	5,5	2	-	30	0,300	1600	100
291522	**10**	6	4,5	6,0	2	-	30	0,600	1000	100
291524	**16**	8	5,5	8,5	2	1	50	1,450	300	50
291526	**25**	10	7,0	10,0	2	1	50	1,700	300	50
291528	**35**	12	8,2	12,5	2	1	50	3,100	200	50
291530	**50**	14	10,0	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	19,0	4	2	70	8,400	50	15
291536	**120**	20	15,5	21,0	4	2	70	9,600	50	25
291538	**150**	22	17,0	23,5	4	2	80	14,500	30	15
291540	**185**	25	19,0	25,5	4	2	85	16,200	30	5
291542	**240**	28	21,5	29,0	5	2	90	22,400	20	10
291544	**300**	32	24,5	32,0	-	2	100	29,500	10	5
291546	**400**	38	27,5	38,5	-	3	150	72,500	8	8
291548	**500**	42	31,0	42,0	-	3	160	85,600	5	5
291550	**625**	44	34,5	44,0	-	3	160	79,900	6	1
291552	**800**	52	40,0	52,0	-	3	200	151,000	6	1
291554	**1000**	58	44,0	58,0	-	3	1000	198,000	6	1



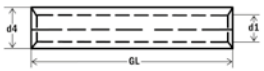
Compression joints acc. to DIN 48085, Part 1 (for full-tension cable connections)

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	ld.	d1	d4	v1	v2	TL	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	7,0	10,0	10	-	95	2,600		50
291448	**35**	12	8,2	12,5	10	-	95	5,800		25
291450	**50**	14	10,0	14,5	10	-	110	7,000		25
291452	**70**	16	11,5	16,5	10	-	110	9,000		25
291454	**95**	20	13,5	21,0	16	8	145	8,600		10
291456	**120**	22	15,0	23,5	16	8	160	36,800		10
291458	**150**	25	16,5	25,5	16	8	180	47,500		10
291460	**185**	32	18,5	31,5	-	10	260	118,000		5
291462	**240**	34	21,0	34,5	-	12	310	163,000		5
291464	**300**	38	23,5	38,5	-	14	360	235,000		5



PU Packing unit PE Price unit

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

Best-seller Premium product

RoHS

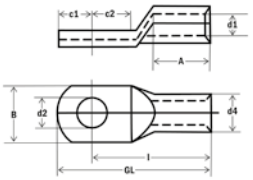
Cable lugs acc. to DIN 46235

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	ld.	d2	d1	d4	A	v1	v2	l	c1	c2	B	kg/100		PU
290404 *	6	6	5	6,4	3,8	5,5	10,0	2	-	24,0	7,5	8,0	8,5	0,300	800	100
290406		8	5	8,4	3,8	5,5	10,0	2	-	24,0	10,0	10,0	13,0	0,300	800	100
290408	10	5	6	5,3	4,5	6,0	10,0	2	-	27,0	7,0	8,5	9,0	0,400	800	100
290410 *		6	6	6,4	4,5	6,0	10,0	2	-	27,0	7,5	8,5	9,0	0,400	800	100
290412 *		8	6	8,4	4,5	6,0	10,0	2	-	27,0	10,0	10,0	13,0	0,400	800	100
290414		10	6	10,5	4,5	6,0	10,0	2	-	28,0	10,0	10,0	15,0	0,400	800	100
290416	16	6	8	6,4	5,5	8,5	20,0	2	1	36,0	7,5	8,0	13,0	1,200	500	50
290418 *		8	8	8,4	5,5	8,5	20,0	2	1	36,0	10,0	10,0	13,0	1,200	400	50
290420		10	8	10,5	5,5	8,5	20,0	2	1	36,0	12,0	12,0	17,0	1,100	400	50
290422		12	8	13,0	5,5	8,5	20,0	2	1	36,0	13,0	13,0	18,0	1,200	400	50
290424	25	6	10	6,4	7,0	10,0	20,0	2	1	38,0	7,5	8,0	14,0	1,300	300	50
290426 *		8	10	8,4	7,0	10,0	20,0	2	1	38,0	10,0	10,0	16,0	1,400	300	50
290428		10	10	10,5	7,0	10,0	20,0	2	1	38,0	12,0	12,0	17,0	1,600	300	50
290430		12	10	13,0	7,0	10,0	20,0	2	1	38,0	13,0	13,0	19,0	1,500	300	50
290432	35	6	12	6,4	8,2	12,5	20,0	2	1	42,0	7,5	8,0	17,0	2,700	150	25
290434 *		8	12	8,4	8,2	12,5	20,0	2	1	42,0	10,0	10,0	17,0	2,900	150	25
290436		10	12	10,5	8,2	12,5	20,0	2	1	42,0	12,0	12,0	19,0	2,900	150	25
290438		12	12	13,0	8,2	12,5	20,0	2	1	42,0	13,0	13,0	21,0	2,700	150	25
290440	50	8	14	8,4	10,0	14,5	28,0	3	1	52,0	10,0	10,0	20,0	4,400	100	25
290442 *		10	14	10,5	10,0	14,5	28,0	3	1	52,0	12,0	12,0	22,0	4,500	100	25
290444		12	14	13,0	10,0	14,5	28,0	3	1	52,0	13,0	13,0	24,0	4,400	100	25
290446		16	14	17,0	10,0	14,0	28,0	3	1	52,0	16,0	16,0	28,0	4,200	100	20
290448	70	8	16	8,4	11,5	16,5	28,0	3	1	55,0	10,0	10,0	24,0	5,900	100	25
290450 *		10	16	10,5	11,5	16,5	28,0	3	1	55,0	12,0	12,0	24,0	5,900	100	25
290452		12	16	13,0	11,5	16,5	28,0	3	1	55,0	13,0	13,0	24,0	5,900	100	25
290454		16	16	17,0	11,5	16,5	28,0	3	1	55,0	16,0	16,0	30,0	5,800	80	20
290456 *	95	10	18	10,5	13,5	19,0	35,0	4	2	65,0	12,0	12,0	28,0	8,800	60	15
290458 *		12	18	13,0	13,5	19,0	35,0	4	2	65,0	13,0	13,0	28,0	8,900	60	15
290460		16	18	17,0	13,5	19,0	35,0	4	2	65,0	16,0	16,0	32,0	8,700	60	15
290462	120	10	20	10,5	15,5	21,0	35,0	4	2	70,0	15,0	16,0	32,0	11,000	40	20
290464 *		12	20	13,0	15,5	21,0	35,0	4	2	70,0	16,0	17,0	32,0	11,100	40	20
290466		16	20	17,0	15,5	21,0	35,0	4	2	70,0	19,0	20,0	32,0	10,500	40	20
290468		20	20	21,0	15,5	21,0	35,0	4	2	70,0	21,0	22,0	38,0	11,300	30	15
290470	150	10	22	10,5	17,0	23,5	35,0	4	2	78,0	15,0	16,0	34,0	15,600	30	15
290472 *		12	22	13,0	17,0	23,5	35,0	4	2	78,0	16,0	17,0	34,0	15,700	30	15
290474		16	22	17,0	17,0	23,5	35,0	4	2	78,0	19,0	20,0	34,0	15,900	30	15
290476		20	22	21,0	17,0	23,5	35,0	4	2	78,0	21,0	22,0	40,0	16,000	25	25
290478	185	10	25	10,5	19,0	25,5	40,0	4	2	82,0	15,0	16,0	37,0	18,000	20	10
290480 *		12	25	13,0	19,0	25,5	40,0	4	2	82,0	16,0	17,0	37,0	18,400	20	10
290482 *		16	25	17,0	19,0	25,5	40,0	4	2	82,0	19,0	20,0	37,0	18,400	20	10
290484		20	25	21,0	19,0	25,5	40,0	4	2	82,0	21,0	22,0	40,0	17,700	20	10
290486 *	240	12	28	13,0	21,5	29,0	40,0	5	2	92,0	16,0	17,0	42,0	26,500	16	8
290488 *		16	28	17,0	21,5	29,0	40,0	5	2	92,0	19,0	20,0	42,0	26,600	16	8
290490		20	28	21,0	21,5	29,0	40,0	5	2	92,0	21,0	22,0	45,0	27,600	16	8
290492	300	16	32	17,0	24,5	32,0	50,0	-	2	100,0	19,0	22,0	46,0	34,300	10	5
290494		20	32	21,0	24,5	32,0	50,0	-	2	100,0	19,0	22,0	46,0	33,100	10	5
290496	400	16	38	17,0	27,5	38,5	70,0	-	3	115,0	25,0	25,0	54,0	69,800	6	3
290498		20	38	21,0	27,5	38,5	70,0	-	3	115,0	25,0	25,0	54,0	66,400	8	1
290516	500	20	42	21,0	31,0	42,0	70,0	-	3	125,0	25,0	25,0	60,0	82,600	8	1
290518	625	20	44	21,0	34,5	44,0	80,0	-	3	125,0	25,0	25,0	64,0	79,000	6	1
290520	800	20	52	21,0	40,0	52,0	100,0	-	3	165,5	30,0	30,0	75,0	139,400	6	1
290522	1000	20	58	21,0	44,0	58,0	100,0	-	3	165,0	30,0	30,0	83,0	195,000	6	1



RoHS

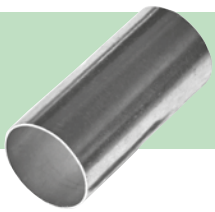
Cable lugs “SmallPack” acc. to DIN 46235

- **Werks Material: 99,9% electrolytic copper toff: 99,9% Elektrolyt-Kupfer, geglühtes Material**
- **Surface: tin-plated**

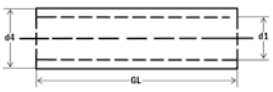
Art. no.	CSS	M	Id.	d2	d1	d4	A	v1	v2	l	c1	c2	B	kg/100	VE
290404/10	**6**	6	5	6,4	3,8	5,5	10,0	2	-	24,0	7,5	8,0	8,5	0,300	10
290406/10		8	5	8,4	3,8	5,5	10,0	2	-	24,0	10,0	10,0	13,0	0,300	10
290410/10	**10**	6	6	6,4	4,5	6,0	10,0	2	-	27,0	7,5	8,5	9,0	0,400	10
290412/10		8	6	8,4	4,5	6,0	10,0	2	-	27,0	10,0	10,0	13,0	0,400	10
290416/10	**16**	6	8	6,4	5,5	8,5	20,0	2	1	36,0	7,5	8,0	13,0	1,200	10
290418/10		8	8	8,4	5,5	8,5	20,0	2	1	36,0	10,0	10,0	13,0	1,200	10
290420/10		10	8	10,5	5,5	8,5	20,0	2	1	36,0	12,0	12,0	17,0	1,100	10
290426/10	**25**	8	10	8,4	7,0	10,0	20,0	2	1	38,0	10,0	10,0	16,0	1,400	10
290428/10		10	10	10,5	7,0	10,0	20,0	2	1	38,0	12,0	12,0	17,0	1,600	10
290434/10	**35**	8	12	8,4	8,2	12,5	20,0	2	1	42,0	10,0	10,0	17,0	2,900	10
290436/10		10	12	10,5	8,2	12,5	20,0	2	1	42,0	12,0	12,0	19,0	2,900	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	d4	TL	kg/100	VE
290561	**16**	5,0	5,3	16	0,024	100
290562	**25**	6,4	6,7	16	0,038	100
290563	**35**	7,7	8,2	17	0,083	100
290564	**50**	9,0	9,5	23	0,118	50
290565	**70**	10,6	11,2	24	0,173	50
290566	**95**	12,4	13,0	28	0,223	50
290567	**120**	13,9	14,5	30	0,261	50
290568	**150**	15,4	16,0	30	0,342	25
290569	**185**	17,6	18,2	38	0,396	25
290570	**240**	19,9	20,5	38	0,508	25
290571	**300**	22,4	23,0	48	0,723	5
290572	**400**	25,4	26,2	58	1,108	5



PU Packing unit PE Price unit

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

Best-seller Premium product

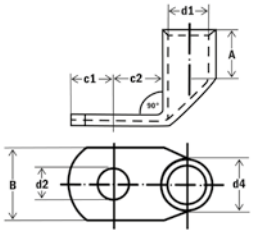
RoHS

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



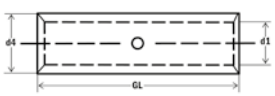
Art. no.	CSS	M	Id.	d2	d1	d4	A	v1	v2	c1	c2	kg/100	PU
291700	**6**	5	5	5,3	3,8	5,5	10,0	2	-	6,5	9,0	0,400	100
291702 *		6	5	6,4	3,8	5,5	10,0	2	-	7,5	10,0	0,300	100
291704	**10**	5	6	5,3	4,5	6,0	10,0	2	-	7,0	10,0	0,400	100
291706		6	6	6,4	4,5	6,0	10,0	2	-	7,5	10,0	0,500	100
291708		8	6	8,4	4,5	6,0	10,0	2	-	10,0	13,0	1,100	100
291710	**16**	6	8	6,4	5,5	8,5	20,0	2	1	7,5	11,0	1,200	50
291712 *		8	8	8,4	5,5	8,5	20,0	2	1	10,0	13,0	1,100	50
291714		10	8	10,5	5,5	8,5	20,0	2	1	12,0	15,0	1,200	50
291716		12	8	13,0	5,5	8,5	20,0	2	1	13,0	18,0	1,200	50
291718	**25**	6	10	6,4	7,0	10,0	20,0	2	1	7,5	11,0	1,500	50
291720 *		8	10	8,4	7,0	10,0	20,0	2	1	10,0	13,0	1,500	50
291722		10	10	10,5	7,0	10,0	20,0	2	1	12,0	15,0	1,500	50
291724		12	10	13,0	7,0	10,0	20,0	2	1	13,0	18,0	1,500	50
291726 *	**35**	8	12	8,4	8,2	12,5	20,0	2	1	10,0	13,0	2,600	25
291728		10	12	10,5	8,2	12,5	20,0	2	1	12,0	15,0	2,900	25
291730		12	12	13,0	8,2	12,5	20,0	2	1	13,0	18,0	2,900	25
291732	**50**	8	14	8,4	10,0	14,0	28,0	3	1	10,0	16,0	4,100	25
291734 *		10	14	10,5	10,0	14,0	28,0	3	1	12,0	16,0	4,200	20
291736		12	14	13,0	10,0	14,5	28,0	3	1	13,0	18,0	4,500	20
291738		16	14	17,0	10,0	14,5	28,0	3	1	16,0	22,0	4,100	20
291740	**70**	8	16	8,4	11,5	16,5	28,0	3	1	10,0	14,0	5,400	30
291742 *		10	16	10,5	11,5	16,5	28,0	3	1	12,0	16,0	5,500	30
291744		12	16	13,0	11,5	16,5	28,0	3	1	13,0	18,0	6,000	15
291746		16	16	17,0	11,5	16,5	28,0	3	1	16,0	22,0	5,600	30
291748	**95**	10	18	10,5	13,5	19,0	35,0	4	2	12,0	17,0	8,400	10
291750		12	18	13,0	13,5	19,0	35,0	4	2	13,0	18,0	8,700	10
291752		16	18	17,0	13,5	19,0	35,0	4	2	16,0	22,0	8,700	10
291754	**120**	10	20	10,5	15,5	21,0	35,0	4	2	15,0	17,0	10,000	20
291756 *		12	20	13,0	15,5	21,0	35,0	4	2	16,0	18,0	10,000	20
291758		16	20	17,0	15,5	21,0	35,0	4	2	18,0	22,0	10,200	20
291760		20	20	21,0	15,5	21,0	35,0	4	2	21,0	24,0	9,800	15
291762	**150**	10	22	10,5	17,0	23,5	35,0	4	2	15,0	17,0	13,100	15
291764 *		12	22	13,0	17,0	23,5	35,0	4	2	16,0	18,0	13,200	15
291766		16	22	17,0	17,0	23,5	35,0	4	2	19,0	22,0	14,100	15
291768		20	22	21,0	17,0	23,5	35,0	4	2	21,0	24,0	13,700	10
291770	**185**	10	25	10,5	19,0	25,5	40,0	4	2	15,0	22,0	16,400	10
291772		12	25	13,0	19,0	25,5	40,0	4	2	16,0	22,0	15,600	10
291774		16	25	17,0	19,0	25,5	40,0	4	2	19,0	22,0	18,600	10
291776		20	25	21,0	19,0	25,5	40,0	4	2	21,0	24,0	17,500	10
291778	**240**	12	28	13,0	21,5	29,0	40,0	5	2	16,0	22,0	22,400	10
291780		16	28	17,0	21,5	29,0	40,0	5	2	19,0	22,0	22,900	10
291782		20	28	21,0	21,5	29,0	40,0	5	2	21,0	24,0	21,000	10

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	Id.	d1	d4	v1	v2	TL	kg/100		PU
291521	**6**	5	3,8	5,5	2	-	30	0,300	1600	100
291523	**10**	6	4,5	6,0	2	-	30	0,600	1000	100
291525	**16**	8	5,5	8,5	2	1	50	1,450	300	50
291527	**25**	10	7,0	10,0	2	1	50	1,600	300	50
291529	**35**	12	8,2	12,5	2	1	50	3,000	200	50
291531	**50**	14	10,0	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	19,0	4	2	70	8,300	50	25
291537	**120**	20	15,5	21,0	4	2	70	9,500	50	25
291539	**150**	22	17,0	23,5	4	2	80	14,200	30	15
291541	**185**	25	19,0	25,5	4	2	85	16,900	30	5
291543	**240**	28	21,5	29,0	5	2	90	22,600	20	10
291545	**300**	32	24,5	32,0	-	2	100	29,700	10	5
291547	**400**	38	27,5	38,5	-	3	150	74,000	8	8
291549	**500**	42	31,0	42,0	-	3	160	89,100	5	5
291551	**625**	44	34,5	44,0	-	3	160	79,000	1	1
291553	**800**	52	40,0	52,0	-	3	200	151,300	1	1
291555	**1000**	58	44,0	58,0	-	3	1000	198,000	1	1

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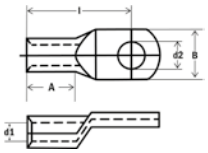
RoHS

Tubular cable lugs of pure nickel, ring type

- **Material: nickel**
- **Temperature resistant to 500° C**

Ni

Art. no.	CSS	M	d2	d1	A	l	kg/100	PU
292560	**0,5**	4	4,3	1,6	13,0	6,0	0,105	100
292562		5	5,3	1,6	14,0	6,0	0,086	100
292564	**1,5 - 2,5**	4	4,3	2,3	13,0	6,0	0,109	100
292566		5	5,3	2,3	14,0	6,0	0,122	100
292568		6	6,5	2,3	16,0	6,0	0,134	100
292570	**4 - 6**	4	4,3	3,6	18,0	8,0	0,300	100
292572		5	5,3	3,6	19,0	8,0	0,200	100
292574		6	6,5	3,6	19,0	8,0	0,300	100

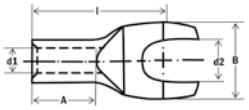


Tubular terminals of pure nickel, forke type

- **Material: nickel**
- **Temperature resistant to 500° C**

Ni

Art. no.	CSS	M	d2	d1	A	l	kg/100	PU
292580	**0,5**	4	4,3	1,6	13,0	6,0	0,073	100
292582		5	5,3	1,6	14,0	6,0	0,070	100
292584	**1,5 - 2,5**	4	4,3	2,3	13,0	6,0	0,100	100
292586		5	5,3	2,3	14,0	6,0	0,100	100
292588		6	6,5	2,3	16,0	6,0	0,110	100
292590	**4 - 6**	4	4,3	3,6	18,0	8,0	0,300	100
292592		5	5,3	3,6	19,0	8,0	0,300	100

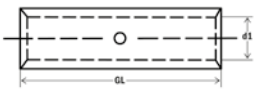


Butt-connectors, made from pure nickel

- **Material: nickel**
- **Temperature resistant to 500° C**
- **With buttmarks for precise able insertion**

Ni

Art. no.	CSS	d1	TL	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



PU Packing unit PE Price unit

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

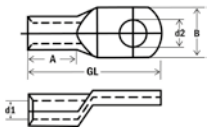
Best-seller Premium product

RoHS

Aluminium standard conduit terminals

- **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**

Al

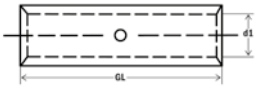


Art. no.	CSS	M	d2	d1	TL	A	kg/100	PU
294500	**16**	6	6,4	5,2	47,0	23,0	0,504	50
294502		8	8,4	5,2	47,0	23,0	0,490	50
294504		10	10,5	5,2	47,0	23,0	0,480	50
294506	**25**	6	8,4	6,4	58,0	23,0	0,740	50
294508		8	8,4	6,4	58,0	23,0	0,724	50
294510		10	10,5	6,4	58,0	23,0	0,700	50
294512	**35**	8	8,4	7,6	60,0	28,0	0,974	50
294514		10	10,5	7,6	60,0	28,0	0,940	50
294516	**50**	8	8,4	9,2	72,0	34,0	1,528	50
294518		10	10,5	9,2	72,0	34,0	1,498	50
294520		12	13	9,2	72,0	34,0	1,384	50
294522		16	17	9,2	72,0	34,0	1,260	50
294524	**70**	8	8,4	10,6	78,0	40,0	1,998	50
294526		10	10,5	10,6	78,0	40,0	1,940	50
294528		12	13	10,6	78,0	40,0	1,880	50
294530		16	17	10,6	78,0	40,0	1,830	50
294532	**95**	10	10,5	12,8	80,0	43,0	2,545	20
294534		12	13	12,8	80,0	43,0	2,440	20
294536		16	17	12,8	80,0	43,0	2,370	20
294538	**120**	8	8,4	14,3	97,0	52,0	3,630	20
294540		10	10,5	14,3	97,0	52,0	3,590	20
294542		12	13	14,3	97,0	52,0	3,545	20
294544		14	15	14,3	97,0	52,0	3,490	20
294546	**150**	8	8,4	16,2	106,0	55,0	4,830	20
294548		10	10,5	16,2	106,0	55,0	4,730	20
294550		12	13	16,2	106,0	55,0	4,625	20
294552		16	17	16,2	106,0	55,0	4,530	20
294554	**185**	8	8,4	17,8	110,0	60,0	5,720	20
294556		10	10,5	17,8	110,0	60,0	5,680	20
294558		12	13	17,8	110,0	60,0	5,495	20
294560		16	17	17,8	110,0	60,0	5,465	20
294562	**240**	8	8,4	20,2	110,0	64,0	9,870	20
294564		10	10,5	20,2	110,0	64,0	9,925	20
294566		12	13	20,2	110,0	64,0	9,810	20
294568		14	15	20,2	110,0	64,0	9,690	20
294570		16	17	20,2	110,0	64,0	9,570	20

Aluminium standard butt connector

- **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**

Al



Art. no.	CSS	d1	TL	kg/100	PU
294580	**16**	5,2	50	0,620	50
294582	**25**	6,4	58	0,834	50
294584	**35**	7,6	63	1,170	50
294586	**50**	9,2	76	1,828	50
294588	**70**	10,6	84	2,578	50
294590	**95**	12,8	96	3,315	20
294592	**120**	14,3	105	4,160	20
294594	**150**	16,2	120	5,760	20
294596	**185**	17,8	125	6,935	20
294598	**240**	20,2	136	11,180	20

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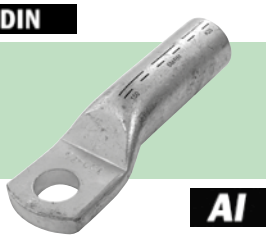
RoHS

Al compression cable lugs

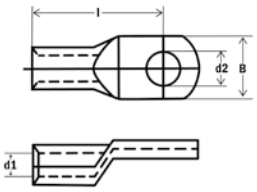
DIN

- **Material: E-Al 99.5% • Pipe measurements according to DIN 46329 • Surface: bare • Crimp marking**
- **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**



Al

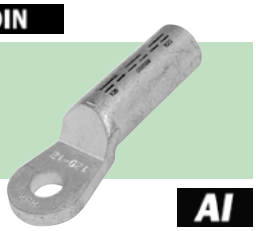
Art. no.	CSS rm/sm	se	M	Id.	d2	d1	v1	v2	l	B	kg/100	PU
292904 ✷	**16**	25	8	12	8,5	5,8	4	2	52,0	18,0	1,400	50
292906			10	12	10,5	5,8	4	2	52,0	18,0	1,400	50
292908 ✷	**25**	35	8	12	8,5	6,8	4	2	60,0	18,0	1,400	50
292910			10	12	10,5	6,8	4	2	60,0	18,0	1,400	50
292912 ✷	**35**	50	10	14	10,5	8,0	5	2	67,0	21,0	2,100	50
292914			12	14	13,0	8,0	5	2	67,0	21,0	2,000	50
292916 ✷	**50**	70	10	16	10,5	9,8	5	2	72,0	25,0	2,700	50
292918			12	16	13,0	9,8	5	2	72,0	25,0	2,700	50
292920 ✷	**70**	95	10	18	10,5	11,2	6	3	86,0	28,0	4,400	40
292922			12	18	13,0	11,2	6	3	86,0	28,0	4,200	40
292924	**95**	120	10	22	10,5	13,2	6	3	90,0	32,0	6,300	25
292926 ✷			12	22	13,0	13,2	6	3	90,0	32,0	6,400	30
292928			16	22	17,0	13,2	6	3	90,0	34,0	6,400	25
292930 ✷	**120**	150	12	22	13,0	14,7	6	3	91,0	32,0	6,700	25
292932			16	22	17,0	14,7	6	3	91,0	34,0	7,000	25
292934 ✷	**150**	185	12	25	13,0	16,3	6	3	103,0	35,0	9,400	20
292936			16	25	17,0	16,3	6	3	103,0	35,0	8,300	20
292938			20	25	21,0	16,3	6	3	103,0	41,0	9,100	20
292940 ✷	**185**	240	12	28	13,0	18,3	6	3	106,0	40,0	11,700	15
292942			16	28	17,0	18,3	6	3	106,0	40,0	11,600	15
292944			20	28	21,0	18,3	6	3	106,0	40,0	12,000	15
292946 ✷	**240**	300	12	32	13,0	21,0	8	3	116,0	45,0	16,900	10
292948			16	32	17,0	21,0	8	3	116,0	45,0	16,900	12
292950			20	32	21,0	21,0	8	3	116,0	45,0	16,200	10



Al compression cable lugs acc. to DIN 46329

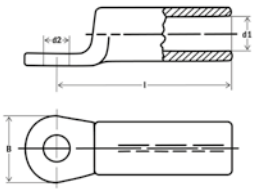
DIN

- **Extrusion moulded version • Material: E-Al 99.5%**
- **Pipe measurements according to DIN 46329 • Surface: bare • Crimp marking**
- **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**



Al

Art. no.	CSS rm/sm	se	M	Id.	d2	d1	v1	v2	l	B	kg/100	PU
292770	**35**	50	10	14	10,5	8,0	5	2	62,0	25,0	2,000	50
292772			12	14	13,0	8,0	5	2	62,0	25,0	2,000	50
292774	**50**	70	10	16	10,5	9,8	5	2	62,0	25,0	2,800	50
292776			12	16	13,0	9,8	5	2	62,0	25,0	2,600	50
292778 ✷	**70**	95	10	18	10,5	11,2	6	3	72,0	25,0	3,900	25
292780			12	18	13,0	11,2	6	3	72,0	25,0	3,500	25
292782 ✷	**95**	120	10	22	10,5	13,2	6	3	75,0	25,0	5,900	25
292784			12	22	13,0	13,2	6	3	75,0	25,0	5,600	25
292786 ✷	**120**	150	12	22	13,0	14,7	6	3	80,0	30,0	6,400	25
292788			16	22	17,0	14,7	6	3	80,0	30,0	6,600	25
292790 ✷	**150**	185	10	25	10,5	16,3	6	3	90,0	30,0	8,400	25
292792			12	25	13,0	16,3	6	3	90,0	30,0	8,300	25
292794			16	25	17,0	16,3	6	3	90,0	30,0	8,200	20
292796	**185**	240	10	28	10,5	18,3	6	3	91,0	30,0	10,400	20
292798 ✷			12	28	13,0	18,3	6	3	91,0	30,0	10,500	20
292800			16	28	17,0	18,3	6	3	91,0	30,0	12,000	20
292802 ✷	**240**	300	12	32	13,0	21,0	8	3	103,0	38,0	16,100	10
292804			16	32	17,0	21,0	8	3	103,0	38,0	15,900	10
292806			20	32	21,0	21,0	8	3	103,0	38,0	15,200	10
292808 ✷	**300**	-	12	34	13,0	23,3	8	3	103,0	38,0	17,200	10
292810			16	34	17,0	23,3	8	3	103,0	38,0	18,500	10
292812			20	34	21,0	23,3	8	3	103,0	38,0	17,300	10
292814	**400**	-	12	38	13,0	26,0	-	4	116,0	38,0	24,700	10
292816			16	38	17,0	26,0	-	4	116,0	38,0	23,000	10
292818			20	38	21,0	26,0	-	4	116,0	38,0	23,500	10
292820	**500**	-	12	44	13,0	29,0	-	4	122,0	44,0	43,600	6
292822			16	44	17,0	29,0	-	4	155,0	44,0	33,200	6
292824			20	44	21,0	29,0	-	4	122,0	44,0	43,000	6



PU Packing unit PE Price unit

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

✷ Best-seller PREMIUM Premium product

RoHS

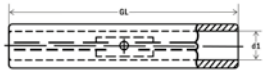
Al-Crimp connector DIN 46267 Part 2

DIN

- Material: E-Al 99.5%
- Pipe measurements according to DIN 46329 • Surface: bare • Crimp marking
- 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

Al

Art. no.	CSS rm/sm	se	d1	v1	v2	TL	ld./Al	kg/100	PU
293542	**25**	35	6,8	8	4	70	12	1,600	100
293544	**35**	50	8,0	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	20,0	16	6	145	32	21,200	15



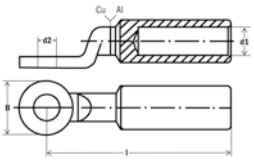
Al and Cu cable lugs, longitudinally sealed

DIN

- Material: E-Al 99.5% , E-Cu • Pipe measurements according to DIN 46329
- Surface: bare • Crimp marking
- 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

Al.Cu

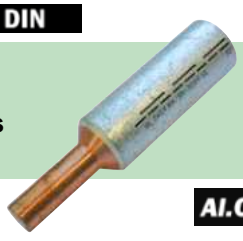
Art. no.	CSS rm/sm	se	M	ld.	d2	d1	v1	v2	l	B	kg/100	PU
293300 *	**25**	35	8	12	10,5	6,8	4	2	61,0	23,0	2,600	50
293302			10	12	10,5	6,8	4	2	61,0	23,0	2,500	50
293304			12	12	13,0	6,8	4	2	61,0	23,0	2,900	50
293306 *	**35**	50	10	14	10,5	8,0	5	2	71,0	23,0	3,200	50
293308			12	14	13,0	8,0	5	2	71,0	23,0	3,500	50
293310 *	**50**	70	10	16	10,5	9,8	5	2	72,0	25,0	3,400	50
293312			12	16	13,0	9,8	5	2	72,0	25,0	4,100	50
293314 *	**70**	95	10	18	10,5	11,2	6	3	82,0	26,0	6,100	50
293316			12	18	13,0	11,2	6	3	82,0	26,0	5,500	50
293318 *	**95**	120	12	22	13,0	13,2	6	3	85,0	30,0	8,200	25
293320			16	22	17,0	13,2	6	3	85,0	30,0	8,500	25
293321	**120**	150	10	22	10,5	14,7	6	3	87,0	25,0	8,500	25
293322 *			12	22	13,0	14,7	6	3	87,0	30,0	8,500	25
293324			16	22	17,0	14,7	6	3	87,0	30,0	8,700	25
293326 *	**150**	185	12	25	13,0	16,3	6	3	104,0	36,0	11,000	25
293328			16	25	17,0	16,3	6	3	104,0	36,0	11,200	25
293330 *	**185**	240	12	28	13,0	18,3	6	3	105,0	36,0	14,100	10
293332			16	28	17,0	18,3	6	3	105,0	36,0	14,300	10
293334 *	**240**	300	12	32	13,0	21,0	8	3	120,0	36,0	18,000	5
293336			16	32	17,0	21,0	8	3	120,0	36,0	29,000	5
293338 *	**300**	300	20	34	13,0	23,3	8	3	120,0	38,0	35,000	5



Al/Cu non-tension compession joints with Cu bolt

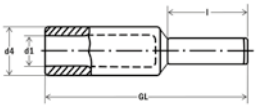
DIN

- Material: E-Al 99.5% , E-Cu • Pipe measurements according to DIN 46329
- Surface: bare • Crimp marking
- 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



Al.Cu

Art. no.	CSS rm/sm	se	d1	d4	TL	l	Øbo.	Ørope	ld./Al	kg/100	PU
293960	**25**	35	6,8	12,0	58	20,0	6	6,3	12	1,600	1
293962	**35**	35	8,0	14,0	71	22,0	7	7,5	14	2,800	1
293964	**50**	50	10,0	16,0	74	25,0	8	9,0	16	3,800	1
293966	**70**	70	11,5	18,5	87	30,0	10	10,0	18	5,400	1
293968	**95**	120	13,2	23,0	91	33,0	12	12,5	22	10,600	1
293970	**120**	150	15,0	23,0	97	38,0	12	14,0	22	9,000	1
293972	**150**	185	16,5	25,5	108	38,0	12	15,8	25	10,900	1
293974	**185**	240	18,5	28,5	116	44,0	14	17,5	28	15,700	1
293976	**240**	300	21,5	32,5	128	44,0	16	20,3	32	17,000	1
293978	**300**	-	23,5	34,5	131	46,0	18	22,5	34	23,200	1



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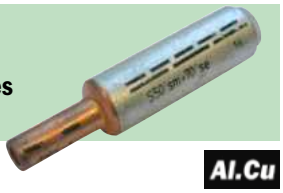
RoHS

Al-Cu reducing connectors

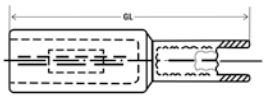
DIN

- **Material: E-Al 99.5% , E-Cu • Pipe measurements according to DIN 46329**
- **Surface: bare • Crimp marking**
- **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**



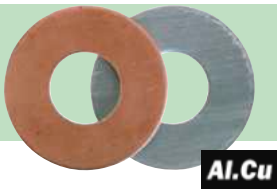
Al.Cu

Art. no.	CSS rm/sm	rm/sm CU	se	TL	Cu	Al	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	8,0	8	14	2,100	10
293584		**25**		71	7,0	8,0	10	14	2,500	10
293598	**50**	**25**	70	71,5	7,0	9,8	10	16	3,100	10
293600		**35**		71,5	8,2	9,8	12	16	3,300	10
293606	**70**	**25**	95	79	7,0	11,2	10	18	4,400	10
293608		**35**		79	8,2	11,2	12	18	5,500	10
293610		**50**		85	10,0	11,2	14	18	5,700	10
293622	**95**	**35**	120	79	8,2	13,2	12	22	6,000	5
293624		**50**		85	10,0	13,2	14	22	8,900	5
293626		**70**		87	11,5	13,2	16	22	8,200	5
293634	**120**	**50**	150	87	10,0	14,7	14	22	7,900	5
293636		**70**		89	11,5	14,7	16	22	9,500	5
293638		**95**		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**		107,5	15,5	16,3	20	25	14,200	5
293656		**150**		124,0	17,5	16,3	22	25	16,700	5
293664	**185**	**120**	240	108	15,5	18,3	20	28	16,930	5
293666		**150**		113	17,0	18,3	22	28	19,500	5
293678	**240**	**150**	300	124	17,0	21,0	22	32	23,300	5
293680		**185**		127	19,0	21,0	25	32	25,500	5
293688	**300**	**185**	400	128	18,5	19,0	25	34	32,700	5
293690		**240**		128	21,5	23,5	28	34	37,500	5



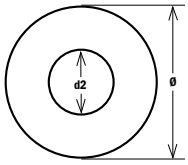
Cupal washer

- **Compound material made from aluminium and copper**
- **Galvanic isolation between Cu and Al**
- **Processing only in a dry environment**
- **Al-sided plated with Cu**



Al.Cu

Art. no.	M	s1	d2	Ø	kg/100	PU
293810	10	1,5	10,5	22	0,260	50
293812	12	2	13,0	28	0,440	50
293814	14	2	14,6	28	0,400	50
293816	16	2	16,5	35	0,660	50



PU Packing unit PE Price unit

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

Best-seller Premium product

Screw terminals

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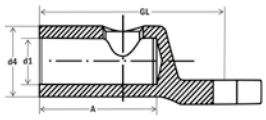
Screw terminals 10 - 30 KV

RoHS

AL screw terminals medium voltage 10-30 KV

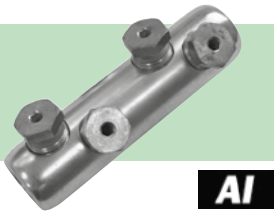
- **Material: AL 99,5%**
- **for tension relief connections of Al medium-voltage cables**
- **Tin-plated surface**

Art. no.	CSS	M	d1	d4	A	TL		kg/100	PU
293140	**16 - 95**	12	12,5	24,0	32,0	60	1	6,400	1
293142	**50 - 150**	12	15,5	30,0	35,0	79	1	13,900	1
293144		16	15,5	30,0	35,0	79	1	14,500	1
293146	**95 - 240**	12	20,0	33,0	56,0	95	2	23,700	1
293148		16	20,0	33,0	56,0	95	2	24,400	1
293150	**120 - 300**	12	25,0	38,0	67,0	100	2	33,300	1
293152		16	25,0	38,0	67,0	100	2	32,700	1
293154	**185 - 400**	12	26,0	42,0	82,0	115	3	48,000	1
293156		16	26,0	42,0	82,0	115	3	48,200	1

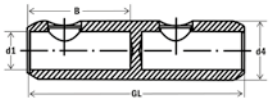


AL screw connectors medium voltage

- **Material: AL 99,5%**
- **Screws: Tin-galvanised brass**
- **Tin-plated surface**



Art. no.	CSS	d1	d4	TL		kg/100	PU
293130	**16 - 95**	12,5	24,0	70	2	9,800	1
293132	**50 - 150**	15,5	30,0	85	2	17,700	1
293134	**95 - 240**	20,0	33,0	120	4	33,500	1
293136	**120 - 300**	25,0	38,0	142	4	49,000	1
293138	**185 - 400**	26,0	42,0	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

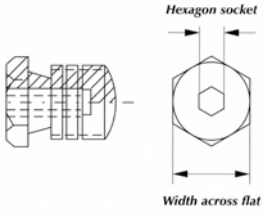
Advantages of the tear-off screw

- 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.



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.

Video

PU Packing unit PE Price unit

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

Best-seller 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.	Content	type	kg	PU
290380	380	standard	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.	Content	type	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.	Content	type	kg	PU
220385	380	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.	Content	type	kg	PU
220386	380	standard	4,300	1

PU Packing unit PE Price unit

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

Best-seller Premium product

RoHS

SysCon cable lugs DIN 46235

SysCon

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.	Content	type	kg	PU
220387	389	DIN	4,300	1

SysCon cable lugs standard

SysCon

Content: 389 cable lugs standard

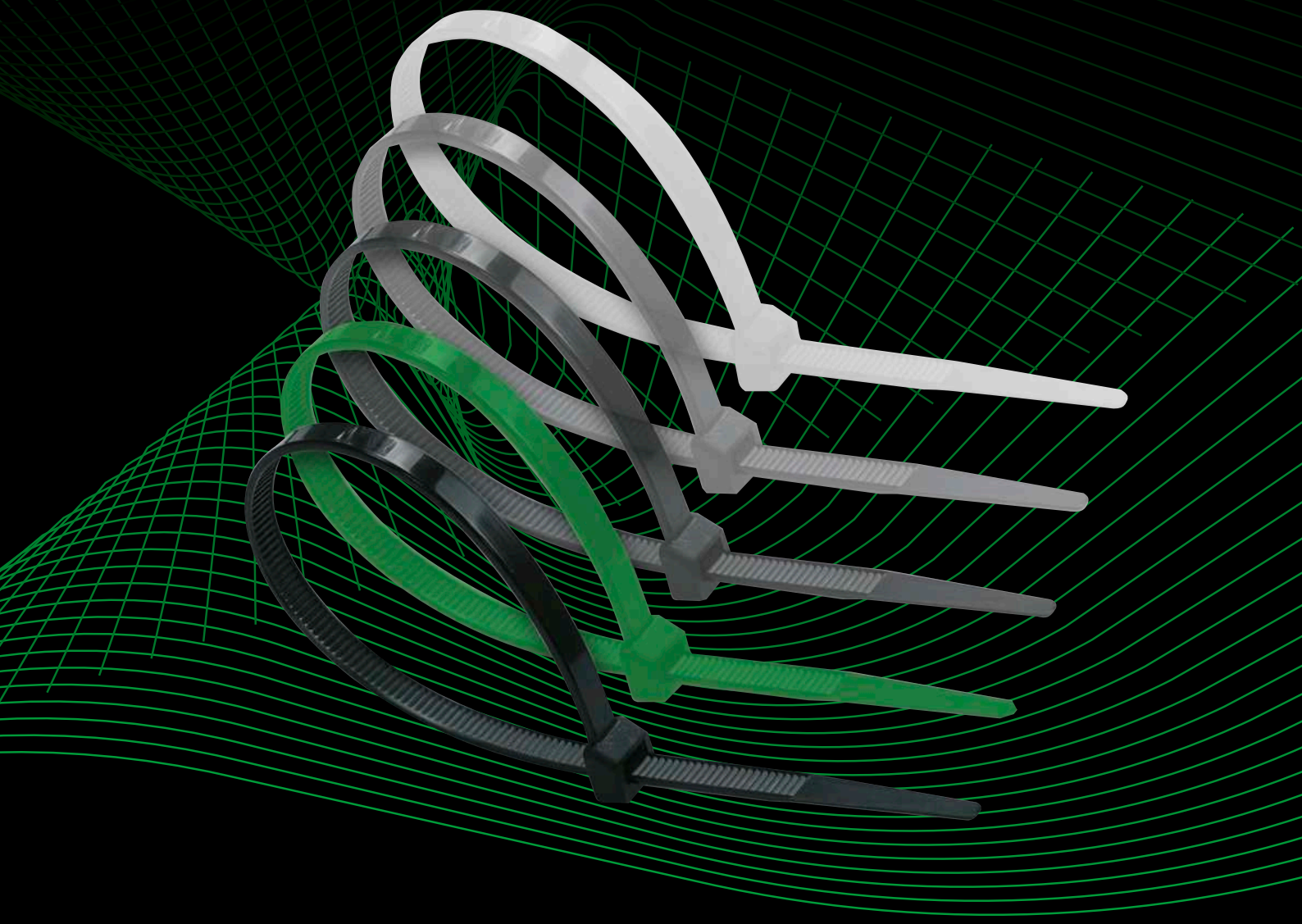
1	220370	ABS plastic box „SysCon S"
2	220376	Foam „SysCon" 400 x 300 x 15 mm

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.	Content	type	kg	PU
220388	389	standard	4,300	1

HUP
HUP

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.		TL	width			kg/100	PU	PE	
262500/1		75	2,4	15	8	0,035	100	100	30.000
262500		96	2,5	23	8	0,028	100	100	30.000
262502	✸	100	2,5	25	8	0,030	100	100	25.000
262504	✸	142	2,5	35	8	0,044	100	100	25.000
262506	✸	203	2,5	55	8	0,065	100	100	13.000
262508	✸	142	3,2	35	18	0,083	100	100	10.000
262509/1		203	3,6	53	18	0,100	100	100	10.000
262510/1		250	3,6	68	18	0,150	100	100	6.000
262510	✸	292	3,6	85	18	0,155	100	100	7.000
262512/1		120	4,8	27	22	0,080	100	100	10.000
262515		157	4,8	40	22	0,040	100	100	6.000
262512	✸	188	4,8	54	22	0,143	100	100	8.000
262516	✸	199	4,8	52	22	0,145	100	100	7.000
262518	✸	250	4,8	74	22	0,203	100	100	6.000
262511/1		290	4,8	81	22	0,210	100	100	5.000
262520	✸	302	4,8	84	22	0,220	100	100	5.000
262522	✸	371	4,8	102	22	0,274	100	100	4.000
262523		430	4,8	125	22	0,290	100	100	4.000
262528		200	7,6	54	55	0,300	100	100	2.000
262530		290	7,6	82	55	0,400	100	100	2.000
262532	✸	370	7,6	101	54	0,540	100	100	2.500
262534		450	7,6	130	55	0,800	50	100	1.000
262534/1		540	7,6	160	55	0,820	50	100	1.000
262536	✸	425	8,8	115	80	0,760	50	100	500
262537		523	8,8	150	80	0,105	50	100	500
262538		610	8,8	180	80	1,270	50	100	500
262535		774	8,8	220	80	1,050	50	100	600
262540		800	8,8	235	80	1,600	20	100	500
262542		920	8,8	278	80	0,860	50	100	500
262543		1219	9,0	374	80	1,100	20	100	500
262545		246	12,4	64	114	0,860	50	100	500
262546		550	12,7	166	114	1,770	50	100	500
262547		1030	12,7	312	114	3,200	20	100	500

PU Packing unit PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.
✸ Best-seller Premium product

RoHS

Cable ties

material: nylon - colour black, all other data and properties like No. 262500 - 46, weather- and UV-resistant

Art. no.		TL	width			kg/100	PU	PE	
262600/1		75	2,4	15	8	0,035	100	100	30.000
262600		96	2,5	23	8	0,040	100	100	30.000
262602	*	100	2,5	25	8	0,040	100	100	25.000
262604	*	142	2,5	35	8	0,040	100	100	20.000
262606	*	203	2,5	55	8	0,080	100	100	10.000
262608	*	142	3,2	35	18	0,080	100	100	10.000
262609/1		203	3,6	53	18	0,100	100	100	10.000
262610/1		250	3,6	68	18	0,150	100	100	6.000
262610	*	292	3,6	85	18	0,160	100	100	7.000
262611/1		372	3,6	106	18	0,170	1000	100	4.000
262616	*	203	4,6	52	22	0,150	100	100	6.000
262612/1		120	4,8	27	22	0,080	100	100	10.000
262615		157	4,8	40	22	0,100	100	100	6.000
262618	*	250	4,8	74	22	0,200	100	100	6.000
262620	*	302	4,8	84	22	0,240	100	100	5.000
262622	*	371	4,8	102	22	0,270	100	100	4.000
262623		430	4,8	125	22	0,290	100	100	4.000
262628		200	7,6	54	55	0,300	100	100	2.000
262630		290	7,6	82	55	0,400	100	100	2.000
262632	*	370	7,6	101	54	0,540	100	100	2.500
262634		450	7,6	130	55	0,800	50	100	1.000
262634/1		540	7,6	160	55	0,820	50	100	1.000
262636	*	425	8,8	115	80	0,880	50	100	500
262637		523	8,8	150	80	1,050	50	100	500
262638		610	8,8	180	80	1,280	50	100	500
262635		774	8,8	220	80	1,050	50	100	600
262640		800	8,8	235	80	1,600	20	100	500
262642		920	8,8	278	80	0,880	50	100	500
262643		1219	8,8	374	80	1,100	20	100	500
262645		246	12,4	64	114	0,860	50	100	500
262646		550	12,7	166	114	1,600	50	100	500
262647		1030	12,7	312	114	3,200	20	100	500

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.	TL	width			kg/100	PU	PE	
262100	100	2,5	23	8	0,031	100	100	25.000
262102	142	3,2	35	18	0,074	100	100	10.000
262101	203	3,6	55	18	0,131	100	100	10.000
262106	203	4,6	55	22	0,150	100	100	7.000
262108	310	4,8	89	22	0,228	100	100	5.000
262110	368	4,8	102	22	0,227	100	100	4.000
262114	380	7,6	110	55	0,560	50	100	2.000
262116	550	12,7	166	114	1,600	50	100	500

Cable ties

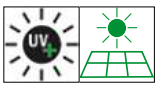
material: polyamide 6,6 - colour black, all other data and properties like No. 26 21 00 - 16, resistant to sea water, oil, grease, etc., not UV-resistant

Art. no.	TL	width			kg/100	PU	PE	
262120	100	2,5	25	8	0,003	100	100	25.000
262122	142	3,2	35	18	0,065	100	100	10.000
262124	203	3,6	55	18	0,116	100	100	10.000
262126	199	4,8	54	22	0,145	100	100	6.000
262128	302	4,8	84	22	0,248	100	100	5.000
262130	368	4,8	102	22	0,269	100	100	4.000
262132	290	7,6	82	55	0,397	100	100	2.000
262134	370	7,6	106	55	0,580	50	100	2.000
262136	618	12,4	181	114	1,600	50	100	500

Cable ties "UVplus"

PREMIUM

Long-term weather resistant, for industrial uses, black, UV resistant, material - polyamide, **7 year guarantee**



Art. no	TL	width			kg/100	PU	PE
262950	100	2,5	25	8	0,030	100	100
262952	202	2,5	50	8	0,070	100	100
262954	150	3,3	38	13	0,070	100	100
262956	201	3,6	52	13	0,150	100	100
262958	290	3,6	82	18	0,160	100	100
262960	199	4,8	50	22	0,150	100	100
262962	250	4,8	72	22	0,200	100	100
262964	290	4,8	83	22	0,220	100	100
262966	371	4,8	106	22	0,270	100	100
262968	290	7,6	82	54	0,410	100	100
262970	370	7,6	108	54	0,550	100	100
262972	542	7,6	162	54	0,750	100	100
262974	523	8,8	156	79	1,000	50	100
262976	709	8,8	213	79	1,000	50	100
262978	774	8,8	220	79	1,000	50	100
262980	920	8,8	279	79	1,000	50	100

Cable ties

material: nylon - colour transparent, all other data and properties like No. 262500 - 46, big packing unit 1000 pcs.

Art. no.	TL	width			kg/100	PU	PE
262501	96	2,5	23	8	0,028	1000	100
262503	100	2,5	25	8	0,026	1000	100
262505	142	2,5	35	8	0,031	1000	100
262507	203	2,5	55	8	0,065	1000	100
262509	142	3,2	35	18	0,070	1000	100
262511	290	3,6	82	18	0,158	1000	100
262513	188	4,8	54	22	0,140	1000	100
262517	199	4,8	54	22	0,140	1000	100

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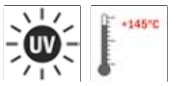
Heat-resistant cable ties

Material nylon 6/6, colour light green, UL94V-2, for high temperature applications between -40°C and +105°C

Art. no.	TL	width			kg/100	PU	PE
263000	100	2,5	21	8	0,030	100	100
263004	200	2,5	21	8	0,065	100	100
263006	120	3,6	37	18	0,039	100	100
263008	160	4,6	40	22	0,082	100	100
263010	199	4,6	40	22	0,134	100	100
263012	371	4,6	106	22	0,260	100	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.	TL	width			kg/100	PU	PE
263020	100	2,5	21	8	0,030	100	100
263022	161	2,5	21	8	0,045	100	100
263024	200	2,5	21	8	0,065	100	100
263026	199	4,6	54	22	0,130	100	100
263028	302	4,6	84	22	0,188	100	100
263030	370	7,6	106	54	0,494	100	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.	TL	width			kg/100	PU	PE
263100	199	4,6	54	22	0,131	100	100
263102	288	4,6	81	22	0,177	100	100
263104	302	4,6	84	22	0,251	100	100
263106	371	4,6	106	22	0,273	100	100
263108	290	7,5	82	54	0,249	100	100
263110	370	7,5	106	54	0,524	100	100
263112	774	8,7	220	79	0,102	100	100

HUPsecure cable ties

Material PP, colour: yellow, can be used as a seal /connector

Art. no.	TL	width		kg/100	PU	PE
263200	245	3,6	43	0,434	100	100
263204	295	3,6	60	0,491	100	100
263208	397	3,6	92	0,537	100	100

PU Packing unit PE Price unit

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

Best-seller Premium product

RoHS

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.	TL	width			kg/100	PU	PE
262140	150	7,6	33	22	0,201	100	100
262142	200	7,6	33	22	0,249	100	100
262144	300	7,6	80	22	0,349	100	100

Double-locking-cable ties

material: nylon - colour black, (262710 Nylon 12).

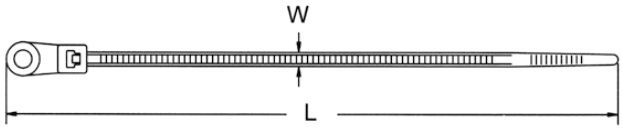
Benefits:
- Flat head geometry
- Exterior
- Smooth side is up against the insulation - no dents or damages
- Wide contact surface protects the cable loom from damages

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.	TL	width			kg/100	PU	PE
262700	180	9,0	45	55	0,319	100	100
262702	300	9,0	88	55	0,512	100	100
262704	360	9,0	100	55	0,629	100	100
262710	300	9,0	88	55	0,463	100	100

Cable ties with fixing eye

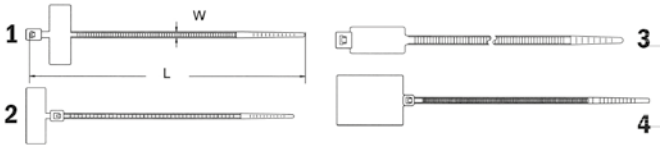
material: nylon, colour transparent, quick and simple to fix by hand or with tensioning tools, extremely resistant to sea water, oil, grease, etc., manufactured in accordance with UL and MIL specification requirements, - 40° C bis 85° C



Art. no.	TL	width	Ø			kg/100	PU	PE
262820	100	2,5	3,0	25	8	0,044	100	100
262822	170	3,7	4,8	40	18	0,100	100	100
262824	170	3,7	4,0	40	18	0,105	100	100
262826 *	205	4,2	4,6	60	22	0,133	100	100
262828 *	300	4,8	4,8	85	22	0,224	100	100
262830	300	7,8	6,0	80	55	0,443	100	100
262832	370	4,8	4,9	102	22	0,276	100	100
262834	398	7,9	6,1	122	55	0,595	100	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.			TL	width	label			kg/100	PU	PE
262840	*	1	100	2,5	25 x 8	25	8	0,049	100	100
262842	*	4	130	2,5	28 x 20	25	8	0,093	100	100
262844		2	110	2,5	25 x 8	25	8	0,058	100	100
262846		3	200	4,6	28 x 13	50	22	0,147	100	100
262848	*	1	200	2,5	30 x 15	50	8	0,128	100	100
262850		3	270	4,6	28 x 13	75	22	0,198	100	100

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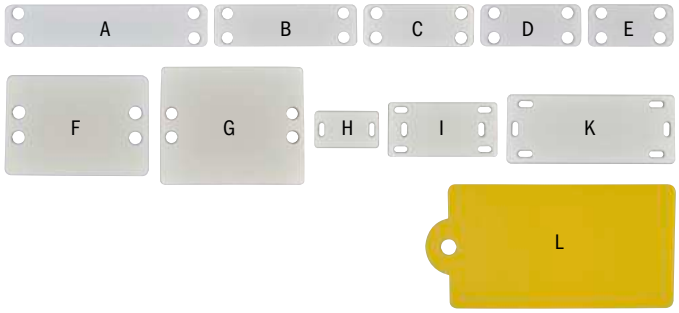
RoHS

Identification label for cable ties / marking cables

Material PE, for marking cables, pipes and lines, low weight, permanent labelling



Art. no.	TL	W	H	kg/100	PU	PE	
262179	26,0	15,0	1,2	0,048	100	100	H
262180	42,2	21,0	1,2	0,107	100	100	I
262181	60,8	25,0	1,2	0,201	100	100	K
262182	62,2	51,0	1,3	0,456	100	100	G
262183	38,5	19,0	0,4	0,036	100	100	E
262184	45,3	19,0	0,4	0,043	100	100	D
262185	50,5	19,1	0,4	0,053	100	100	C
262186	65,0	19,1	0,4	0,064	100	100	B
262187	63,8	44,8	0,4	0,167	100	100	F
262188	90,0	19,1	0,4	0,096	100	100	A
262189	160	80,0	0,6	1,106	100	100	L

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.	TL	W	H	kg/100	PU	PE	
262190	11,5	32,6	3,0	0,087	100	100	1
262191	19,1	43,5	4,6	0,257	100	100	2

PU Packing unit PE Price unit

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

Best-seller Premium product

RoHS

Self adhesive sockets

for cable ties and a quick and reliable fastening of line or cable bundles and other objects

Art. no.	TL			width	kg/100	PU	PE
262160 ✷	19	natural	3,6	19	0,078	100	100
262161	19	black	3,6	19	0,075	100	100
262162 ✷	28	natural	4,8	28	0,178	100	100
262163	28	black	4,8	28	0,190	100	100

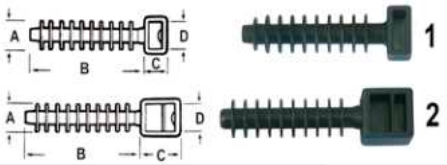
Screw type sockets

for cable ties and a quick and reliable fastening of large diam. Cable bundles and other objects, not UV-resistant

Art. no.	TL			width	kg/100	PU	PE
262164 ✷	1,5	natural	7,8	1	0,121	100	100
262165 ✷	1,5	black	7,8	1	0,136	100	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.	TL		width		C	D	PU	PE
262170 ✷	37	9	10	1	6,5	9,2	100	100
262172	37	9	10	2	13	9,2	100	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
262153	2,5-5	metal	0,330	1

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 ✷	2,5-5	plastic	0,240	1

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
262152 ✷	2,5-5	metal	0,334	1

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
262154	2,5-13	metal	0,365	1

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
262158 ✷	2,5-10	metal	0,303	1

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Spiral bindings

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

pieces

Art. no.	TL		width	kg/100	PU	PE
262750	125	black	12	0,220	20	100
262752	135	black	12	0,240	20	100
262754	180	black	12	0,300	20	100
262756	210	black	16	0,420	20	100
262758	310	black	16	0,560	20	100
262760	125	green	12	0,220	20	100
262762	135	green	12	0,230	20	100
262764	180	green	12	0,300	20	100
262766	210	green	16	0,430	20	100
262768	310	green	16	0,610	20	100

Hook-and-loop cable ties

coil

Art. no.	TL	width	kg/100	PU	PE
262780	10000	15	0,088	1	1
262782	10000	20	0,100	1	1

Cable ties, accessories

Polyethene spiral binding

natural, non-flame resistant

Art. no.	TL	Ø	>Ø	kg	PU
262060	30	1,5	10	0,141	1
262062 ✷	30	4	25	0,390	1
262064 ✷	30	9	32	0,780	1

Polyethene spiral binding

white, nearly flame resistant

Art. no.	TL	Ø	>Ø	kg	PU
262066	30	1,5	10	0,156	1
262068 ✷	30	4	25	0,497	1
262069	30	9	32	0,964	1

Polyethene spiral binding

white, nearly flame resistant

Art. no.	TL	Ø	>Ø	kg	PU
262030	2	8	18	0,156	1
262031	2	15	31	0,156	1
262032	2	20	43	0,156	1
262033	2	25	54	0,156	1

Polyethene spiral binding

black, nearly flame resistant

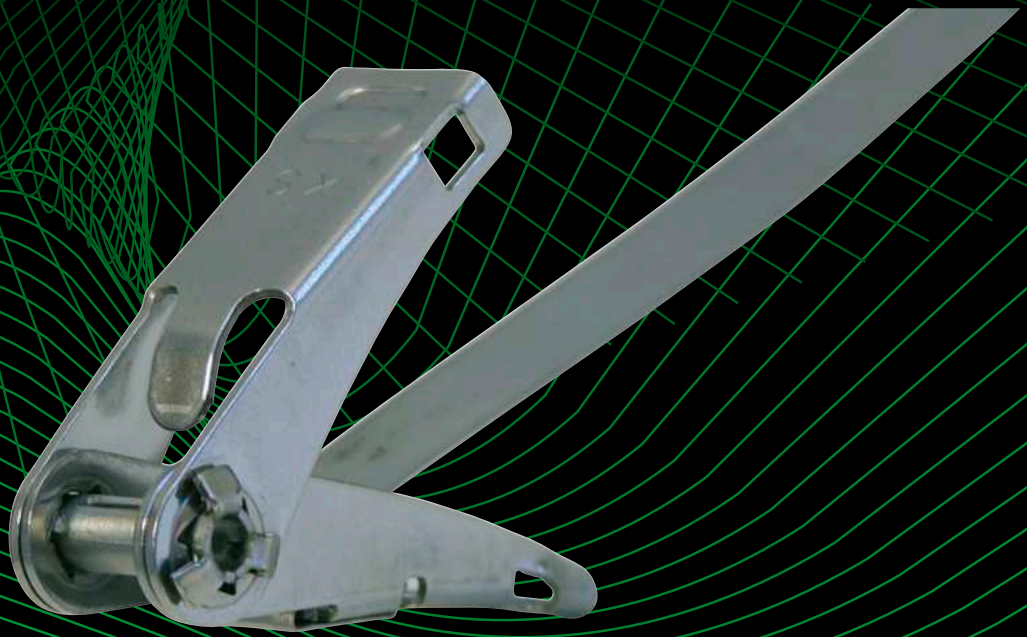
Art. no.	TL	Ø	>Ø	kg	PU
262034	2	8	18	0,156	1
262035	2	15	31	0,156	1
262036	2	20	43	0,156	1
262037	2	25	54	0,156	1

PU Packing unit PE Price unit

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

✷ Best-seller Premium product

Steel cable ties, accessories



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RoHS

Steel cable ties, SS 316 (V4A) with ball closure

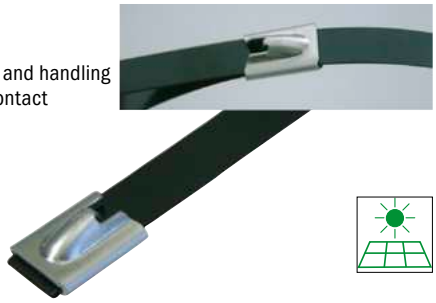
made from stainless steel 316 (DIN 1.4401), corrosion and radiation resistant, non-magnetic, extremely resistant to high temperatures (steel –80 °C to +538 °C) and aggressive chemicals, steel thickness 0.3 mm.
For use in machinery, vehicles, signalling, shipping and mining, in the food and chemical industries, in power plants, underground systems, on drilling platforms, wind-power generation plants and telecommunications, radio technology, stage construction, trade fair construction.

Art. no.		TL	width			kg/100	PU	PE
262940/125	✸	125	4,5	22	45	0,400	100	100
262940/152	✸	152	4,5	25	45	0,230	100	100
262940/200	✸	200	4,5	50	45	0,280	100	100
262940/250	✸	250	4,5	65	45	0,330	100	100
262940/300	✸	300	4,5	75	45	0,420	100	100
262940/360	✸	360	4,5	102	45	0,450	100	100
262940/520	✸	520	4,5	152	45	0,660	25	100
262950/152		152	8,0	25	113	0,480	100	100
262950/200		200	8,0	50	113	0,680	100	100
262950/300		300	8,0	75	113	0,750	100	100
262950/360		360	8,0	102	113	0,920	100	100
262950/520		520	8,0	152	113	1,280	25	100
262950/680		680	8,0	203	113	1,550	25	100
262950/840		840	8,0	254	113	1,840	25	100
262950/1050		1050	8,0	318	113	2,560	25	100
262960/290		290	12,0	80	272	1,500	100	100
262960/360		360	12,0	102	272	1,700	100	100
262960/520		520	12,0	152	272	2,800	25	100
262960/680		680	12,0	203	272	3,300	25	100
262960/840		840	12,0	254	272	4,500	25	100
262960/1000		1000	12,0	302	272	5,000	25	100
262960/1200		1200	12,0	351	272	5,500	25	100

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



Art. no.	TL	width			kg/100	PU	PE
262942/125	125	4,5	22	45	0,190	100	100
262942/152	152	4,5	25	45	0,230	100	100
262942/200	200	4,5	50	45	0,280	100	100
262942/250	250	4,5	60	45	0,330	100	100
262942/300	300	4,5	75	45	0,420	100	100
262942/360	360	4,5	102	45	0,450	100	100
262942/520	520	4,5	152	45	0,660	25	100
262952/152	152	8,0	25	113	0,480	100	100
262952/200	200	8,0	50	113	0,680	100	100
262952/300	300	8,0	75	113	0,750	100	100
262952/360	360	8,0	102	113	0,920	100	100
262952/520	520	8,0	152	113	1,280	25	100
262952/680	680	8,0	203	113	1,550	25	100
262952/840	840	8,0	254	113	1,840	25	100
262952/1050	1050	8,0	318	113	2,560	25	100
262962/290	290	12,0	80	272	1,500	100	100
262962/360	360	12,0	102	272	1,700	100	100
262962/520	520	12,0	152	272	2,800	25	100
262962/680	680	12,0	203	272	3,300	25	100
262962/840	840	12,0	254	272	4,500	25	100
262962/1000	1000	12,0	302	272	5,000	25	100
262962/1200	1200	12,0	351	272	5,500	25	100

Steel cable ties, SS 316 (V4A) with ratchet function

PREMIUM

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.	TL	width		kg/100	PU	PE
262970/1100	1100	10,0	330	5,500	10	100
262970/1315	1315	10,0	380	6,000	10	100

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.	width	material	kg	PU
262159	4.5 – 12.0	metal	0,560	1

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

✸ Best-seller PREMIUM Premium product

Nailing clips

haupa®

... convincing solutions

INFO

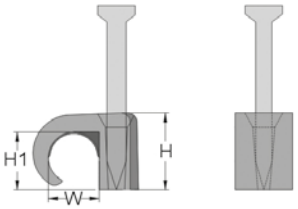
Nailing clips

Material: hammer-proof polyethylene (PE) halogen-free
Temperature resistant: – 40 °C to + 80 °C, and for short periods up to approximately 100 °C

RoHS

Nailing clips for round cable

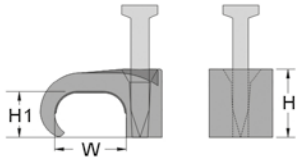
for attaching and fixing electrical cables, optimum claw shape for secure fixing of the cable, can be fixed to the cable, version with inserted galvanised nail, material: hammer-proof polyethylene (PE), halogen-free, temperature resistant: – 40 °C to + 80 °C, and for short periods up to approximately 100 °C.



Art. no.	colour	Ø	H	H1	W	NL	ND	kg/100	PU
262200	transparent	2-3	4,3	2,8	2,8	19	1,65	0,032	100
262202	transparent	3-5	5,6	3,7	2,9	15	2,0	0,038	100
262204	pure white	3-5	5,6	3,7	2,9	15	2,0	0,038	100
262206	black	5-7	8,0	6,0	5,3	20	2,0	0,100	100
262208	transparent	5-7	8,0	6,0	5,3	20	2,0	0,100	100
262209	light grey	5-7	8,0	6,0	5,3	35	2,0	0,100	100
262210 ✷	pure white	5-7	8,0	6,0	5,3	20	2,0	0,102	100
262212	black	7-10	9,5	7,1	6,8	25	2,0	0,093	100
262214	brown	7-10	9,5	7,1	6,8	25	2,0	0,092	100
262215	grey	7-10	9,5	7,1	6,8	35	2,0	0,092	100
262216	red	7-10	9,5	7,1	6,8	25	2,0	0,093	100
262218 ✷	pure white	7-10	9,5	7,1	6,8	25	2,0	0,092	100
262219	light grey	8 - 12	9,5	7,1	6,8	35	2,0	0,120	100
262220	black	10-14	13,0	10,3	9,4	35	2,0	0,166	100
262222 ✷	pure white	10-14	13,0	10,3	9,4	35	2,0	0,162	100
262223	light grey	10-14	13,0	10,3	9,4	44	2,0	0,162	100
262224	black	14-20	17,1	13,7	13,1	40	2,5	0,136	50
262226	pure white	14-20	17,1	13,7	13,1	40	2,5	0,138	50
262227	light-grey	14-20	17,1	13,7	13,1	44	2,5	0,138	50
262228	black	18-22	19,5	17,0	16,4	38	3,2	0,402	50
262230 ✷	pure white	18-22	19,5	17,0	16,4	38	3,2	0,396	50
262231	light grey	18 - 22	19,5	17	16,4	45	2,0	0,396	50
262232	black	22-26	21,0	19,5	24,0	38	3,2	0,464	50
262234	pure white	22-26	21,0	19,5	24,0	38	3,2	0,458	50
262235	light grey	22 - 26	21,0	19,5	24,0	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.	colour	Ø	H	H1	W	NL	ND	kg/100	PU
262236	transparent	2-4	4,0	2,0	4,0	15	2,0	0,032	100
262238	transparent	3-5	5,2	3,3	4,6	15	2,0	0,038	100
262240	transparent	4-6	5,9	3,8	5,8	15	2,0	0,047	100
262242	light grey	5-8	7,5	4,9	7,9	25	2,0	0,107	100
262243	pure white	5-8	7,5	4,9	7,9	25	2,0	0,103	100
262244	light grey	6-10	8,2	5,8	9,8	25	2,0	0,120	100
262245	pure white	6-10	8,2	5,8	9,8	25	2,0	0,120	100
262246	light grey	7-14	9,3	6,5	11,8	25	2,0	0,176	100
262247	pure white	7-14	9,3	6,5	11,8	25	2,0	0,174	100
262248	light grey	9-18	12,2	9,4	16,7	22	2,5	0,237	100
262249	pure white	9-18	12,2	9,4	16,7	22	2,5	0,236	100

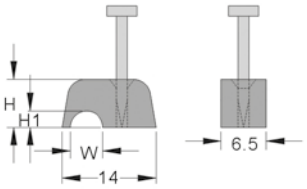
NL = nail length
N-Ø = nail diameter
H = height
H1 = height 1
W = width (opening)

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

✷ Best-seller Premium product

Nailing clips for round cable

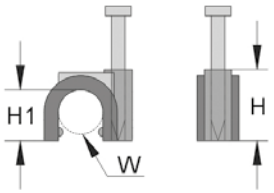
for attaching and fixing electrical cables, version with inserted galvanised nail, material: hammer-proof polyethylene (PE), halogen-free, temperature resistant: – 40 °C to + 80 °C, and for short periods up to approximately 100 °C.



Art. no.	colour	Ø	W	NL	ND	kg/100	PU
262254	light grey	4,1	4,1	15	2,0	0,083	100
262256	light grey	4,1	4,1	20	2,0	0,089	100
262258	light grey	7,0	7,0	20	2,0	0,103	100
262260	light grey	9,0	9,0	20	2,0	0,178	100
262262	light grey	13,2	13,2	20	2,0	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.	colour	Ø	H	H1	W	NL	ND	kg/100	PU
262264	light grey	2,75	4,5	2,6	2,75	20	2,0	0,083	100
262266	light grey	6,0	9,0	6,6	6,0	20	2,0	0,100	100
262268	light grey	8,0	12,9	9,0	8,0	25	2,0	0,131	100
262270	light grey	9,0	12,0	9,0	9,0	22	2,0	0,132	100
262272	light grey	10,0	13,8	10,4	9,3	25	2,0	0,145	100
262274	light grey	2,75	4,5	2,6	2,75	19	1,65	0,047	100
262276	light grey	3,5	5,9	3,7	3,5	15	2,0	0,060	100
262278	light grey	4,0	6,6	4,2	4,0	18	2,5	0,091	100
262280	light grey	5,0	7,6	5,0	5,0	18	2,5	0,100	100
262282	light grey	6,0	9,0	6,6	6,0	18	2,5	0,106	100
262284	light grey	6,0	10,5	6,9	6,0	20	2,5	0,119	100
262286	light grey	7,0	11,0	7,5	7,0	22	2,5	0,128	100
262288	light grey	8,0	12,9	8,15	8,0	22	2,5	0,136	100
262290	light grey	9,0	12,0	9,0	9,0	22	2,5	0,138	100
262292	light grey	9,5	13,8	10,4	9,3	25	2,5	0,156	100
262294	light grey	11,0	16,6	12,2	11,0	27	2,5	0,234	100
262296	light grey	12,0	16,0	12,3	12,0	27	2,5	0,223	100
262298	light grey	14,0	20,5	15,6	14,0	35	3,0	0,345	100
262300	light grey	16,0	21,7	17,0	16,5	38	3,2	0,472	100
262302	light grey	18,0	22,0	17,5	18,0	38	3,2	0,457	100
262304	light grey	20,0	23,5	18,5	20,0	38	3,2	0,254	50
262306	light grey	22,0	27,8	23,0	22,0	42	3,2	0,321	50
262308	light grey	25,0	30,4	25,0	25,0	47	3,2	0,433	50
262310	light grey	32,0	40,0	33,5	32,0	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

Cable glands polyamide IP68

INFO

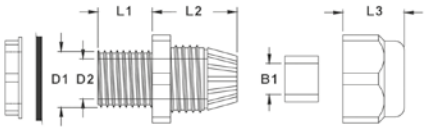
Cable glands polyamide IP68

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.
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

IP68



Art. no.	colour		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU	
250040	light-grey	**M12**	3 - 6,5	12,0	8,3	6,9	7,9	19,6	13,6	15	0,024	10	4.250
250042 ✸	light-grey	**M16**	5 - 10	16	10,9	9,6	15,5	23,4	16,9	22	0,024	10	1.700
250044 ✸	light-grey	**M20**	8 - 12	20,0	14,1	12,5	10,0	25,0	18,1	24	0,024	10	1.200
250046	light-grey	**M20**	10 - 14	20,0	15,0	14,8	10,0	28,5	18,5	27	0,024	10	1.190
250048	light-grey	**M20**	10 - 14	20,0	15,0	14,8	15,0	28,5	18,5	27	0,024	10	1.190
250050 ✸	light-grey	**M25**	13 - 18	25,0	18,6	18,4	15,2	29,4	22,3	33	0,024	10	680
250052	light-grey	**M32**	18 - 25	32,0	26,0	25,0	14,7	34,5	25,7	42	0,024	10	340
250054	light-grey	**M40**	22 - 32	40,0	33,7	33,1	18,4	41,7	31,3	54	0,024	5	230
250056	light-grey	**M50**	30 - 38	50,0	41,9	40,0	17,8	44,2	31,3	61	0,024	5	160
250058	light-grey	**M63**	34 - 44	61,0	55,0	43,2	18,5	44,6	32,7	66	0,024	5	120

Art. no.	colour		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU	
250080	black	**M12**	3 - 6,5	12,0	8,3	6,9	7,9	19,6	13,6	15	0,024	10	4.250
250082	black	**M16**	5 - 10	16	10,9	9,6	15,5	23,4	16,9	22	0,024	10	1.700
250084	black	**M20**	8 - 12	20,0	14,1	12,5	10,0	25,0	18,1	24	0,024	10	1.200
250086	black	**M20**	10 - 14	20,0	15,0	14,8	10,0	28,5	18,5	27	1,620	10	1.190
250088	black	**M20**	10 - 14	20,0	15,0	14,8	15,0	28,5	18,5	27	17,000	10	1.190
250090	black	**M25**	13 - 18	25,0	18,6	18,4	15,2	29,4	22,3	33	2,690	10	680
250092	black	**M32**	18 - 25	32,0	26,0	25,0	14,7	34,5	25,7	42	4,560	10	340
250094	black	**M40**	22 - 32	40,0	33,7	33,1	18,4	41,7	31,3	54	8,100	5	230
250096	black	**M50**	30 - 38	50,0	41,9	40,0	17,8	44,2	31,3	61	10,100	5	160
250098	black	**M63**	34 - 44	61,0	55,0	43,2	18,5	44,6	32,7	66	11,400	5	120

Art. no.	colour		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU	
250060	light-grey	**PG7**	3,5 - 6	12,5	8,3	6,9	7,9	20,0	13,3	15	0,024	10	4.250
250062 ✸	light-grey	**PG9**	4 - 8	15,2	10,5	8,0	7,9	22,0	15,1	19	0,024	10	2.980
250064 ✸	light-grey	**PG11**	5 - 10	18,3	13,2	10,5	7,9	23,7	18,3	22	0,024	10	2.040
250066 ✸	light-grey	**PG13,5**	6 - 12	20,4	15,5	12,0	8,9	24,6	18,9	24	0,024	10	1.530
250068 ✸	light-grey	**PG16**	10 - 14	22,5	17,2	14,0	9,8	26,2	19,5	27	0,024	10	1.190
250070	light-grey	**PG21**	13 - 18	28,3	22,4	18,4	10,8	30,0	23,7	33	0,024	10	680
250072	light-grey	**PG29**	18 - 25	37,0	30,6	25,0	10,8	35,0	27,4	42	0,024	10	380
250074	light-grey	**PG36**	22 - 32	47,0	35,3	35,5	14,5	42,3	30,3	53	0,024	5	200
250076	light-grey	**PG42**	30 - 38	54,0	40,0	40,0	14,5	44,0	31,2	60	0,024	5	140
250078	light-grey	**PG48**	34 - 44	59,3	43,2	46,0	15,6	42,7	31,3	65	0,024	5	130

Art. no.	colour		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	20,0	13,3	15	0,560	10	4.250
250102	black	**PG9**	4 - 8	15,2	10,5	8,0	7,9	22,0	15,1	19	7,500	10	2.980
250104	black	**PG11**	5 - 10	18,3	13,2	10,5	7,9	23,7	18,3	22	1,030	10	2.040
250106	black	**PG13,5**	6 - 12	20,4	15,5	12,0	8,9	24,6	18,9	24	1,400	10	1.530
250108	black	**PG16**	10 - 14	22,5	17,2	14,0	9,8	26,2	19,5	27	1,560	10	1.190
250110	black	**PG21**	13 - 18	28,3	22,4	18,4	10,8	30,0	23,7	33	2,480	10	680
250112	black	**PG29**	18 - 25	37,0	30,6	25,0	10,8	35,0	27,4	42	4,160	10	380
250114	black	**PG36**	22 - 32	47,0	35,3	35,5	14,5	42,3	30,3	53	8,240	5	200
250116	black	**PG42**	30 - 38	54,0	40,0	40,0	14,5	44,0	31,2	60	10,800	5	140
250118	black	**PG48**	34 - 44	59,3	43,2	46,0	15,6	42,7	31,3	65	11,600	5	130

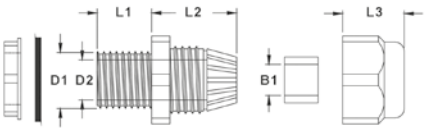
PU Packing unit PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Best-seller Premium product

SlimTop cable glands polyamide IP68

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, not mounted, easy to install, RoHS-compliant

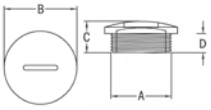


Art. no.	colour		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU	
250140	light-grey	**M12**	3 - 6,5	12,0	7,3	7,1	8,0	19,6	12,7	15	0,400	10	4.250
250142	light-grey	**M16**	5 - 10	16,0	10,7	10,4	8,0	23,3	16,1	20	0,800	10	1.700
250044*	light-grey	**M20**	8 - 12	20,0	14,1	12,5	10,0	25,0	18,1	24	0,024	10	1.200
250144	light-grey	**M25**	11 - 17	25,0	18,0	17,3	8,0	30,0	20,0	29	1,400	10	680
250146	light-grey	**M32**	15 - 21	32,0	25,7	21,6	10,0	35,4	24,1	36	2,900	10	340
250148	light-grey	**M40**	20 - 28	40,0	32,7	28,6	10,0	39,4	27,5	46	4,800	5	230
250150	light-grey	**M50**	27 - 35	50,0	42,4	35,8	12,0	43,4	31,8	55	8,300	5	160
250152	light-grey	**M63**	32 - 42	63,0	55,0	48,8	12,0	46,4	33,7	66	10,200	5	120

Art. no.	colour		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU	
250120	black	**M12**	3 - 6,5	12,0	7,3	7,1	8,0	19,6	12,7	15	0,400	10	4.250
250122	black	**M16**	5 - 10	16,0	10,7	10,4	8,0	23,3	16,1	20	0,800	10	1.700
250084	black	**M20**	8 - 12	20,0	14,1	12,5	10,0	25,0	18,1	24	0,024	10	1.200
250124	black	**M25**	11 - 17	25,0	18,0	17,3	8,0	30,0	20,0	29	1,400	10	680
250126	black	**M32**	15 - 21	32,0	25,7	21,6	10,0	35,4	24,1	36	2,900	10	340
250128	black	**M40**	20 - 28	40,0	32,7	28,6	10,0	39,4	27,5	46	4,800	5	230
250130	black	**M50**	27 - 35	50,0	42,4	35,8	12,0	43,4	31,8	55	8,300	5	160
250132	black	**M63**	32 - 42	63,0	55,0	48,8	12,0	46,4	33,7	66	10,200	5	120

Dummy plugs

Dummy plugs light-grey and black



Art. no.	colour		A	B	DD		kg/100	PU
250196	light-grey	**M12**	11,7	15,0	10,0	6,0	0,090	100
250198	light-grey	**M16**	15,7	20,0	10,5	6,0	0,150	100
250200	light-grey	**M20**	19,9	24,0	12,8	6,0	0,220	100
250202	light-grey	**M25**	24,7	29,7	12,8	7,8	0,350	100
250204	light-grey	**M32**	31,7	36,6	13,3	7,8	0,330	50
250206	light-grey	**M40**	39,9	45,8	13,4	7,8	0,420	50
250208	light-grey	**M50**	49,4	55,5	16,2	9,8	1,300	10
250210	light-grey	**M63**	62,4	69,3	17,5	11,8	1,800	10
250212	light-grey	**PG7**	12,2	14,8	10,0	6,0	0,090	100
250214	light-grey	**PG9**	15,1	18,7	10,4	6,0	0,140	100
250216	light-grey	**PG11**	18,5	21,7	10,4	6,0	0,140	100
250218	light-grey	**PG13,5**	20,3	23,7	10,3	6,0	0,210	100
250220	light-grey	**PG16**	22,3	27,0	10,3	6,0	0,290	100
250222	light-grey	**PG21**	28,2	32,8	12,8	7,8	0,480	100
250224	light-grey	**PG29**	37,0	44,1	13,2	7,8	0,400	50
250226	light-grey	**PG36**	47,0	52,6	13,7	7,8	0,500	50
250228	light-grey	**PG42**	54,0	59,5	16,2	9,6	1,300	10
250230	light-grey	**PG48**	59,6	64,2	17,5	11,8	1,800	10

Art. no.	colour		A	B	DD		kg/100	PU
250160	black	**M12**	11,7	15,0	10,0	6,0	0,090	100
250162	black	**M16**	15,7	20,0	10,5	6,0	0,150	100
250164	black	**M20**	19,9	24,0	10,5	6,0	0,220	100
250166	black	**M25**	24,7	29,7	12,8	7,8	0,350	100
250168	black	**M32**	31,7	36,6	13,3	7,8	0,330	50
250170	black	**M40**	39,9	45,8	13,4	7,8	0,420	50
250172	black	**M50**	49,4	55,5	16,2	9,8	1,300	10
250174	black	**M63**	62,4	69,3	17,5	11,8	1,800	10
250176	black	**PG7**	12,2	14,8	10,0	6,0	0,090	100
250178	black	**PG9**	15,1	18,7	10,4	6,0	0,140	100
250180	black	**PG11**	18,5	21,7	10,4	6,0	0,140	100
250182	black	**PG13,5**	20,3	23,7	10,3	6,0	0,210	100
250184	black	**PG16**	22,3	27,0	10,3	6,0	0,290	100
250186	black	**PG21**	28,2	32,8	12,8	7,8	0,480	100
250188	black	**PG29**	37,0	44,1	13,2	7,8	0,400	50
250190	black	**PG36**	47,0	52,6	13,7	7,8	0,500	50
250192	black	**PG42**	54,0	59,5	16,2	9,6	1,300	10
250194	black	**PG48**	59,6	64,2	17,5	11,8	1,800	10

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Cable glands brass nickel-plated, IP68

INFO

Cable glands polyamide IP68

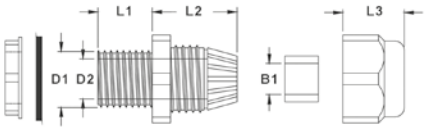
Properties:
integrated strain relief, fully mounted, RoHS-compliant.
HAUPA cable glands do protect electric equipment (switchboards, distribution boxes) against mechanical influences, dust, and humidity by connecting a cable tight and sealed to the housing.
HAUPA offers next to metric as well PG cable 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



Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250600	**M12**	3 - 6,5	12,0	8,4	6,8	6,2	17	10,9	14	0,024	10
250602 ✷	**M16**	4 - 8	16,0	12,0	8,6	7,7	18,0	12,9	18	0,024	10
250604 ✷	**M20**	6 - 12	20,0	16,0	11,9	8,1	20,0	13,9	22	0,030	10
250606 ✷	**M25**	10 - 14	25,0	20,5	14,5	8,5	20,2	14,0	24 - 27	0,043	10
250608 ✷	**M32**	15 - 22	32,0	27,0	21,5	10	24,5	18,0	35	0,085	10
250610	**M40**	18 - 25	40,0	35,5	25,5	11	27,0	19,0	40 - 45	0,140	5
250611	**M40**	22 - 30	40,0	35,0	30,5	11,0	28,0	20,5	45	0,140	5
250612	**M50**	32 - 38	50,0	44,0	39,0	13	32,0	23,0	55 - 57	0,260	5
250614	**M63**	37 - 44	63,0	55,5	44,5	14	34,0	22,0	64 - 68	0,380	5

Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250630	**PG7**	3 - 6,5	12,0	8,5	6,9	6,5	16,5	10,8	14	0,013	10
250632 ✷	**PG9**	4 - 8	14,8	11,8	8,5	8,1	18,9	12,7	17	0,019	10
250634 ✷	**PG11**	5 - 10	18,2	14,2	10,5	8	18,5	13,5	20 - 21	0,028	10
250636 ✷	**PG13,5**	6 - 12	20,1	16,2	12,1	7,7	20,5	13,9	23 - 22	0,033	10
250638 ✷	**PG16**	10 - 14	22,2	18,3	14,5	8,3	19,7	14,2	25 - 24	0,038	10
250640 ✷	**PG21**	13 - 18	28,2	23,8	18,2	8,8	23,3	16,5	30	0,060	10
250642 ✷	**PG29**	18 - 25	36,6	32,4	25,2	10,0	26,3	19,4	40	0,111	10
250644	**PG36**	25 - 33	46,0	41,5	33,2	11,0	32,0	22,0	50	0,190	5
250646	**PG42**	32 - 38	53,8	47,7	38,7	12,0	32,0	22,0	57	0,255	5
250648	**PG48**	37 - 44	59,0	52,6	44,5	12,6	33,9	22,8	64	0,345	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		

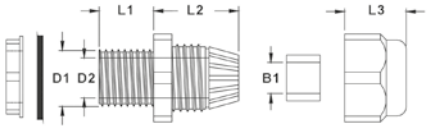
PU Packing unit PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✷ Best-seller Premium product

EMC-Cable glands brass nickel-plated, IP68, fully mounted

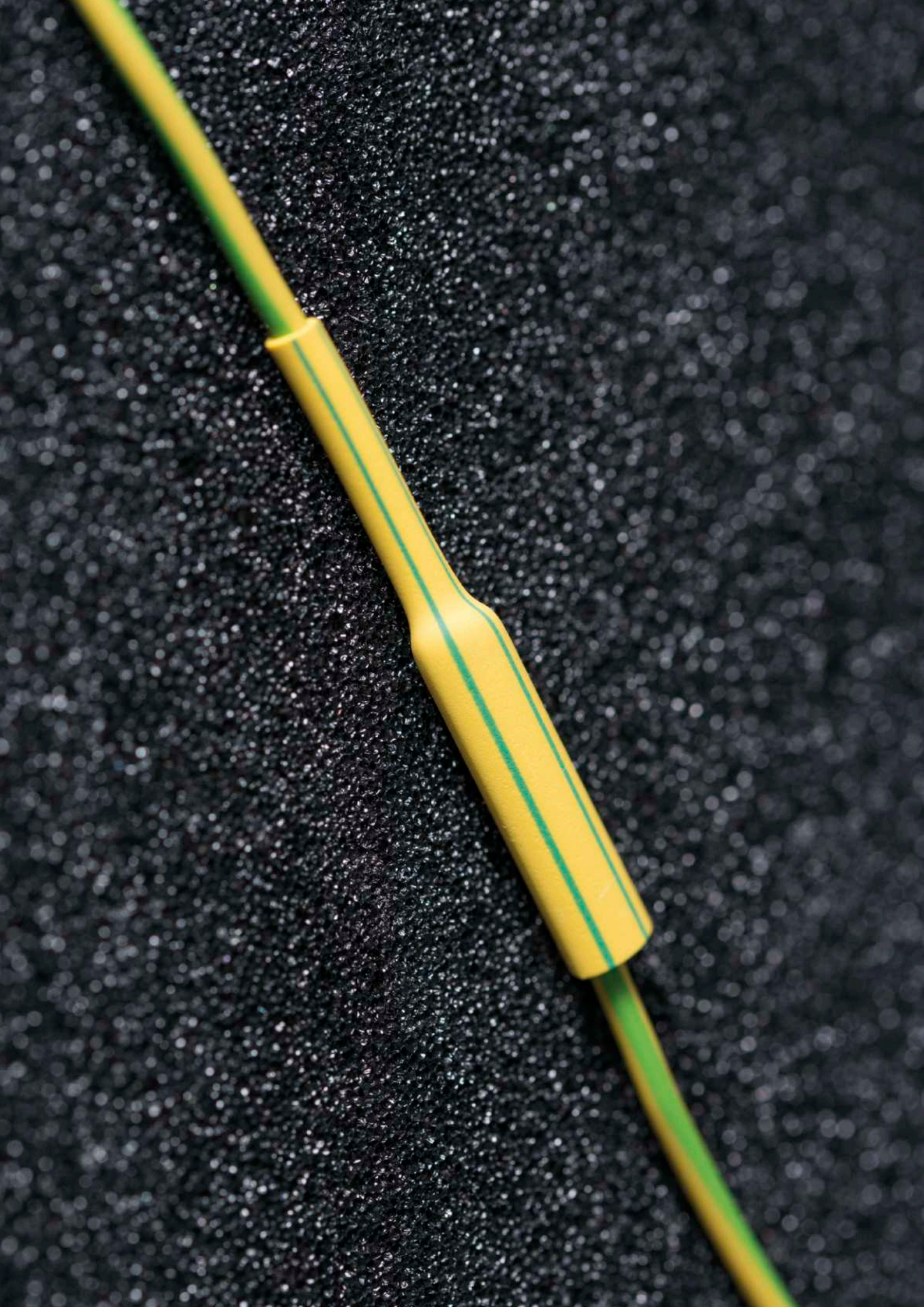
To ensure correct EMP installation, the brass cable screws with EMP inserts should be used.

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 - 6,5	12,0	8,4	6,8	6,2	17,0	10,9	14	0,013	10
250652	**M16**	4 - 8	16,0	12,0	8,6	7,7	18,0	12,9	18	0,024	10
250654	**M20**	6 - 12	20,0	16,0	11,9	8,1	20,0	13,9	22	0,030	10
250656	**M25**	10-14	25,0	20,5	14,5	8,5	20,2	14,0	24-27	0,043	10
250658	**M32**	15-22	32,0	27,0	21,5	10,0	24,5	18,0	35	0,085	10
250660	**M40**	18-25	40,0	35,5	25,5	11,0	27,0	19,0	40-45	0,140	5
250661	**M40**	22-30	40,0	35,0	30,5	11,0	28,0	20,5	45	0,140	5
250662	**M50**	32-38	50,0	44,0	39,0	13,0	32,0	23,0	55-57	0,260	5
250664	**M63**	37-44	63,0	55,5	44,5	14,0	34,0	22,0	64-68	0,380	5

Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250666	**PG7**	3-6,5	12,0	8,5	6,9	6,5	16,5	10,8	14	0,013	10
250668	**PG9**	4-8	14,8	11,8	8,5	8,1	18,9	12,7	17	0,019	10
250670	**PG11**	5-10	18,2	14,2	10,5	8,0	18,5	13,5	20-21	0,028	10
250672	**PG13,5**	6-12	20,1	16,2	12,1	7,7	20,5	13,9	23-22	0,033	10
250674	**PG16**	10-14	22,2	18,3	14,5	8,3	19,7	14,2	25-24	0,038	10
250676	**PG21**	13-18	28,2	23,8	18,2	8,8	23,3	16,5	30	0,060	10
250678	**PG29**	18-25	36,6	32,4	25,2	10,0	26,3	19,4	40	0,111	10
250680	**PG36**	25-33	46,0	41,5	33,2	11,0	32,0	22,0	50	0,190	5
250682	**PG42**	32-38	53,8	47,7	38,7	12,0	32,0	22,0	57	0,255	5
250684	**PG48**	37-44	59,0	52,6	44,5	12,6	33,9	22,8	64	0,345	5



Heat shrinkable tubes HUPshrink

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... 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.

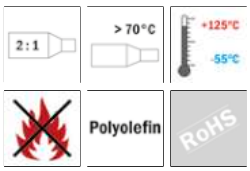
Shrink ratio:
The basic material (plastic) used and the thickness of the wall determine how much a shrinking tube can expand. The shrink ratio gives the size of the original heat shrink tube in relation to its shrunken, final form. (Original size to (:) Final size). The higher the shrink ratio, the greater 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 (Art. no. 262097 - see page 200).

Set HUPshrink21TW thin-walled 2:1

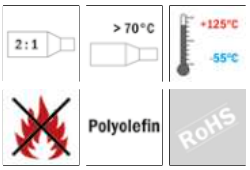
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C to 125° C, 160 pieces, in plastic box, thin-walled



Art. no.					kg	PU
267200 ✷	2:1	black		160-pieces	0,060	1

Set HUPshrink21TW thin-walled 2:1 coloured

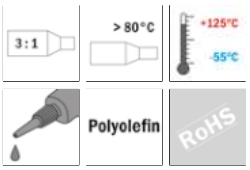
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C to 125° C, 160 pieces, in plastic box, thin-walled



Art. no.					kg	PU
267202 ✷	2:1	6 colours		160-pieces	0,060	1

Set HUPshrink31DW-A double-walled 3:1 with adhesive lining

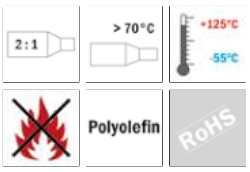
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 80° C, continuous operating temperature - 55° C to 125° C, 25 pieces, in plastic box, double-walled, with adhesive lining



Art. no.					kg	PU
267204 ✷	3:1	black		25-pieces	0,060	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



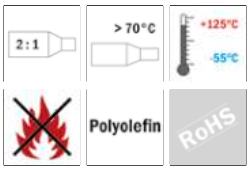
Art. no.					kg	PU
267206 ✷	2:1	4 colours		160-pieces	0,060	1

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

✷ Best-seller Premium product

HUPshrink21TW thin-walled 2:1

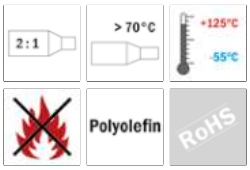
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C to 125° C, 50 pieces, 0.1 m long packaged in a polybag, thin-walled



Art. no.	m		Ø before	Ø after	kg	PU
267000	0,1	2:1	2,5	1,0	0,020	50
267002	0,1	2:1	3,5	1,5	0,035	50
267004	0,1	2:1	5,0	2,25	0,050	50
267006	0,1	2:1	6,5	3,0	0,067	50
267008	0,1	2:1	9,6	4,5	0,040	25
267010	0,1	2:1	12,7	6,0	0,022	10
267012	0,1	2:1	19,0	9,0	0,030	10
267014	0,1	2:1	26,0	12,5	0,050	10

HUPshrink21 thin-walled 2:1 blister package

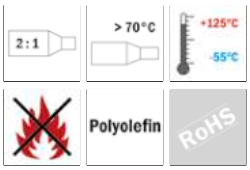
of polyolefin, radiation interlaced, self extinguished according to MV SS 302, thin and flexible, dielectric strength 15 - 25 KV/mm acc. to DIN 53481, operating temperature: - 55° C to 125° C, shrinking temperature: > 70°C, 1 m length in self-service-pack



Art. no.	m		Ø before	Ø after	kg	PU
262085	1	2:1	4,8	2,4	0,007	1
262086	1	2:1	6,4	3,2	0,010	1
262087	1	2:1	9,5	4,8	0,012	1
262088	1	2:1	12,7	6,4	0,017	1
262089	1	2:1	19,0	9,5	0,035	1
262090	1	2:1	25,4	12,7	0,045	1

HUPshrink21TW thin-walled 2:1 Box

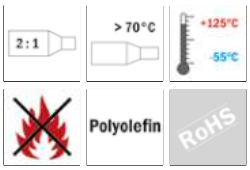
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C - 125° C, 5/10m roll in dispenser, thin-walled



Art. no.	m		Ø before	Ø after	kg	PU
267016	10	2:1	2,5	1,0	0,150	1
267018	10	2:1	3,5	1,5	0,160	1
267020	10	2:1	5,0	2,25	0,183	1
267022	5	2:1	6,5	3,0	0,111	1
267024	5	2:1	9,6	4,5	0,133	1
267026	5	2:1	12,7	6,0	0,210	1
267028	5	2:1	19,0	9,0	0,222	1
267030	5	2:1	26,0	12,5	0,350	1
267032	10	2:1	2,5	1,0	0,150	1
267034	10	2:1	3,5	1,5	0,160	1
267036	10	2:1	5,0	2,25	0,183	1
267038	5	2:1	6,5	3,0	0,111	1
267040	5	2:1	9,6	4,5	0,133	1
267042	5	2:1	12,7	6,0	0,210	1
267044	5	2:1	19,0	9,0	0,222	1
267046	5	2:1	26,0	12,5	0,350	1
267132	10	2:1	2,5	1,0	0,350	1
267134	10	2:1	3,5	1,5	0,350	1
267136	10	2:1	5,0	2,25	0,350	1
267138	5	2:1	6,5	3,0	0,350	1
267140	5	2:1	9,6	4,5	0,350	1
267142	5	2:1	12,7	6,0	0,350	1
267144	5	2:1	19,0	9,0	0,350	1
267146	5	2:1	26,0	12,5	0,350	1

HUPshrink21TW thin-walled 2:1

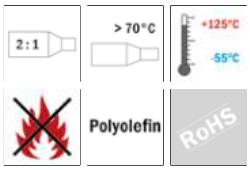
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C to 125° C, 25m roll packaged in a polybag, thin-walled



Art. no.	m		Ø before	Ø after	kg	PU
267250/200	200	2:1	1,2	0,6	1,120	1
267252/200	200	2:1	1,6	0,8	1,200	1
267254/200	200	2:1	2,4	1,2	1,500	1
267048	25	2:1	2,5	1,0	0,250	1
267256/200	200	2:1	3,2	1,6	1,780	1
267050	25	2:1	3,5	1,5	0,339	1
267258/100	100	2:1	4,8	2,4	1,050	1
267052	25	2:1	5,0	2,25	0,401	1
267260/50	50	2:1	6,4	3,2	0,700	1
267054	25	2:1	6,5	3,0	0,420	1
267262/50	50	2:1	9,5	4,8	0,970	1
267282/50	50	2:1	9,5	4,8	0,970	1
267056	25	2:1	9,6	4,5	0,445	1
267058	25	2:1	12,7	6,0	0,745	1
267264/100	100	2:1	12,7	6,4	2,350	1
267284/100	100	2:1	12,7	6,0	2,350	1
267060	25	2:1	19,0	9,0	0,876	1
267266/50	50	2:1	19,0	9,5	2,165	1
267062	25	2:1	26,0	12,5	1,320	1
267268/50	50	2:1	25,4	12,7	3,040	1
267410/25	25	2:1	38,1	19,0	1,375	1
267411/25	25	2:1	50,8	25,4	1,825	1
267412/25	25	2:1	76,0	38,0	2,750	1
267413/25	25	2:1	102,0	51,0	3,625	1
267480/100	100	**3:1**	12,7	4,0	1,500	1

HUPshrink21TW thin-walled 2:1

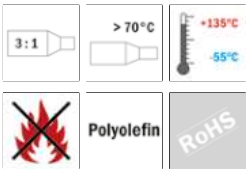
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 70° C, continuous operating temperature - 55° C to 125° C, packaged in a polybag, thin-walled



Art. no.	m		Ø before	Ø after		kg	PU
267250	1,2	2:1	1,2	0,6		0,006	1
267252	1,2	2:1	1,6	0,8		0,006	1
267254	1,2	2:1	2,5	1,0		0,008	1
267256	1,2	2:1	3,5	1,5		0,009	1
267258	1,2	2:1	5,0	2,25		0,011	1
267260	1,2	2:1	6,5	3,0		0,014	1
267262	1,2	2:1	9,6	4,5		0,019	1
267264	1,2	2:1	12,7	6,0		0,024	1
267266	1,2	2:1	19,0	9,0		0,043	1
267268	1,2	2:1	26,0	12,5		0,061	1
267272	1,2	2:1	1,6	0,8		0,006	1
267274	1,2	2:1	2,5	1,0		0,008	1
267276	1,2	2:1	3,5	1,5		0,009	1
267278	1,2	2:1	5,0	2,25		0,011	1
267280	1,2	2:1	6,5	3,0		0,014	1
267282	1,2	2:1	9,6	4,5		0,019	1
267284	1,2	2:1	12,7	6,0		0,024	1
267286	1,2	2:1	19,0	9,0		0,043	1
267288	1,2	2:1	26,0	12,5		0,061	1
267292	1,2	2:1	1,6	0,8		0,006	1
267294	1,2	2:1	2,5	1,0		0,008	1
267296	1,2	2:1	3,5	1,5		0,009	1
267298	1,2	2:1	5,0	2,25		0,011	1
267300	1,2	2:1	6,5	3,0		0,014	1
267302	1,2	2:1	9,6	4,5		0,019	1
267304	1,2	2:1	12,7	6,0		0,024	1
267306	1,2	2:1	19,0	9,0		0,043	1
267308	1,2	2:1	26,0	12,5		0,061	1
267312	1,2	2:1	1,6	0,8		0,006	1
267314	1,2	2:1	2,5	1,0		0,008	1
267316	1,2	2:1	3,5	1,5		0,009	1
267318	1,2	2:1	5,0	2,25		0,011	1
267320	1,2	2:1	6,5	3,0		0,014	1
267322	1,2	2:1	9,6	4,5		0,019	1
267324	1,2	2:1	12,7	6,0		0,024	1
267326	1,2	2:1	19,0	9,0		0,043	1
267328	1,2	2:1	26,0	12,5		0,061	1
267332	1,2	2:1	1,6	0,8		0,006	1
267334	1,2	2:1	2,5	1,0		0,008	1
267336	1,2	2:1	3,5	1,5		0,009	1
267338	1,2	2:1	5,0	2,25		0,011	1
267340	1,2	2:1	6,5	3,0		0,014	1
267342	1,2	2:1	9,6	4,5		0,019	1
267344	1,2	2:1	12,7	6,0		0,024	1
267346	1,2	2:1	19,0	9,0		0,043	1
267348	1,2	2:1	26,0	12,5		0,061	1
267352	1,2	2:1	1,6	0,8		0,006	1
267354	1,2	2:1	2,5	1,0		0,008	1
267356	1,2	2:1	3,5	1,5		0,009	1
267358	1,2	2:1	5,0	2,25		0,011	1
267360	1,2	2:1	6,5	3,0		0,014	1
267362	1,2	2:1	9,6	4,5		0,019	1
267364	1,2	2:1	12,7	6,0		0,024	1
267366	1,2	2:1	19,0	9,0		0,043	1
267368	1,2	2:1	26,0	12,5		0,061	1
267372	1,2	2:1	1,6	0,8		0,006	1
267374	1,2	2:1	2,5	1,0		0,008	1
267376	1,2	2:1	3,5	1,5		0,009	1
267378	1,2	2:1	5,0	2,25		0,011	1
267380	1,2	2:1	6,5	3,0		0,014	1
267382	1,2	2:1	9,6	4,5		0,019	1
267384	1,2	2:1	12,7	6,0		0,024	1
267386	1,2	2:1	19,0	9,0		0,043	1
267388	1,2	2:1	26,0	12,5		0,061	1
267392	1,2	2:1	1,6	0,8		0,007	1
267394	1,2	2:1	2,5	1,0		0,008	1
267396	1,2	2:1	3,5	1,5		0,008	1
267398	1,2	2:1	5,0	2,25		0,011	1
267400	1,2	2:1	6,5	3,0		0,014	1
267402	1,2	2:1	9,6	4,5		0,020	1
267404	1,2	2:1	12,7	6,0		0,024	1
267406	1,2	2:1	19,0	9,0		0,041	1
267408	1,2	2:1	26,0	12,5		0,058	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.	m		Ø before	Ø after		kg	PU
267430	1,2	3:1	3,0	1,0		0,009	1
267432	1,2	3:1	6,0	2,0		0,013	1
267434	1,2	3:1	9,0	3,0		0,020	1
267436	1,2	3:1	12,0	4,0		0,025	1
267438	1,2	3:1	18,0	6,0		0,039	1
267440	1,2	3:1	25,0	8,0		0,060	1
267442	1,2	3:1	3,0	1,0		0,008	1
267444	1,2	3:1	6,0	2,0		0,013	1
267446	1,2	3:1	9,0	3,0		0,019	1
267448	1,2	3:1	12,0	4,0		0,024	1
267450	1,2	3:1	18,0	6,0		0,041	1
267452	1,2	3:1	25,0	8,0		0,064	1

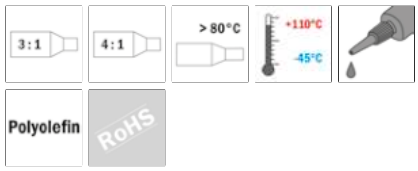
PU Packing unit PE Price unit

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

Best-seller Premium product

HUPshrink31MW-A | HUPshrink41MW-A medium-walled 3:1, 4:1 with adhesive lining

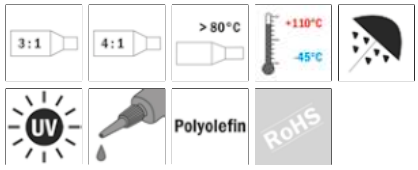
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 80° C, continuous operating temperature - 45° C to 110° C, 1.2m packaged in a polybag, medium-walled, with adhesive lining



Art. no.	m		Ø before	Ø after	kg	PU
267102	1,2	**4:1**	8,0	2,0	0,050	1
267104	1,2	**4:1**	12,0	3,0	0,061	1
267106	1,2	**4:1**	22,0	6,0	0,118	1
267108	1,2	**4:1**	33,0	8,0	0,180	1
267118	1,2	**4:1**	95,0	25,0	0,510	1
267110	1,2	**3:1**	40,0	12,0	0,210	1
267112	1,2	**3:1**	55,0	16,0	0,300	1
267114	1,2	**3:1**	65,0	19,0	0,380	1
267116	1,2	**3:1**	75,0	22,0	0,395	1
267120	1,2	**3:1**	115,0	34,0	0,830	1

HUPshrink31DW-A | HUPshrink41DW-A double-walled 3:1, 4:1 with adhesive lining

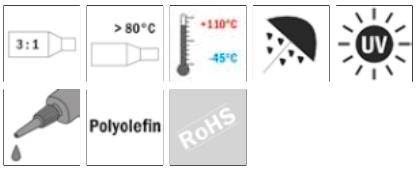
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 80° C, continuous operating temperature - 45° C to 110° C, 1.2m packaged in a polybag, double-walled, with adhesive lining



Art. no.	m		Ø before	Ø after	kg	PU
267064	1,2	3:1	3,2	1,0	0,025	1
267066	1,2	3:1	4,8	1,6	0,035	1
267068	1,2	3:1	6,4	2,0	0,040	1
267070	1,2	3:1	9,5	3,0	0,050	1
267074	1,2	3:1	12,7	4,0	0,060	1
267078	1,2	3:1	19,1	6,0	0,080	1
267080	1,2	3:1	24,5	8,0	0,100	1
267084	1,2	3:1	38,1	13,0	0,170	1
267088	1,2	**4:1**	52,0	13,0	0,290	1

HUPshrink31DW-A double-walled 3:1 with adhesive lining Box

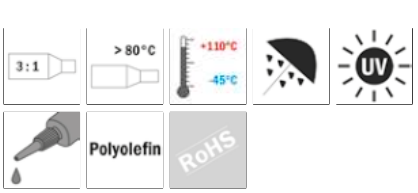
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 80° C, continuous operating temperature - 45° C - 110° C, 5/10m roll in dispenser, double-walled, with adhesive lining



Art. no.	m		Ø before	Ø after	kg	PU
267090	10	3:1	3,0	1,0	0,205	1
267092	5	3:1	6,0	2,0	0,215	1
267094	5	3:1	9,0	3,0	0,220	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

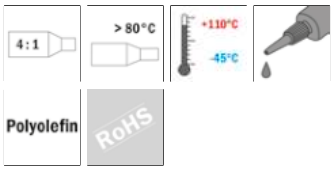


Art. no.	m		Ø before	Ø after	kg	PU
267096	5	3:1	12,0	4,0	0,320	1
267098	5	3:1	19,0	6,0	0,403	1
267100	5	3:1	24,0	8,0	0,570	1

Heat shrinkable tubes with adhesive lining

HUPshrink41DW-A double-walled 4:1 with adhesive lining

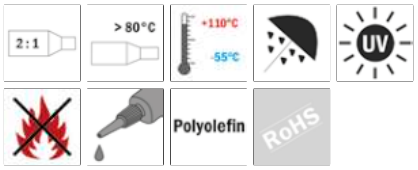
Radiation cross-linked polyolefin, self extinguishing according to MV SS 302, flexible, universally applicable, Dielectric strength: 15 - 25 KV/mm according to DIN 53481, shrinking temperature > 80° C, continuous operating temperature - 45° C to 110° C, 1.2m packaged in a polybag, double-walled, with adhesive lining



Art. no.	m		Ø before	Ø after	kg	PU
267460	1,2	4:1	4,0	1,0	0,013	1
267462	1,2	4:1	8,0	2,0	0,017	1
267464	1,2	4:1	12,0	3,0	0,030	1
267466	1,2	4:1	16,0	4,0	0,051	1
267468	1,2	4:1	24,0	6,0	0,103	1
267470	1,2	4:1	32,0	8,0	0,120	1
267472	1,2	4:1	52,0	13,0	0,183	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	PU
267500	4 - 10	15	2,6	0,003	100
267502	6 - 16	25	2,8	0,005	50
267506	18 - 32	40	3,3	0,018	25
267508	28 - 48	50	3,5	0,044	10
267510	45 - 68	55	4,0	0,064	10
267512	55 - 90	70	4,0	0,110	25
267514	65 - 110	70	4,0	0,143	20

Industrial hot air blower

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 bis 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

Industrial hot air blower for heat shrinkable tubes

Electronic hot air blower with continuous temperature control and two blower levels, characterised by low weight and slim design. This makes it ideal for long and fatigue-free working and for use in difficult to access areas. The temperature control is continous, and the air volume can be set to two different levels. For heat shrinkable tubes.

Technical data:
Length/Ø (at shock protection): 325 mm / 85 mm
Voltage: 230 V / 50 Hz (special voltages possible)
Power: 2000 W
Temperature: 100° - 600° C continuous control
Air volume: min. 300 l/min. / max. 500 l/min.

Art. no.	kg	PU
262097	0,773	1

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

Best-seller Premium product

Electrical insulating tape

haupa®

... convincing solutions

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.

Art. no.	widht/mm	length/m	strength		kg		PU
263800 ✷	15	10	0,15		0,035	120	10
263802 ✷	15	10	0,15		0,035	120	10
263804	15	10	0,15		0,035	120	10
263806	15	10	0,15		0,035	120	10
263808 ✷	15	10	0,15		0,035	120	10
263810 ✷	15	10	0,15		0,035	120	10
263812	15	10	0,15		0,035	120	10
263814	15	10	0,15		0,035	120	10
263816	15	10	0,15		0,035	120	10
263818 ✷	15	10	0,15		0,035	120	10

Art. no.	widht/mm	length/m	strength		kg		PU
263822	15	20	0,15		0,060	60	10
263824	15	20	0,15		0,060	60	10
263826	15	20	0,15		0,060	60	10
263828	15	20	0,15		0,060	60	10
263830	15	20	0,15		0,060	60	10
263832	15	20	0,15		0,060	60	10
263834	15	20	0,15		0,060	60	10
263836	15	20	0,15		0,060	60	10
263838	15	20	0,15		0,060	60	10
263840	15	20	0,15		0,060	60	10

Art. no.	widht/mm	length/m	strength		kg		PU
263842 ✷	19	20	0,15		0,076	48	8
263844 ✷	19	20	0,15		0,076	48	8
263846	19	20	0,15		0,076	48	8
263848	19	20	0,15		0,076	48	8
263850 ✷	19	20	0,15		0,076	48	8
263852 ✷	19	20	0,15		0,076	48	8
263854	19	20	0,15		0,076	48	8
263856	19	20	0,15		0,076	48	8
263858	19	20	0,15		0,076	48	8
263860 ✷	19	20	0,15		0,076	48	8

Art. no.	widht/mm	length/m	strength		kg		PU
263902	19	25	0,15		0,084	48	8
263904	19	25	0,15		0,084	48	8
263906	19	25	0,15		0,084	48	8
263908	19	25	0,15		0,084	48	8
263910	19	25	0,15		0,084	48	8
263912	19	25	0,15		0,084	48	8
263914	19	25	0,15		0,084	48	8
263916	19	25	0,15		0,084	48	8
263918	19	25	0,15		0,084	48	8
263920	19	25	0,15		0,084	48	8

Art. no.	widht/mm	length/m	strength		kg		PU
263862	25	20	0,15		0,100	36	6
263864	25	20	0,15		0,100	36	6
263866	25	20	0,15		0,100	36	6
263868	25	20	0,15		0,010	36	6
263870	25	20	0,15		0,100	36	6
263872	25	20	0,15		0,100	36	6
263874	25	20	0,15		0,100	36	6
263876	25	20	0,15		0,100	36	6
263878	25	20	0,15		0,100	36	6
263880	25	20	0,15		0,100	36	6

Art. no.	widht/mm	length/m	strength		kg		PU
263882	19	33	0,15		0,120	48	8
263884	19	33	0,15		0,120	48	6
263886	19	33	0,15		0,120	48	6
263888	19	33	0,15		0,120	48	6
263890	19	33	0,15		0,120	48	6
263892	19	33	0,15		0,120	48	6
263894	19	33	0,15		0,120	48	6
263896	19	33	0,15		0,120	48	6
263898	19	33	0,15		0,120	48	6
263900	19	33	0,15		0,120	48	6

Rainbow-Pack

- VDE tested
- DIN EN 60454-3-1
- Water, weather and UV resistant

Art. no.	widht/mm	length/m	strength			PU
263820	15	10	0,15		10-pieces	1
263861	19	20	0,15		10-pieces	1

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

✷ Best-seller Premium product

Electro insulating tape

Self-welding

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.	TL	widht/mm	strength	kg	PU
263930	20 m	19	0,215	0,105	1

Textile tape

Particularly strong adhesive, UV-resistant

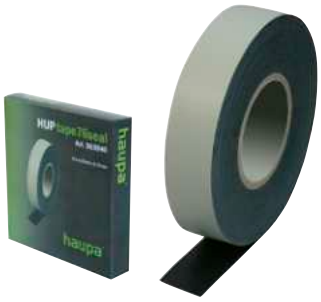
- 50 m

Art. no.	TL	widht/mm	colour	kg	PU
393016	50 m	50	grey	0,400	1

Self-welding

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.	TL	widht/mm	strength	kg	PU
263940	9 m	19	0,76	0,203	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®

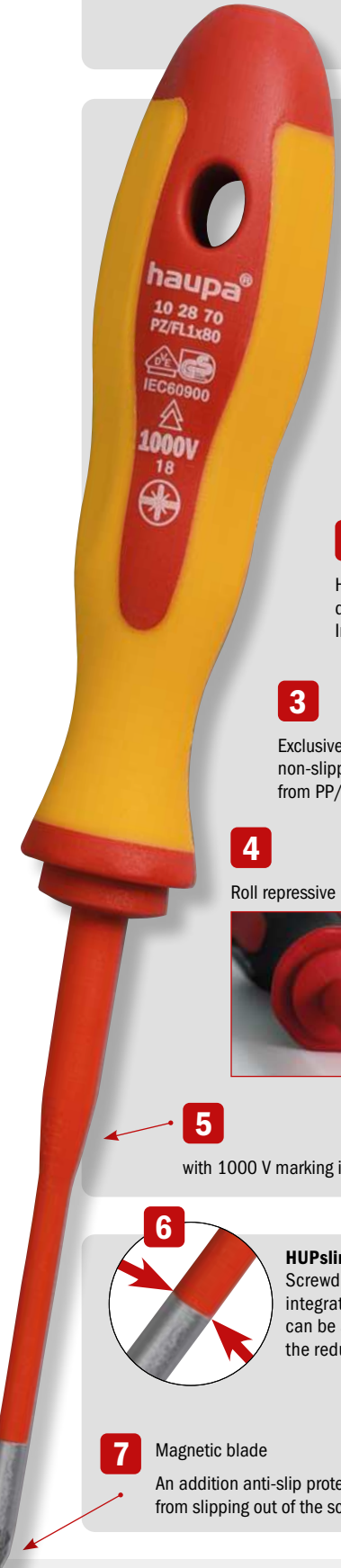
... convincing solutions

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.

reduced



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

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.

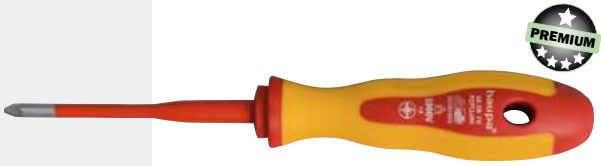
reduced

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.*

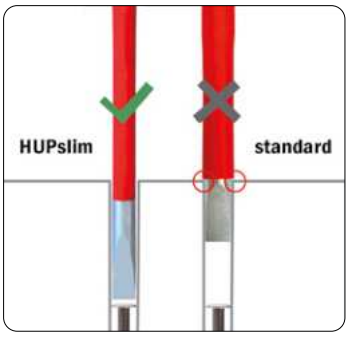
Screwdriver „HUPslim“ 1000 V with PZ slot profile

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

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.



1000 V IEC 60900

reduced

Art. no.	size	BL	TL	form	kg	PU
102870	**1**	80	205	PZ/FL	0,062	1
102872	**2**	100	270	PZ/FL	0,096	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

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.

Contents:
- 102870
- 102872

PREMIUM

1000 V IEC 60900

reduced

Art. no.	size	form	set	kg	PU
102879	**1 + 2**	PZ/FL	**2-pieces**	0,195	1

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

Best-seller Premium product

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	TL	kg	PU
102914	**3,5**	**0,6**	100	185	0,034	1
102916	**4**	**0,8**	100	195	0,049	1
102918	**5,5**	**1,0**	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	TL	kg	PU
102917	**4**	**1,0**	100	195	0,049	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	TL	form	kg	PU
102942	**1**	80	175	PH	0,061	1
102944	**2**	100	205	PH	0,095	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	TL	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, 6-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.

Contents:
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 or Pozidriv screwdrivers in sizes 1 and 2

Art. no.	form	set	kg	PU
102999	Phillips	**6-pieces**	0,414	1
102999/PZ	Pozidriv	**6-pieces**	0,416	1

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.

haupa®
...convincing solutions

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.

Contents:
- 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
- VDE/GS-Voltage testers 100 – 250 V, loose

1000 V IEC 60900

reduced

Art. no.	form	set	kg	PU
102980	Mix	**12-pieces**	0,874	1

reduced

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.

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

Best-seller Premium product

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

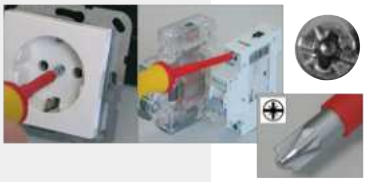
Magnetic blade

An addition anti-slip protection on Phillips profiles prevents the tool from slipping out of the screw. *Silver tip protects from corrosion.*

Screwdriver 1000 V with PZ slot profile

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	TL	form	kg	PU
101870	✷	**1**	80	205	PZ/FL	0,060	1
101872	✷	**2**	100	270	PZ/FL	0,094	1

Screwdriver set 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

Contents:
- 101870
- 101872

1000 V IEC 60900

Art. no.	size	form	set	kg	PU
101879	**1 + 2**	PZ/FL	**2-pieces**	0,200	1

Electricians' screwdrivers 1000 V 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. 101917

Art. no.		CW	KSt	BL	TL	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
101917		**4**	1,0	100	195	0,054	1
101918	✷	**5,5**	1,0	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

Cross slotted screwdrivers 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

1000 V IEC 60900

Art. no.	size	BL	TL	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 1000 V 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	TL	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 1000 V 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	TL	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 1000 V 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	TL	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.

Contents:
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 or Pozidriv size 1 and 2

1000 V IEC 60900

Art. no.	form	set	kg	PU
101999 ✸	Phillips	**6-pieces**	0,414	1
101999/PZ	Pozidriv	**6-pieces**	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.

Contents:
- 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
- VDE/GS-Voltage testers 100 – 250 V, loose

1000 V IEC 60900

Art. no.	form	set	kg	PU
101980	Mix	**15-pieces**	0,971	1

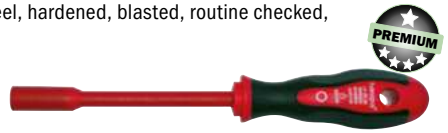
PU Packing unit PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Best-seller Premium product

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.	WS	BL	TL	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.

Contents: 1 piece each 5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm

1000 V IEC 60900

Art. no.	set	kg	PU
102512	**7-pieces**	1,065	1

„Vario“ 1000 V replaceable blade system

in robust nylon bag, **Contents:** 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	shank	set	kg	PU
102000-1	✸	**Phillips**	hexagonal	**10 pieces**	0,340	1
102000/PZ-1	✸	**Pozidriv**	hexagonal	**10 pieces**	0,334	1

„Vario“ nylon bag – empty

robust nylon bag, with hook and loop closure, colour: black

Art. no.	nylon bag	width	height	depth	kg	PU
102042-1	**empty**	250	135	30	0,100	1

Exchangeable „Vario“ 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.	TL	shank	kg	PU
102040	120	**hexagonal**	0,058	1

„Vario“ screw cap

Additional screw cap when using as precision tool (electronics)

Art. no.	TL	kg	PU
102044	10	0,002	1

„Vario“ 1000 V replaceable blade

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

„Vario“ replaceable blade – pozidrive blade/slotted

Art. no.	form	size	BL	TL	kg	PU
102010	**PZ/FL**	1	85	165	0,035	1
102012	**PZ/FL**	2	85	165	0,045	1

1000 V IEC 60900

„Vario“ replaceable blade – slotted blade

Art. no.	form	CW	KSt	BL	TL	kg	PU
102014	**SL**	2,5	0,4	85	165	0,013	1
102016	**SL**	3,0	0,5	85	165	0,015	1
102017	**SL**	3,5	0,6	85	165	0,080	1
102018	**SL**	4,0	0,8	85	165	0,022	1
102020	**SL**	5,5	1,0	85	165	0,034	1
102022	**SL**	6,5	1,2	85	165	0,045	1

1000 V IEC 60900

„Vario“ replaceable blade – Phillips blade

Art. no.	form	size	BL	TL	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

1000 V IEC 60900

„Vario“ replaceable blade – pozidrive blade

Art. no.	form	size	BL	TL	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

1000 V IEC 60900

„Vario“ replaceable blade – torx blade

Art. no.	form	size	BL	TL	kg	PU
102060	**S-TX**	8	85	165	0,016	1
102062	**S-TX**	9	85	165	0,016	1
102064	**S-TX**	10	85	165	0,016	1
102066	**S-TX**	15	85	165	0,021	1
102068	**S-TX**	20	85	165	0,021	1
102070	**S-TX**	25	85	165	0,034	1
102072	**S-TX**	30	85	165	0,041	1

1000 V IEC 60900

„Vario“ switch cabinet key – Square

Art. no.	size	TL	kg	PU
102030	6	47	0,010	1
102032	8	47	0,009	1

1000 V IEC 60900

„Vario“ switch cabinet key – Triangular

Art. no.	size	TL	kg	PU
102034	9	47	0,009	1

1000 V IEC 60900

„Vario“ switch cabinet key – Double-bit

Art. no.	size	TL	kg	PU
102036	5,3	47	0,009	1

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

✸ Best-seller Premium product

„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.

Contents:
- 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** (high leverage pliers offer power saving of up to 50%)

1000 V IEC 60900

Placeholders for torque handle

Art. no.		set	width	height	depth	kg	PU
102052		**30-pieces**	410	310	85	3,200	1

Tool case „ElectroCombo“

black plastic case with metal catch, complete tool set for electricians and network technicians, case: 490 x 375 x 100 mm

Contents:
- 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
- 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** (high leverage pliers offer power saving of up to 50%)

Art. no.		set	width	height	depth	kg	PU
104090	✷	**78-pieces**	490	375	100	6,000	1

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...convincing solutions

INFO

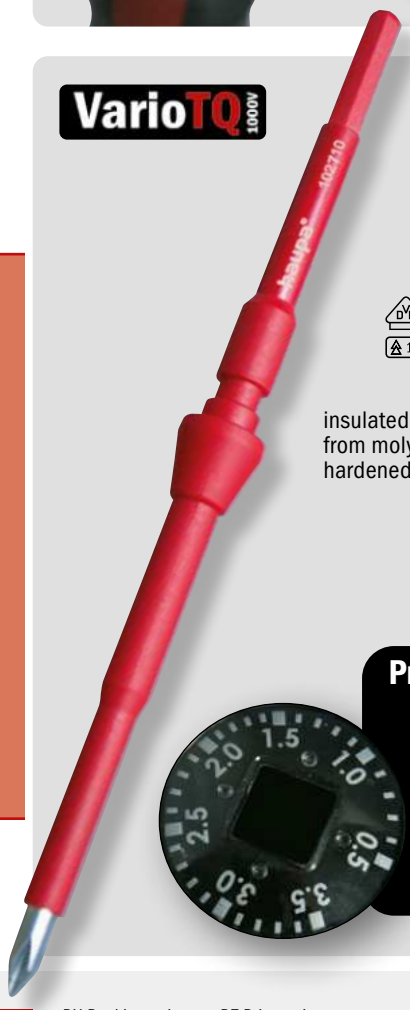
Dynamometric screwdriver with replaceable blades

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

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)

Contents:
- 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

1000 V IEC 60900

PREMIUM

TQ PH
TQ PZ

Art. no.	form	Nm	set	kg	PU
102700-1	PH	**1 - 6**	12 pieces	0,700	1
102701-1	PH	**0,5 - 3,5**	12 pieces	0,700	1
102700/PZ-1	PZ	**1 - 6**	12 pieces	0,700	1
102701/PZ-1	PZ	**0,5 - 3,5**	12 pieces	0,700	1

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

Best-seller Premium product

„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)

Contents:
- 2-component exchangeable handle (1000 V) 1 - 6 Nm or 0,5 - 3,5 Nm
- TX 8 - 9 - 10 - 15 - 20 - 25 - 30
  or TX 8 - 9 - 10 - 15 - 20, HEX 4 - 5
- PZ/FL 1
- PZ/FL 2
- Square socket key

1000 V IEC 60900

Art. no.	form	Nm	set	kg	PU
102702-1	TX	**1 - 6**	11-pieces	0,700	1
102703-1	TX	**0,5 - 3,5**	11-pieces	0,700	1
102706-1	TX+HEX	**1 - 6**	11-pieces	0,760	1
102707-1	TX+HEX	**0,5 - 3,5**	11-pieces	0,760	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)

Contents:
- 2-component exchangeable handle (1000 V) 1 - 6 Nm or 0,5 - 3,5 Nm
- HEX 2 - 3 - 3,5 - 4 - 4,5 - 5 - 5,5 mm
- PZ/FL 1
- PZ/FL 2
- Square socket key

1000 V IEC 60900

Art. no.	form	Nm	set	kg	PU
102704-1	HEX	**1 - 6**	11-pieces	0,700	1
102705-1	HEX	**0,5 - 3,5**	11-pieces	0,700	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**

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„VarioTQ“ 1000 V replaceable blade system

„VarioTQ“ 1000 V nylon bag – empty

robust nylon bag, with hook and loop closure, colour: black

Art. no.	nylon bag	width	height	depth	kg	PU
102785-1	**empty**	300	145	35	0,130	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

1000 V IEC 60900

Art. no.	TL	Nm	kg	PU
102790	122	**1 - 6**	0,185	1
102792	122	**0,5 - 3,5**	0,185	1

Square socket key

for adjustment of the torque for VarioTQ replacement blades

Art. no.	form	BL	KlBr	kg	PU
102784	SQ	40	8	0,056	1

Exchangeable „Vario“ 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.	TL	shank	kg	PU
102040	120	**hexagonal**	0,058	1

„VarioTQ“ 1000 V replaceable blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

1000 V IEC 60900

„VarioTQ“ 1000 V replaceable blade – pozidrive blade/slotted

Art. no.	form	size	BL	TL	kg	PU
102780	**PZ/FL**	1	195	195	0,040	1
102782	**PZ/FL**	2	195	195	0,040	1

1000 V IEC 60900

„VarioTQ“ 1000 V replaceable blade – slotted blade

Art. no.	form	CW	KSt	BL	TL	kg	PU
102710	**SL**	2,5	0,4	195	195	0,040	1
102712	**SL**	3,0	0,5	195	195	0,040	1
102714	**SL**	4,0	0,8	195	195	0,040	1
102716	**SL**	5,5	1,0	195	195	0,040	1
102718	**SL**	6,5	1,2	195	195	0,040	1

1000 V IEC 60900

„VarioTQ“ 1000 V replaceable blade – Phillips blade

Art. no.	form	size	BL	TL	kg	PU
102720	**PH**	0	195	195	0,040	1
102722	**PH**	1	195	195	0,040	1
102724	**PH**	2	195	195	0,040	1
102726	**PH**	3	195	195	0,040	1

1000 V IEC 60900

„VarioTQ“ 1000 V replaceable blade – pozidrive blade

Art. no.	form	size	BL	TL	kg	PU
102730	**PZ**	0	195	195	0,040	1
102732	**PZ**	1	195	195	0,040	1
102734	**PZ**	2	195	195	0,040	1
102736	**PZ**	3	195	195	0,040	1

1000 V IEC 60900

„VarioTQ“ 1000 V replaceable blade – torx blade

Art. no.	form	size	BL	TL	kg	PU
102740	**TX**	8	195	195	0,040	1
102742	**TX**	9	195	195	0,040	1
102744	**TX**	10	195	195	0,040	1
102746	**TX**	15	195	195	0,040	1
102748	**TX**	20	195	195	0,040	1
102750	**TX**	25	195	195	0,040	1
102752	**TX**	30	195	195	0,040	1

1000 V IEC 60900

„VarioTQ“ 1000 V replaceable blade – hex blade

Art. no.	form	size	BL	TL	kg	PU
102760	**HEX**	2	195	195	0,040	1
102762	**HEX**	3	195	195	0,040	1
102764	**HEX**	3,5	195	195	0,040	1
102766	**HEX**	4	195	195	0,040	1
102768	**HEX**	4,5	195	195	0,040	1
102770	**HEX**	5	195	195	0,040	1
102772	**HEX**	5,5	195	195	0,040	1

PU Packing unit PE Price unit

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

Best-seller 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.**

Art. no.		TL		kg	PU
211198		160	IEC 60900	0,000	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.**

Art. no.		TL		kg	PU
211199		140	IEC 60900	0,000	1
211204	✷	160	VDE	0,237	1
211206		180	VDE	0,296	1

Side cutting pliers with stripping function VDE

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.**)

Art. no.	TL		kg	PU
211203	160	VDE	0,296	1
211207	180	VDE	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.		TL		kg	PU
211214	✷	160	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.**

Art. no.		TL		kg	PU
211211		160	IEC 60900	0,000	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.**

Art. no.		TL		kg	PU
211219	✷	200	VDE	0,322	1

Long chain nose pliers DIN ISO 5745 VDE

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.		TL			kg	PU
211213		160	-	IEC 60900	0,000	1
211208	✷	200	-	VDE	0,255	1

Long chain nose pliers DIN ISO 5745 VDE, 45°

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.	TL			kg	PU
211209	160	45°	IEC 60900	0,000	1
211210	200	45°	VDE	0,260	1

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...convincing solutions

VDE pliers, sheathed handles 1000 V

Short flat nose pliers DIN ISO 5745 VDE

C 45, oil-hardened, chrome plated, short body, sheathed handles

Art. no.	TL		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.	TL		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.	TL		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

Replaces entire open wrench set!
Thanks to the parallel jaws, screw edges are not damaged!

360° View

Art. no.	TL	WS		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 8 mm = 16 mm² (25 mm²)

Ø 8 | Ø 12 | Cu AL

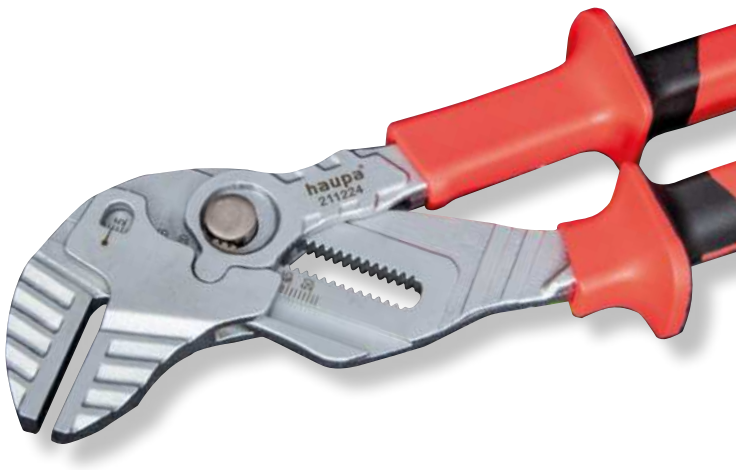
Art. no.		TL	Ø	mm²		kg	PU
211225	✸	160	8	16	VDE	0,215	1
211223		200	12	35	VDE	0,352	1

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

Ø 10 | Ø 15 | Cu AL

Art. no.		TL	Ø	mm²		kg	PU
211226		170	10	25	VDE	0,268	1
211228	✸	230	15	70	VDE	0,457	1



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

✸ Best-seller Premium product

VDE pliers, sheathed handles 1000 V

Pliers set 1000 V, sheathed handles

with VDE-safety-isolation, best quality, pliers chrome plated, 4-pieces.

Contents:
- Combination pliers 180 mm
- Side cutter 160 mm
- Long chain nose pliers 200 mm
- Wire stripping pliers 160 mm

1000 V IEC 60900

≤50%

Art. no.		set		kg	PU
220123	✷	**4-pieces**	VDE	1,063	1

Fully insulating 1000 V PVC flat nose pliers

all of plastic, specially for mounting and blocking of electricmeters

1000 V IEC 60900

Art. no.	TL	kg	PU
120051	190	0,109	1

Flat nose pliers 1000 V

all of plastic, specially for mounting and blocking of electricmeters

1000 V IEC 60900

Art. no.	TL	kg	PU
120052	160	0,084	1

- single wire
- multi-wire
- sector-shaped
- fine wire
- communication
- wire rope
- armoured steel cable (SWA)
- ACSR
- bolt
- solid steel
- solid Cu

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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 coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	TL	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 coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	TL	kg	PU
210100	160	0,253	1
210102	180	0,303	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 coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	TL	kg	PU
210110	240	0,489	1
210117	180	0,274	1
210119	200	0,368	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.	TL	kg	PU
210303	160	0,328	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.	TL		kg	PU
210388	200	straight	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.	TL		kg	PU
210390	200	45° angled nose	0,256	1

Short round nose pliers DIN ISO 5745 VDE

C 45, alloyed carbon steel, oil-hardened, chrome plated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	TL	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 coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	TL	kg	PU
210270	160	0,187	1

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.	TL	kg	PU
210648	160	0,232	1

PU Packing unit PE Price unit

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

Best-seller Premium product

VDE-pliers, 2-coloured coating-insulation 1000 V

Water pump pliers DIN ISO 8976 1000 V

heavy pattern, made of chrome vanadium steel, with roll, chrome plated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	TL	kg	PU
210588	260	0,590	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.	TL	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

Ø 10 | Ø 15 | Cu AL

Art. no.	TL	Ø	mm²	kg	PU
200086/VDE	205	10	25	0,274	1
200088/VDE	230	15	70	0,479	1

Pliers set 1000 V, 2-coloured coating-insulation

C 45, oil-hardened, 2-coloured coating-insulation - inside yellow/ outside red. Pliers chrome plated, 4-pieces.

Contents:
- 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-pieces**	1,000	1

Tool case „Real“ 1000 V

made of plastic, complete with 20 security tools.
Dimension: 450 x 340 x 100 mm.

Contents:
- 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 teste

1000 V IEC 60900

Art. no.	set	kg	PU
220148	**20-pieces**	4,300	1

- single wire
- multi-wire
- sector-shaped
- fine wire
- communication
- wire rope
- armoured steel cable (SWA)
- ACSR
- bolt
- solid steel
- solid Cu

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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.	TL	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.	TL	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.	TL		kg	PU
210266	160	straight	0,182	1
210267	200	straight	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.	TL		kg	PU
210297	200	45° angled nose	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.	TL	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.	TL	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.	TL	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.	TL	kg	PU
210265	160	0,180	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Cable cutter 1000 V

Grave version of vanadium steel, annealed, opening 15 mm, 2-coloured coatinginsulation - inside yellow/outside red

1000 V IEC 60900

Ø 15 | Cu AL

Art. no.	TL	Ø	mm²	kg	PU
200127	160	15	50	0,289	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

1000 V IEC 60900

Ø 15 | Cu AL

Art. no.	TL	Ø	mm²	kg	PU
200129	240	15	50	0,484	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)

1000 V IEC 60900

Ø 16,9 | Cu AL

Art. no.	TL	Ø	mm²	kg	PU
201002/VDE	180	16,9	70	0,247	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

1000 V IEC 60900

Ø 16,9 | Cu AL

Art. no.	TL	mm²	kg	PU
200201	160	**70**	0,083	1

Cable cutter 1000 V

of carbon-steel, maximum cutting capacity due to special cutting-geometry, with VDE insulation, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Ø 20 | Cu AL

Art. no.	TL	Ø	mm²	kg	PU
200120	215	20	70	0,403	1

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

1000 V IEC 60900

Ø 20 | Cu AL

Art. no.	TL	Ø	mm²	kg	PU
200128	200	20	50	0,382	1

- single wire
- wire rope
- multi-wire
- armoured steel cable (SWA)
- sector-shaped
- ACSR
- fine wire
- bolt
- communication
- solid steel
- solid Cu

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VDE ratchet cable cutter with cover 1000 V

One-hand cable cutter with ratchet, optimal lever-transmission, encapsulated head, for copper and alu-cable, opening 25 mm, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Ø 34 | Cu AL

Art. no.	TL	Ø	mm²	kg	PU
200109	290	34	240	1,308	1

Ratchet cable cutter 1000 V

Extremely durable special steel, single-handed operation, stepped cutting in gradation-free cut for copper and aluminium cable

1000 V IEC 60900

Ø 52 | Cu AL

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

1000 V IEC 60900

Ø 62 | Ø 80 | Cu AL | ≤50% | MAX

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

1000 V IEC 60900

Ø 27 | Cu AL | ≤50% | MAX

Art. no.	TL	Ø	mm²	kg	PU
200123	500	27	150	1,389	1

Cable cutters 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

1000 V IEC 60900

Ø 26 | Ø 33 | Cu AL

Art. no.	TL	Ø	mm²	kg	PU
200110	600	26	150	2,327	1
200141	700	33	185	3,292	1

PU Packing unit PE Price unit

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

Best-seller Premium product

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

1000 V IEC 60900

Ø 9 | Cu AL | ≤50% | MAX

Art. no.	TL	Ø	mm²	kg	PU
200081	700	9	16	2,880	1
200081/MK	Spare cutting head			0,350	1

Wire rope and cable cutter 1000 V

without transmission, blades of high quality special steel, forged, replaceable, opening 20 mm, insulated. Working range: steel-alu-rope up to 120 mm², copper- and alu-cable

1000 V IEC 60900

Ø 20 | Cu AL

Art. no.	TL	Ø	mm²	kg	PU
200130	600	20	120	2,348	1
200132	Spare cutting head			0,340	1

- single wire
- multi-wire
- sector-shaped
- fine wire
- communication
- wire rope
- armoured steel cable
- ACSR
- bolt
- solid steel
- solid Cu

Hacksaw frames 1000 V

Hacksaw frame 1000 V

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	TL	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.	TL	Sbl.	strength	kg	PU
110559	350	300	18 x 8	0,732	1

Cable sheath strippers 1000 V

Stripping pliers 1000 V

full insulated, for cutting and stripping off cable sheaths of PVC, PE and VPE, limited cutting deep and therefore no damage on the inside conductors, easy handling, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	TL	Ø	kg	PU
200149	200	26 - 52	0,739	1

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

Video 110561_67

Art. no.	Ø	kg	PU
110561	>25	0,250	1
110569	spare blades	0,040	1

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VDE cable knives 1000 V

Cable knife VDE

with a straight, strong blade, handles made from tough elastic, impact proof plastic, with transparent blade guard

Art. no.	BL	form	kg	PU
200000 ✸	50	straight	0,110	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

Art. no.	BL	form	kg	PU
200002 ✸	35	straight	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

Art. no.	BL	form	kg	PU
200003	35	sickle	0,074	1

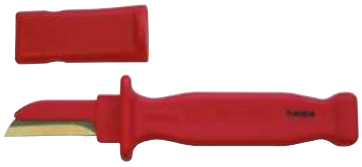
Cable knife VDE

with a curved blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Sector cable

Art. no.	BL	form	kg	PU
200004	35	hooked	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	form	kg	PU
200005	40	straight	0,106	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 transparent blade guard. **Application:** Wet-room cables, no damage to conductor insulation thanks to sliding block

Art. no.	BL	form	kg	PU
200007	50	sickle	0,120	1

Cable knife VDE

with a straight, partially-insulated, strong blade, handles made from tough elastic, impact proof plastic, replaceable blades, fixed blade guard. **Application:** To prevent short circuiting

Art. no.	BL	form	kg	PU
201010 ✸	50	straight	0,067	1

Replacement blades, 4-pcs.

suitable for article 201010

Art. no.	BL	form	kg	PU
201012	50	straight	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	form	kg	PU
200009	50	straight	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	form	kg	PU
200013	50	straight	0,094	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

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.	WS	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	0,380	1
110028	**14**	300	160	0,385	1
110030	**17**	300	160	0,534	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.	WS	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.	WS	TL	kg	PU
110081	**10**	200	0,118	1
110083	**12**	200	0,120	1
110084	**13**	200	0,140	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.	WS	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**	0,220	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.	WS	kg	PU
110060	**5**	0,222	1
110062	**6**	0,227	1
110064	**8**	0,224	1

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.	WS	TL	strength	kg	PU
110260	**6**	75	3	0,021	1
110262	**7**	80	3,5	0,020	1
110264	**8**	85	3,5	0,032	1
110266	**9**	100	4	0,035	1
110268	**10**	120	5	0,035	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	0,242	1
110286	**27**	290	11,5	0,338	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. **Contents:** 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-pieces**		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.	WS	TL	kg	PU
110300	**6**	140	0,061	1
110302	**7**	140	0,066	1
110304	**8**	150	0,084	1
110306	**9**	155	0,066	1
110308	**10**	160	0,092	1
110310	**11**	170	0,089	1
110312	**12**	180	0,130	1
110314	**13**	195	0,132	1
110316	**14**	205	0,147	1
110318	**17**	240	0,233	1
110320	**19**	260	0,236	1
110322	**22**	280	0,345	1
110324	**24**	280	0,357	1

Ratchet ring spanners 1000 V

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	WS	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.	WS max.	TL	kg	PU
110555	**26**	200	0,325	1
110556	**31**	250	0,512	1
110557	**36**	300	0,809	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Reversible ratchet 1000 V

full insulated, from shock-resistant plastic

Art. no.	drive	TL	kg	PU
220577	1/4"	150	0,145	1

Socket T-wrench 1000 V

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic

Art. no.	drive	TL	kg	PU
220578	1/4"	125	0,085	1

Extensions 1000 V

with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic

Art. no.	drive	TL	kg	PU
220579	1/4"	100	0,050	1
220580	1/4"	150	0,070	1

Hexagon sockets 1000 V

1/4" square drive, full insulated, from shock-resistant plastic

Art. no.	WS	drive	TL	kg	PU
220581	**5**	1/4"	40	0,011	1
220582	**6**	1/4"	40	0,011	1
220583	**7**	1/4"	40	0,012	1
220584	**8**	1/4"	40	0,013	1
220585	**9**	1/4"	40	0,014	1
220586	**10**	1/4"	40	0,014	1
220587	**11**	1/4"	40	0,017	1
220588	**12**	1/4"	40	0,018	1
220589	**13**	1/4"	40	0,021	1
220590	**14**	1/4"	40	0,023	1

Fittings for hexagon socket screws 1000 V

1/4" square drive, made of chrome vanadium steel, forged, oil hardened, full insulated, from shock-resistant plastic

Art. no.	WS	drive	TL	kg	PU
220591	**3**	1/4"	55	0,016	1
220592	**4**	1/4"	55	0,012	1
220593	**5**	1/4"	55	0,012	1
220594	**6**	1/4"	55	0,024	1

Tool case 1000 V

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.

Contents:

- 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

Video 220576

Art. no.		set	drive	kg	PU
220576	✷	**18-pieces**	1/4"	1,250	1

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Reversible ratchet 1000 V

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	drive	TL	kg	PU
110810	1/4"	135	0,122	1

Torque wrench 1000 V

reversible ratchet system, fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

TQ

Art. no.	drive	torque	TL	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

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	TL	kg	PU
110818	1/4"	115	0,156	1

Extensions 1000 V

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	TL	kg	PU
110814	1/4"	75	0,043	1
110816	1/4"	150	0,054	1

Extension with bit adapter 1000 V

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	bit adapter	drive	TL	kg	PU
110860	1/4"	1/4"	40	0,023	1

Hexagon sockets 1000 V

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	WS	drive	TL	kg	PU
110820	**5**	1/4"	25	0,012	1
110822	**6**	1/4"	25	0,012	1
110824	**7**	1/4"	25	0,014	1
110826	**8**	1/4"	25	0,011	1
110828	**9**	1/4"	25	0,016	1
110830	**10**	1/4"	25	0,014	1
110832	**11**	1/4"	25	0,020	1
110834	**12**	1/4"	25	0,021	1
110836	**13**	1/4"	25	0,021	1
110838	**14**	1/4"	25	0,034	1

Inserts for hexagon socket screws 1000 V

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	WS	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

Handles with bit adapter 1000 V

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	bit adapter	drive	TL	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

PU Packing unit PE Price unit

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

Best-seller Premium product

Tool case for household connections 1000 V

1/4"

Plastic case with foam insert, with 1/4“ insert tools.
Dimensions: 450 x 340 x 100 mm.

Contents:
- 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

1000 V IEC 60900

TQ

Art. no.	set	drive	kg	PU
110869	**21-pieces**	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.

Contents:
- 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-pieces**	1/4"	1,600	1

Reversible ratchet 1000 V

full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	drive	TL	kg	PU
220410	3/8"	200	0,300	1

Torque wrench 1000 V

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.

1000 V IEC 60900

360° | 220415

10-50 Nm TQ

1000 V 3/8"

Art. no.	drive	Nm	TL	kg	PU
220415	3/8"	10 - 50	385	0,950	1

Socket T-wrench 1000 V

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	TL	kg	PU
220412	3/8"	200	0,241	1

Extensions 1000 V

with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	drive	TL	kg	PU
220414	3/8"	125	0,150	1
220416	3/8"	250	0,250	1

Hexagon sockets 1000 V

3/8" square drive, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	WS	drive	TL	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" square drive, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	WS	drive	TL	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 1000 V

3/8" square drive, made of chrome vanadium steel, forged, oil hardened, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	WS	drive	TL	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

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.	WS	drive	TL	kg	PU
220434/122	**4**	3/8"	122	0,055	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

PU Packing unit PE Price unit

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

Best-seller Premium product

VDE-sockets 3/8“, XZN

3/8" square drive, made of chrome vanadium steel, forged, oil hardened, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	WS	drive	TL	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 1000 V

made of plastic, complete with 3/8" tools. The plastic material used for socket sets is guaranteed to pass -40°c impact tests. This guarantee that the insulation value will not be compromised due to impact. Dimension: 286 x 255 x 54 mm.

Contents:

- 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

PREMIUM

Art. no.		set	drive	kg	PU
220402	✸	**16-pieces**	3/8"	2,500	1

Reversible ratchet 1000 V

3/8"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	drive	TL	kg	PU
110331/EN	3/8"	190	0,402	1

Locked torque wrench 1000 V

TQ 3/8"

reversible ratchet system, fixed factory-provided value, possible value between 5-27 Nm, value must be indicate before delivery, full insulated, 2-coloured coating-insulation - inside yellow/outside red. **Torque must be specified when ordering!**

1000 V IEC 60900

TQ

Art. no.	drive	Nm	TL	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

1000 V IEC 60900

TQ

Art. no.	drive	Nm	TL	kg	PU
110055/EN	3/8"	5-25	200	0,350	1
110056/EN	3/8"	5-25	280	0,920	1
110065/EN	3/8"	5-50	370	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	TL	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	TL	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	TL	kg	PU
110861	1/4"	3/8"	125	0,137	1

Hexagon sockets 1000 V

3/8"

3/8" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	WS	drive	TL	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	0,036	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

PU Packing unit PE Price unit

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

Best-seller Premium product

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.	WS	drive	TL	kg	PU
110710	**10**	3/8"	125	0,180	1
110712	**12**	3/8"	125	0,200	1
110713	**13**	3/8"	125	0,210	1
110714	**14**	3/8"	125	0,220	1
110715	**17**	3/8"	125	0,240	1
110716	**19**	3/8"	125	0,260	1
110717	**22**	3/8"	125	0,280	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.	WS	drive	TL	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.

Contents:
- 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-pieces**	3/8"	3,400	1

Tool case 1000 V

made of plastic, complete with 3/8“ tools. Dimension: 400 x 290 x 110 mm.

Contents:
- 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-pieces**	3/8"	2,500	1

Tool case 1000 V

Plastic case with foam insert, with 3/8“ insert tools.
Dimensions: 400 x 290 x 110 mm.

Contents:
- 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

1000 V IEC 60900

Art. no.	set	drive	kg	PU
110873	**14-pieces**	3/8"	3,870	1

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Reversible ratchet 1000 V

1/2"

full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	drive	TL	kg	PU
220450	1/2"	250	0,550	1

Socket T-wrench 1000 V

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	TL	kg	PU
220452	1/2"	200	0,330	1

Extensions 1000 V

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	TL	kg	PU
220454	1/2"	125	0,208	1
220456	1/2"	250	0,411	1

Hexagon sockets 1000 V

1/2"

1/2" square drive, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	WS	drive	TL	kg	PU
220458	**10**	1/2"	55,0	0,055	1
220460	**11**	1/2"	55,0	0,055	1
220462	**12**	1/2"	55,0	0,058	1
220464	**13**	1/2"	55,0	0,058	1
220466	**14**	1/2"	55,0	0,061	1
220468	**17**	1/2"	55,0	0,069	1
220470	**19**	1/2"	57,0	0,072	1
220478	**22**	1/2"	57,0	0,087	1
220480	**24**	1/2"	57,0	0,095	1
220482	**27**	1/2"	57,0	0,125	1
220484	**32**	1/2"	57,0	0,170	1

Fittings for hexagon socket screws 1000 V

1/2"

1/2" square drive, made of chrome vanadium steel, forged, oil hardened, full insulated, from shock-resistant plastic

1000 V IEC 60900

Art. no.	WS	drive	TL	kg	PU
220486	**4**	1/2"	120,0	0,113	1
220488	**5**	1/2"	120,0	0,113	1
220490	**6**	1/2"	120,0	0,113	1
220492	**8**	1/2"	120,0	0,115	1
220494	**10**	1/2"	120,0	0,134	1

Tool case 1000 V

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.

Contents:

- 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-pieces**	1/2"	4,000	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

SysCon „VDE-Socket“ 1/2“

SysCon

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.

Contents:
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	empty	drive	kg	PU
220612	✸	**20-pieces**	220370	1/2"	7,200	1

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Reversible ratchet 1000 V

1/2"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900

Art. no.	drive	TL	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!**

1000 V IEC 60900

TQ

Art. no.	drive	Nm	TL	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

1000 V IEC 60900

TQ

Art. no.	drive	Nm	TL	kg	PU
110058/EN	1/2"	2-27	280	1,034	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.	WS	BL	handle	kg	PU
110040/EN	**12,5**	200	160	0,457	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	TL	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	TL	kg	PU
110862	1/4"	1/2"	250	0,165	1

Hexagon sockets 1000 V

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.	WS	drive	TL	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.	WS	drive	TL	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

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.	WS	drive	TL	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
110362/125	**32**	1/2"	125	0,410	1

PU Packing unit PE Price unit

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

Best-seller Premium product

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.	WS	drive	TL	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	0,550	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.	WS	drive	TL	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.

Contents:

- 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-pieces**	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.

Contents:

- 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-pieces**	1/2"	5,000	1

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Alignment tool, 3/8“ 1000 V

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 mm²	0,068	1
110705	185 - 240 mm²	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	0,142	1

Counter holder 1000 V

for the easier handling of screwed connections when assembling coupling sleeves, variably adjustable

1000 V IEC 60900

Art. no.	TL	mm	kg	PU
120101	240	0 - 15	0,280	1
120103	220	15 - 40	0,380	1
120104	300	25 - 50	0,610	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	TL	width	kg	PU
120102	plastic	22,5	4,5	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	TL	width	kg	PU
120100	plastic	20	2,5	0,085	1

Plastic wedges 1000 V

dimension: 16.3 x 3.7 mm

Art. no.	size	material	type	kg	PU
120094	1	plastic	without	0,051	1

Cleaning brushes Safety Line

PVC-pattern

1000 V IEC 60900

Art. no.	TL	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.	TL	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.	TL	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.	TL	kg	PU
120002 ✸	105	0,046	1

Insulated tweezers VDE 1000 V

austenitic steel, pointed, PVC-insulated

1000 V IEC 60900

Art. no.	TL	form	kg	PU
211060	130	**pointed**	0,029	1

1000 V IEC 60900

Art. no.	TL	form	kg	PU
211064	145	**wide round, flat,**	0,042	1

1000 V IEC 60900

Art. no.	TL	form	kg	PU
211062	150	**pointed round, bent,**	0,031	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

1000 V Tool Cases

Tool cases 1000 V can be found from page 371 on.

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Voltage testers

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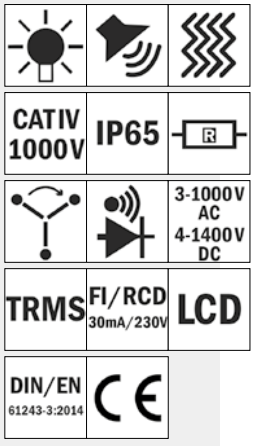
Voltage tester “Profi LCDplus II”

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	0,264	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	0,280	1

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

Best-seller Premium product

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
Accessories (optional):	Carry bag
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

LED | CAT III 400V | IP65 | 6-400V AC/DC | CE

Art. no.	TMA	TL	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 and carry bag
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

CAT III 600V | LCD | TRMS | 600A AC/DC | 600V AC/DC | CE

Art. no.	kg	PU
103809	0,340	1

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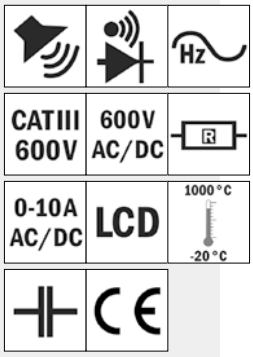
“Multi Check III” - digital high-capacity multimeter

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, holster, 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



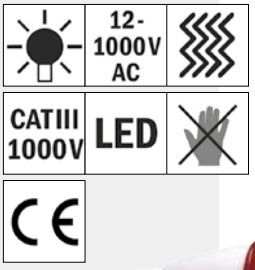
Art. no.	kg	PU
103815	0,433	1

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	TL	kg	PU
103817	12-1000	140	0,190	1

Voltage testers VDE/GS

5 mm surrounding hand-protection, clip of insulating material, fixed installed scale with dark background

Art. no.	TMA	TL	BL	kg	PU
100700 ✸	125-250	190	-	0,036	1

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

✸ Best-seller Premium product

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 in aaccordance with 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.*

DIN EN 60903

Art. no.	size	TL	strength	Class	kg	PU
120004	**9**	360	1,1	**00**	0,270	1
120005	**10**	360	1,1	**00**	0,293	1
120006 ✸	**9**	360	1,6	**0**	0,270	1
120007 ✸	**10**	360	1,6	**0**	0,280	1
120007/1	**11**	360	1,6	**0**	0,300	1
120006 561	**10**	360	2,1	**1**	0,646	1
120006 564 S	**10**	360	2,9	**2**	0,727	1
120006 587	**10**	360	3,5	**3**	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 HUPflashGloves need to be stored in the original packaging to prevent product damage.*

IEC 61482-1-2

DIN EN 60903

Art. no.	size	TL	strength	Class	kg	PU
121020/9	**9**	410	< 2,9	**0**	0,510	1
121020/10	**10**	410	< 2,9	**0**	0,520	1
121020/11	**11**	410	< 2,9	**0**	0,530	1
121021/10	**10**	410	< 3,4	**1**	0,670	1
121022/10	**10**	410	< 3,9	**2**	0,770	1
121023/10	**10**	410	< 4,2	**3**	0,800	1
121024/10	**10**	410	< 4,8	**4**	0,940	1

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

✸ Best-seller 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.	size	TL	kg	PU
120003	universal	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.	size	TL	kg	PU
120011	universal	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

EN 388
2121

CE

Art. no.		size	TL	kg	PU
120028	L	**10**	300	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)

Contents: 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.	TL	set	kg	PU
120029	400	**4-pieces**	6,860	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)

Contents: 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.	TL	set	kg	PU
120037	400	**3-pieces**	6,790	1

Safety fuse grips

with slip off protection and protection sleeve, for low voltage (NH) fuses class 00 - 3, according to DIN 57680 Part 4 or VDE 0680 Part 4: 1980-11, protective sleeve made from smooth, impregnated leather

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

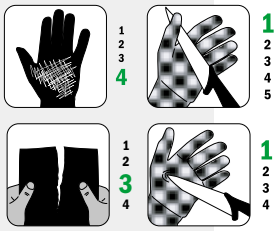
- Split pigskin leather: Heat and cold resistant, high abrasion resistance, good skin protection
- Back of hand made from cotton
- Canvas cuff
- Single size 10.5

Art. no.		size	TL	kg	PU
120310	L	**10,5**	250	0,343	1

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



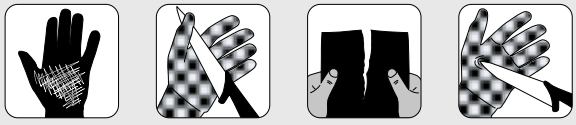
Art. no.		size	TL	kg	PU
120300/6	XXS	**6**	250	0,027	12
120300/7	XS	**7**	250	0,027	12
120300/8	S	**8**	250	0,027	12
120300/9 ✸	M	**9**	250	0,027	12
120300/10 ✸	L	**10**	250	0,027	12
120300/11	XL	**11**	250	0,027	12

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:

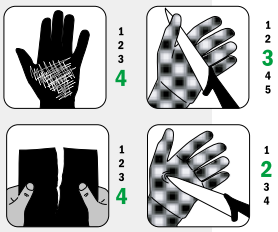
Abrasion resistance	→	4
Cut resistance	→	5
Tear propagation strength	→	4
Penetration resistance	→	4



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

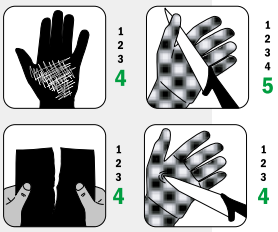


Art. no.		size	TL	kg	PU
120302/9	M	**9**	260	0,049	1
120302/10	X	**10**	260	0,049	1
120302/11	XL	**11**	260	0,049	1

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	TL	kg	PU
120304/9	M	**9**	260	0,069	1
120304/10 ✸	X	**10**	260	0,069	1
120304/11	XL	**11**	260	0,069	1

PU Packing unit PE Price unit

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

✸ Best-seller 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. Usage period up to 5 years. Adjustable to head size, rain catch, slots for ear protection, mount for face protection shields (Art. 120010 + 120034)

1000 V | Class 0

CE

Art. no.	colour	kg	PU
120008	**green**	0,343	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

CE

Art. no.	colour	kg	PU
120041	carmine 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

CE 1000 V

Art. no.	colour	kg	PU
150377	**transparent**	0,373	1

Electrician-safety face mask class II

Electrician-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

Art. no.	colour	kg	PU
120034	**transparent**	0,275	1

Safety-face masks acc. to EN 166

for protection against arc faults

CE 1000 V

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

CE

Art. no.	kg	PU
120087 ✸	0,270	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

CE

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	colour	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	colour	kg	PU
120111	23	red	0,143	1

Ear muffs for helmet

Ear muffs including helmet holder, SNR 23 for all currently available protective helmets.

Art. no.	dB	colour	kg	PU
120116	23	green	0,184	1

Ear protection plugs

Universal size, the material adapts individually to every auditory canal, simple to handle, reusable SNR: 30 dB

Art. no.	dB	colour	kg	PU
120115	38	blue	0,010	1

Dust masks

light type, made of filter-fleece, against fine particulate matter

Art. no.	FFP	kg	PU
120120	filterclass P 1	0,010	1
120122	filterclass P 1	0,014	1

Electricians' boots acc. to EN 50321 Class 0

Available in the sizes 42 to 47

Art. no.	size	colour	kg	PU
120014	42	white	2,160	1
120015	43	white	2,235	1
120016	44 - 45	white	2,400	1
120017	46	white	2,550	1
120018	47	white	2,160	1

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

✸ Best-seller Premium product

Security bag, empty

without contents, material: Nylon, extra long to hold the insulation stand mat

Art. no.		width	depth	height	kg	PU
300420	**empty**	390	50	590	0,680	1

Safety-sets 1000 V

in practical bag, 6-pieces. **Contents:** Electricians' helmet, safety mask, safety handle, gloves size 10 (1000 V), insulating mat 1000 x 1000 x 4 mm

1000 V | Class 0

Art. no.		set	kg	PU
300228	✸	**6-pieces**	6,860	1
300229		**5-pieces** (without insulating mat)	3,480	1

SysCon XL „SafetySet“

SysCon

Content:
1 220650 ABS plastic box „SysCon XL“

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

1000 V | Class 0

Art. no.	set	empty	kg	PU
220652	**5-pieces**	220650	2,000	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.		kg	PU
150280	wide counter	4,050	1

Safety belts acc. EN 358

safety belt universal for all sizes, length 1,50 meter, can bear loads of up to 100 kg

Art. no.	TL	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.	TL	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.	TL	strength	kg	PU
150275	5 m	12	1,953	1
150276	10 m	12	2,482	1
150277	15 m	12	3,062	1
150278	20 m	12	3,174	1
150279	25 m	12	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 (150270), safety device (150277) and shock absorbing rope (15 m) in practical backpack

Art. no.	set	kg	PU
150258	**4-pieces**	4,961	1

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

Best-seller Premium product

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	TL			kg	PU
120030	✷	**17**	1000	1 m x 1 m x 3,0 mm		3,754	1
120031		**17**	10000	10 m x 1 m x 3,0 mm	**role**	34,000	1
120033		**36**	10000	10 m x 1 m x 4,5 mm	**role**	42,000	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

1000 V

Video 120160_66

Art. no.	TL	width	strength	magnets	kg	PU
120160	300	500	1,0	6	0,370	1
120162	500	700	1,0	12	0,500	1
120164	300	700	1,0	8	0,700	1
120166	1100	1100	1,0	20	2,000	1

VDE magnet for rubber cloth

1000 V

Art. no.	TL	width	strength	magnets	kg	PU
120168	70	70	1,0	1	0,025	1

Rubber towels acc. to VDE 0680/1

grease and acid-proof, for covering of live equipment

1000 V

Art. no.		TL	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	1,6	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

1000 V

Art. no.	TL	width	strength	kg	PU
120200	50000	1300	0,5	41,500	1
150322	25000	1200	1,0	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

1000 V

Art. no.	TL	width	strength	kg	PU
150302	1000	600	1,0	0,750	1
150304	1000	600	0,5	0,332	1
150306	1000	400	1,0	0,520	1
150308	1000	400	0,5	0,260	1
150310	1000	300	1,0	0,380	1
150312	1000	300	0,5	0,190	1
150314	600	400	1,0	0,340	1
150316	600	400	0,5	0,171	1
150318	400	300	1,0	0,170	1
150320	400	300	0,5	0,100	1

Plastic clips 1000 V

for fastening of rubber towels

Art. no.		TL	opening	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.	TL	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.		TL	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.	TL	Ø	kg	PU
120070	75	10	0,011	1
120072	100	20	0,121	1
120074	120	30	0,207	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.	TL	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.	TL	width	kg	PU
120089	115	270	1,100	1

Insulator cover for gable insulators 1000 V

double faced, inside soft and outside strong plastic, for transformers and similar products

1000 V IEC 60900

Art. no.	TL	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.	TL	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.	TL	width	kg	PU
120077	170	140	0,155	1
120078	255	135	0,205	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

Sealing pliers

made of cast iron, punch exchangeable and hardened, bright nickel-plated

Art. no.	TL	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

Art. no.	
210731	up to 3 letters
210732	every further letter
210733	every border

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	0,002	1000
150345	10	0,003	1000

Seal wire

Material: Iron wire, galvanised

Art. no.	TL(m)	d1	d2	kg	PU
150360 ✸	115	0,5	0,5	0,532	1
150362	230	0,5	0,5	1,041	1
150364	190	0,5	0,3	0,530	1
150366	380	0,5	0,3	1,035	1
150368	300	0,3	0,3	0,533	1
150370	600	0,3	0,3	1,037	1

Plastic seal wire

Art. no.	TL(m)	d1	d2	colour	kg	PU
150375 BLAU	100	0,5	0,6	blue	0,199	1
150375 GRÜN	100	0,5	0,6	green	0,220	1
150375 ROT	100	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	8	0,950	1
130044	10	1,519	1

Security lock | Shackle Ø 4.7 mm

Zenex padlock

- Locking system with differently locking locks
- Contents: 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
- Contents: 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

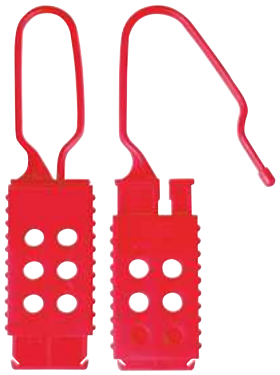
- Safety lockout for an effective multi-person lockout
- In the event of maintenance/repair, the system remains inoperable until the last lock has been removed

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

haupa®
... convincing solutions

Safety lockout for circuit breaker

Universal lock for mini circuit breakers

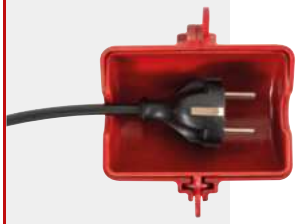
- Quick and easy installation, no tools necessary
- Padlock can be installed horizontally or vertically to suit all applications
- Suitable for use in potentially explosive atmospheres

Art. no.	🔒	Ø	kg	PU
120159	**2**	6	0,021	1

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

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 16 – 32 A CEE plug

Cover for electrical plug connection, large - 240 and 550 V

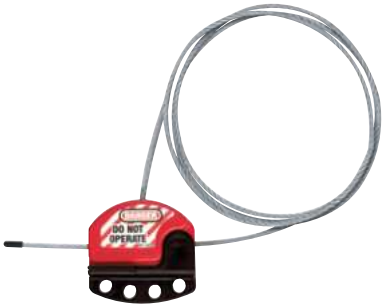
- Unique rotating design for easy handling
- Installation for applications in tight spaces
- Durable, lightweight, dielectric Zenex body is resistant to chemicals

Art. no.		kg	PU
120172	Plastic	0,1993	1

Adjustable multi-lock cable

Adjustable cable lockout (1.8 m) for various security lockout applications

- 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

Contents:

- 2 keyed-alike Zenex padlocks
- 2 mini circuit breaker lockouts
- 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	9	0,506	1

“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

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.	length	width	kg	PU
120175	146	80	0,045	1

“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

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.	length	width	kg	PU
120176	146	80	0,0272	1

NEW

“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

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.	length	width	kg	PU
120177	146	80	0,021	1

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

Best-seller Premium product

Standard tools

haupa®

... mit Sicherheit gute Ideen

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	TL	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**	1,0	150	245	0,067	1
101612		**5**	1,0	175	270	0,069	1
101614		**5**	1,0	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	TL	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	TL	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	TL	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 PE Price unit

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

✸ Best-seller 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	TL	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	TL	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.

Contents:
1 screwdriver each
Tx 10, Tx 15, Tx 20, Tx 25, Tx 30

Art. no.	form	set	kg	PU
101212/S ✸	TX	**5-pieces**	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	TL	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**	1,0	150	245	0,068	1
101528	**5**	1,0	175	270	0,072	1
101530	**5**	1,0	200	295	0,078	1

Engineers' 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	TL	kg	PU
101532	**5**	1,0	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	TL	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	TL	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.

Contents:
2 electricians' screwdrivers
2 engineers' screwdrivers
2 screwdrivers Phillips

Art. no.	form	set	kg	PU
101560	Phillips	**6-pieces**	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.

Contents:
2 electricians' screwdrivers
2 engineers' screwdrivers
2 screwdrivers Pozidriv

Art. no.	form	set	kg	PU
101562	Pozidriv	**6-pieces**	0,429	1

Screwdrivers

Stubby gasifier screwdrivers

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished

Art. no.	CW	BL	TL	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	TL	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.	Ø	BL	form	kg	PU
103470	**6**	100	round	0,083	1
103472	**6**	100	square	0,085	1

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

Best-seller Premium product

Socket wrenches

with 2-component handle made from PP/TPE material, blade made from molybdenum-vanadium steel, sanded blade, hardened, blast-finished

Art. no.	WS	BL	TL	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	0,145	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.

Contents: 1 piece each
5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm

Art. no.	set	kg	PU
101510	**7-pieces**	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 271.

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	shank	kg	PU
104008-1	**11-pieces**	hexagonal	1,060	1

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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

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**)

Contents:
- 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	set	kg	PU
103000-1	Mix	**1 - 6**	12-pieces	0,765	1
103002-1	Mix	**0,5 - 3,5**	12-pieces	0,765	1

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

Best-seller Premium product

„VarioTQ“ nylon bag – empty

robust nylon bag, with hook and loop closure, colour: black with green stiching

Art. no.	nylon bag	width	height	depth	kg	PU
103034-1	**empty**	250	135	30	0,080	1

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.	TL	Nm	kg	PU
103070	125	**1 - 6**	0,185	1
103072	125	**0,5 - 3,5**	0,185	1

Square socket key

for adjustment of the torque for VarioTQ replacement blades

Art. no.	form	BL	BL	kg	PU
102784	SQ	40	8	0,056	1

Replaceable blade

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested, for art. 103000-1, 103002-1, 104008-1, 103070 and 103072. Can also be used in cordless screwdrivers.

Replaceable blade – pozidrive blade/slotted

Art. no.	form	size	BL	kg	PU
103028	**PZ/FL**	1 + 2	175	0,040	1

Replaceable blade – slotted blade

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

Art. no.	form	size	BL	kg	PU
103014	**PH**	0 + 1	175	0,040	1

Replaceable blade – pozidrive blade

Art. no.	form	size	BL	kg	PU
103016	**PZ**	0 + 1	175	0,040	1

Replaceable blade – Phillips blade/pozidrive blade

Art. no.	form	size	BL	kg	PU
103018	**PH + PZ**	2 + 2	175	0,040	1

Replaceable blade – torx blade

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

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

Art. no.	form	size	BL	kg	PU
103030	**SQ**	0 + 2	175	0,185	1
103032	**SQ**	1 + 3	175	0,185	1

Replacement blades suitable for the "VarioTQ" and "Vario S2" systems

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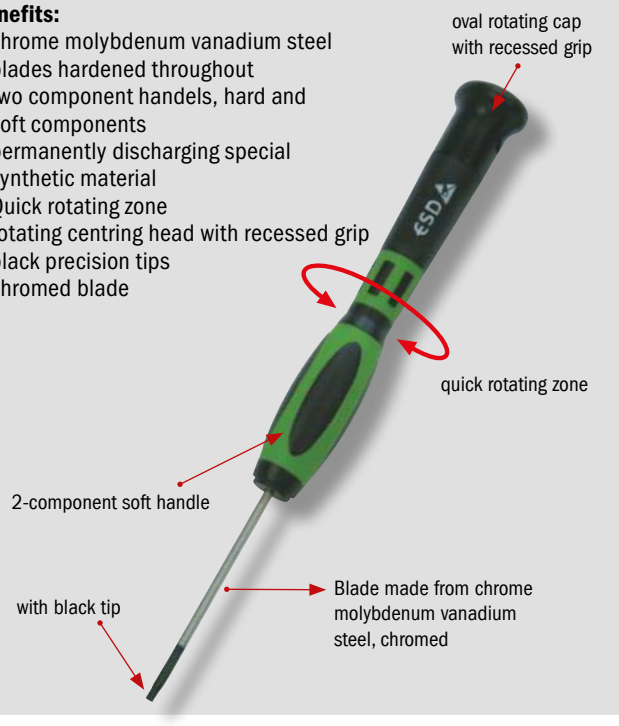
INFO

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	BL	TL	kg	PU
100704	**0,8**	60	150	0,023	1
100250	**1,0**	50	150	0,014	1
100704 A	**1,2**	60	150	0,021	1
100241	**2,5**	60	150	0,015	1
100243	**3,5**	100	150	0,018	1
100252	**1,6**	50	150	0,014	1
100257	**2,0**	50	150	0,015	1
100259	**2,4**	75	175	0,017	1
100261	**3,0**	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	TL	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	TL	form	kg	PU
100728	**1,5**	50	150	HEX	0,014	1
100729	**2,0**	50	150	HEX	0,015	1
100729 A	**2,5**	50	150	HEX	0,017	1
100736	**3,0**	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	TL	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	TL	kg	PU
100738	**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.

Contents:
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-pieces**	0,225	1

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

Best-seller Premium product

HAUPA Electronic screwdriver set standard

chrome vanadium steel, chrome-plated, with large plastic handle, with black point, 7 pieces.

Contents:
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-pieces**	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-pieces**	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

Contents:
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-pieces**	0,230	1

Claw retrievers

with inflexible shaft, chrome-plated, for gripping and retrieving of small parts in normally inaccessible places

Art. no.	TL	kg	PU
100366	525	0,050	1

Checking mirrors

with double ball joint

Art. no.	TL	Ø	kg	PU
100680	210	60	0,028	1

Magnetic retriever

flexible shaft and plastic handle

Art. no.	TL	Ø	kg	PU
100694	520	12	0,097	1

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Allen keys set

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chrome plated, on key ring.

Contents:
2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10

Art. no.		size	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.

Contents:
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.	size	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.

Contents:
size 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10

Art. no.	size	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.

Contents:
size 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10

Art. no.	size	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.

Contents:
TX 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40

Art. no.	size	quantity	kg	PU
100941	TX9 - 40	8	0,205	1

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

✸ Best-seller Premium product

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.

Contents:
WS: Hex 2, 2.5, 3, 4, 5, 6, 8, 10

Art. no.	size	quantity	kg	PU
100961	2 - 10	8	0,400	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.

Contents:
WS: Hex 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10

Art. no.	size	quantity	kg	PU
100921 ✸	1,5 - 10	9	0,300	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.	size	quantity	kg	PU
100965 ✸	1,5 - 10	9	0,420	1
100967	1/16" - 3/8"	9	0,420	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.	size	quantity	kg	PU
100927	1,5 - 10	9	0,420	1

Allen keys DIN 911

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chrome plated

Art. no.	TL	WS	Inch	kg	PU
100590	45 x 14	1,5	1/16"	0,020	1
100592	50 x 16	2	5/64"	0,020	1
100594	56 x 18	2,5	3/32"	0,020	1
100596	63 x 20	3	1/8"	0,030	1
100598	70 x 25	4	5/32"	0,080	1
100600	80 x 28	5	3/16"	0,019	1
100602	90 x 32	6	1/4"	0,028	1
100606	100 x 36	8	5/16"	0,058	1
100610	112 x 40	10	3/8"	0,099	1
100612	125 x 45	12		0,160	1
100614	132 x 50	13	1/2"	0,202	1

Ball point allen keys

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chrome plated

Art. no.	TL	WS	Inch	kg	PU
100902	56 x 18	2,5	3/32"	0,003	1
100903	63 x 20	3	1/8"	0,005	1
100904	70 x 25	4	5/32"	0,011	1
100905	80 x 28	5	3/16"	0,019	1
100906	90 x 32	6	1/4"	0,029	1
100908	100 x 36	8	5/16"	0,058	1
100909	112 x 40	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	TL	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	TL	TMA	kg	PU
100645	50x3	140	150-250	0,016	1

Voltage testers VDE/GS

5 mm surrounding hand-protection, clip of insulating material, fixed installed scale with dark background

VDE GS

PREMIUM

Art. no.		BL	TL	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.

1 box = 10 pieces (self-service packaging)

Screwdriver bits

DIN 3126, form E 6,3, shank 1/4“, 10 pieces in box

Art. no.	size	CW	TL	kg	PU
102110	0,6x4,5	4,5	50	0,104	1
102112	0,8x5,5	5,5	50	0,115	1

Screwdriver bits

DIN 3126, form E 6,3, shank 1/4“, 10 pieces in box

Art. no.	size	TL	kg	PU
102152	PH 1	25	0,062	1
102154	PH 2	25	0,067	1
102114	PH 1	50	0,105	1
102116	PH 2	50	0,124	1
102166	PH 2	90	0,097	1
102172	PH 1	150	0,251	1
102174	PH 2	150	0,358	1

Screwdriver bits, reduced

DIN 3126, form E 6,3, shank 1/4“, 10 pieces in box
for PH 1 and PH 2

Art. no.	size	TL	kg	PU
102155	2	25	0,064	1

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

✸ Best-seller PREMIUM Premium product

Screwdriver bits

DIN 3126, form E 6.3, shank 1/4“, 10 pieces in box

Art. no.	size	TL	kg	PU
102176	PZ 1	25	0,062	1
102178 ✷	PZ 2	25	0,065	1
102118	PZ 1	50	0,107	1
102120	PZ 2	50	0,123	1
102188	PZ 1	90	0,179	1
102190	PZ 2	90	0,231	1
102198	PZ 2	150	0,360	1

Screwdriver bits Tx

DIN 3126, form E 6.3, shank 1/4“, 10 pieces in box

Art. no.	size	TL	kg	PU
102200	Tx 15	25	0,061	1
102204	Tx 25	25	0,065	1
102124	Tx 20	50	0,110	1
102126	Tx 25	50	0,112	1

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	TL	kg	PU
101874	1	60	0,012	1
101876	2	60	0,013	1
101880	1	90	0,179	1
101882	2	90	0,231	1

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.	TL	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.	TL	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.	TL	kg	PU
102132	75	0,045	1
102134	60	0,040	1

„BitBox“, 25 mm, 17-pieces

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

Contents:
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.	Bit	set	kg	PU
102210 ✸	= 25 mm	**17-pieces**	0,170	1

„BitBox S“, 50 mm, 7-pieces

50 mm 1/4" bits in plastic box

Contents:
1 bit PH 1, 2
1 bit PZ 1, 2
1 bit PZ/FL 1, 2
1 bit Slot 4

360° | 102216

Art. no.	Bit	set	kg	PU
102216	50 mm	**7-pieces**	0,105	1

HAUPA „BitBox+“

Sturdy black plastic polypropylene, the constant hinge gives maximum stability. Safety and special bit set - top quality S2!
1/4" = 25 mm Bits

Contents:.
1/4" 25 mm Power bits PH: 2x 0, 2x 1, 4x 2, 2x 3
1/4" 25 mm Power bits PZ: 2x 0, 2x 1, 4x 2, 2x 3
1/4" 25 mm Power bits TX: T10, T15, T20, T25
1/4" 25 mm Power bits HEX: H3, H4, H5, H6
1/4" 25 mm Power bits R: 1, 2, 3

Chrom - Silizium - Mangan Molybdän-Vanadium S2

Video 102212

Art. no.	bit	set	kg	PU
102212	= 25 mm	**32-pieces**	0,400	1

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

✸ Best-seller Premium product

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 screw handle with a quick change bit system and 2-component handle ensure non-slip and fatigue-free work. The ergonomic form and the soft zones within the pressure area range make a relaxed possible screws. With hanging up hole.
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.	bit	set	kg	PU
104006 ✷	= 25 mm	**58-pieces**	0,810	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 a quick change bit system and 2-component handle ensure non-slip and fatigue-free work. The ergonomic shape and the soft zones quarantee relaxed screwing.
Only for 1/4" = 50 mm Bits.

PREMIUM

Contents:
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

Video 104030

Art. no.	bit	set	kg	PU
104030	= 50 mm	**9-pieces**	0,350	1

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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 screw handle with a quick change bit system and 2-component handle ensure non-slip and fatigue-free work. The ergonomic form and the soft zones within the pressure area range make a relaxed possible screws.

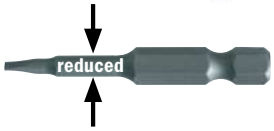
Art. no.	bit	kg	PU
104009	**≥ 25 mm, 50 – 150 mm**	0,216	1

Ratchet screwdriver set „FlexBag“ with 50 mm S2 bits and reduced shank, in robust nylon bag.

FlexBag

Ratchet screwdriver with right/left hand motion. Adjustable operating angle of 180°. Safety and special bit set - top quality S2! The screw handle with a quick change bit system and 2-component handle ensure non-slip and fatigue-free work. The ergonomic form and the soft zones within the pressure area range make a relaxed possible screws.

Contents:
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



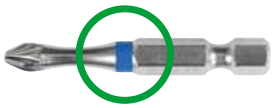
Art. no.	bit	set	kg	PU
104020-1 ✸	= 50 mm	**51-pieces**	0,810	1

Ratchet screwdriver set „FlexBagPro“ 37 safety bits, 8 spanner sockets, 5 drill bits, in robust nylon bag.

FlexBag

Ratchet screwdriver with right/left hand motion. Adjustable operating angle of 180°. Safety and special bit set – top quality S2! The screw handle with a quick change bit system and 2-component handle ensure non-slip and fatigue-free work. The ergonomic form and the soft zones within the pressure area range make a relaxed possible screws.

Contents:
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



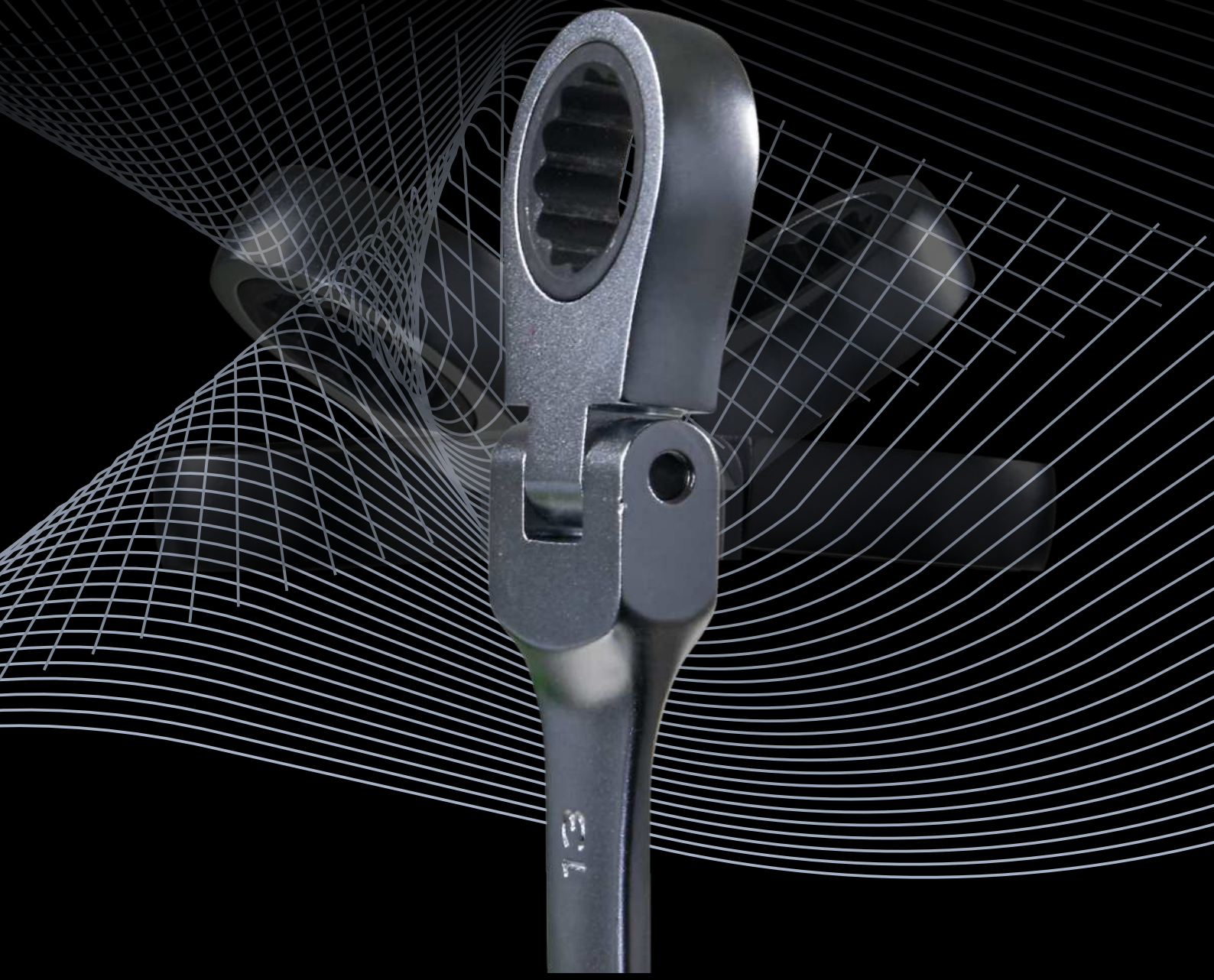
with colour coding

Art. no.	bit	set	kg	PU
104022-1	= 50 mm	**51-pieces**	0,810	1

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

✸ Best-seller PREMIUM Premium product

Socket sets



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Double ended spanners acc. to DIN 3110

chrome vanadium steel, chrome plated, head polished, jaw position 15°

Art. no.	TL	WS	strength	kg	PU
110090	120	6 - 7	3,2	0,240	1
110092	140	8 - 9	3,5	0,340	1
110094	157	10 - 11	4,0	0,590	1
110096	172	12 - 13	4,5	0,057	1
110100	190	14 - 15	5,0	0,760	1
110104	205	16 - 17	5,5	0,144	1
110108	223	18 - 19	6,0	0,182	1
110112	250	21 - 23	7,0	0,212	1
110114	250	24 - 26	7,0	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, jaw position 15°, plastic holder included.

Art. no.	WS	set	kg	PU
110130	6-22	**8-pieces**	0,940	1
110132	6-32	**12-pieces**	2,353	1

Double ended ring spanners to DIN 838

chrome vanadium steel, chrome plated, head polished, ring jaw position 75°

Art. no.	TL	WS	kg	PU
110140	170	6 - 7	0,035	1
110142	185	8 - 9	0,066	1
110144	205	10 - 11	0,075	1
110146	220	12 - 13	0,107	1
110148	240	14 - 15	0,154	1
110152	265	16 - 17	0,175	1
110154	280	18 - 19	0,297	1
110160	335	24 - 26	0,468	1
110164	370	27 - 32	0,611	1

Double ended ring spanner sets DIN 838

chrome vanadium steel, chrome plated, head polished, ring jaw position 75°, in paper box

Art. no.	WS	set	kg	PU
110170	6-22	**8-pieces**	1,289	1
110172	6-32	**12-pieces**	2,451	1

Combination spanners similar to DIN 3113

chrome vanadium steel, chrome plated, head polished, jaw position 15°, ring jaw position 75°

Art. no.	TL	WS	kg	PU
110180	100	6	0,016	1
110182	110	7	0,021	1
110184	120	8	0,028	1
110186	130	9	0,036	1
110188	140	10	0,043	1
110190	150	11	0,058	1
110192	160	12	0,061	1
110194	170	13	0,081	1
110196	180	14	0,075	1
110198	190	15	0,087	1
110202	210	17	0,160	1
110204	220	18	0,164	1
110206	230	19	0,187	1
110212	260	22	0,266	1
110216	280	24	0,316	1
110222	310	27	0,401	1

Combination spanners similar to DIN 3113

chrome vanadium steel, chrome plated, head polished, jaw position 15°, ring jaw position 75°, plastic holder included.

Art. no.		WS	set	kg	PU
110250	✸	6-22	**12-pieces**	1,144	1

Combination spanners similar to DIN 3113

chrome vanadium steel, chrome plated, head polished, jaw position 15°, ring jaw position 75°, in roll bag with eyes for hanging.

Art. no.	WS	set	kg	PU
110252	6-27	**16-pieces**	1,948	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

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.	WS	set	kg	PU
110900 ✷	8-19	**8-piece**	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.	TL	WS	kg	PU
110900/8	134	**8**	0,030	1
110900/9	152	**9**	0,060	1
110900/10	157	**10**	0,060	1
110900/12	167	**12**	0,080	1
110900/13	175	**13**	0,100	1
110900/14	190	**14**	0,120	1
110900/17	223	**17**	0,180	1
110900/19	245	**19**	0,200	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.

Contents:
Wrench sizes 8 - 9 - 10 - 12 - 13 - 14 - 17 - 19 mm

360° | 110902

Art. no.	WS	set	kg	PU
110902 ✷	8 - 19	**8-piece**	1,255	1

„Flex“ hinged ratchet combination wrench

made of chrome vanadium steel, chromium plated surface, polished, fine-toothed, 72 teeth, with hinge, 180° swivelling head, DIN 3113, ISO 3318

Art. no.	TL	WS	kg	PU
110902/8	140	**8**	0,041	1
110902/9	148	**9**	0,050	1
110902/10	162	**10**	0,068	1
110902/12	175	**12**	0,093	1
110902/13	178	**13**	0,105	1
110902/14	190	**14**	0,123	1
110902/17	227	**17**	0,189	1
110902/19	246	**19**	0,253	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
- fine-tooth 72 teeth of the 2 ratchets, swing angle 3°
- switch-over function of the ratchets for clockwise and anti-clockwise turning
- thanks to the 12-fold teeth, 4, 6 and 12-edged screws and almost round screw nuts can be released easily
- chrome-vanadium steel, chrome-plated
- very durable

Art. no.	size	TL	kg	PU
110780	8x10 | 12x13	150	0,185	1
110782	10x13 | 17x19	200	0,205	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.	size	TL	kg	PU
110590	6-19	150	0,160	1
110592 ✷	9-24	200	0,342	1
110594	10-29	240	0,400	1
110596	10-34	300	0,634	1

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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

Video 110583

Art. no.	size	TL	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.	size	TL	kg	PU
110798	17-19	223	0,238	1

Socket set

1/4"

chrome vanadium steel, industrial quality, black plastic case with metal catch, 1/4".

Contents:
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	kg	PU
110674	✸	**33-pieces**	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	TL	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	TL	kg	PU
110700	1/4"	50	0,024	1
110701	1/4"	100	0,063	1

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

✸ Best-seller Premium product

Flexible extension bar 1/4"

1/4"

Material: Chrom-Vanadium-Stahl, Industriequalität

Art. no.	drive	TL	kg	PU
110702	1/4"	100	0,059	1

Sockets 1/4"

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.	WS	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**	0,025	1

Sliding adapter 3/8" x 1/4"

3/8" 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"

1/4"

Material: Chrom-Vanadium-Stahl, Industriequalität

Art. no.	drive	kg	PU
110725	1/4"	0,064	1

Universal joint 1/4"

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"

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"

1/4"

Material: Sockets: Cr-V steel; Bits: S2 Xtra Moly steel | Industrial quality | Standards: DIN / ISO standards | Finishing: Silver mat finished

Art. no.	WS	kg	PU
110729	**3**	0,015	1
110747	**4**	0,015	1
110749	**5**	0,016	1
110754	**6**	0,018	1
110718	**8**	0,018	1

Insert bit sockets TX 1/4"

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"

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

Socket sets

Socket set

3/8"

chrome vanadium steel, industrial quality, black plastic case with metal catch, 3/8".

Contents:
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 20 - 75 - 150 mm

Art. no.	set	kg	PU
110676	**26-pieces**	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	TL	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	TL	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.	WS	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.	WS	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 handle

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-pieces**	0,067	1

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

Best-seller Premium product

Socket set

1/2"

chrome vanadium steel, industrial quality, black plastic case with metal catch, 1/2".

Contents:
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	kg	PU
110677	**25-pieces**	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	TL	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	TL	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.	WS	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.	WS	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

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Socket set

1/2" 1/4"

chrome vanadium steel, industrial quality, black plastic case with metal catch.

Contents:
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

1/4" 1/2"

Art. no.		set	drive	kg	PU
110678	✸	**53-pieces**	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.

Contents:

PREMIUM

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

1/4" 1/2"

Art. no.	set	empty	kg	PU
220600	**55-pieces**	220370	6,000	1

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

✸ Best-seller PREMIUM Premium product

„SocketFlex“ socket wrench box

1/2" 1/4"

Chrome vanadium steel, industrial quality, black plastic case with metal catch, including HAUPA „FlexPlus“ ratchet screwdriver.

Contents:

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-pieces**	1/4"+1/2"	4,500	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

TQ 1/4"

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel DIN-3122; ISO 6789

TQ

Art. no.		drive	Nm	kg	PU
110607	✸	1/4"	5 - 25	1,000	1

Torque wrenches

TQ 3/8"

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel DIN-3122; ISO 6789

TQ

Art. no.	drive	Nm	kg	PU
110605	3/8"	5 - 50	1,000	1

Torque wrenches

TQ 3/8"

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel DIN-3122; ISO 6789

TQ

Art. no.	drive	Nm	kg	PU
110608	3/8"	20 - 120	1,500	1

Torque wrenches

TQ 1/2"

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel DIN-3122; ISO 6789

TQ

Art. no.	drive	Nm	kg	PU
110610	1/2"	20 - 120	1,500	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

Torque wrenches

reversible ratchet system, +/- 3%, Chrome-Vanadium-Steel DIN-3122; ISO 6789

Art. no.	drive	Nm	kg	PU
110609	1/2"	42 - 210	1,750	1

SysCon socket wrench set "Torque" ½"

chrome vanadium steel, industrial quality, in ABS plastic box.

Contents:

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-pieces**	220370	4,300	1

SysCon socket wrench set "Torque" ¼"

chrome vanadium steel, industrial quality, in ABS plastic box, including HAUPA „FlexPlus" ratchet screwdriver.

Contents:

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-pieces**	220370	3,900	1

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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	0,145	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	0,115	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	0,030	1

Universal switch cabinet key with crescent, „HUPkey“

Inside square 6 - 7 mm, 8 - 9 mm, crescent,
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	0,094	1

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

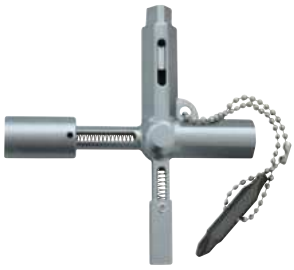
Best-seller Premium product

Spanners for switch cabinet key, „HUPkey Uni“

PREMIUM

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

Video 110698



Not available in GB and FR!

Art. no.	kg	PU
110698	0,105	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.		TL	soft	hard	kg	PU
210052		160	4,0	2,0	0,197	1
210053	✸	180	4,0	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.		TL	soft	hard	kg	PU
210067		140	4,0	1,8	0,172	1
210068	✸	160	4,0	2,0	0,237	1
210069		180	4,0	2,0	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.		TL	soft	hard	kg	PU
210156		160	4,0	2,7	0,264	1
210157		180	4,0	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.		TL	soft	hard	kg	PU
210158	✸	200	4,2	3,0	0,326	1

PU Packing unit PE Price unit

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

✸ Best-seller 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.	TL	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.	TL	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.	TL	form	kg	PU
210394	170	straight	0,154	1
210396 ✸	200	straight	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.	TL	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.	TL	mm²	kg	PU
210644	160	0,6-10	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.	TL	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.	TL	kg	PU
210616	170	0,185	1
210617 ✸	240	0,330	1
210618	300	0,545	1

Pliers wrench

NEW

- 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.	TL	WS	kg	PU
210615	180	36	0,111	1
210619	260	50	0,368	1

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Pliers set

Contents:
1 compination pliers 180 mm
1 diagonal cutter 160 mm
1 long chain nose pliers 200 mm
1 wire stripping pliers 160 mm

Art. no.	set	kg	PU
220128	**4-pieces**	1,044	1

Pliers set

Contents:
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

Art. no.	set	kg	PU
220129	**4-pieces**	1,082	1

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.	TL	WS	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.	TL	WS	kg	PU
210562	250	0-40	0,565	1

Pipe wrenches

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

Art. no.	TL	WS	tube	kg	PU
210592	320	- 45	1"	0,798	1
210594	435	- 59	1 1/2"	0,800	1
210596	560	- 76	2"	2,460	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.	TL	kg	PU
210770	250	0,552	1

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

Best-seller Premium product

Riveting tool set

in portable plastic box. **Contents:** 1 plier no. 210770, 100 pieces of alu space rivets 4 mm Ø, short-middle-long, 2 twist drills and washers.

Art. no.	TL	kg	PU
210776	250	0,840	1

Microelectronic side cutters

without cutting-facet, clearance angle: 50°, with clip, for soft wires up to 0.8 mm²

Art. no.	TL	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.		TL	kg	PU
211720	✸	132	0,086	1
211722		158	0,087	1

Tweezers

special design for wafers, long, extra small blades, needle fine top ends, stainless steel, antimagnetism acid resistent

Art. no.	TL	kg	PU
211080	130	0,017	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.	TL	form	kg	PU
211850	130	straight	0,091	1

ESD Electronic needle nose pliers, 45° angle

with wire cutter, special tool steel

Art. no.	TL	form	kg	PU
211852	130	45°	0,089	1

ESD Electronic needle nose pliers

straight construction, special tool steel

Art. no.	TL	form	kg	PU
211854	130	straight	0,082	1

ESD Electronic needle nose pliers, 45° angle

45° angle, special tool steel

Art. no.	TL	form	kg	PU
211856	130	45°	0,081	1

ESD Electronic thin needle nose pliers, 45° angle

45° angle, special tool steel

Art. no.	TL	form	kg	PU
211860	140	45°	0,084	1

ESD Electronic thin needle nose pliers

straight construction, special tool steel

Art. no.	TL	form	kg	PU
211862	150	straight	0,087	1

ESD Electronic thin needle nose pliers, 45° angle

45° angle, special tool steel

Art. no.	TL	form	kg	PU
211864	150	45°	0,087	1

ESD Electronic flat nose pliers

Special tool steel

Art. no.	TL	kg	PU
211866	130	0,090	1

PU Packing unit PE Price unit

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

Best-seller Premium product

ESD electronic pliers

ESD Electronic round nose pliers

straight construction, special tool steel

Art. no.		TL	kg	PU
211868		130	0,091	1

ESD Electronic side cutter

normal construction, head width 14 mm, special tool steel

Art. no.		TL	kg	PU
211870	✸	115	0,078	1

ESD Electronic side cutters

slim construction, head width 10 mm, special tool steel

Art. no.	TL	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.		TL	kg	PU
211875	✸	115	0,075	1

ESD Electronic front cutter

Special tool steel

Art. no.	TL	kg	PU
211874	115	0,093	1

ESD Electronic combination pliers

with wire cutter, special tool steel

Art. no.	TL	kg	PU
211876	115	0,077	1

ESD Electronic pliers set

Special tool steel

Contents:
Art. No. 211862, 211870, 211874, 211876

Art. no.	set	kg	PU
211880	**4-pieces**	0,585	1

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LED lamps/torches and Compact floodlights

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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

NEW

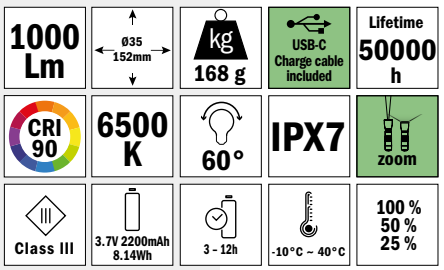
LED flashlight, “HUPflash1000”

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.

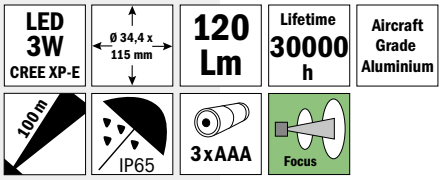
- Rechargeable
- Dimmable
- Zoom function



Art. no.	size	kg	PU
130384	Ø 35 x 152 mm	0,168	1

LED “Focus Torch”

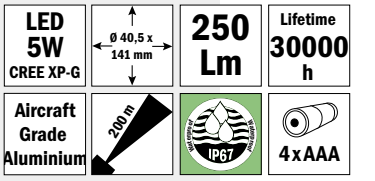
- Adjustable focus for near and far
- LED 3 Watt CREE XP-E
- 3xAAA batteries



Art. no.		size	kg	PU
130312	✸	Ø 34,4 x 115 mm	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.		size	kg	PU
130314	✸	Ø 40,5 x 141 mm	0,440	1

Holster for LED torches

Suitable for item numbers: 130312, 130314

Art. no.	width	depth	height	kg	PU
130322	30	10	100	0,180	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

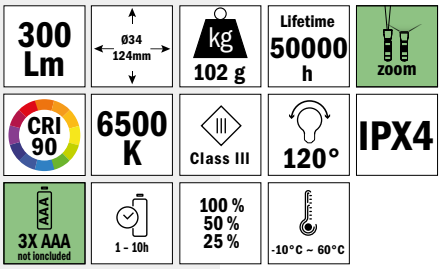
LED flashlight, “HUPflash300”

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



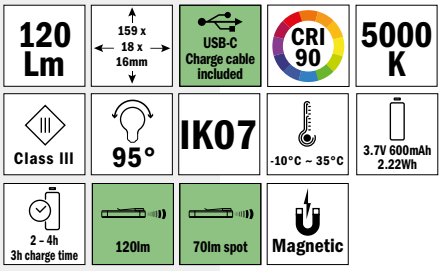
Art. no.	size	kg	PU
130390	Ø 34 x 124 mm	0,102	1

LED flashlight, “HUPflash120”

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.	size	kg	PU
130388	159 x 18 x 16 mm	0,042	1

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LED flashlight, “HUPflash800”

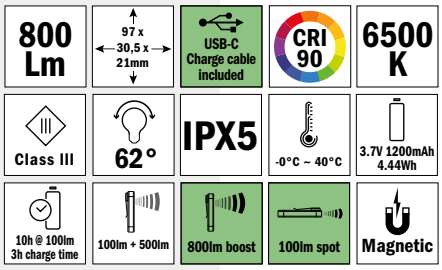
Our mini flashlight, specially designed to meet your lighting needs, features three different modes: High mode 500 lumen, Low mode 100 lumen, and Top-LED mode for 150 lumen, as well as the Boost mode: Unleashes a powerful 800 lumen boost by pressing and holding the button (3s).

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.

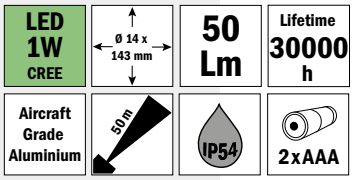
- Streamlined and compact design
- Strong magnets
- Versatile



Art. no.	size	kg	PU
130382	97 x 30,5 x 21 mm	0,100	1

LED “Pen Torch”

- Illumination range: 50 m
- 50 Lm
- LED 1 Watt CREE
- With clip
- 2xAAA batteries



Art. no.	size	kg	PU
130328 ✸	Ø 14 x 143 mm	0,060	1

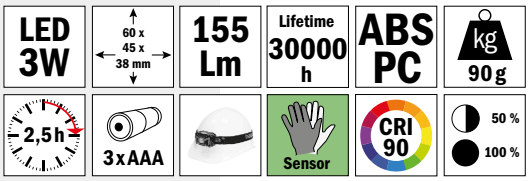
PU Packing unit PE Price unit

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

✸ Best-seller Premium product

LED headlamp “HUPflash155”

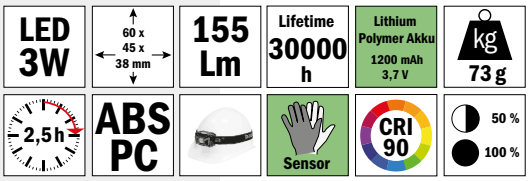
- 3 W COB LED
- Material: ABS, PC
- Luminosity 155 Lm
- Colour reproduction 90 CRI
- Battery-powered (3 x AAA included in the scope of delivery)
- Variable light intensity, 50% | 100%
- Operating time:
  - approx. 2.5 hours at 100% light intensity
  - approx. 4 hours at 50% light intensity
- Very easy-to-balance 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.	Watt	size	kg	PU
130319	3	60 x 45 x 38 mm	0,090	1

LED headlamp “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.	Watt	size	kg	PU
130321	3	60 x 45 x 38 mm	0,073	1

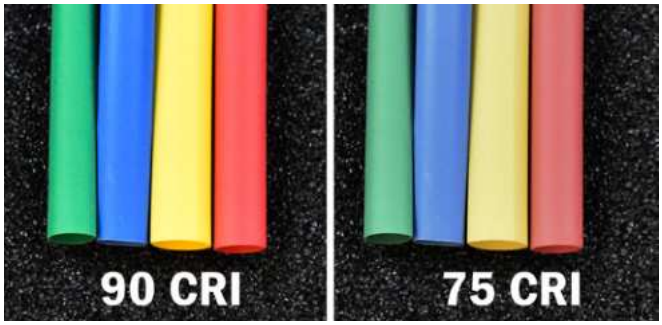
For a good overall view

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 headlamp “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.	Watt	size	kg	PU
130323	XML2	28 x 107 mm	0,149	1

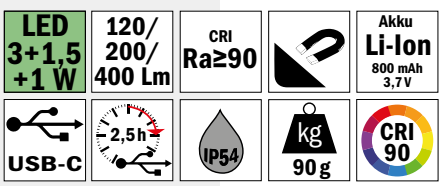
LED inspection lamp “HUPlight400”

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 LED 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.	size	kg	PU
130378	160 x 37 x 21 mm	0,090	1

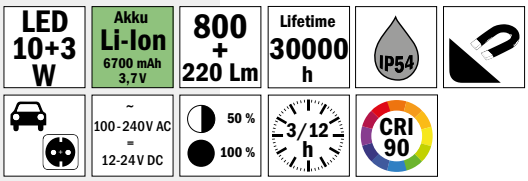
PU Packing unit PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

Best-seller 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

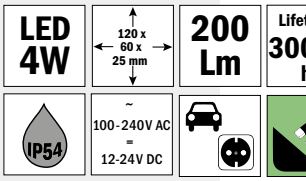
360° | 130348



Art. no.	Watt	size	kg	PU
130348 ✷	10+3	220 x 57 x 40 mm	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.	Watt	size	kg	PU
130336	4	60 x 25 x 120 mm	0,260	1

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LED charging station “HUPlightWLcharger”

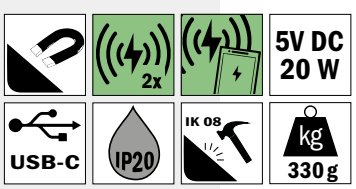
- Charges two devices simultaneously
- Works with compatible mobile phones
- IK08 impact resistance
- Strong magnets on back side enable easy mounting on magnetic surfaces and integrated screw holes for permanent mounting

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)

Contents:

- 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.	size	kg	PU
130376	265 x 110 x 29 mm	0,330	1

LED work lamp “HUPlightWL1000”

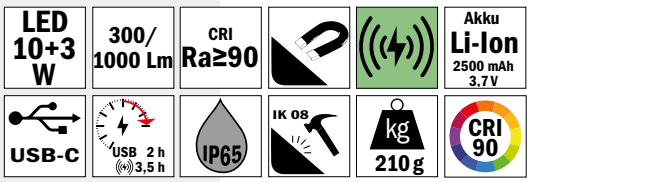
- Supports wireless charging (charging station “HUPlightWLcharger” Art. 130376)
- Colour reproduction 90 CRI
- Super bright 1,000 lumens COB-LED
- Super bright spot LED with 300 lumens
- Stand with magnetic base rotates 160 degrees
- Battery status and charging indicators
- Protection class IP65
- IK08 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)

Contents:

- USB charging cable: USB-C to USB-C x 1 m



Art. no.	size	kg	PU
130374	72 x 40 x 92 mm	0,210	1

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

Best-seller 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)

Contents:

- USB charging cable: USB-C to USB-C x 1 m

LED 10W | 225/ 450/ 900 Lm | CRI Ra≥90 | 200m | Akku Li-Ion 2500 mAh 3,7 V | USB-C | USB 2 h (3,5 h) | IP54 | IK 08 | kg 270 g | CRI 90

Art. no.	size	kg	PU
130372	47 x 48 x 192 mm	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)

Contents:

- USB charging cable: USB-C to USB-C x 1 m

LED 15+3 W | 300/ 900/ 1500 Lm | CRI Ra≥90 | Akku Li-Ion 4400 mAh 3,7 V | USB-C | USB 3,5 h 6 h | IP65 | IK 08 | kg 400 g | CRI 90

Art. no.	size	kg	PU
130370	77 x 171 x 41 mm	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-piece	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-piece	0,810	1

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

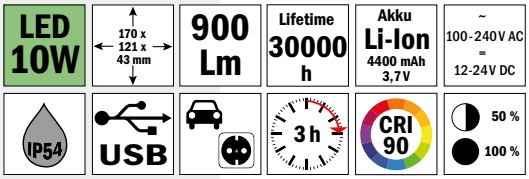
Best-seller Premium product

Compact floodlight “HUPlight10pro”

PREMIUM

- 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

360° | 130344



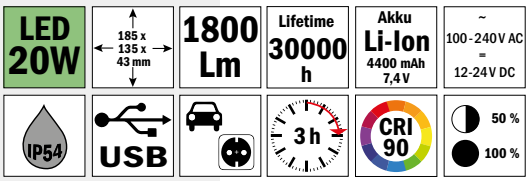
Art. no.		Watt	size	kg	PU
130344	✸	10	170 x 121 x 43 mm	1,000	1

Compact floodlight “HUPlight20pro”

PREMIUM

- 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

360° | 130346



Art. no.		Watt	size	kg	PU
130346	✸	20	185 x 135 x 43 mm	1,340	1

HUPlightpro Crashtest

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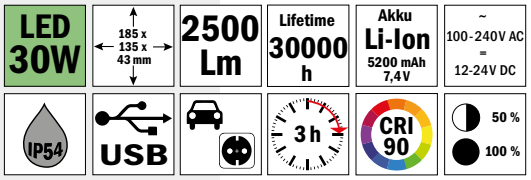
Compact floodlight “HUPlight30pro”

- 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

360° | 130352



Art. no.		Watt	size	kg	PU
130352	✸	30	185 x 135 x 43 mm	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.	size	kg	PU
130343	85 x 85 x 40 mm	0,470	1

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

✸ Best-seller Premium product

NEW

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, 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.

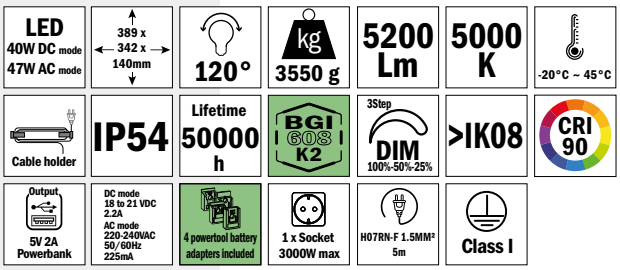
In addition to batteries, the work light can also be powered by the included 5 m long connection cable H07RN-F 3G 1.5 mm². This work light is equipped with a socket (max. 3000 W), allowing the connection of another light, power tool, or other device,

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, 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

BGI 608 K2



Art. no.	size	kg	PU
130386	389 x 342 x 140 mm	3,550	1

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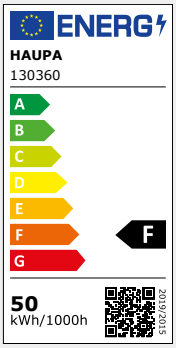
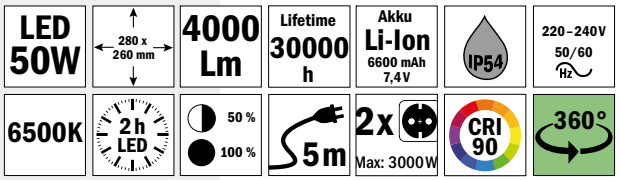
HAUPA GmbH & Co. KG, Lange Str. 40, 42857 Remscheid, Phone: +49 (0)2191 8418-0, Fax: +49 (0)2191 8418-840, E-Mail: sales@haupa.com

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.	Watt	size	kg	PU
130360 ✸	50	280 x 260 mm	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.	size	kg	PU
130361	1150 x 1150 x 3000 mm	7,000	1

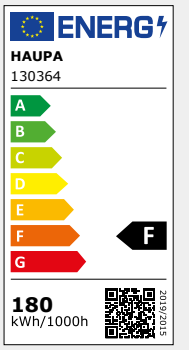
PU Packing unit PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

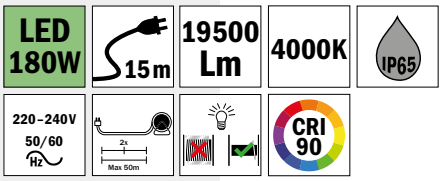
✸ Best-seller Premium product

LED light strip “HUPlightStripe15”

- 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 50 metres using plug or screw connections
- 120° beam angle
- Colour rendering index CRI > 90
- Brightness (Lumen) 19500 Lm
- Safety class 2
- Also for use outdoors IP65
- Dimensions light tube: W 16 mm x H 8 mm
- Dimensions drum: W 286 mm x D 210 mm x H 338 mm

Ideal for illuminating building sites, in particular building shells! Using e.g. cable ties, the LED light strip can be simply hung from the ceiling to illuminate the entire work area evenly. Durable and break-proof, can be used without a cumbersome tripod. Can be stowed in a small and compact manner like a cable drum.



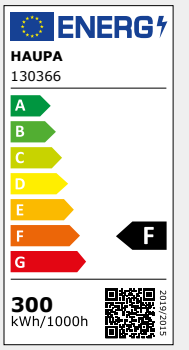


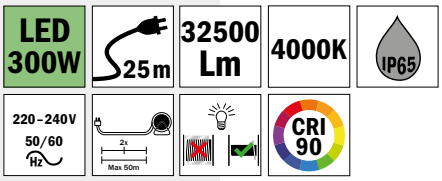
Art. no.	Watt	size	kg	PU
130364	180	16 x 8 x 15000 mm	4,400	1

LED light strip “HUPlightStripe25”

- 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 50 metres using plug or screw connections
- 120° beam angle
- Colour rendering index CRI > 90
- Brightness (Lumen) 32500 Lm
- Safety class 2
- Also for use outdoors IP65
- Dimensions light tube: W 16 mm x H 8 mm
- Dimensions drum: W 317 mm x D 250 mm x H 385 mm

Ideal for illuminating building sites, in particular building shells! Using e.g. cable ties, the LED light strip can be simply hung from the ceiling to illuminate the entire work area evenly. Durable and break-proof, can be used without a cumbersome tripod. Can be stowed in a small and compact manner like a cable drum.





Art. no.	Watt	size	kg	PU
130366	300	16 x 8 x 25000 mm	6,500	1

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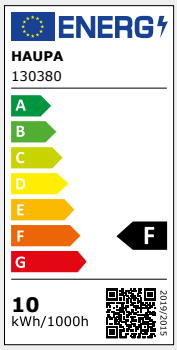
LED Renovation Light "HUPlightEasy"

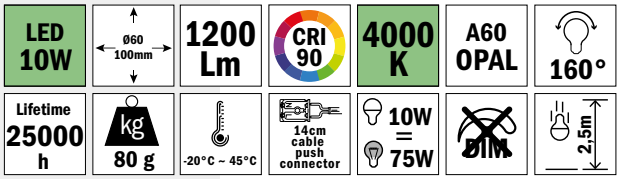
The Renovation Light "HUPlightEasy" is the quick, affordable, and uncomplicated solution for illuminating construction sites, vacant apartments, storage rooms, etc.

- 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.

Contents: 5 pieces

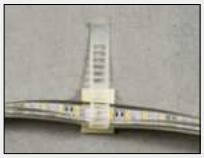


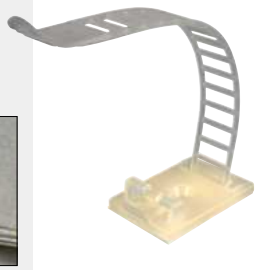


Art. no.	set	size	kg	PU
130380	5-pieces	Ø 60 x 100 mm	0,080	1

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, dimensions: 90 x 12 mm, **contents: 100 units**





Art. no.	TL	W	H	Ø	PU	PE
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: black, dimensions: 90 x 12 mm, **contents: 100 units**

Art. no.	TL	W	H	Ø	PU	PE
262193	90	12	7,6	3,4	100	100

PU Packing unit PE Price unit

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

Best-seller Premium product

Measuring tools

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Folding rules

with spring joint, mm-graduations on both sides

Art. no.		TL	type	width	kg	PU
240002	✸	2 m	wood	16	0,022	1
240005		2 m	fibre glass	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.		TL	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.	TL	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.	TL	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.		TL	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.	TL	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.		TL	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.	TL	Spirit level	kg	PU
240061	100	2	0,085	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

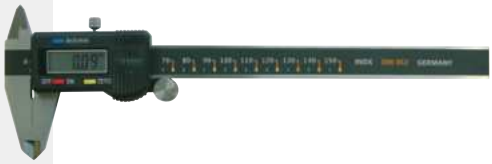
Precision pocket vernier calipers „Stainless“

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.	TL	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.	TL	TMA	kg	PU
240073	235	0 - 150	0,150	1

Engineers' squares

manufactured from steel, bright

Art. no.	TL	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.	TL	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.	TL	kg	PU
240234	250	0,046	1

Carpenters' pencils

12 items per packaging unit

Art. no.	TL	kg	PU
150090	150	0,007	1

Multigraph, black, 7B lead, triangular

NEW

- Made of high-quality lime wood (can be sharpened really easily and is a great combination of stability and flexibility)
- 7B graphite lead
- For marking on wood, card, paper, concrete
- Weatherproof, fade-resistant labeling

Art. no.	TL	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		0,291	1
150027	spare lead 10 pc	0,291	1

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

NEW

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.	TL	kg	PU
150044	155	0,022	1

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Refills, graphite universal

NEW

- Suitable for deep-hole marker Art.No. 150044
- Refills in a dispenser, 6 units

Art. no.	TL		kg	PU
150045	125	spare lead 6 pc	0,021	1

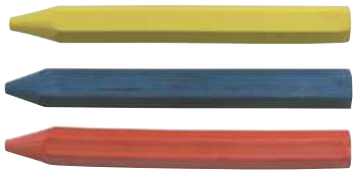
Chalk

in plastic bottles, 250 g

Art. no.	colour	kg	PU
140510	red	0,284	1
140520 ✸	blue	0,276	1
140530	yellow	0,279	1

Marking chalk

12 items per packaging unit



Art. no.	colour	set	kg	PU
150015 B ✸	blue	**12-pieces**	0,017	1
150015 G	yellow	**12-pieces**	0,017	1
150015 R	red	**12-pieces**	0,016	1

Holder for marking chalk

suitable for marking chalk art. 150015

Art. no.	kg	PU
150015/1	0,036	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.	size		kg	PU
150019 ✸	15 m	**Squid**	0,291	1

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

✸ Best-seller Premium product

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.		TL	kg	PU
393000	✸	290	0,250	1

Hand brush „Prestige“ short

- Soft coconut bristles
- Unvarnished wooden body
- 29 cm
- Handle with hole for hanging up

Art. no.	TL	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.	TL	kg	PU
393002	430	0,280	1

Hand brush „Prestige“ long

- Soft coconut bristles
- Unvarnished wooden body
- 43 cm
- Handle with hole for hanging up

Art. no.	TL	kg	PU
393040	430	0,180	1

Metal dustpan with wooden handle

- Made from metal
- Wooden handle with hole for hanging up
- Robust version
- 450 x 230 mm

Art. no.		TL	width	kg	PU
393006	✸	450	230	0,400	1

Street broom

- Elaston
- 40 cm
- 6/15 rows

Art. no.	TL	kg	PU
393008	400	0,300	1

Broom, for rough dirt

- Elaston
- 40 cm
- For coarse dirt
- Made from wooden corbel
- With hole for handle

Art. no.	TL	kg	PU
393012	400	0,300	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.	TL	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.	TL	kg	PU
393010	400	0,300	1

Broomstick

- Sanded cleanly
- Rounded head
- 1400 mm

Art. no.	TL	kg	PU
393004	1400	0,250	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

Bucket

- Made from plastic
- 12 l / 20 l
- With carry handle

Art. no.	Liter	colour	kg	PU
300102	12	black	0,450	1
300115	20	black	0,600	1

Textile tape

Particularly strong adhesive, UV-resistant.

- 50 m

Art. no.	length/m	width	colour	kg	PU
393016	50	50	grey	0,400	1

Tarpaulin premium

Protects from dust and damp, for indoor use.

- 12 my
- 4 x 12,5 m

Art. no.	TL	width	kg	PU
393026	12500	4000	0,250	1

Tarpaulin, strong

Effective protection from dirt whatever the job, for indoor use.

- 30 my
- 4 x 5 m

Art. no.	TL	width	kg	PU
393022	5000	4000	0,200	1

Tarpaulin, strong

Effective protection from dirt whatever the job, for indoor use.

- 30 my
- 4 x 12,5 m

Art. no.	TL	width	kg	PU
393024	12500	4000	0,500	1

Dust protection door, multi-fleece

Protects from dust and dirt, approximately 120 x 220 cm, zip length approximately 215 cm.

Art. no.	TL	width	kg	PU
393032	2200	1200	0,350	1

Builders waste sack

- LDPE
- Roll containing 5 sacks
- 75 l
- 100 my
- 575 x 1000 mm

Art. no.	TL	width	kg	PU
393018	1000	575	0,020	1

Waste sack, extra

- LDPE
- Roll containing 10 sacks
- 120 l
- 50 my
- 700 x 1100 mm

Art. no.	TL	width	kg	PU
393020 ✸	1100	700	0,020	1

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Construction foil „Profi“

Optimum protection for all jobs indoors and for all outdoor situations.

- 3 x 10 m
- 200g/m²

Art. no.	TL	width	kg	PU
393030	10000	3000	4,500	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.	TL	width	kg	PU
393028	10000	1000	1,500	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

Wire brushes

Art. no.	TL	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 pan

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	50	0,380	1

Paint scrapers

steel, polished blade, with oval wooden handle

Art. no.		TL	width	kg	PU
150024		185	40	0,043	1
150026	✸	205	50	0,051	1
150028		205	60	0,047	1

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

✸ Best-seller Premium product

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.	TL	kg	PU
150012	160	0,341	1
150029	180	0,341	1

Trowel „Profi“

PREMIUM

- Trowel blade and handle forged from a single piece
- Guaranteed no welding
- Blade hardened
- Conically ground

Art. no.	TL	kg	PU
150033	160	0,341	1
150039	180	0,341	1

Set workshop supplies in a construction 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-pieces**	0,700	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.

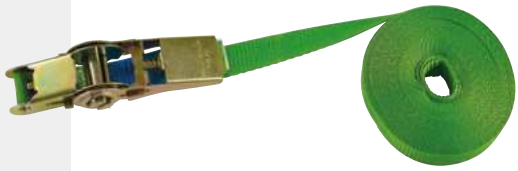
Single lashing belts are used for the strapping of the load. They do not need any connecting elements. If you want to safe heavy objects from turning over or falling down you should use single lashing belts. The clamping elements enable high traction forces without muscle power. Please choose the belt 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.	TL	width	daN	kg	PU
393150	8000	25	400	0,350	1

Lashing belt 400 daN, two-piece with hook

Permitted tensile force 400 daN in a straight line, two-piece with hook.
Manufactured according to DIN EN 12195-2.

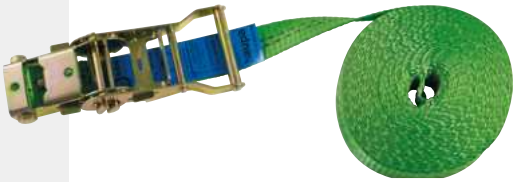
- 800 daN when wrapped
- Colour green
- Belt width 25 mm
- Belt length 8 m
- With mini ratchet

Art. no.	TL	width	daN	kg	PU
393152	8000	25	400	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

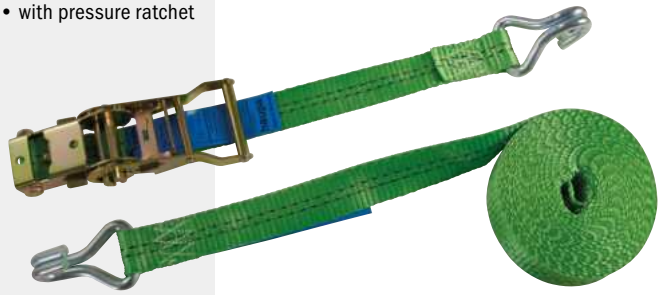


Art. no.	TL	width	daN	kg	PU
393154	8000	35	1000	1,000	1

Lashing belt 1000 daN, 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.	TL	width	daN	kg	PU
393156	8000	35	1000	1,400	1

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

Best-seller Premium product

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 | HAUPA Ladders | HAUPA Ladders | 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

EN 131

Art. no.	Length	Rungs	Retracted	Width	kg	PU
392804	2,3 m	6+2	0,74 m	0,69 m	14,5 kg	1

haupa®
... convincing solutions

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

Art. no.	Length	Rungs	Retracted	Width	kg	PU
392806	3,0 m	8+2	0,79 m	0,76 m	20,0 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
392800	2,6 m	9	0,72 m	0,49 m	8,10 kg	1

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

Best-seller 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

TÜVRheinland ZERTIFIZIERT
Regelmäßige Produktionsüberwachung Sicherheit Bauart geprüft
www.tuv.com ID 1419068699

max. 150 kg

EN 131

Art. no.	Length	Rungs	Retracted	Width	kg	PU
392802	3,8 m	13	0,86 m	0,88 m	15,0 kg	1

Chisels, Hammers

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... convincing solutions

Chisels, centre punches, hatchets

Flat chisels to DIN 6453 A, flat oval shank

chrome vanadium air hardenend steel, painted black, chrome-plated tip

Art. no.		TL	CW	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, painted black, chrome-plated tip

Art. no.		TL	CW	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, painted black, chrome-plated tip

Art. no.		TL	CW	mat/S	mat/S1	kg	PU
180062		250	28	16	16	0,387	1
180064		300	30	18	18	0,595	1

Jointing chisel

chrome vanadium air hardenend steel, painted black, 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.		TL	CW	mat/S	mat/S1	kg	PU
180076	✸	250	26	26	7	0,302	1

Stone chisels, octagonal shank

chrome vanadium air hardenend steel, painted black, chrome-plated tip

Art. no.		TL	CW	mat/S	mat/S1	kg	PU
180082		250	14	14	14	0,358	1
180084		300	16	16	16	0,573	1

Electricians' chisels

chrome vanadium air hardenend steel, painted black, chrome-plated tip

Art. no.		TL	CW	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, painted black, chrome-plated tip

Art. no.	TL	Ø	kg	PU
180120	120	12	0,091	1

Hammers

Firmer chisels DIN 5139

with bevelled edges and polished wooden handle and cutting edge protector

Art. no.	TL	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

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

Pin punch set

painted black, chrome-plated tip, in folding metal case
Contents: Ø 2 - 3 - 4 - 5 - 6 - 8 mm

Art. no.	set	kg	PU
180170	**6-pieces**	0,502	1

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

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

✸ Best-seller Premium product

Claw hammer

American model, 16 Oz, fibreglass handle

Art. no.	size	kg	PU
180323	16	0,748	1

Engineers‘ hammer

English pattern, ball pin

Art. no.	HW	kg	PU
180274	340	0,416	1
180276	450	0,485	1

Engineers‘ hammer DIN 1041

with polished hickory handle, with steel handle protection

Art. no.	HW	kg	PU
180182	200	0,238	1
180184 ✸	300	0,370	1
180186	400	0,470	1
180188	500	0,622	1

Engineers‘ hammer DIN 1041

with steel pipe handle and rubber grip

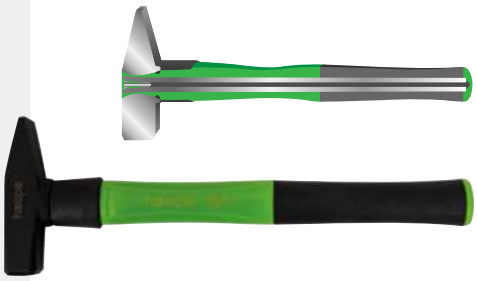
Art. no.	HW	kg	PU
180200	300	0,552	1
180202	500	0,740	1

Fitter's hammer with 3-component handle

NEW

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.	TL	HW	kg	PU
180214	320	300	0,533	1
180218	320	500	0,733	1
180222	320	1000	1,233	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

Sledge hammer to DIN 6475

with polished, fluted hickory handle, with steel handle protection

Art. no.	HW	TL	kg	PU
180300 ✸	1000	260	1,093	1
180302	1250	260	1,375	1

Club hammer with 3-component handle

NEW

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	TL	kg	PU
180301	1000	260	1,230	1

Soft-head hammer

with replaceable cellidor striking faces and ash handle

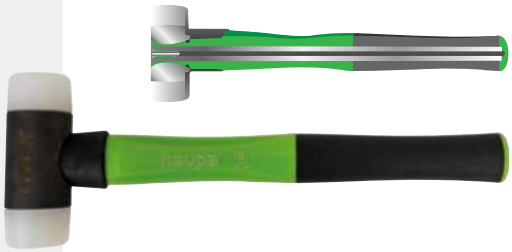
Art. no.	Ø		kg	PU
180334	32		0,328	1
180346		replacement heads	0,460	1

Soft-faced hammer with 3-component handle

NEW

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	HW	kg	PU
180336	32	300	0,690	1
180338	40	500	0,710	1

Spare head for soft-faced hammer

NEW

Spare head made of polyamide for soft-faced hammer with 3-component handle. White polyamide inserts are connected to the middle part by means of a dual-locking attachment system; this guarantees absolute safety at work.

Exchanging heads:
1. Clamp the soft-faced hammer with the worn polyamide head into the vice.
2. Ensure that only the soft-faced hammer is clamped.
3. Press the hammer down or up until the worn head becomes loose.
4. Then press the new spare head slowly onto the soft-faced hammer using the vice.

Art. no.	Ø		kg	PU
180337	32	Spare head	0,017	1
180339	40	Spare head	0,035	1

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

✸ Best-seller Premium product

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.	TL	set	kg	PU
190126	130	**6-pieces**	0,078	1

File assortments

Set: 5 files in plastic wallet, files with plastic handle

Form:
round
square
flat
half round
triangular

Art. no.	TL	set	kg	PU
190130	100	**bastard cut 1**	0,784	1
190132 ✸	200	**smooth cut 3**	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	form	kg	PU
200010	60	straight	0,073	1

Cable stripping knives

with black plastic scales, stainless blade with scraper

Art. no.	BL	form	kg	PU
200011 ✸	60	straight	0,082	1

Cable stripping knives

with wooden scales, blade with scraper

Art. no.	BL	form	kg	PU
200012	60	straight	0,079	1

Cable stripping knives

with wooden scales, blade and reamer

Art. no.	BL	form	kg	PU
200014	60	straight	0,078	1

Cable stripping knives

with wooden scales, blade, reamer and screwdriver, including scraper

Art. no.	BL	form	kg	PU
200016	60	straight	0,089	1

Cable stripping knives

with plastic scales, 2 blades, reamer and screwdriver, including scraper

Art. no.	BL	form	kg	PU
200018	60	straight	0,092	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

Utility metal knives

Cutting of plastic, wallpaper, cardboards, leather, plywood, carpets, with automatic blades locking, reserve blade in the handle

Art. no.	BL	form	kg	PU
200025	9	straight	0,072	1

Snap blades

10-pieces, suitable for article 200025

10 x

Art. no.	BL	form	set	kg	PU
200025/KL	9	straight	**10-pieces**	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	form	kg	PU
200027 ✸	18	straight	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	form	kg	PU
200209	18	straight	0,098	1

Snap blades

10-pieces, suitable for article 200027 | 200209

10 x

Art. no.	BL	form	set	kg	PU
200032	18	straight	**10-pieces**	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, with a trapezoidal blade, for cutting plastics, wallpaper, card, leather, plywood and carpet.

Art. no.	BL	TL	form	kg	PU
200021	22	148	straight	0,105	1

Loose knife, hooked blade

10-pieces, suitable for article 200021

10 x

Art. no.	BL	form	set	kg	PU
200028	20	hooked	**10-pieces**	0,004	1

Loose knife, trapezoidal blade

10-pieces, suitable for article 200021

10 x

Art. no.	BL	form	set	kg	PU
200030	20	trapezoidal	**10-pieces**	0,005	1

Utility knife professional HUPblackSeries9

NEW

- 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

0,38 mm | 9 mm

Art. no.	TL	BL	W	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

- 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	W	ØBL	kg	kg	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.	TL	BL	W	ØBL	kg	PU
200222	167	100	18	0,6	0,111	1

Blade dispenser HUPblades18

suitable for Art. No. 200222

- 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	W	ØBL	kg	kg	PU
200223	100	18	0,6	0,111	1	10

Tin snips, tube cutters

Hole-cutting tin snips

with polished blade, carbon steel, figure cuts (large radii)

Art. no.	TL	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		**loose spare wheels**	0,025	1

Tube cutter

with 1 cutting wheel and dual roller guides, retractable burr remover,
Ø 1/8“ - 1 3/8“

Art. no.	Ø		kg	PU
200194	3-35		0,401	1
200196		**loose spare wheels**	0,006	1

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

Best-seller Premium product

Junior hacksaw

strong frame, nickel-plated

Art. no.	type	Sbl.	kg	PU
200280	metal	150	0,149	1

Junior hacksaw DIN 6473 C

hacksaw blade for metal

Art. no.	type	Sbl.	kg	PU
200284	metal	150	0,069	1

Junior hacksaw

heavy type, with pistol type handle and hacksaw blade for metal, form A

Art. no.	type	Sbl.	kg	PU
200285	metal	150	0,164	1

Junior hacksaw

heavy type, with pistol type handle and hacksaw blade for metal, form A

Art. no.	type	Sbl.	TL	kg	PU
200287	metal	150	260	0,164	1

Hand saw „PUK“

PREMIUM

with hacksaws blade for metal, with fixed, varnished wooden handle

Art. no.	type	Sbl.	kg	PU
200290 ✸	metal	150	0,100	1

Hand saw „PUK“

with adjustable, varnished wooden handle, in plastic bag

Art. no.	type	Sbl.	kg	PU
200292	metal	150	0,119	1

Saw handle for bi-metal saw blade

NEW

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 300mm bi-metal saw blade 24 Z / inch

Art. no.	type	type	Sbl.	kg	PU
200282	metal	universal	300	0,100	1

Hacksaw blades „PUK“

acc. to DIN 6494C, for Art. No. 200292, 200280, 200290, 200284, 200285, 200287, 110558, 12 pieces per packaging unit

Art. no.	type	type	Sbl.	kg	PE	PU
200286	wood	plastic	150	0,036	1	12

Hacksaw blades „PUK“

acc. to DIN 6494C, for Art. No. 200292, 200280, 200290, 200284, 200285, 200287, 110558, 12 pieces per packaging unit

Art. no.	type	type	Sbl.	kg	PE	PU
200288	metal	universal	150	0,036	1	12

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Hacksaw frame

steel pipe with flat oval section, bright chrome-plated, tension bolt made from steel, form A

Art. no.	type	Sbl.	kg	PU
200304 ✸	metal	300	0,408	1

Hacksaw blades to DIN 6494

type A, single sided blade HSS-Bi-metal

Art. no.	type	Sbl.	kg	PU
200310	metal	300	0,016	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

Drilling tools

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... convincing solutions

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

xxxxxx/CO = Cobalt
Packaging unit in blister pack:
1,0 - 3,0 mm; 1 SPU = 2 pieces
3,2 - 13,0 mm; 1 SPU = 1 piece

Art. no.	Ø	core-hole	SL	TL	VE
230010	0,5		6	22	1
230020	1		12	34	1
230020/CO					1
230030	1,5		18	40	1
230030/CO					1
230032	1,6	**M2**	20	43	1
230032/CO					1
230040	2		24	49	1
230040/CO					1
230050	2,5	**M3**	30	57	1
230050/CO					1
230060	3		33	61	1
230060/CO					1
230064	3,2		36	65	1
230064/CO					1
230066	3,3	**M4**	36	65	1
230066/CO					1
230070	3,5		39	70	1
230070/CO					1
230080	4		43	75	1
230080/CO					1
230084	4,2	**M5**	43	75	1
230084/CO					1
230090	4,5		47	80	1
230090/CO					1
230100	5	**M6**	52	86	1
230100/CO					1
230110	5,5		57	93	1
230110/CO					1
230120	6	**M7**	57	93	1
230120/CO					1
230130	6,5		63	101	1
230130/CO					1
230136	6,8	**M8**	69	101	1
230136/CO					1
230140	7		69	109	1
230140/CO					1
230160	8		75	117	1
230160/CO					1
230170	8,5	**M10**	75	117	1
230170/CO					1
230180	9		81	125	1
230180/CO					1
230190	9,5		81	125	1
230190/CO					1
230200	10		87	133	1
230200/CO					1
230204	10,2	**M12**	87	133	1
230204/CO					1
230210	10,5		87	133	1
230210/CO					1
230220	11		87	133	1
230220/CO					1
230230	11,5		94	142	1
230230/CO					1
230240	12	**M14**	101	151	1
230240/CO					1
230244	12,5		101	151	1
230244/CO					1
230250	13		101	151	1
230250/CO					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.	Ø	set	kg	PU
230312	1 - 10	**19-pieces**	0,312	1
230312/R	1 - 10		0,284	1
230312/TIN	1 - 10		0,345	1
230314	1 - 13	**25-pieces**	1,270	1
230314/R	1 - 13		1,213	1
230314/TIN	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.
Contents: 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-pieces**	4,550	1

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

Best-seller Premium product

Auger bit, type Lewis

Art. no.	TL	Ø	kg	PU
231502	460	6	0,005	1
231508	235	10	0,098	1
231516	235	14	0,005	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	0,005	1

Drill type machine bits for wood

made from carbon steel, concentrically ground, with centre point and front cutter

Art. no.	TL	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.	TL	Ø	shank	kg	PU
230732	150	10	6	0,041	1
230734	150	12	6	0,041	1
230736	150	14	6	0,048	1
230738	150	16	6	0,051	1
230740	150	18	6	0,047	1
230742	150	20	6	0,045	1
230746	150	24	6	0,045	1

Casing drill

With cylindrical clamping shaft, cutting element made of chrome vanadium steel

Art. no.	TL	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

Drills

Masonry drills DIN 8039

carbide tipped, with straight shank, each piece in plastic pocket

Art. no.	TL	Ø	CL	kg	PU
230330	70	3	40	0,003	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	0,092	1

Masonry drills DIN 8039

carbide tipped, with straight shank, each piece in plastic pocket

Art. no.	TL	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

High-Helix Masonry drill bit, sand blasted, countersink construction, professional quality

Art. no.	TL	Ø	kg	PU
231700	70	3	0,007	1
231702	85	4	0,011	1
231704	95	5	0,017	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.	TL	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
230438/B	160	6,5	100	0,047	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	0,171	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

Contents: 5, 6, 8 x 110 / 6, 8, 10, 12 x 160

Art. no.	set	kg	PU
230479	**7-pieces**	0,679	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.	TL	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

SDS-hammer drill sets

Contents: 5, 6 x 110, 6, 8, 10 x 160

Art. no.	set	kg	PU
230979	**5-pieces**	0,261	1

PU Packing unit PE Price unit

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✸ Best-seller Premium product

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.	shankt/Ø	min./Ø	max./Ø	kg	PU
231319 ✷	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 - 38,5 mm (M10 – M40)

Art. no.	shankt/Ø	min./Ø	max./Ø	kg	PU
231326	12	8,5	38,5	0,208	1

PDF

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	21	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	9	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 assortment/HSS

3 pieces, for mechanical engineering and tinsmith working, with 2 cutters.

Contents:
Ø 4 - 12 mm, Ø 12 - 20 mm, Ø 20 - 30 mm

Art. no.	Ø	set	kg	PU
231327	4 - 30	**3-pieces**	0,597	1

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

Cone drills

Cone drills/Aerial drills/HSS

for edgefree drilling of thin material

Art. no.		shankt/Ø	min./Ø	max./Ø	kg	PU
231300		6	3	14	0,027	1
231301		8	6	20	0,055	1
231330		8	6	22,5	0,085	1
231302		10	16	30	0,139	1
231304		12	26	40	0,265	1
231305	✸	10	6	30	0,166	1
231306		12	36	50	0,350	1
231307		13	46	60	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-pieces**	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	M 10 x 1,0	0,048	1
180532	M 12 x 1,5	0,070	1
180534	M 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	H²O H²O	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 PE Price unit

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

✸ Best-seller 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	shank	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	kg	PU
230676/K	68	SDS-plus	0,672	1
230677/K	82	SDS-plus	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	kg	PU
230885/K	68	SDS-plus	0,450	1
230886/K	82	SDS-plus	0,787	1

Drill for Diamond hollow core cutters

tapered shank

Art. no.	TL	Ø	kg	PU
230679	120	9	0,044	1

Shank for hollow core cutters, SDS-Plus

SDS-Plus-shank, M 16, conic

Art. no.	TL	shank	kg	PU
230681/K	100	SDS-plus	0,150	1

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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	135	**(FUBAG)**	0,193	1
230721	140	**(FLEX)**	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

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

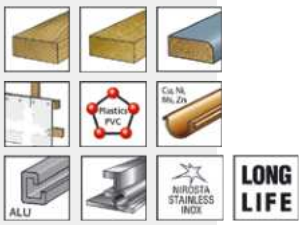
Diamond cutting disk „Spezial“

PREMIUM

Short-toothed vacuum coating of a new generation for metal work. High diamond concentration enables the processing of materials impossible with traditional diamond tools.

- 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

Video 230727



Art. no.		Ø	kg	PU
230727		115	0,120	1
230731	✸	125	0,134	1

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

✸ Best-seller PREMIUM 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

PREMIUM

LONG LIFE

Art. no.	Ø	St	drill-Ø	kg	PU
392100	16	12	6,5	0,095	1
392102	20	31	6,5	0,115	1
392104	22	31	6,5	0,135	1
392106	22,5	31	6,5	0,155	1
392108	25	31	6,5	0,175	1
392110	30	31	6,5	0,195	1
392112	32	31	6,5	0,215	1
392114	35	31	6,5	0,235	1
392116	40	31	6,5	0,255	1
392118	50	31	6,5	0,275	1
392120	60	31	6,5	0,295	1

T.C.T. center drill for hole saw arbors

Art. no.	TL	Ø	kg	PU
392122	100	6,5	0,020	1

Spring for hole saw arbors

Art. no.		kg	PU
392124	**spring**	0,005	1

T.C.T. Hole Saw Fastcut

PREMIUM

Very fast and aggressive cut in wood due to large exhaust slots.
Especially for: wood materials up to 60 mm.

Video

LONG LIFE

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

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	0,036	1
392052	19	31	6,5	0,039	1
392054	20	31	6,5	0,046	1
392056	21	31	6,5	0,052	1
392058	22	31	6,5	0,055	1
392060	24	31	6,5	0,059	1
392062	25	31	6,5	0,064	1
392064	29	31	6,5	0,070	1
392066	30	31	6,5	0,077	1
392070	38	31	6,5	0,092	1
392072	40	31	6,5	0,098	1

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, softwood, plywood, Fermacell etc.
- 9,5 mm hexagonal holder
- In plastic box

Art. no.	Ø/Inch	Ø	drill-Ø	St	kg	PU
231929	2 11/16	68	6,35	35	0,360	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	0,050	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	0,050	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	0,050	1
231914 ✸	1 9/16	40	35	6,35	0,086	1
231914/46		46	30	6,5	0,050	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	0,050	1
231940	4 1/2	114	35	6,35	0,549	1
231940/127		127	30	6,5	0,050	1
231940/152		152	30	6,5	0,650	1
231940/210		210	30	6,5	0,850	1

PU Packing unit PE Price unit

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

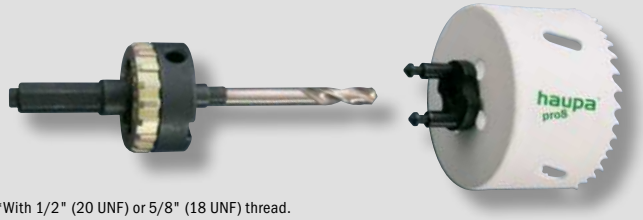
✸ Best-seller Premium product

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

Video

PREMIUM

Art. no.	size	shankt/Ø	kg	PU
392010	14 - 210	9,5	0,100	1

Adapter assortment for holder „RE-LOAD“ RE-LOAD

PREMIUM

Art. no.	set	kg	PU
392012	**5 x Ø 14-30 mm**	0,100	1
392014	**5 x Ø 32-210 mm**	0,075	1
392016	**2 x Ø 14-30 mm, 3 x Ø 32- 210 mm**	0,065	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.	size	shankt/Ø	kg	PU
392018	14 - 210	9,5	0,050	1

Centre drill for holder „RE-LOAD“ RE-LOAD

Art. no.	TL	Ø	kg	PU
392020	100	6,5	0,030	1

Hex shank with plug ejection

hexagon shank

Art. no.	size	shankt/Ø	kg	PU
392028	32 - 210	9,5	0,050	1

SDS-shank

11 mm (14 - 30 mm)

Art. no.	size	shankt/Ø	kg	PU
392024	14 - 30	11	0,050	1

SDS-shank

11 mm (32 - 210 mm)

Art. no.	size	shankt/Ø	kg	PU
392026	32 - 210	11	0,050	1

Centre drill for holder 392024 | 392026 | 392028

Art. no.	TL	Ø	kg	PU
392022	100	6,5	0,030	1

Adapter „QuickLock“

hexagon shank

Art. no.	size	shank	kg	PU
231998	14 - 30	hexagon	0,067	1
231999 ✸	32 - 152	hexagon	0,107	1

Centre drills for 231998 / 231999

Art. no.	TL	type	Ø	shank	kg	PU
232007	120	universal	9	hexagon	0,020	1

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Bi-metal hole saw set

RE-LOAD

Set in black plastic case, dimensions: 255 x 210 x 72 mm

Contents:
- 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

Video

Art. no.	Content	kg	PU
231984	**7-pieces**	1,300	1

Bi-metal hole saw set „QuickChange“

Set in black plastic case, dimensions: 255 x 210 x 72 mm

Contents:
- 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“

Video

Art. no.	Content	kg	PU
230002	**7-pieces**	1,785	1

Compass saw set bi-metal

9-recess set in a black plastic case, variable toothing with 4/6 teeth, high-quality, 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)

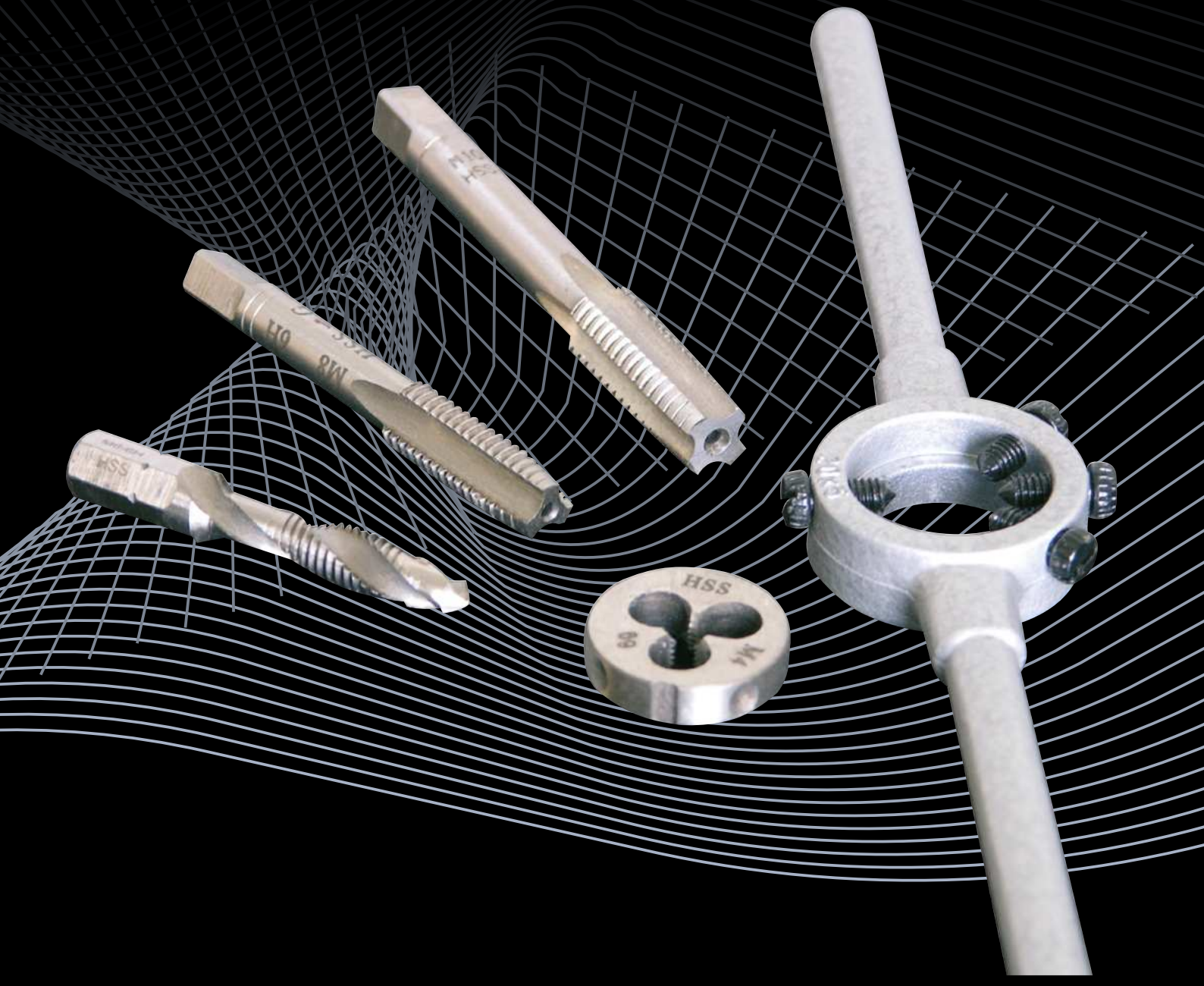
Art. no.	Content	kg	PU
232011	**9-pieces**	1,850	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Drilling tools



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HSS taps "Direct cutter"

with intermittent teeth, dimensions to DIN 371, or ISO metric thread to DIN 13

Art. no.	shank	thread	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.	thread	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	21	0,850	1

Nipple threading dies

with guide, replaceable dies and taps

Art. no.	thread	kg	PU
140190	M 10	0,100	1
140192	M 13	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

Complete stocks, metric thread

Art. no.	thread	kg	PU
140214	M 16, M 20, M 25	1,000	1
140216	M 20, M 25	1,350	1
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	M20	0,138	1
140226	47 x 47	M25	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.	thread	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

PU Packing unit PE Price unit

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

Best-seller Premium product

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.	shankt/Ø	thread	kg	PU
230800	2,5	1	0,010	1
230802	2,5	1,4	0,010	1
230804	2,5	1,6	0,002	1
230806	2,5	1,8	0,002	1
230808	2,8	2	0,002	1
230810	2,8	2,2	0,002	1
230812	2,8	2,5	0,002	1
230814	3,5	3	0,003	1
230816	4	3,5	0,004	1
230818	4,5	4	0,004	1
230820	5,5	4,5	0,005	1
230822	6	5	0,034	1
230824	6	6	0,035	1
230826	6	7	0,039	1
230828	6	8	0,046	1
230830	7	9	0,065	1
230832	7	10	0,071	1
230834	8	11	0,025	1
230836	9	12	0,115	1
230838	11	14	0,052	1
230840	12	16	0,062	1
230842	14	18	0,102	1
230844	16	20	0,125	1
230846	18	22	0,182	1
230848	18	24	0,205	1
230850	20	27	0,260	1
230852	22	30	0,395	1
230854	25	33	0,480	1
230856	28	36	0,645	1
230858	32	39	0,820	1
230860	32	42	0,930	1
230862	36	45	1,140	1
230864	36	48	1,370	1
230866	40	52	1,650	1
230868	45	56	2,800	1
230870	45	60	2,900	1

Ratchet wrenches

for right-hand and left-hand action

art. 231072

art. 231070

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

HSS taps set

with taps to DIN 352, in metal box,
Contents: M3, M 4, M 5, M 6, M 8, M 10, M 12

Art. no.	set	kg	PU
231080	**23-pieces**	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
Contents: M 3, 4, 5, 6, 8, 10

Art. no.	set	kg	PU
231082	**7-pieces**	0,188	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

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HSS Tap set

Contents:
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	**23-pieces**	3,700	1

HSS Tap set

Contents:
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	**25-pieces**	8,200	1

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

Best-seller Premium product

Screws, dowels

haupa®

... convincing solutions

Universal countersunk screw

Chipboard screw, galvanised, counter-sunk head, Pozidriv

Art. no.	TL	Ø		drive	kg	PE	PU
790005	15	3,0	PZ	2	0,002	100	200
790006	25	3,0	PZ	2	0,002	100	200
790008	40	3,0	PZ	2	0,002	100	200
790015	20	3,5	PZ	2	0,001	100	200
790016	25	3,5	PZ	2	0,001	100	200
790017	30	3,5	PZ	2	0,002	100	200
790018	35	3,5	PZ	2	0,002	100	200
790079	40	3,5	PZ	2	0,002	100	200
790027 ✸	30	4,0	PZ	2	0,002	100	200
790029 ✸	40	4,0	PZ	2	0,002	100	200
790030 ✸	45	4,0	PZ	2	0,003	100	200
790031	50	4,0	PZ	2	0,003	100	200
790040	35	4,5	PZ	2	0,003	100	200
790041 ✸	40	4,5	PZ	2	0,003	100	200
790043	50	4,5	PZ	2	0,004	100	200
790051	30	5,0	PZ	2	0,003	100	100
790053	40	5,0	PZ	2	0,004	100	100
790054	50	5,0	PZ	2	0,005	100	100
790055	60	5,0	PZ	2	0,005	100	100
790056	80	5,0	PZ	2	0,007	100	100
790063	50	6,0	PZ	3	0,007	100	100
790064	60	6,0	PZ	3	0,008	100	50
790065	80	6,0	PZ	3	0,011	100	50

Universal pan head screw

Fibreboard screws, galvanised, pan head Pozidriv

Art. no.	TL	Ø		drive	kg	PE	PU
790090	25	3,5	PZ	2	0,002	100	200
790091	30	3,5	PZ	2	0,002	100	200
790093	40	3,5	PZ	2	0,002	100	200
790100	30	4,0	PZ	2	0,002	100	200
790101	35	4,0	PZ	2	0,002	100	200
790102 ✸	40	4,0	PZ	2	0,003	100	200
790103	45	4,0	PZ	2	0,003	100	200
790104	50	4,0	PZ	2	0,003	100	200
790111	40	4,5	PZ	2	0,004	100	200
790112	45	4,5	PZ	2	0,004	100	200
790113	50	4,5	PZ	2	0,004	100	200
790118	30	5,0	PZ	2	0,004	100	200
790120	40	5,0	PZ	2	0,005	100	200
790121	50	5,0	PZ	2	0,005	100	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.	TL	Ø	WS		kg	PE	PU
790212/V	80	6	10	Hexagon	0,015	100	25
790223/V ✸	60	8	13	Hexagon	0,021	100	25
790224/V	80	8	13	Hexagon	0,027	100	25
790235/V	60	10	17	Hexagon	0,036	100	10

Dry wall screws

galvanised, counter-sunk head, Tx

Art. no.	TL	Ø		drive	kg	PE	PU
790920	32	3,9	Torx	20	0,002	100	200
790922	41	3,9	Torx	20	0,002	100	200

Hexagonal wood screws

in accordance with DIN 571, galvanised, general requirements according to DIN 267 Part 1

Art. no.	TL	Ø	WS		kg	PE	PU
790210	40	6	10	Hexagon	0,008	100	50
790211	60	6	10	Hexagon	0,012	100	25
790212	80	6	10	Hexagon	0,015	100	25
790222	50	8	13	Hexagon	0,018	100	50
790223	60	8	13	Hexagon	0,021	100	25
790224	80	8	13	Hexagon	0,027	100	25
790225	100	8	13	Hexagon	0,033	100	25
790235	60	10	17	Hexagon	0,036	100	10
790236	80	10	17	Hexagon	0,048	100	10
790237	100	10	17	Hexagon	0,055	100	10

Hooks

galvanised

Art. no.	Ø	SftL		kg	PE	PU
790900	4,2	50		0,006	100	50
790902	5,8	80		0,008	100	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.	TL	Ø		drive	kg	PE	PU
790303	19	3,5	Phillips PH	2	0,001	100	100
790311	32	3,5	Phillips PH	2	0,002	100	100
790325	13	4,2	Phillips PH	2	0,001	100	100
790326	16	4,2	Phillips PH	2	0,001	100	100
790327	19	4,2	Phillips PH	2	0,001	100	100
790329	25	4,2	Phillips PH	2	0,002	100	100
790332	31	4,2	Phillips PH	2	0,002	100	100
790333	38	4,2	Phillips PH	2	0,003	100	100
790334	45	4,2	Phillips PH	2	0,003	100	100
790335	65	4,2	Phillips PH	2	0,005	100	100

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

Tin screws, assembly screws

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.	TL	Ø		drive	kg	PE	PU
790411	13	3,5	Phillips PH	2	0,001	100	200
790413	19	3,5	Phillips PH	2	0,001	100	200
790416	13	3,9	Phillips PH	2	0,001	100	200
790417	16	3,9	Phillips PH	2	0,002	100	200
790419	25	3,9	Phillips PH	2	0,002	100	200
790422	13	4,2	Phillips PH	2	0,002	100	200
790423	16	4,2	Phillips PH	2	0,002	100	200
790424	19	4,2	Phillips PH	2	0,002	100	200
790426	25	4,2	Phillips PH	2	0,002	100	200
790428	32	4,2	Phillips PH	2	0,002	100	200
790432	13	4,8	Phillips PH	2	0,002	100	200
790433	16	4,8	Phillips PH	2	0,003	100	200
790434	19	4,8	Phillips PH	2	0,003	100	200
790436	25	4,8	Phillips PH	2	0,003	100	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.	TL	Ø		drive	kg	PE	PU
790510	13	4,2	Torx	20	0,002	100	100
790512	16	4,2	Torx	20	0,002	100	100
790514	19	4,2	Torx	20	0,002	100	100
790516	25	4,2	Torx	20	0,002	100	100

Mounting screws

galvanised with washer, Philips cross-head, self-cutting

Art. no.	TL	Ø		drive	kg	PE	PU
790450	13	4,2	Phillips PH	2	0,001	100	100
790452	25	4,2	Phillips PH	2	0,002	100	100
790454	31	4,2	Phillips PH	2	0,002	100	100
790456	45	4,2	Phillips PH	2	0,003	100	100

Mounting screws

self-cutting and self-boring, galvanised with washer, Tx

Art. no.	TL	Ø		drive	kg	PE	PU
790500	13	4,2	Torx	20	0,001	100	100
790502	19	4,2	Torx	20	0,002	100	100
790504	25	4,2	Torx	20	0,002	100	100

Mounting screws

self-cutting and self-boring, galvanised with washer, Philips cross-head

Art. no.	TL	Ø		drive	kg	PE	PU
790470 ✷	13	4,2	Phillips PH	2	0,001	100	100

Machinery screws, cylinder screws

Hexagonal machine screws

according to DIN 933, continuous thread, galvanised, 8.8 quality

Art. no.	TL	Ø	WS	kg	PE	PU
790540	20	M6	10	0,006	100	100
790542	25	M6	10	0,007	100	100
790544	30	M6	10	0,008	100	100
790562	20	M8	13	0,012	100	100
790564	25	M8	13	0,014	100	100
790566	30	M8	13	0,016	100	100
790588	20	M10	17	0,023	100	100
790592	30	M10	17	0,028	100	100
790616	30	M12	19	0,040	100	50
790618	40	M12	19	0,047	100	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.	TL	Ø		drive	kg	PE	PU
790806	16	M3	slot	5,5x0,8	0,001	100	200
790808	20	M3	slot	5,5x0,8	0,001	100	200
790832	16	M4	slot	7,0x1,2	0,002	100	200
790834	20	M4	slot	7,0x1,2	0,002	100	200
790837	30	M4	slot	7,0x1,2	0,003	100	200
790862	16	M5	slot	8,5x1,2	0,003	100	200
790864	20	M5	slot	8,5x1,2	0,004	100	200
790867	30	M5	slot	8,5x1,2	0,005	100	200
790882	16	M6	slot	10,0x1,6	0,005	100	200
790884	20	M6	slot	10,0x1,6	0,055	100	200
790888	30	M6	slot	10,0x1,6	0,007	100	200

Machine screw counter sunk

continuous thread, zinc-plated, pan headed Pozidriv

Art. no.	TL	Ø		drive	kg	PE	PU
790700	20	M3	Pozidriv PZ	2	0,001	100	100
790702	30	M3	Pozidriv PZ	2	0,001	100	100
790704	40	M3	Pozidriv PZ	2	0,002	100	100
790706	50	M3	Pozidriv PZ	2	0,002	100	100
790710	20	M4	Pozidriv PZ	2	0,002	100	100
790712	30	M4	Pozidriv PZ	2	0,003	100	100
790714	40	M4	Pozidriv PZ	2	0,003	100	100
790716	50	M4	Pozidriv PZ	2	0,004	100	100
790721	25	M5	Pozidriv PZ	2	0,004	100	100
790722	30	M5	Pozidriv PZ	2	0,004	100	100
790724	40	M5	Pozidriv PZ	2	0,005	100	100
790726	50	M5	Pozidriv PZ	2	0,007	100	100

Hexagonal nut DIN 934

in accordance with ISO 4032, EN 24032 or DIN 934, steel galvanised, 8 quality

Art. no.	M	WS	kg	PE	PU
792000	M3	5,5	0,001	100	200
792001	M4	7	0,001	100	200
792002	M5	8	0,001	100	200
792003	M6	10	0,002	100	200
792005	M8	13	0,005	100	200
792006	M10	17	0,011	100	200
792008	M12	19	0,010	100	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	PE	PU
792600	M3	3,2	7	0,000	100	200
792602	M4	4,3	9	0,000	100	200
792603	M5	5,3	10	0,001	100	200
792604	M6	6,4	12	0,001	100	200
792606	M8	8,4	16	0,002	100	200
792607	M10	10,5	20	0,003	100	200

Washers

in accordance with ISO 7093, DIN 9021N, zinc-plated steel

Art. no.	M	d1	d4	kg	PE	PU
792650	M4	4,3	12	0,001	100	100
792651	M5	5,3	15	0,001	100	100
792652	M6	6,4	20	0,012	100	100
792654	M8	8,4	25	0,011	100	100
792656	M10	10,5	40	0,010	100	100
792658	M12	13,0	40	0,010	100	100

Spring washers

according to DIN 127, form A, curved, zinc-plate steel

Art. no.	M	d1	d4	kg	PE	PU
792756	M6	6,4	11,8	0,001	100	100
792758	M8	8,4	14,8	0,002	100	100
792760	M10	10,5	18,1	0,003	100	100
792762	M12	13,0	21,1	0,004	100	100

"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.	Cont.	empty	kg	PE	PU
792802	**1.425 pcs**	221131	5,022	1	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.	Cont.	empty	kg	PE	PU
792804 ✷	**1.700 pcs**	221131	6,000	1	1

PU Packing unit PE Price unit

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

✷ Best-seller Premium product

“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.	Cont.	empty	kg	PE	PU
792806	**1.800 pcs**	221131	5,000	1	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.	Cont.	empty	kg	PE	PU
792810	**1.800 pcs**	221131	5,000	1	1

„Mix“ Screws and dowel assortment box

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.	Cont.	empty	kg	PE	PU
792821	**1.125 pcs**	221131	5,000	1	1

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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.	Cont.	empty	kg	PE	PU
220389	**1.650 pcs**	220370	7,000	1	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.	Cont.	empty	kg	PE	PU
220398	**2.000 pcs**	220370	5,000	1	1

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

Best-seller Premium product

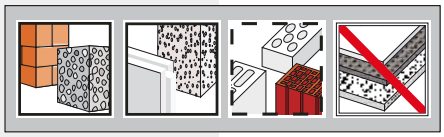
Push-through expansion dowel

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

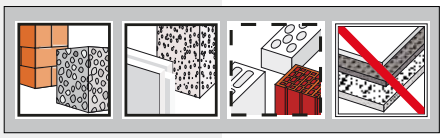
Expansion dowel sleeve

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

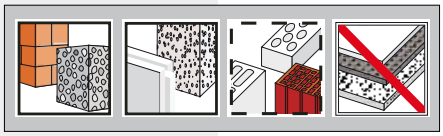
Universal metal dowel

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

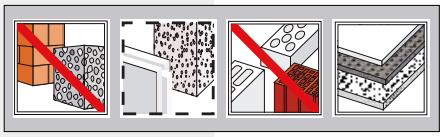
Plasterboard dowel with setting tool

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

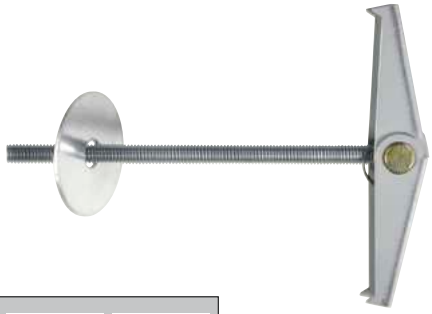
Spring toggle

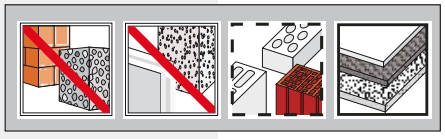
Suitability

- Plasterboard and gypsum fibreboard, chipboard, fibre cement board, cavity brick covers, hollow body covers

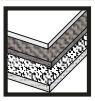
Features

- 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

Concrete	
Natural stone	
Full bricks	
Porous concrete (aerated concrete)	
Full plasterboard panels	
Perforated bricks	
Hollow concrete blocks	
Plasterboard panels	
Boards/panels	

PU Packing unit PE Price unit

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

Best-seller Premium product

Tool cases

haupa®

... convincing solutions

Classification for tool cases | Specifications

Legend

- ABS rigid case
- maximum load
- with document compartment
- with lock
- with lock (TSA)
- 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

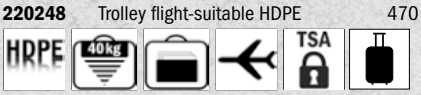
220031 Tool case „Start up Profi“ 470 x 200 x 360 mm

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

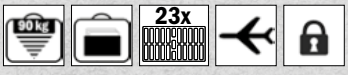
220042 Tool case „Omega Max“ 470 x 200 x 360 mm

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/green.

Art. no.	width	depth	height	kg	PU
220103	150	30	260	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/green.

Art. no.	width	depth	height	kg	PU
220105	200	100	300	0,326	1

Belts and jackets

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/green

Art. no.	width	depth	height	kg	PU
220224	880	30	280	0,350	1

Backpacks

Tool backpack “HUPtoGo”

NEW

Work on the go with the new HAUPA tool backpack “HUPtoGo”

- 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

Art. Nr.	Breite	Tiefe	Höhe	kg	VE
220249	400	260	450	3,000	1

HAUPA “Backpack“

Tool backpack, 3 compartments can be hinged upwards to the ground, front: without further inner compartments, middle: compartments for tools, rear: compartments with pockets and flaps for tools or notebook + accessoires, padded shoulder straps, lap belt, removable pad for working in a kneeling or sitting position, water and dirt resistant, material: extra strong 1680D polyester, colour: black with green stiching.

Art. no.	width	depth	height	kg	PU
220265	440	220	500	1,990	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/green.

Art. no.	width	depth	height	kg	PU
220061 ✷	320	190	280	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/green.

XL

Art. no.	width	depth	height	kg	PU
220366	420	220	310	2,000	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/green.

Art. no.	width	depth	height	kg	PU
220095	410	240	320	1,937	1

HAUPA “ProBag“

PREMIUM

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.

Art. no.	width	depth	height	kg	PU
220368	420	300	430	2,500	1

“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	depth	height	kg	PU
220292	510	220	335	3,000	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: green, black

Art. no.	width	depth	height	kg	PU
220703	260	260	230	1,580	1

HAUPA „ToolContainer“

Tool bag made of 600D Polyester

- open spacious main compartment with carrier bar of metal and anti-slip grip
- big removeable protective cover made of polyester, with velcro fastening
- outside: 7 open storage bags and 3 bags with velcro fastening
- inside: 4 open storage bags, 2 buffering belts made of polyester and 2 holder of metal for measuring tapes
- adjustable, removeable shoulder strap, padded
- removeable belt pouch with 4 compartments to organize tools

Art. Nr.	width	depth	height	kg	PU
220704	510	320	250	3,080	1

Tool sets

Tool wallets

of black linen, with leather strap fastening

Art. no.	width	depth	kg	PU
220006	600	310	0,452	1

Tool sets 1000 V

VDE/GS - Tool wallets “Rebell“

in red coloured wallet

Art. no.	width	depth	height	kg	PU
220016	300	50	230	0,814	1

Tool holder

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!

Art. no.	width	depth	height	kg	PU
220313	460	40	280	0,700	1

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/green.

Content:
- 2C combination pliers
- 2C electricians’ screwdriver
- 2C cross slotted screwdriver PH
- Cable stripper, manual
- VDE/GS Voltage tester

Art. no.	set	empty	kg	PU
220506	**5-pieces**	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

Art. no.	set	empty	kg	PU
220213	**8-pieces**	220105	2,222	1

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

Best-seller Premium product

Tool bag 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, 200 mm
- 2C side cutters, 160 mm
- 2C electrician’s screwdriver
- 2C cross slotted screwdrivers PH, size 1 and 2
- Voltage tester “Basic”
- Cable knife, 1-piece

1000 V IEC 60900

Art. no.		set	empty	kg	PU
220211	✷	**7-pieces**	220105	1,723	1

Belts and jackets

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-Electricians’ screwdriver 5,5x125 mm
- 2C-VDE-Electricians’ screwdriver 3x100 mm
- 2C-VDE-Cross slotted screwdrivers PH 2
- Measuring tape 3 m
- 2C-Combination pliers 180 mm
- 2C-Side cutters 160 mm
- Voltage tester, black | 125-250 V
- Utility metal knive
- Wire stripper, hooked blade, 8-28 mm Ø
- Cable cutter with stripping function

Art. no.	set	empty	kg	PU
220280	**10-pieces**	220224	2,120	1

Tool belts 1000 V

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“

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220281 ✷	**16-pieces**	220224	2,740	1

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“

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Art. no.	set	empty	kg	PU
220282	**8-pieces**	220224	2,020	1

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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

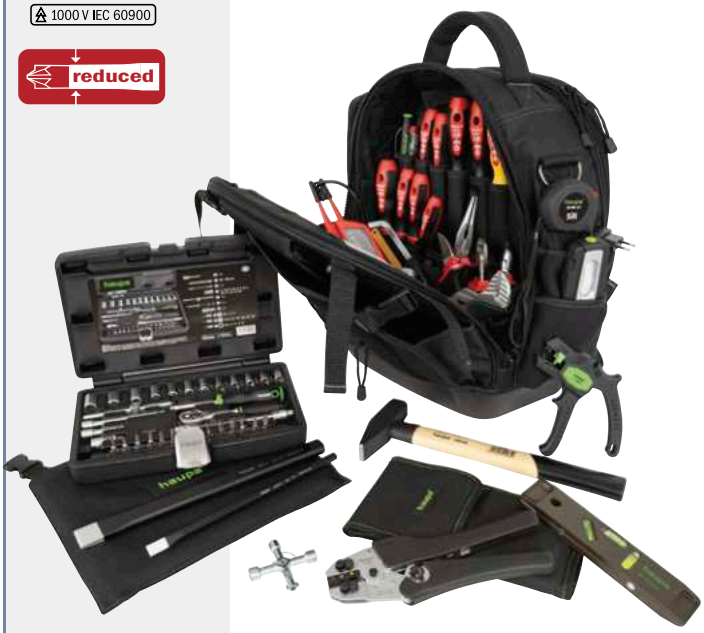
With professional equipment 220830 ideal for quick use, thanks to HAUPA professional tools.

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
- 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

* perfected cutting force performance

1000 V IEC 60900

reduced



Art. no.	set	empty	kg	PU
220830	**31-pieces**	220249	10,94	1

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

1000 V IEC 60900

reduced

Art. no.	set	empty	kg	PU
220831	**21-pieces**	220249	5,700	1

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

Best-seller Premium product

BackpackPro “Basic 1000 V”

Tool backpack for the professional user, 3 compartments can be hinged upwards to the ground, front: without further inner compartments, middle: compartments for tools, rear: compartments with pockets and flaps for tools or notebook + accessoires, padded shoulder straps, lap belt, removable pad for working in a kneeling or sitting position, comes complete with 11 tools, water and dirt resistant, material: **extra strong 1680D polyester,** colour: black with green stiching. BackpackPro 220265.

Content:

- Screwdrivers set 1000 V, Phillips, 6 pieces
  Content: Electricians’ screwdriver 1000 V
  2.5 x 75 mm / 4 x 100 mm / 5.5 x 125 mm / 6.5 x 150 mm,
  Cross slotted screwdrivers 1000 V, Phillips size 1 and 2
- Combination pliers 1000 V, 180 mm
- Side cutters 1000 V, 160 mm
- Long chain nose pliers 1000 V, straight, 200 mm
- Cable cutters 1000 V, 200 mm
- Voltage tester 120-250 V, loose

1000 V IEC 60900

Art. no.	set	empty	kg	PU
221277	**11-pieces**	220265	3,710	1

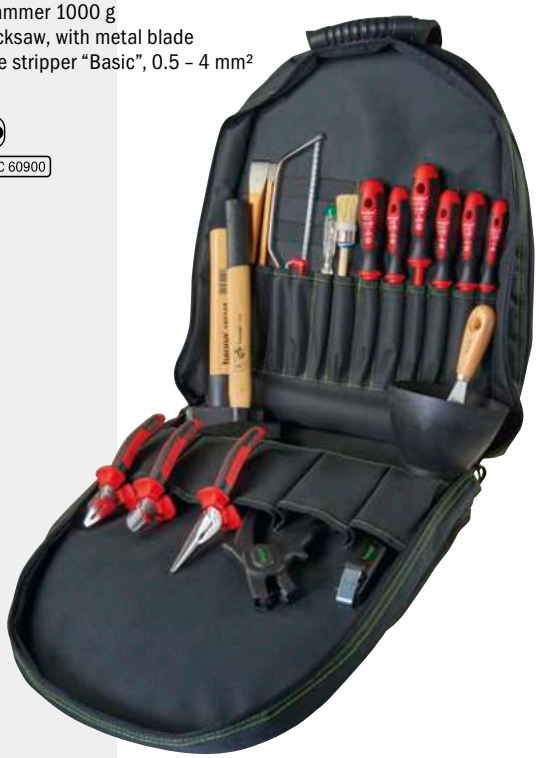
BackpackPro “Start 1000 V”

Tool backpack for the trainee, 3 compartments can be hinged upwards to the ground, front: without further inner compartments, middle: compartments for tools, rear: compartments with pockets and flaps for tools or notebook + accessoires, padded shoulder straps, lap belt, removable pad for working in a kneeling or sitting position, comes complete with 20 tools, water and dirt resistant, material: **extra strong 1680D polyester,** colour: black with green stiching. BackpackPro 220265.

Content:

- Screwdrivers set 1000 V, Phillips, 6 pieces
  Content: Electricians’ screwdriver 1000 V
  2.5 x 75 mm / 4 x 100 mm / 5.5 x 125 mm / 6.5 x 150 mm,
  Cross slotted screwdrivers 1000 V, Phillips size 1 and 2
- Combination pliers 1000 V, 180 mm²
- Side cutters 1000 V, 160 mm²
- Long chain nose pliers 1000 V, straight, 200 mm²
- Voltage tester 120-250 V, loose
- Cable stripping knive “Safety”, without hook blade, 8 – 28 mm²
- Industrial ring brush, size 4
- Plaster cups
- Paint scrapers 40 mm
- Stone chisels, flat oval shank, 28 x 250 mm
- Electricians’ chisels, 10 x 250 mm
- Engineers‘ hammer 300 g
- Sledge hammer 1000 g
- Junior hacksaw, with metal blade
- Super wire stripper “Basic”, 0.5 – 4 mm²

1000 V IEC 60900



Art. no.	set	empty	kg	PU
221280	**20-pieces**	220265	5,200	1

BackpackPro “Basic plus 1000 V”

Tool backpack for the professional user, 3 compartments can be hinged upwards to the ground, front: without further inner compartments, middle: compartments for tools, rear: compartments with pockets and flaps for tools or notebook + accessoires, padded shoulder straps, lap belt, removable pad for working in a kneeling or sitting position, comes complete with 19 tools, water and dirt resistant, material: **extra strong 1680D polyester,** colour: black with green stiching. BackpackPro 220265.

Content:

- Screwdrivers set 1000 V, Phillips, 6 pieces
  Content: Electricians’ screwdriver 1000 V
  2.5 x 75 mm / 4 x 100 mm / 5.5 x 125 mm / 6.5 x 150 mm,
  Cross slotted screwdrivers 1000 V, Phillips size 1 and 2
- Combination pliers 1000 V, 180 mm²
- Side cutters 1000 V, 160 mm²
- Long chain nose pliers 1000 V, bent, 200 mm²
- Voltage tester “TestPen Profi”, 12 – 1000 V
- Cable stripping knive “Basic”, with hook blade, 8 – 28 mm²
- Super wire stripper “Basic”, 0.5 – 4 mm²
- Industrial ring brush, size 4
- Paint scrapers 40 mm
- Electricians’ chisels 10 x 250 mm
- Engineers‘ hammer 300 g
- Cable stripping knives, with wooden scales
- Hand saw “PUK”, with fixed handle
- Measuring tapes 3 m

1000 V IEC 60900

Art. no.	set	empty	kg	PU
221278	**19-pieces**	220265	4,650	1

BackpackPro “Operator 1000 V”

Tool backpack for the professional user, 3 compartments can be hinged upwards to the ground, front: without further inner compartments, middle: compartments for tools, rear: compartments with pockets and flaps for tools or notebook + accessoires, padded shoulder straps, lap belt, removable pad for working in a kneeling or sitting position, comes complete with 22 tools, water and dirt resistant, material: **extra strong 1680D polyester,** colour: black with green stiching. BackpackPro 220265.

Content:

- “Vario” 1000 V replaceable blade system, Phillips, 10 pcs.
  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, PZ/FL 2, switch cabinet key – square 1, double-bit
- Combination pliers 1000 V, 180 mm²
- Side cutters 1000 V, 160 mm²
- Long chain nose pliers 1000 V, straight, 200 mm²
- Cable cutters 1000 V, 200 mm
- Water pump pliers 1000 V, 240 mm
- “Multi Check II” - digital high-capacity multimeter
- Voltage tester “Profi LEDplus III” 6 – 1000 V
- Automatic wire stripper “Super Plus” 0.2 – 6 mm²
- Cable knife 1000 V, with straight blade
- Spanners for switch-cabinets, “HUPkey”
- Mini working light “HUPlight4”, LED 4 Watt
- Measuring tapes 3 m

1000 V IEC 60900

Art. no.	set	empty	kg	PU
221279	**22-pieces**	220265	5,570	1

HAUPA “ToolBag“

Tool bag 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 outside (various sizes), 10 compartments inside (various sizes), belt for spirit level (outside), material: extra strong 600D polyester, colour: black/green.

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

Art. no.	set	empty	kg	PU
220500	**22-pieces**	220061	6,350	1

HAUPA “ToolBag“ 1000 V

Tool bag with inner and outer tool compartments, rubber-reinforced base. Comes complete with 13 tools.

Content:
- 2C-VDE combinations pliers 185 mm
- 2C-VDE side cutters 165 mm
- 2C-VDE telephone pliers pliers, straight, 200 mm
- 2C-VDE wire stripping pliers 160 mm
- 2C-VDE-screwdriver set, 6 electrician’s screwdrivers
- Spanner for switch-cabinets
- Cable knife
- Voltagetester “Basic”

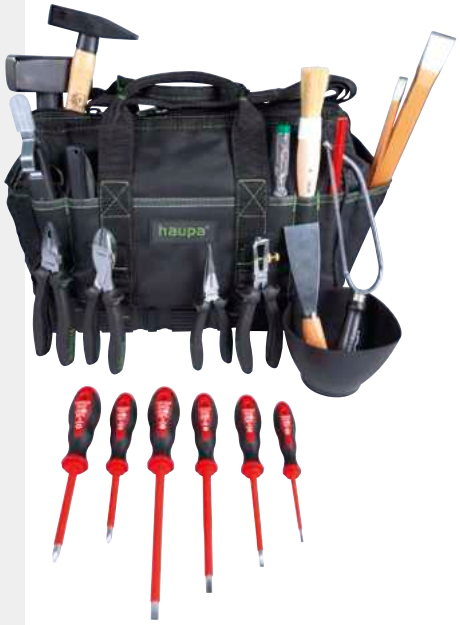
1000 V IEC 60900

Art. no.	set	empty	kg	PU
220510 *	**13-pieces**	220061	3,919	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



XL

Art. no.	set	empty	kg	PU
220802	**22-pieces**	220366	9,810	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:
- 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 2,5 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

XL

Art. no.	set	empty	kg	PU
220804 ✷	**14-pieces**	220366	4,400	1

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

✷ Best-seller Premium product

HAUPA “ToolBag XL 1000 V“

Tool bag XL with inner and outer tool compartments, rubber-reinforced base. Comes complete with 13 tools. Material: extra strong 600D polyester, colour: black/green. ToolBag XL 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“

1000 V IEC 60900

XL

Art. no.	set	empty	kg	PU
220800	**13-pieces**	220366	4,600	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

Art. no.	set	empty	kg	PU
220556 *	**25-pieces**	220095	6,430	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
- Voltage tester, black | 125-250 V
- Fitter’s hammer, 300 g
- Universal stripper
- Measuring tape, 3 m
- PUK pocket saw, fixed handle
- Carpenters pencil

Art. no.	set	empty	kg	PU
220550	**20-pieces**	220095	5,540	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“
- Set X-CrimpPlus

Art. no.	set	empty	kg	PU
220810	**29-pieces**	220368	9,180	1

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

Best-seller Premium product

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 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 telephone pliers, 200 mm
- 2C-VDE combination pliers, 180 mm
- 2C-VDE heavy duty side cutters, 170 mm
- 2C-VDE wire stripping pliers, 160 mm
- 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

Art. no.	set	empty	kg	PU
220814	**20-pieces**	220368	9,180	1

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

Art. no.	set	empty	kg	PU
220812 ✷	**14-pieces**	220368	9,180	1

“HUPsmartHome“ 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:

- Combination pliers 180 mm
- Side cutters 160 mm
- Long chain nose pliers 45°, 160 mm
- Screwdrivers set „HUPslim“ 1000 V PH
- Screwdrivers set „HUPslim“ 1000 V PZ/FL
- 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 for modular plugs
- Cable stripping knives
- Sensor Tool LSA
- Crimping pliers HUPsquare10 0,08 - 10 mm²
- Hand saw „PUK“
- Ratchet screwdriver set „FlexBag“
- ESD Electronic side cutter without cutting-facet

1000 V IEC 60900

reduced

Art. no.	set	empty	kg	PU
220805	**23-pieces**	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

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220293	**30-pieces**	220292	6,350	1

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

Best-seller Premium product

“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
- Measuring tape 3 m
- LED head lamp 75 lm

1000 V IEC 60900

Art. no.		set	empty	kg	PU
220294	*	**24-pieces**	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:

- 2K-VDE electrician's screwdriver 2.5 x 75, 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
- VDE side cutter 165 mm
- VDE combination pliers 185 mm
- Cable cutter 160 mm dip-insulated
- Electrical insulating tape VDE 15 mm x 10 m, Rainbow pack, 263820, 10 coulors
- Measuring tape 3 m

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220298	**14-pieces**	220292	6,350	1

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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

1000 V IEC 60900

reduced

Art. no.	set	empty	kg	PU
220706	**11-pieces**	220703	3,040	1

HAUPA „ToolContainer Work“

Tool bag made of 600D Polyester, with inner and outer tool compartments, with carrier bar of metal and anti-slip grip, removeable protective cover made of polyester, removeable belt pouch, ToolBag 220704.

Content:
- VDE Screwdriver set HUPslim 1000 V, Phillips, 6 pcs. Content: 2C-VDE electricians’ screwdrivers HUPslim 3,5 x 0,6 x 100 mm | 4 x 0,8 x 100 mm | 5,5 x 1,0 x 125 mm | 6,5 x 1,2 x 150 mm, 1 VDE-Cross slotted screwdrivers HUPslim PH, size 1 + 2
- 2C-VDE electricians’ screwdrivers HUPslim 4 x 1,0 x 100 mm
- VDE screwdrivers HUPslim PZ/FL 1 + 2
- VDE combination pliers 180 mm
- VDE side cutters 160 mm
- VDE long chain nose pliers 200 mm
- VDE cable cutter 160 mm
- Stripper “Allrounder“ 4 – 15 mm²
- Stripper “Top Coax Plus“ 4,8 – 7,5 mm²
- Perlon fish tapes, 15 m x 3 mm
- 100 x connecting clamps PC, 5-pole, 1 – 2,5 mm²
- PU textile gloves Level 5, size 10
- Spanners for switch-cabinet “HUPkey“
- LED “Pen Torch“ • Folding rules 2 m
- Aluminium spirit levels 400 mm
- Carpenters‘ pencils • Water brushes
- Plaster cups • Paint scrapers 50 mm
- Stone chisels 32 x 300 mm
- Engineers‘ hammer 300 g • Sledge hammer 1000 g
- Utility metal knives
- Hacksaw 300 mm
- SDS-hammer drill sets
- Contact spray HUPwetBlock
- Industrial cleaning wipes
- Electricians’ chisels 10 x 250 mm

1000 V IEC 60900

reduced

Art. no.	set	empty	kg	PU
220705	**29-pieces**	220704	9,800	1

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

Best-seller Premium product

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

1000 V IEC 60900

Art. Nr.	set	empty	kg	PU
220014	**10-pieces**	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, black | 125-250 V

1000 V IEC 60900

Art. Nr.	set	Breite	Höhe	Tiefe	kg	PU
220130	**11-pieces**	300	230	50	2,216	1

Tool case “Tradition“

made of black leather, with 2 inside loops and 2 snap-locks.

Art. no.	width	depth	height	kg	PU
220022	340	110	170	0,821	1

Tool case “Favorit - Admiral - Profi“

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
220066: Profi

Art. no.	width	depth	height	kg	PU
220060	365	150	250	2,126	1
220064	470	145	315	2,990	1
220066	420	150	250	2,378	1

Tool case “Comet“

made of black leather, all outside edges reinforced with Alu-squares, with galvanized floor-onsert of sheet-metal collapsable front, snap-fasteners riveted on side, side-loops for carrying-belts, 2 snap-locks, all 4 inside with toolcompartments and adjustable loops, without carrying belts

Art. no.	width	depth	height	kg	PU
220070	420	165	320	3,939	1

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Tool case “Magister“

of signal-red leather, with many compartements for tools, empty

Art. no.	width	depth	height	kg	PU
220142	440	165	260	2,700	1

Accessories

Brass padlocks

body made from a solid brass block, hardenend steel shackle, with 2 keys

Art. no.	Size	kg	PU
220110	30	0,085	1
220112	40	0,135	1

Carrying belts

with 2 spring hooks

Art. no.	kg	PU
220054	0,114	1

Leather tool cases

Tool case “Phoenix“

Tool case for electrical contractor, made of black neat’s leather, with 39 tools. Case 220070.

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
- Voltage tester, black | 125-250 V

Art. no.	set	empty	kg	PU
220156	**39-pieces**	220070	9,900	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Tool case “Saphir“

Tool case for electrical contractor, made of green neat’s leather, with 31 tools. Case 220070.

Content:

- 2C long-nosed round 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 elektronic side cutters, 115 mm
- 2CE electrician‘s screwdrivers 2.5 x 75, 4 x 100, 4 x 125, 5 x 150 m
- 2C engineers’ screwdrivers 6 x 100, 7 x 125, 8 x 150 mm
- 2C cross slotted screwdrivers PH, size 1 and 2
- 2C cross slotted screwdrivers PZ, size 1 and 2
- Electronic screwdriverset, 7-pieces
- Socket wrenches SW 5.5, 13, 17
- Allen key set, 8-pieces
- Cable stripper hooked blade, 8 - 28 mm Ø
- Combination snips 190 mm
- „PUK“ pocket saw, fixed handle
- Bench hammer 400 g
- Folding rules 2 m
- Cable cutter max. 16.9 mm
- Cable stripping knife plastic scales
- Voltage tester, black | 125-250 V

Art. no.	set	empty	kg	PU
220154	**31-pieces**	220070	8,150	1

Tool case “Novelle 1“

Tool case for electrical contractor, made of black neat’s, leather, with 26 tools. Case 220066.

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
- „PUK“pocket saw, adjustable handle
- Voltage tester “Basic”
- Voltage tester, black | 125-250 V

Art. no.	set	empty	kg	PU
220152/1	**26-pieces**	220066	6,500	1

Leather tool cases

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, 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

Art. no.		set	empty	kg	PU
220169		**19-pieces**	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

Art. no.		set	empty	kg	PU
220168	✸	**20-pieces**	220060	6,100	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

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

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220168/VDE	**20-pieces**	220060	6,700	1

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

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220135	**54-pieces**	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
- 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, black | 125-250 V

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220140	**46-pieces**	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	depth	height	kg	PU
220028	460	310	180	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	depth	height	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	depth	height	kg	PU
220023 *	460	160	310	6,740	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	depth	height	kg	PU
220042	470	200	360	6,500	1

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Tool case trolly “OmegaMax Trolly“

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	depth	height	kg	PU
220048 ✷	470	200	360	7,000	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	depth	height	kg	PU
220068	460	180	310	5,039	1

Tool case “Aktion“

ABS+

2 tool kits (one with document pocket). Ground bowl with variables to dividing bars

Art. no.	width	depth	height	kg	PU
220038	460	160	310	4,580	1

Tool case trolly “Fly“

HDPEfly

hard-side case, HDPE, extremely robust, black, 3 tool sections, 2 locks, document pocket, with high-grade fittings, bottom half of case equipped with variable partitions

Art. no.	width	depth	height	kg	PU
220248	470	360	220	5,320	1

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

✷ Best-seller Premium product

Tool case “Pendant“

ABS+

rigid case, signal red, with Alu frame and 2 locks, with 3 plates with many compartements for tools

Art. no.	width	depth	height	kg	PU
220076	460	180	310	5,107	1

Tool trolley “HUPtransporter”

PPsafe

Roomy and organised – the HAUPA tool trolley “HUPtransporter” provides a lot of space for tools

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.

- 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	depth	height	kg	PU
220820	539	359	225	7,550	1

Hard-top tool cases

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 0,25 - 2,5 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, 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

Art. no.	set	width	depth	height	kg	PU
104090	**78-pieces**	490	100	375	6,000	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

ABS 20kg

Art. no.	set	empty	kg	PU
220269	**14-pieces**	220028	5,900	1

Tool case „Start-up Go“

ABS

hard-shell case, black, 2 tool sections, bottom with variable partitions, 18 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 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

ABS 20kg

Art. no.	set	empty	kg	PU
220267	**18-pieces**	220028	6,100	1

Tool case „Jobstarter Plus“

ABS

RRobust 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
- 2C-VDE telephone pliers, 200 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

1000 V IEC 60900

ABS 20kg

Art. no.	set	empty	kg	PU
220027	**24-pieces**	220028	8,080	1

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

ABS 20kg

Art. no.	set	empty	kg	PU
220268 *	**24-pieces**	220028	8,500	1

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Tool case “HUPactive“

ABS

Hard case, black, 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.
(case 220030)

Content:
- VDE electrician 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 side cutters DIN ISO 5749 160 mm*
- VDE long chain nose pliers DIN ISO 5745 200 mm*
- Wire stripper “Basic“ 0,5 – 4 mm²
- Cable stripping knives “Basic“ without hook blade 8 – 28 mm²
  (safe work for trainees)
- VDE-Cable knife 50 mm
- Voltage tester 120-250 V, loose
- Cabinet levels 225 mm
- Original “PUK“ hand saw
- Cross peen hammer 300 g
- Painter's spatula 40 mm
- Plaster cup
- Industrial ring brush, size 4
- Folding ruler 2 m
- Multigraph, black, 7B lead, triangular, 240 mm

1000 V IEC 60900

Art. no.		set	empty	kg	PU
220255		**24-pieces**	220030	9,620	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

NEW

1000 V IEC 60900

Art. no.		set	empty	kg	PU
220257		**24-pieces**	220036	6,500	1

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

Best-seller Premium product

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, 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-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

Art. no.	set	empty	kg	PU
220221	**19-pieces**	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.

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

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220235 *	**19-pieces**	220031	9,300	1

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Hard-top tool cases

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

1000 V IEC 60900

ABS 20kg

Art. no.		set	empty	kg	PU
220309	**33-pieces**		220031	8,680	1

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

1000 V IEC 60900

ABS 20kg

Art. no.		set	empty	kg	PU
220232	**35-pieces**		220031	12,920	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Tool case trolly “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, 51 tools, 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)

Art. no.	set	empty	kg	PU
220273	**51-pieces**	220023	14,700	1

Tool case trolly “Start-up“

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, 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 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

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220252	**19-pieces**	220023	10,940	1

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Tool case trolly “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, 38 tools, case art. 220023.

Content:

- 2C-VDE-screwdrivers set PH
- VDE-Cable knive straight blade
- Industrial cleaning wipes
- Measuring tape 3 m
- PUK pocket saw, fixed handle
- VDE cable cutter 230 mm
- 2C-VDE combination pliers 185 mm
- VDE side cutters 165 mm
- VDE telephone pliers 45°, 200 mm
- Automatic wire stripper 0,2 - 6 mm²
- Ear protection plugs SNR 30 db
- 2C-VDE screwdrivers PZ/FL, size 1
- 2C-VDE screwdrivers PZ/FL, size 2
- Perlon fish tapes 15 mm, 3
- LED Pocket lamp 18 x 91mm 80 lm
- Universal stripper 0,2 - 4 mm²
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Crimping pliers for crimp terminals/end sleeves
- Cable cutter 160 mm, coating-insulated
- Crimping pliers 0,75 - 16 mm²
- Ratched screwdriver „Flex“, 58 pcs.
- Safety glasses
- Spanner for switch-cabinets
- Voltage tester „Profi Plus“
- Elektronik ESD Electronic side cutter 115 mm
- Adjustable single-head wrench 24 mm
- 2C Allround soft-grip scissors 140 mm
- Cable glands IP 68, M20, light-grey
- Dispenser box with insulated end sleeves (DIN)
- Cable ties UV-resistant 250 x 4,8 mm
- Nailing clips for round cable 7-10, white

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220254 ✷	**38-pieces**	220023	14,700	1

Tool case trolly “Master Mobil HUPslim 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, 38 tools, case 220023.

Content:

- 2C-VDE-screwdrivers set HUPslim PH
- 2C-VDE screwdrivers HUPslim PZ/FL, size 1 + 2
- VDE-Cable knive straight blade
- 2C-VDE combination pliers 180 mm
- VDE side cutters 160 mm
- VDE telephone pliers 45°, 200 mm
- Industrial cleaning wipes • Measuring tape 3 m
- PUK pocket saw, fixed handle • VDE cable cutter 230 mm
- Automatic wire stripper 0,2 - 6 mm²
- Ear protection plugs SNR 30 db • Perlon fish tapes 15 mm, 3
- LED Pocket lamp 18 x 91mm 80 lm
- Universal stripper 0,2 - 4 mm²
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Crimping pliers for crimp terminals/end sleeves
- Cable cutter 160 mm, coating-insulated
- Crimping pliers 0,75 - 16 mm²
- Ratched screwdriver “Flex“, 58 pcs.
- Safety glasses • Spanner for switch-cabinets
- Voltage tester “Profi Plus“
- 2C Allround soft-grip scissors 140 mm
- Elektronik ESD Electronic side cutter 115 mm
- Adjustable single-head wrench 24 mm
- Cable glands IP 68, M20, light-grey
- Dispenser box with insulated end sleeves (DIN)
- Cable ties UV-resistant 250 x 4,8 mm
- Nailing clips for round cable 7-10, white

1000 V IEC 60900

reduced

Art. no.	set	empty	kg	PU
220329	**38-pieces**	220023	14,700	1

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

✷ Best-seller Premium product

Tool case trolly “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 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
- Voltage tester, 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

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Art. no.	set	empty	kg	PU
220307	**33-pieces**	220023	15,000	1

Service trolly 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 art. 220023.

Content:

- 2C-VDE electrician‘s screwdrivers 2,5 x 75, 3 x 100, 3,5 x 100, 4 x 100 mm
- 2C-VDE cross slotted screwdrivers PH 1, 2, 3
- 2C-VDE cross slotted screwdrivers S-Tx 20, 25, 30
- Hexagon sockets VDE 3/8" WS 8, 9, 10, 12, 13, 14, 17, 19, 22
- Extension 3/8" VDE, 250 mm
- Reversible ratchet VDE 3/8"
- Water pump pliers VDE 240 mm
- Cable cutters VDE 230 mm
- Side heavy duty side cutters VDE 205 mm
- Side cutters VDE 165 mm
- Short flat nose pliers VDE 160 mm
- Long chain nose pliers, angled nose 200 mm
- Combination pliers VDE 205 mm
- Cable stripping knife 1000V, straight blade, 50 mm
- Safety-sets with bag, insulating mat
- Slip on bushes 1000V, 20 mm
- Slip on bushes 1000V, 10 mm
- **VDE-sockets 3/8", M8, M10, M12** (xzn)
- Shutting band red/white 500 m
- Sign „dangerous voltage“
- Sign „do not switch“

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HUPeMobility

Art. no.	set	empty	kg	PU
220171	**40-pieces**	220023	11,100	1

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Service trolley „HUPeMobility eco“

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, 42 tools, case art. 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 mm „Careful batteries“

1000 V IEC 60900

ABS 20kg

Art. no.	set	empty	kg	PU
220327	**42-pieces**	220023	19,000	1

Tool case trolly “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, 57 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
- 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)

1000 V IEC 60900

ABS 20kg

Art. no.	set	empty	kg	PU
220272	**57-pieces**	220023	14,700	1

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

Best-seller 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, black | 125-250 V
- Engineers’ hammer, 300 g
- Measuring stick, 2 m

ABS 25kg

Art. no.	set	empty	kg	PU
220170	**18-pieces**	220038	7,000	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, black | 125-250 V

ABS 25kg

Art. no.	set	empty	kg	PU
220040	**21-pieces**	220038	7,460	1

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 side cutters, 160 mm
- 2C telephone pliers, 180 mm
- 2C telephone pliers, 200 mm, bent
- 2C electrician screwdrivers 75, 100, 150 mm
- 2C cross slotted screwdrivers PH, size 0, 1, 2
- Electronic screwdriver set, 7-pieces
- Control cabinet key
- Precision stripper “PWS-Plus” 0.25 - 0.8 Ø
- Combination snips 190 mm
- „PUK“ pocket saw, fixed handle
- Crimping pliers for coaxial connectors
- ESD electronic side cutters, 130 mm
- Stripper for coaxial cable
- Voltage tester, black | 125-250 V
- Stripper for UTP/STP data cable
- Crimping pliers for modular plugs
- Sensor tool

ABS 25kg

Art. no.	set	empty	kg	PU
220141	**21-pieces**	220038	8,800	1

Tool case “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“

ABS 25kg

Art. no.	set	empty	kg	PU
220229	**47-pieces**	220038	7,180	1

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

Best-seller Premium product

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

Art. no.		set	empty	kg	PU
220153	✷	**19-pieces**	220038	6,600	1

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

Art. no.	set	empty	kg	PU
220244	**19-pieces**	220038	7,140	1

Tool case “Inspektor“

ABS+

rigid case, black, with high-grade fittings, Master’s case with 25 tools.
Case 220068.

Content:

- 2C electrician‘s screwdrivers 75, 125, 150 mm
- 2C engineers’ screwdrivers 100, 150 mm
- 2C cross slotted screwdrivers PH, size 1 + 2
- 2C combination pliers, 180 mm
- 2C heavy duty side cutters, 180 mm
- 2C telephone pliers, 200 mm
- 2C telephone pliers, bent 200 mm
- 2C water pump pliers, 240 mm
- 2C wire stripping pliers, 160 mm
- 2C piercing awl
- Wire stripper, hooked blade, 8 - 28 mm Ø
- Voltage tester 120-250 V, loose
- Adjustable wrench, 210 mm
- Paint scraper, 50 mm
- Electricians’ Chisel, 10 x 250 mm
- Engineers’ hammer, 300 g
- Cable knife, 1 blade
- Universal scissors, 190 mm
- PUK pocket saw, fixed handle
- Measuring stick, 2 m
- Alu level 400 mm

Art. no.	set	empty	kg	PU
220176	**25-pieces**	220068	8,980	1

Tool case “Akkurat“

ABS+

Master‘s case for radio and television, with 32 tools, rigid case. Case 220068.

Content:

- 2C cross slotted screwdrivers, PH, size 1 and 2
- 2C electrician‘s screwdrivers 2.5 x 75, 4 x 100, 4 x 125, 5 x 150
- 2C electrician‘s screwdrivers 2.5 x 75 (bare)
- 2C combination pliers, 160 mm
- 2C side cutters, 160 mm
- 2C telephone pliers, straight, 200 mm
- 2C telephone pliers, bent, 200 mm
- 2C wire stripping pliers, 160 mm
- ESD electronic side cutters, 115 mm
- ESD electronic needle nose pliers, 130 mm
- ESD Electronic round nose pliers, 130 mm
- ESD electronic needle nose pliers, 130 mm, 45°
- Engineers’ screwdrivers, 8 x 150 mm
- Elektronic screwdriver set, 7-pieces
- Tweezer, straight, 130 mm
- Tweezer, flat, 145 mm
- 2C socket wrenches 5, 5.5, 6
- 2C piercing awl, round
- Voltage tester 120-250 V, loose
- Checking mirror 210 mm
- Claw holder, size 525
- Spanner, 175 mm
- Solder, Sn 60% 1 mm 100 g
- Universal scissors, 190 mm
- Crown scissors, 115 mm
- Contact file set. 6 pieces

Art. no.	set	empty	kg	PU
220179	**32-pieces**	220068	8,180	1

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

Best-seller Premium product

Tool case “Diamant“

ABS+

Master‘s case for domestic appliances, with 23 tools, rigid case, black.
Case 220068.

Content:

- 2C electrician‘s screwdrivers 4 x 100, 5 x 150 mm
- 2C engineers’ screwdrivers 6 x 100, 8 x 150 mm
- 2C cross slotted screwdrivers, PH, size 1 and 2
- 2C long nose round pliers, 160 mm
- 2C long nose flat pliers, 160 mm
- 2C telephone pliers 200 mm
- 2C telephone pliers, bent, 200 mm
- 2C combination pliers 160 mm
- 2C side cutters, 160 mm
- 2C heavy duty side cutters, 200 mm
- Cable stripper 0.5 - 4 Ø
- ESD electronic side cutters, 115 mm
- Crimping pliers for crimping terminals
- Socket wrench set, 1/4”, 33 pieces
- „PUK“ pocket saw, fixed handle
- Bench hammer, 300 g
- Cable stripping knife, plastic scales
- Voltage tester, black | 125-250 V
- Combination snips, 190 mm
- Cable cutter, max. 16.9 Ø

Art. no.	set	empty	kg	PU
220192	**23-pieces**	220068	8,500	1

The ideal tool assortment

ABS+

rigid case for electromaster, with 32 tools. Case 220068.

Content:

- 2C electrician screwdrivers 75, 75, 125, 150 mm
- 2C engineers’ screwdrivers 100, 150 mm
- 2C cross slotted screwdrivers PH, size 1 + 2
- 2C combination pliers, 180 mm
- 2C telephone pliers, 200 mm
- 2C side cutters, 160 mm
- 2C telephone pliers, 200 mm
- 2C water pump pliers, 240 mm
- ESD electronic side cutters, 115 mm
- ESD electronic needle nose pliers, 130 mm
- Electronic screwdriver set, 7-pieces
- Solder for electronic work, Sn 60%, 1.5 mm, 100 g
- Claw retriever with fixed shaft, size 165
- 2C piercing awl, square
- 2C socket wrenches 7, 8, 10
- Checking mirror, 210 mm
- Socket wrench set, 1/4”, 33 piece
- Contact soldering iron, 30 watt
- Cable stripping knife, plastic handle
- Bench hammer, 300 g
- Universal saw, heavy 150 mm
- Cable stripper, 0.5 - 4 mm Ø
- Combination snips, 190 mm
- Voltage tester, black | 125-250 V
- Tweezer angled

Art. no.	set	empty	kg	PU
220177 *	**32-pieces**	220068	10,260	1

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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

Art. no.	set	empty	kg	PU
220043	**19-pieces**	220042	11,000	1

Tool case trolly “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 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

Art. no.	set	empty	kg	PU
220137	**19-pieces**	220048	11,500	1

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

Best-seller Premium product

Tool case „Delux Plus“ 1000 V

ABS+

rigid case, signal-red, with high-grade fittings, complete with 54 safety tools, 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

1000 V IEC 60900

ABS 25kg

Art. no.		set	empty	kg	PU
220239 *		**54-pieces**	220076	11,780	1

Tool case „Leopard“ 1000 V

ABS+

rigid case, signal-red, complete with 32 safety tools (460 x 180 x 310 mm).

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

1000 V IEC 60900

ABS 25kg

Art. no.		set	empty	kg	PU
220136		**32-pieces**	220076	10,380	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 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 screwdrivers PZ/FL, size 1 + 2
- 2C-VDE combination pliers 185 mm
- 2C-VDE diagonal cutter 165 mm
- 2C-VDE telephone pliers 200 mm
- 2C-VDE cable cutter 200 mm
- 2C-VDE water pump pliers 240 mm
- VDE cable knife, straight blade, 50 mm
- Safety glasses „PRO“
- Automatic wire stripper 0,2 - 6 mm²
- Voltage tester „TestPen“
- Voltage tester „Profi“
- Finger gloves, size 9
- Ear protection plugs
- NH-safety fuse grip

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220303	**21-pieces**	220076	8,680	1

Tool case “Venus Plus“ 1000 V

ABSfly

rigid case, signal-red, complete with 32 safety-tools. (460 x 180 x 310 mm).

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

1000 V IEC 60900

Art. no.	set	empty	kg	PU
220033	**32-pieces**	220032	10,160	1

PU Packing unit PE Price unit

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

Best-seller Premium product

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, 23 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

1000 V IEC 60900

ABS 25kg

Art. no.	set	empty	kg	PU
220263	**23-pieces**	220031	9,300	1

Tool case „Start-up SHK“

ABS

hard-side case, black, 2 tool sections, document pocket, combination lock, bottom half of case equipped with variable partitions, with high-grade fittings, 57 tools, case 220031.

Content:

- 2C-VDE Side cutters, 200 mm
- 2C-VDE telephone pliers, 200 mm
- Water pump pliers, 240 mm
- Pipe wrenches, 430 mm, pipe 1 1/2“, wrench size 59 mm
- Express -Key M10
- Switch cabinet key, „HUPkey“ with converting bit
- 2C-VDE electrician‘s screwdrivers 3,5 x 100, 5,5 x 125 mm
- 2C-VDE cross slotted screwdrivers PH 1 + 2
- 2C-VDE screwdrivers Tx 15, 20, 25
- Socket set 1/4“, 33 pcs.
- Double ended spanners DIN 3110, wrench size 10 – 11
- Double ended spanners DIN 3110, wrench size 12 – 13
- Utility metal knives
- Hexagon angle screwdriver set, with spherical head, 9 pcs. wrench size 1,5 – 10
- Voltage tester 120-250 V, loose
- Engineers’ hammer
- Stone chisels, octagonal shank, 28 x 250 mm
- Aluminium spirit levels, 400 mm
- Tube cutter, Ø 3 – 35 mm
- Micro pipe cutter, Ø 3 – 16 mm

1000 V IEC 60900

ABS 20kg

Art. no.	set	empty	kg	PU
220264	**57-pieces**	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

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:

- Wire stripper 0.2 – 6 mm² • Crimping pliers insulated cable lugs 0.5 – 6 mm²
- VDE electrician’s scissors, stainless steel, 160 mm, 70 mm²
- VDE long chain nose pliers, curved, 200 mm*
- VDE cable cutter 160 mm* • VDE side cutters 160 mm*
- VDE combination pliers 180 mm* • Switch cabinet key
- VDE cable stripping knife, hook blade, 50 mm
- Utility knife “HUPblackSeries18” • Blades “HUPblades18”
- Switch cabinet level 200 mm • Cable stripper, hook blade 8 – 28 mm²
- Deep hole marker, 2-in-1, black, with sharpener
- Electronic ESD side cutter, without cutting-facet, 115 mm
- Hexagon angle screwdriver set, with spherical head, 9-pcs, 1.5 – 10 mm, extra long • PUK saw with fixed handle • Uni stripper 0.2 – 4 mm²
- VDE screwdrivers **HUPslim** PZ/FL 1 + 2, **HUPslim** PZ 1 + 2, **HUPslim** 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
- Stone chisel, flat oval 32 x 300 mm
- **Ratchet spanner 4-in-1, 8 x 10 + 12 x 13 mm**
- **Ratchet spanner 4-in-1, 10 x 13 + 17 x 19 mm**
- Crimping pliers for end sleeves 0.5 – 16 mm
- **Single-hand cable cutters max. Ø 34 mm**
- **VDE water pump pliers 240 mm**
- VDE heavy duty diagonal cutter 200 mm
- VDE pliers wrench 280 mm • Measuring tape 5 m • Measuring stick 1 m
- Light metal level 400 mm • LED torch “Pen Torch”
- Crimping pliers 0.75 – 16 mm • Voltage tester “Profi LED Plus” 12 – 1000 V
- Ratchet screwdriver set “FlexBagPro” • Fitter's hammer 500 g
- PU cut-protection glove, level 3, grey, size 10
- Safety glasses

* perfected cutting force performance

1000 V IEC 60900

reduced

Art. no.	set	empty	kg	PU
220821	**57-pieces**	220820	10,94	1

Tool trolley “HUPtransporter StandardPlus”

PPsafe

Roomy and organised – the HAUPA tool trolley “HUPtransporter StandardPlus” provides a lot of space for tools

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:

- Wire stripper “Basic” 0.5 – 6 mm² • Crimping pliers insulated cable lugs 0.5 – 6 mm² • VDE electrician’s scissors, stainless steel, 160 mm, 70 mm²
- VDE long chain nose pliers, curved, 200 mm*
- VDE cable cutter 160 mm* • VDE side cutters 160 mm*
- VDE combination pliers 180 mm* • Switch cabinet key
- VDE cable stripping knife, straight blade
- Utility knife “HUPblackSeries18” • Blades “HUPblades18”
- Switch cabinet level 200 mm • Cable stripper, hook blade 8 – 28 mm²
- Deep hole marker, 2-in-1, black, with sharpener
- Electronic ESD side cutter, without cutting-facet, 115 mm
- Hexagon angle screwdriver set, with spherical head, 9-pcs, 1.5 – 10 mm, extra long • PUK saw with fixed handle • Uni stripper 0.2 – 4 mm²
- VDE screwdrivers **HUPslim** PZ/FL 1 + 2, **HUPslim** PZ 1 + 2, **HUPslim** PH 1 + 2
- VDE electricians 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 • Stone chisel, flat oval 32 x 300 mm
- Crimping pliers for end sleeves 0.5 – 16 mm
- VDE heavy duty diagonal cutter 200 mm • VDE pliers wrench 280 mm
- Measuring tape 5 m • Measuring stick 1 m
- Light metal level 400 mm • LED torch “Pen Torch”
- Crimping pliers 0.75 – 16 mm • Ratchet screwdriver set “FlexBag”
- Voltage tester “Profi LED Plus” 12 – 1000 V • Basic stripper 4 – 13 mm
- Fitter’s hammer 500 g • PU cut-protection glove, level 3, grey, size 10
- Safety glasses

* perfected cutting force performance

1000 V IEC 60900

reduced

Art. no.	set	empty	kg	PU
220822	**52-pieces**	220820	10,90	1

Tool case "HAUPA – Lifesaver" 1000 V

PREMIUM

Aluminium case, equipped with 54 safety tools.
Size: 830 mm x 550 mm x 300 mm, weight: 37 kilos.

Content:

- 2C-VDE socket wrenches 5, 5,5, 7, 8, 10, 11, 13 mm
- 2C-VDE electrician's screwdrivers
  2,5 x 75, 3 x 100, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2C-VDE cross-slotted-screwdrivers PH, size 1, 2
- 2C-VDE cross-slotted-screwdrivers PZ, size 0, 1, 2
- VDE right angle-allen key 3
- VDE right angle-allen key 4
- VDE right angle-allen key 5
- VDE right angle-allen key 6
- VDE right angle-allen key 8
- VDE right angle-allen key 10
- VDE right angle-allen key 12
- VDE open-End Spanners
  6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 30 32
- spanner for switch-cabinets
- finger gloves, size 10
- VDE safety face mask
- VDE safety grip
- VDE electricans boots, size 42
- VDE insulating floor mat
- VDE rubber towels 600 mm
- VDE plastic clip 160 mm (2-pieces)
- Slip-on busches 10 mm (4-pieces)
- Safety belt 1400 mm
- Fallstop-breaking device and rope shortening 2 m
- VDE knife with strong blade
- VDE cable cutter 200 mm
- VDE combination pliers 185 mm
- VDE side cutter 185 mm
- VDE long chain nose pliers 200 mm
- VDE wire stripping pliers 160 mm
- VDE tweezer, pointed round 150 mm
- Fall breaking belt typ A
- Voltage tester, black | 125-250 V

1000 V IEC 60900

Art. no.	set	width	height	depth	kg	PU
220400	**54-pieces**	830	550	300	37,0	1
220079	**empty**	830	550	300	18,6	1

haupa®

... convincing solutions

HAUPA GmbH & Co. KG, Lange Str. 40, 42857 Remscheid, Phone: +49 (0)2191 8418-0, Fax: +49 (0)2191 8418-840, E-Mail: sales@haupa.com

Laser marking

Attractive laser marking for your individual tool case

Show profile – give your tool case your name! Logo and name in noble laser design on aluminium plate.

You decide where it's placed!

Art. no.		kg	PU
220193	**Label**	0,020	1

Assortment boxes

Assortment boxes with metal catch and pick boxes

black plastic, including pick boxes

Content:

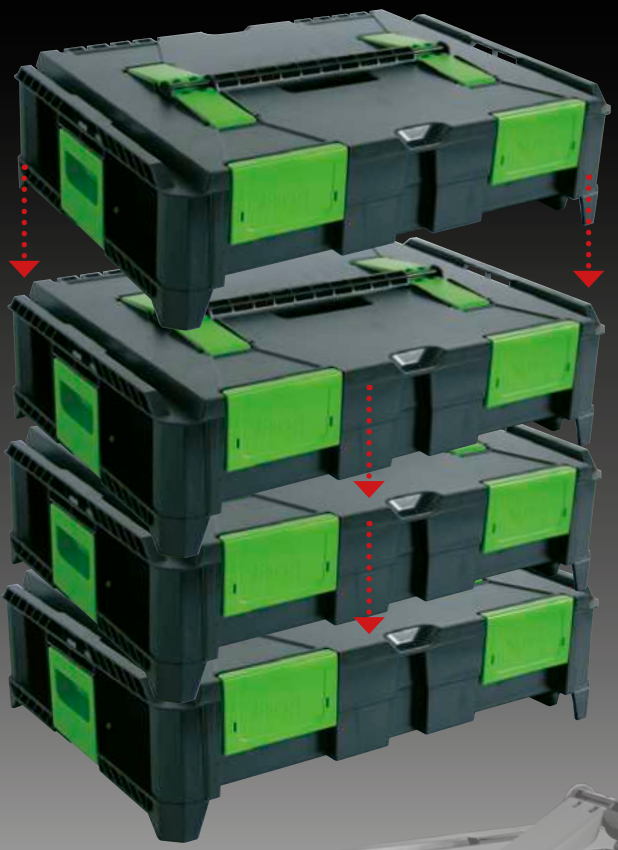
6 Boxes (S) | 49 x 49 x 72 mm
11 Boxes (M) | 49 x 98 x 72 mm
2 Boxes (L) | 98 x 98 x 72 mm
2 Boxes (XL) | 98 x 148 x 72 mm

Art. no.	width	depth	height	set	kg	PU
221131 ✷	414	338	79	**21-pieces**	1,500	1
221133	414	338	79	empty	1,200	1

SysCon – Systemcontainer

haupa®

... convincing solutions



Video SysCon

HAUPA SysCon product profile:

The basic idea behind the System Container is that the individual containers can be connected to each other to enable easy transport thus ensuring that simple access is provided to the contents of all containers.
The containers may be offered in an empty state or with contents. If sold with contents, the contents should encompass assortments which include connection materials, fixture materials and tools.

In addition, the System Container should also acts as a transportation method of HAUPA Smart Hydraulics since the stacking concept enables the hydraulic pressing tools to be organised along with the appropriate cable lugs thus forming a system unit.

The four conical feet on the uppermost container are automatically guided into the correct position on the container below. The connection of the containers is made without expenditure of force, simply be placing them on top of one another: The snap closures on the side mean that the containers can be separated just as easily. The closures are pull gently outwards which enables lifting.

When stacking, the container handles may be extended or folded in.

The design of the container ensures that water cannot enter the container.

Quality profile:
In order to ensure maximum stability, the containers are made from ABS. ABS is capable of withstanding both high and low temperatures without distorting or breaking.

The hard tests under a variety of conditions:
Fall tests with both empty and filled containers, stress tests, bounce tests and tensile tests have proved the robustness of the container and of components such as handles, closing flaps, snap closures etc.

Target group:
Due to the high quality and the extreme robustness afforded by this product, the target users are professionals:
Trade - Industry - Laboratories, etc.

Test simulation	Temperature	Fall height	Explanation/Observation
Fall test (empty)	+20° - 10°C	0,5 m	no damage to the product
		1,0 m	no damage to the product
		1,5 m	no damage to the product
		2,0 m	no damage, but the snap closures and closing flaps opened up
		2,5 m	minor break on the lid of the inner housing where the lid closes on the underside

Test simulation	Temperature	Fall height	Explanation/Observation
Ultimate stress test (Box closed)	+20° - 10°C	2,0 m	no damage to the product

Test simulation	Temperature	Fall height	Explanation/Observation
Fall test (Content 5 kg)	+20° - 10°C	0,5 m	no damage to the product
		1,0 m	no damage to the product
		1,5 m	no damage, but the snap closures and closing flaps opened up
		2,0 m	no damage, but the snap closures and closing flaps opened up

Test simulation	Temperature	Jump height	Explanation/Observation
Bounce test (90 kg)	+20° - 10°C	0,3 m	It is not possible to destroy the product by this test.

Test simulation	Temperature	Content	Explanation/Observation
Handle	+20° - 10°C	60 kg	No damage to the handle
		70 kg	no damage, but the snap closures and closing flaps opened up

Test simulation	Temperature	Content	Explanation/Observation
Snap closures and closing flaps	+20° - 10°C	60 kg	No damage to the snap closures No damage to the closing flaps
		70 kg	no damage, but the snap closures and closing flaps opened up

ABS plastic box „SysCon S“

SysCon

outer dimensions: 464 x 353 x 142 mm
inner dimensions: 400 x 300 x 80 mm

without inlay

Art. no.	width	depth	height	kg	PU
220370	400	300	80	2,200	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	depth	height	kg	PU
220653	470	240	105	3,300	1

ABS plastic box „SysCon M“

SysCon

outer dimensions: 464 x 353 x 212 mm
inner dimensions: 400 x 300 x 150 mm

without inlay

Art. no.	width	depth	height	kg	PU
220372	400	300	150	2,600	1

Take a look at our SysCon crash test on YouTube!

SysCon Crashtest

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	depth	height	kg	PU
220650	400	300	312	2,800	1

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

Best-seller Premium product

SysCon S for assortment inserts empty

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.		kg	PU
220620	**empty**	2,800	1

SysCon M for assortment inserts empty

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.		kg	PU
220770	**empty**	3,000	1

SysCon S for assortment inserts, empty

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.		kg	PU
220628	**empty**	2,900	1

SysCon M tool box empty

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.		kg	PU
220622	**empty**	2,400	1

SysCon S tool box empty

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.		kg	PU
220626	**empty**	2,500	1

ABS plastic box „SysCon XL“ variable

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	depth	height	kg	PU
220654	**empty**	400	300	312	4,300	1

Tool plate

adjustable inner divider, with 10 tool straps,
matching for Art. 220654, dimensions: 275 x 285 mm

Art. no.	width	height		kg	PU
220655	275	285	**empty**	0,200	1

Tool plate SysCon

11 compartments, for mounting in a SysCon lid

Art. no.	width	depth	height	kg	PU
220379	400	300	20	0,200	1

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

Best-seller Premium product

Foam insert SysCon

soft foam, 395 x 300 x 10 mm

Art. no.	width	depth	height	kg	PU
220399	395	300	10	0,020	1

Foam insert SysCon

soft foam, 395 x 300 x 15 mm

Art. no.	width	depth	height	kg	PU
220376	395	300	15	0,030	1

Foam insert SysCon

rigid foam, 395 x 300 x 20 mm

Art. no.	width	depth	height	kg	PU
220377	395	300	20	0,055	1

Foam insert SysCon

rigid foam, 395 x 300 x 65 mm

Art. no.	width	depth	height	kg	PU
220378	395	300	65	0,200	1

Tools insert SysCon

Polypropylen, 5 compartments

Art. no.	width	depth	height	kg	PU
220374	400	300	80	0,200	1

Tools insert SysCon

Polypropylen, 10 compartments

Art. no.	width	depth	height	kg	PU
220375	400	300	80	0,200	1

Tools insert SysCon

Polypropylen, 18 compartments

Art. no.	width	depth	height	kg	PU
220355	400	300	80	0,200	1

Tools insert SysCon

Polypropylen, with 12 adjustable compartments

Art. no.	width	depth	height	kg	PU
220356	400	300	80	0,200	1

Box S

SysCon

ABS, conical design for stacking with snap on base plate

Art. no.	width	depth	height	kg	PU
221134	49	49	72	0,020	1

Box M

SysCon

ABS, conical design for stacking with snap on base plate

Art. no.	width	depth	height	kg	PU
221135	98	49	72	0,031	1

Box L

SysCon

ABS, conical design for stacking with snap on base plate

Art. no.	width	depth	height	kg	PU
221136	98	98	72	0,048	1

Box XL

SysCon

ABS, conical design for stacking with snap on base plate

Art. no.	width	depth	height	kg	PU
221137	148	98	72	0,065	1

Baseplate for fixing

SysCon

Polypropylene, grids for even better non-slip grip

Art. no.	width	depth	kg	PU
221138	400	300	0,100	1

SysCon hand truck

SysCon

Properties:
- up to 60 kg
- sturdy aluminum frame
- Hand truck shevel: 390 x 280 mm

Art. no.	max.kg	kg	PU
220602	60	2,500	1

SysCon load securing “SysConCar“

SysCon

Properties:
- 21 slots (rear side)
- 3 round holes each side, left and right
- 5 round holes in floor plate
- Width: 475 mm, height: 1080 mm, depth: 360 mm
- Volume for contents:
  max. 5 ABS boxes „SysCon M“
  max. 8 ABS boxes „SysCon S“

Art. no.	width	depth	height	kg	PU
220644	475	360	1080	5,000	1

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

Best-seller Premium product

SysCon tool case set

Content: 17 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

Art. no.	set	empty	kg	PU
220392	**17-pieces**	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 120 - 250 V
150090		Carpenters‘ pencil
150024		Paint scrapers 40 mm
150004		Water brushes
240002		Folding rules 2 m
150006		Plaster cup

Art. no.	set	empty	kg	PU
220608	**22-pieces**	220372	6,500	1

SysCon „HUPeMobility“

Content: 52-pieces

- 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 signer 200 mm „Do not switch“ | „Caution batteries“ | „Dangerous voltage“

reduced

1000 V IEC 60900

HUPeMobility

Art. no.	set	empty	kg	PU
220610	**52-pieces**	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.

170206 HUPfix+

Art. no.	ml		kg	PU
170206 ✸	310	Adhesion+Sealing	0,450	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		colour	kg	PU
170216	310	Adhesion+Sealing	transparent	0,300	1
170210	310	Adhesion+Sealing	grey	0,440	1
170212	310	Adhesion+Sealing	black	0,440	1
170214	310	Adhesion+Sealing	white	0,440	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		colour	kg	PU
170200	310	Adhesion+Sealing	transparent	0,450	1
170202	310	Adhesion+Sealing	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	colour	kg	PU
170250	310	black	0,450	1

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

✸ Best-seller Premium product

Cartridge tip

for 310 ml cartridges

Art. no.		kg	PU
300116	Adhesion+Sealing	0,003	1

Cartridge gun „Profi“

for 310 ml cartridges

- for processing silicone and polymer cartridges

Art. no.		kg	PU
170254	Adhesion+Sealing	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	Adhesion+Sealing	0,050	1

Mixtülle

- für 2 Komponentenkleber

Art. no.		kg	PU
170234	Adhesion+Sealing	0,003	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	Adhesion+Sealing	0,025	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	Adhesion+Sealing	0,025	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	Adhesion+Sealing	0,020	1

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Fine droplet tip

- für Sekundenkleber

Art. no.		kg	PU
170236	Adhesion+Sealing	0,001	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	Adhesion+Sealing	0,050	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	Adhesion+Sealing	0,050	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	Adhesion+Sealing	0,050	1

HUPchemie - Coating+Lubrication

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	Coating+Lubrication	0,450	1

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

✸ Best-seller Premium product

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 und 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	plastic bottle 500 ml	0,572	1
143345	plastic bottle 1.000 ml	1,150	1

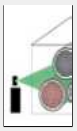
Dispenser for plastic bottle

Art. no.		kg	PU
143346	Coating+Lubrication	0,016	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 und ensures that old cables can easily be pulled out and new ones inserted, for many years and at different temperatures.

Foam lubricant, spray can 400 ml

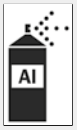


Art. no.		kg	PU
143348	spray can 400 ml	0,457	1

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.

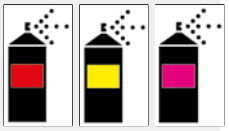


Art. no.	ml		kg	PU
170154	400	Coating+Lubrication	0,450	1

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.

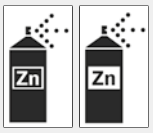


Art. no.	ml	form	colour	kg	PU
170140	500	Coating+Lubrication	luminous red	0,550	1
170141	500	Coating+Lubrication	luminous yellow	0,550	1
170142	500	Coating+Lubrication	luminous pink	0,550	1

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		colour	kg	PU
170150	400	Coating+Lubrication	Dark	0,450	1
170152 ✷	400	Coating+Lubrication	Light	0,450	1

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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.

170153

Zn

Art. no.	ml		kg	PU
170153	400	Coating+Lubrication	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.

Inox

Art. no.	ml		kg	PU
170156	400	Coating+Lubrication	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.

Si

Art. no.	ml		kg	PU
170162	400	Coating+Lubrication	0,450	1

Universal-Lubricant HUP40

PREMIUM

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!

universal

Art. no.	ml		kg	PU
170166	400	Coating+Lubrication	0,450	1

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

Best-seller Premium product

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	Coating+Lubrication	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.

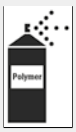
Properties:
HUPptfeSynt for lubrication of precision, such as pressure-loaded parts in an enormously wide range of temperatures.

Art. no.	ml		kg	PU
170160	400	Coating+Lubrication	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	Coating+Lubrication	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	Coating+Lubrication	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.

170164

Art. Nr.	ml		kg	VE
170164	400	Coating+Lubrication	0,450	1

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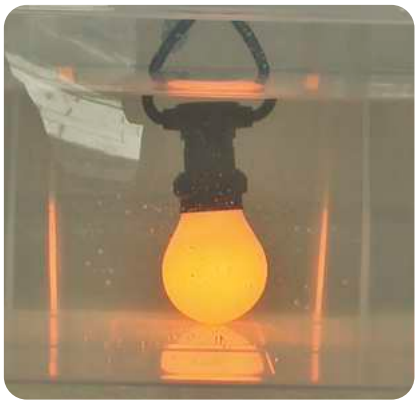
HUPchemie - Coating+Lubrication

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.

170180

Art. no.	ml		kg	PU
170180 ✷	400	Coating+Lubrication	0,450	1



HUPchemie - Cleaning

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.

170102

Art. no.	ml		kg	PU
170102 ✷	500	Cleaning	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	Cleaning	0,450	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	Cleaning	0,550	1

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

✷ Best-seller Premium product

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	Cleaning	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	Cleaning	0,550	1
170101	1000	Cleaning	1,050	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	Cleaning	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	Cleaning	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	Cleaning	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	Cleaning	0,020	1

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HUPchemie - Cleaning

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	Cleaning	0,300	1

Hand cleaning cream HUPsoap, 500 ml

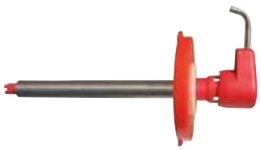
Application HUPsoap:
Rub some grams on dry hands, add some water and wash thoroughly. Reduce the consumption with the corresponding dosing dispenser.

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	Cleaning	0,600	1
170127	3000	Cleaning	3,300	1
170128	10000	Cleaning	10,500	1

Dispenser for hand cleaning cream HUPsoap, 3l

- compatible for art. 170127
- Stainless steel tube



Art. no.	ml		kg	PU
170129	3000	Cleaning	0,500	1

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	Testing	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	Testing	0,180	1

Our HUPchemie safety certificates can be found in the download section of www.haupa.com.

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

Best-seller Premium product

Soldering accessoires

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Soldering irons

chrome nickel steel tube, with schuko safety plug, replaceable nickel-plated copper tips

Art. no.	TL	Volt	Watt	kg	PU
160142	265	220	60	0,322	1
160144	315	220	80	0,319	1
160146	320	220	100	0,324	1

Soldering irons

with plastic handle, with schuko safety plug, replaceable copper tips, nickel-plated

Art. no.	TL	Volt	Watt	kg	PU
160150	250	220	30	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.	TL	Volt	Watt	kg	PU
160190	200	220	15	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.	set	kg	PU
262098	12-pieces	0,387	1

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

Best-seller Premium product

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.	kg	PU
160130	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.	kg	PU
160092	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.	kg	PU
160094	0,072	1
160096	0,132	1

Soldering grease for fittings acc. to DIN 8511-F-W 22

field of application: sanitary technics, copper tubes etc.

Art. no.	kg	PU
160100	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.	kg	PU
160102	0,065	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-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		1m	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 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
160000	1	60	100	1m	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		1m	0,018	1
160072	2	40	100		0,103	1
160074	2	40	250		0,258	1

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

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

Best-seller Premium product

BRINKO®

powered by haupa®

Pliers

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Pipe Pliers

Pipe pliers 45°

- Chrome vanadium steel, forged
- finger pinch protection

Art. no.	⟷	⬡ mm	⬡ "	kg	PU
618/1	310	49	1	0,725	1
618/11/2	425	65	1 1/2	1,572	1
618/2	540	84	2	2,648	1
618/3	685	120	3	4,100	1
618/4	815	135	4	5,650	1

Corner pipe pliers

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

Art. no.	⟷	⬡ mm	⬡ "	kg	PU
619/1/2	245	39	1/2	0,443	1
619/1 ✸	320	49	1	0,821	1
619/11/2 ✸	440	68	1 1/2	1,416	1
619/2	560	85	2	2,380	1
619/3	675	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.	⟷	⬡ mm	⬡ "	kg	PU
623/3/4-4	320	30 – 200	3/4 – 4	0,940	1

Replacement chain

- suitable for chain pipe wrench Art. no. 623

Art. no.	⟷	⬡ mm	⬡ "	kg	PU
623-1/3/4-4	320	30 – 200	3/4 – 4	0,359	1

Water Pump Pliers

Water pump pliers

- Chrome vanadium steel
- heavy duty, high quality finish
- Jaw grips inductively hardened
- with through joint
- Finger pinch protection
- polished jaws and joint
- yellow color

Art. no.	⟷	⬡ mm	⬡ mm	⬡ "	kg	PU
685/175	175	32	33	1 2/7	0,152	1
685/240	240	39	40	1 4/7	0,308	1
685/300	300	52	53	2	0,528	1

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

✸ Best-seller Premium product

Water pump pliers

- Chrome vanadium steel, chrome-plated
- Jaw grips inductively hardened
- special hardened teeth for extra long life
- inox push button & spin
- self locking on pipes and nuts
- with finger pinch protection
- with press-button single hand adjustment
- nose brightly polished
- soft dip insulated anti-slip handles, yellow
- with push-button single hand adjustor
- 11-fold precision adjustment

Art. no.	⟷	⬡ mm	○ mm	○ "	kg	PU
687/150	150	30	32	1 1/4	0,135	1
687/180 ✸	180	36	40	1 1/2	0,191	1
687/250 ✸	250	46	50	2	0,326	1
687/300 ✸	300	60	70	2 3/4	0,550	1

Water pump pliers | automatic

- Chrome vanadium steel
- nose brightly polished
- soft dip insulated anti-slip handles, yellow
- automatic jaw width adjustment bysimply sliping handles together, without snap adjustment
- with finger pinch protection
- patented technology

Art. no.	⟷	⬡ mm	○ mm	○ "	kg	PU
682/250	250	42	46	1 1/2	0,361	1

Water pump pliers

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 handle setting with finger clamp protection.

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

Art. no.	⟷	⬡ mm	○ mm	○ "	kg	PU
687/400	400	100	104	3 1/2	1,376	1

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Instrument Keys

Fittings pliers | Key pliers

- Chrome vanadium steel, matt chrome-plated
- automatic jaw width adjustment, with push-button single hand adjustor
- with finger pinch protection
- a parallel gripping and a moving jaw
- smooth, polished gripping surfaces
- soft dip insulated anti-slip handles, yellow
- weight-reduced
- 10 times hand force
- replaces open-end wrench set

Art. no.	↔	⬡ mm	⬡ "	⬡ "	kg	PU
689/180 ✸	180	36	1 7/16	1	0,350	1
689/240 ✸	240	50	2	2	0,375	1
689/300 ✸	300	68	2 3/8	2 1/2	0,725	1

Instrument key

- Chrome vanadium steel
- inner roller
- protective jaws made of brass
- length 300 mm
- span width 80 mm

Art. no.	↔	⬡ mm	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 width 80 mm

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

More Pliers

Folding pliers

- forged steel
- straight shape
- length 260 mm
- jaw width 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 width 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 width 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

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

✸ Best-seller Premium product

More Pliers

Siphon pliers

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

Art. no.	⟷	⇕ ○ mm	kg	PU
663	240	80	0,280	1

Schaffner control pliers

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

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

Revolving punch pliers

- special sheet steel
- with 6 pipes: Ø 2.0, 2.5, 3.0, 3.5, 4.0, 4.5 mm
- length 220 mm

Art. no.	⟷	Ø mm	kg	PU
516/220	220	2,0 – 4,5	0,336	1

Lead pipe sizing pliers

- made of sheet steel
- length 240 mm
- pipes Ø 1 1/2“
- for tubes up to 54 mm

Art. no.	⟷	Ø mm	kg	PU
696/240	240	40	0,434	1

Blind riveting pliers

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

Art. no.	⟷	Ø mm	kg	PU
522	200	2,4 – 5	0,625	1

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More Pliers

Strap wrench

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

Art. no.	B	Ø mm	kg	PU
660	20	170	0,233	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Screwing Tools

BRINKO
powered by haupa

Screwdriver set

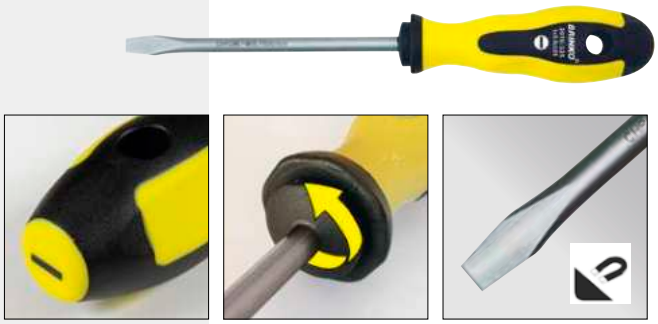
- 6 pieces:
  4 slot-head screwdrivers 80 x 3, 100 x 4, 125 x 5.5, 150 x 6.5 mm
  2 Pozidriv screwdrivers PZ 1, PZ 2
- chrome vanadium steel
- matt chrome-plated blades
- 2-component handle with a hole

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

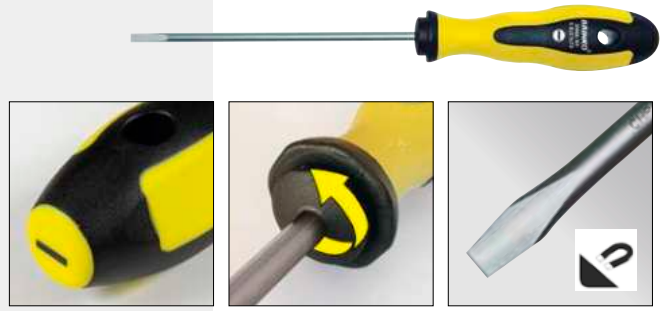


Roll repressive

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

Screwdriver

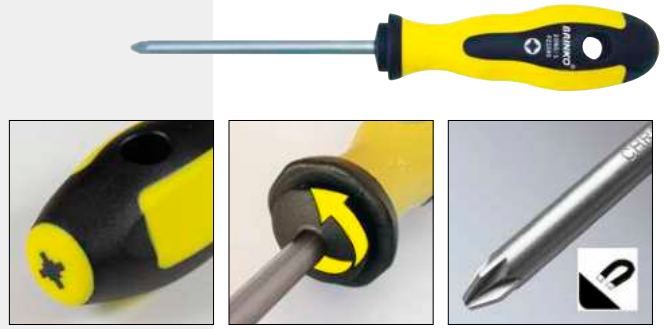
- Chrome vanadium steel
- matt chrome-plated blade
- 2-component handle with a hole



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

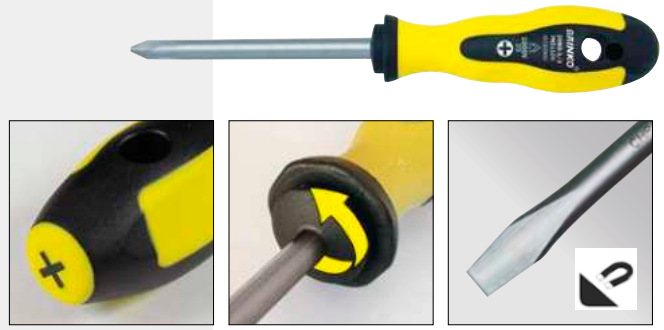


Roll repressive

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

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

✷ Best-seller 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

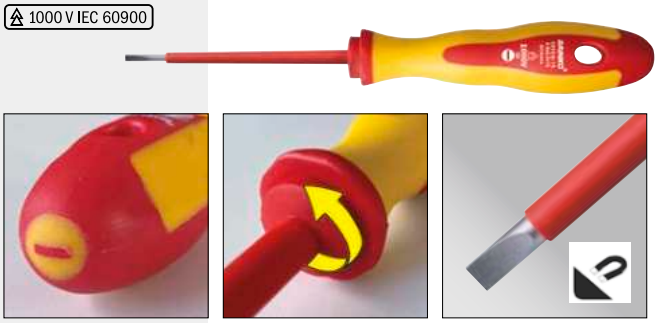
Roll repressive

Art. no.	set	kg	PU
2126/7 ✷	7	0,514	1

Screwdriver 1000 V

- 1000 V, chrome vanadium steel
- matt chrome-plated blade with protective insulation
- 2-component handle with a hole
- individually tested to IEC 60900

1000 V IEC 60900



Roll repressive

Art. no.	BL	BL	kg	PU
2073-8/75	75	2,5	0,035	1
2073-8/100	100	4	0,056	1
2073-8/125	125	5,5	0,088	1
2073-8/150	150	6,5	0,110	1

Screwdriver 1000 V | PZ

- 1000 V, chrome vanadium steel
- matt chrome-plated blade with protective insulation
- 2-component handle with a hole
- individually tested to IEC 60900

1000 V IEC 60900

Roll repressive

Art. no.	BL	PZ	kg	PU
2079-18/1	80	1	0,060	1
2079-18/2	100	2	0,090	1

Screwdriver 1000 V | PH

- 1000 V, chrome vanadium steel
- matt chrome-plated blade with protective insulation
- 2-component handle with a hole
- individually tested to IEC 60900

1000 V IEC 60900

Roll repressive

Art. no.	BL	PH	kg	PU
2079-8/1	80	1	0,059	1
2079-8/2	100	2	0,090	1

Safety voltage tester

- blade Chrome vanadium steel
- for 150 – 250 V AC, with clip
- total length 145 mm
- slot width 4 mm

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

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Voltage tester set

- blade Chrome vanadium steel
- for 150 – 250 V AC, with clip
- set 145 mm long
- slot width 4 mm, 12 units in a plastic tear-off bag

Art. no.	⟷	BL	kg	PU
2088-1/145	145	4	0,018	12

Screwdriver set with striking cap

- 2 K impact screwdrivers
- Slot-head and cross-head PH with hexagonal shaft and striking cap
- for attachment point with continuous blade and strike plate
- made of CV steel for direct impact transfer from plate to tip
- Sizes:
  slot-head 1 x 3.5 | 1 x 4.5 | 1 x 5.5 | 1 x 6.5
  cross-head 1 x PH1 size 5 | 1 x PH2 size 6

Roll repressive

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

TX Screwdriver set

6 pieces:
Security torx screwdrivers 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	0,569	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	0,124	1

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

✸ Best-seller PREMIUM Premium product

Bit tools

BRINKO®
powered by haupa®

Bit tools

Bit holder

1/4"

- 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.	⟷	Blade length	kg	VE
2142	465	350	0,170	1

Bit holder

1/4"

- 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.	⟷	Blade length	kg	VE
2142-1	205	100	0,107	1

Wheel ratchet for bits

Easy to handle in tight spaces
- Wheel for bits
- incl. magnet
- supplied with extension (Bits are not included)

LOOSEN

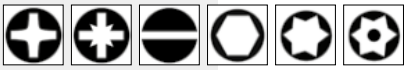
TIGHTEN

Art. no.	Ø	Height	kg	PU
2139	40	20	0,099	1

Bit set | 32 pieces | colour-coded

1/4"

- 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	Pieces
cross slot Philips	red	PH Gr. 1, 2, 2, 3	1
cross slot Pozidriv	green	PZ Gr. 1, 2, 2, 3	1
slot	blue	3, 4, 5, 6 mm	1
allen key	yellow	3, 4, 5, 6 mm	1
Tx	orange	Tx 10, 15, 20, 25, 27, 30, 40	1
Security Tx	violet	STx 10, 15, 20, 25, 27, 30, 40	1

Art. no.	set	kg	PU
2145	32	0,247	1

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

Best-seller Premium product

Wrenches, Keys and Inserts

BRINKO®
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Open-End & Point Ring Wrenches

Ratchet wrenches 4 in 1

4 in 1
The ratchet wrench handles 4 different nut sizes
- 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
- Chrome-vanadium steel, chrome-plated
- extremely robust

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

Art. no.	⟷	span width	span width	kg	PU
83 ✸	200	10 x 13	17 x 19	0,283	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	0,049	1
56/12x13	12	13	0,061	1
56/14x15	14	15	0,082	1
56/14x17	14	17	0,110	1
56/16x17	16	17	0,114	1
56/17x19 ✸	17	19	0,180	1
56/18x19	18	19	0,151	1
56/20x22	20	22	0,203	1
56/21x23	21	23	0,230	1
56/22x24	22	24	0,248	1
56/24x27 ✸	24	27	0,302	1
56/25x28	25	28	0,400	1
56/30x32	30	32	0,498	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

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	span width	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	span width	kg	PU
66-1/8	7	6 – 19	0,890	1
66-1/10 ✸	10	8 – 22	1,112	1

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

✸ Best-seller PREMIUM Premium product

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	span width	kg	PU
81-1/10	10	6 – 27	2,196	1

Adjustable wrench

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

Art. no.	⟷	span width	degrees °	kg	PU
49/250	250	30	22	0,421	1
49/310	310	36	22	0,657	1

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Socket wrench set “BRImultiLock” | 87 pieces

1/2" 1/4"

Troubleshooter!
BRINKO „BRImultiLock“ for damaged, contorted Hex-Bolts
- Reversible ratchet with inner and outer hexagon
- twelve-tooth profile, 1/2“ and 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“, 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
- 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	87	5,931	1

Socket wrench set “BRImultiLock” | 55 pieces

1/4"

Troubleshooter!
BRINKO „BRImultiLock“ for damaged, contorted Hex-Bolts
- Reversible ratchet with inner and outer hexagon
- 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	55	1,836	1

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

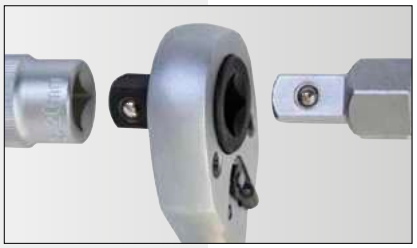
Best-seller Premium product

Reversible ratchet 1/2"

1/2"

- 1/2“ drive with square socket and square drive bit
- length 250 mm

Material: Cr-V; Cr-Moly steel | Industrial quality | Standards: DIN 3122; ISO 3315 | Finishing: Silver mat finished | Torsion: 30% higher than DIN | LifeTime: 20k circle times



Art. no.	⟷	kg	PU
129-3/250	250	0,520	1

Reversible ratchet 1/2"

1/4"

- 1/4“ drive connecting square
- length 110 mm

Material: Cr-V; Cr-Moly steel | Industrial quality | Standards: DIN 3122; ISO 3315 | Finishing: Silver mat finished | Torsion: 30% higher than DIN | LifeTime: 20k circle times

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	0,138	1

“BRImultiLock” insert

1/2"

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

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

PREMIUM

Art. no.	span width	kg	PU
129-12/10	10	0,046	1
129-12/11	11	0,058	1
129-12/13	13	0,050	1
129-12/14	14	0,063	1
129-12/17	17	0,061	1
129-12/19	19	0,065	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
- length 265 mm
- WITHOUT connecting square

Art. no.	⟷	kg	PU
672/265	265	0,459	1

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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

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	0,044	1

PU Packing unit PE Price unit

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

Best-seller Premium product

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	1,140	1

Socket wrench

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

Art. no.	span width	kg	PU
94/10	10	0,080	1
94/13	13	0,860	1
94/17	17	0,809	1
94/19	19	0,914	1
94/22	22	1,190	1
94/36	36	1,366	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.	↔	span width	kg	PU
104/3	90	3	0,025	1
104/4	90	4	0,028	1
104/5	100	5	0,030	1
104/6	112	6	0,060	1
104/8	125	8	0,083	1
104/10	140	10	0,159	1

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Torque wrench

Torque wrench

1/4"

- 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 Keys

Hex key set

- 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	Tx	kg	PU
110	9	10 – 50	0,418	1

Hex key set

- 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
- with belt clip

Art. no.	set	size	kg	PU
114	9	1.5 – 10	0,422	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Hex key set

- 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

T-HANDLE

SCREWDRIPUR-HANDLE

ANGLED HANDLE

Art. no.	set	size	kg	PU
115/2	9	1.5 – 10	0,513	1

Tap extension wrench

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

Art. no.	size	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

Hex key

- 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	0,203	1
112/14	14	0,283	1
112/15	15	0,307	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

1/4"

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®
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Handwheel socket „BRIwheelNut“ 1/2"

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. Nr.	⟷	SW	kg	VE
129-50 ✷	34	42	0,141	1

Bath installation set “deluxe” | 16 pieces 1/2"

Scope of supply in case:
- S-bend connector assembly tool, 3/4“
- 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	3,200	1

Bath installation set “basic” | 6 pieces 1/2"

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

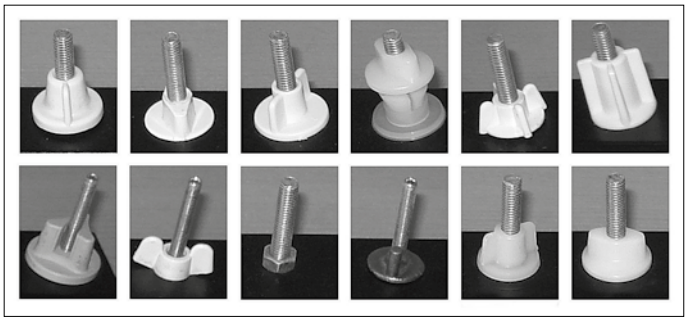
Art. no.	set	kg	PU
677 ✷	6	3,794	1

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

✷ Best-seller Premium product

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



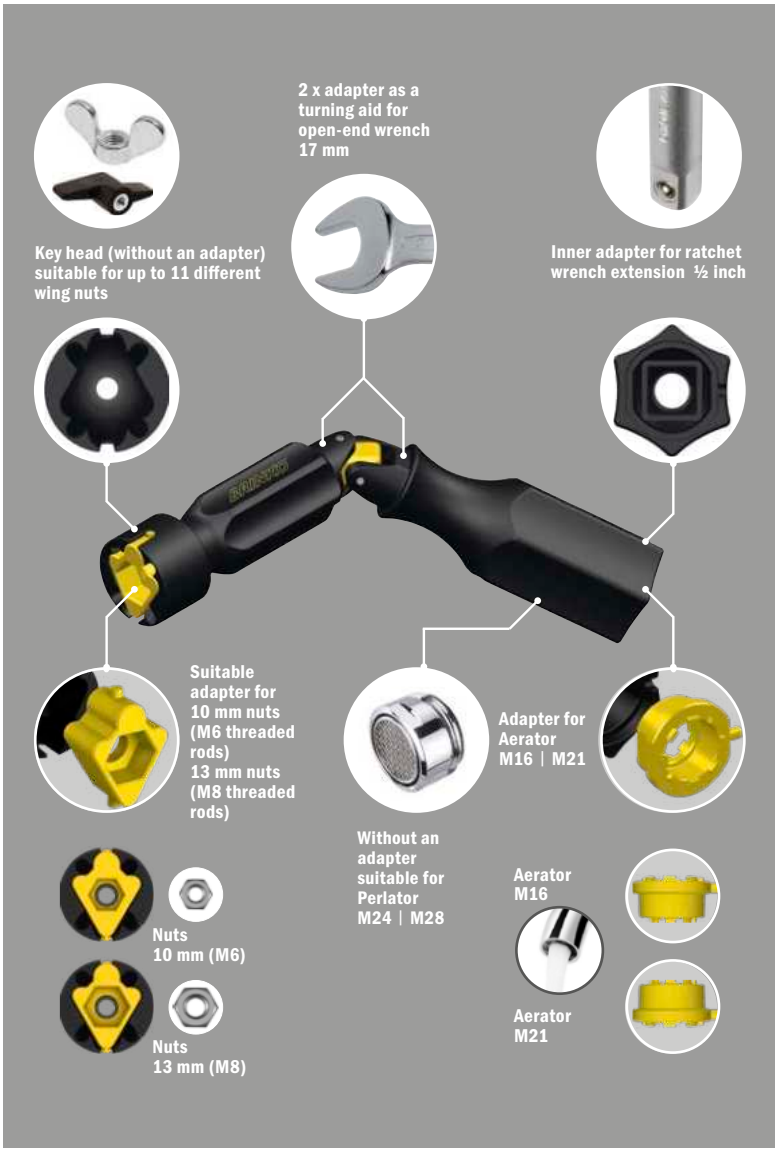
Art. no.	kg	PU
661 ✷	0,060	1

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	VE
662	200	0,100	1

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Combination washbasin tap wrench

- for all fittings up to 14 mm, size 32 mm
- 4 inserts in shank: 9, 10, 11, 12 mm + 13 mm as shank
- switchable claw with spring
- knurled handle
- Sizes 8 and 14 mm on request Art. No. 655-1/8 and 655-1/14

Art. no.	set	kg	PU
655 ✷	6	0,527	1

Washbasin tap wrench insert

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

Art. no.	span width	kg	PU
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.	⟷	span width	kg	PU
665/235	235	8 – 32	0,495	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	0,873	1

S-connection assembly tool 1/2"

- inserting and removing tool
- turns to left and right
- wear-resistant rollers
- square socket for 1/2“ drive + span width 36
- for all common S-connectors with 3/4“ thread and SW36 drive

Art. no.	kg	PU
676	0,267	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.	span width	kg	PU
659	32	0,230	1

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

✷ Best-seller Premium product

Combination angle valve key

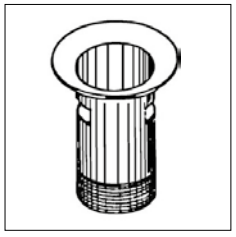
1/2"

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.
Common 1/2" ratchets or socket wrenches are used for driving.

Art. no.	⟷	kg	PU
659-1	75	0,241	1

Valve holder

- to lock eccentric and standard valves in place, when installing siphons and drains, on washbasins and sinks etc.
- with a flexible T-handle
- length 120 mm



Art. no.	⟷	kg	PU
725 ✷	120	0,195	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

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	0,112	1

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Assembly Connection Gauge

- 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	1,245	1

Tap reseating tool

- cylindrical shape with two compression springs
- flat milling cutter
  size 1 | 3/8 - 1/2 - 3/4“
  size 1 | 3/8 - 1/2 - 3/4“ - 1"

Art. no.		kg	PU
714/1	1	0,350	1
714/2	2	0,338	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	3/4"	0,021	1
718/1	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.	quantity	kg	PU
715/2	5	0,877	1

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

Best-seller Premium product

Plumbing installation wrench

- 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.	⟷	span width	kg	PU
105/10 ✷	215	17 – 19	0,242	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.	span width	kg	PU
106-2	10 – 22	0,540	1

Plumbing four-way socket wrench

- DBGM (utility model protection) 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.	span width	kg	PU
106	10 – 22	0,570	1

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Hanger bolt spanner

Hanger bolt nut

1/2"

- Hanger bolt nut Ø 10 mm
- universal attachment for all 1/2“ ratchet and hexagonal SW 22 mm
- 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.	kg	PU
101/10	0,188	1

Hanger bolt driver

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	0,084	1
102/10 ✸	10	0,114	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	0,288	1

Step Wrenches

Step wrench set

1/2"

- 1 resetting ratchet Art. no. 672/265
- 1 step wrench, 86 mm Art. no. 673/86
- supplied in DIY pouch

Art. no.	⟷	kg	PU
675 ✸	86	0,556	1

Step wrench set

1/2"

- 1 reversible ratchet Art. no. 672/265
- 1 step wrench, 105 mm Art. no. 673/105
- supplied in DIY pouch

Art. no.	⟷	kg	PU
674 ✸	105	0,679	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	0,237	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	0,280	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

Step Wrenches

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
- 6 steps 9.5, 9.8, 11.8, 12.8, 13.8, 17.0

Art. no.	⟷	span width	kg	PU
673/86 ✷	86	9,5 – 17	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.	⟷	span width	kg	PU
673/105 ✷	105	8 – 22	0,136	1

Step wrench for gas

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

Art. no.	⟷	span width	kg	PU
673-1/1	86	12 – 15	0,138	1

Step wrench for gas

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

Art. no.	⟷	span width	kg	PU
673-1/2	86	19 – 24	0,175	1

Step wrench for gas and water

- 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.	⟷	span width	kg	PU
673-2/2	86	15 – 24	0,181	1

Step wrench

- with movable T-handle
- small design for valve nipples
- 2 steps for valve nipples 3/8", 1/2" with slot

Art. no.	span width	kg	PU
666/1	9,5 – 12,7	0,106	1

Step wrench

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

Art. no.	span width	kg	PU
666/2	10 – 17	0,195	1

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Sleeve extractor

Sleeve extractor set

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

Supplied in a stable case, 5-piece set
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	PU
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.	inch	kg	PU
1087/5	3/8	0,096	1
1087/7	1/2“ – 3/4	0,262	1

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

✸ Best-seller Premium product

Hole Saws

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Hole 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

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

Art. no.	Sbl.	kg	PU
1728/146	146	0,095	1

Universal bow saw | fold-down

- with all-purpose saw blade
- fold-down wooden handle
- span width 146 mm

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

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

Best-seller Premium product

Hand saw blades

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 ✷	150	24	0,002	12

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	150	32	0,002	12

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	150	14	0,029	12

Metal cutting saw blade HSS

- HSS, flexible
- 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	10

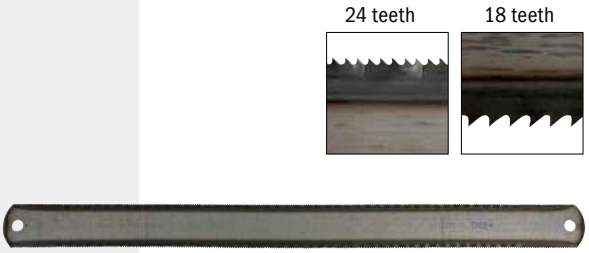
Metal cutting saw blade HSS-Bi-metal

- 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	10

Metal cutting saw blade

- spring steel (C 75)
- length 300 mm | width 25 mm | thickness 0.8 mm
- serrated on both sides 24 teeth for metal and 14 teeth for plastic
- suitable for metal saw bow Art. no. 1724



Art. no.	⟷	TPI	kg	PU
1740/300 ✷	300	24 | 14	0,044	10

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Cutting

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Universal knife

“Das Original” BRINKO cutter knife
- ergonomic 2-component handle with soft plastic
- blade feed with automatic lock
- 2 replacement blade strips in the handle

Art. no.	kg	PU
2980 ✷	0,103	1

Blade dispenser „Black Blades“

“Original” BRINKO “Black Blades”
- 10 strips of „Black Blades“
- super-sharp, reinforced design
- width 18 mm, thickness 0.5 mm
- suitable for universal knife Art. no. 2980

Art. no.	kg	PU
2982 ✷	0,081	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.	KL	kg	PU
3520	111	0,071	1

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

✷ Best-seller PREMIUM Premium product

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

Shears

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	0,581	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	0,609	1

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	0,500	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	0,514	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	0,470	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

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Hammers and Chisels

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Hammer

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

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

Chisels

Chisel

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

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

Sharp chisel SDS-Plus

- for electric hammers
- entire length 250 mm

Art. no.	⟷	kg	PU
1340/250	250	0,171	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	0,253	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	0,264	1

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

✸ Best-seller Premium product

Chisels

Nail setter

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

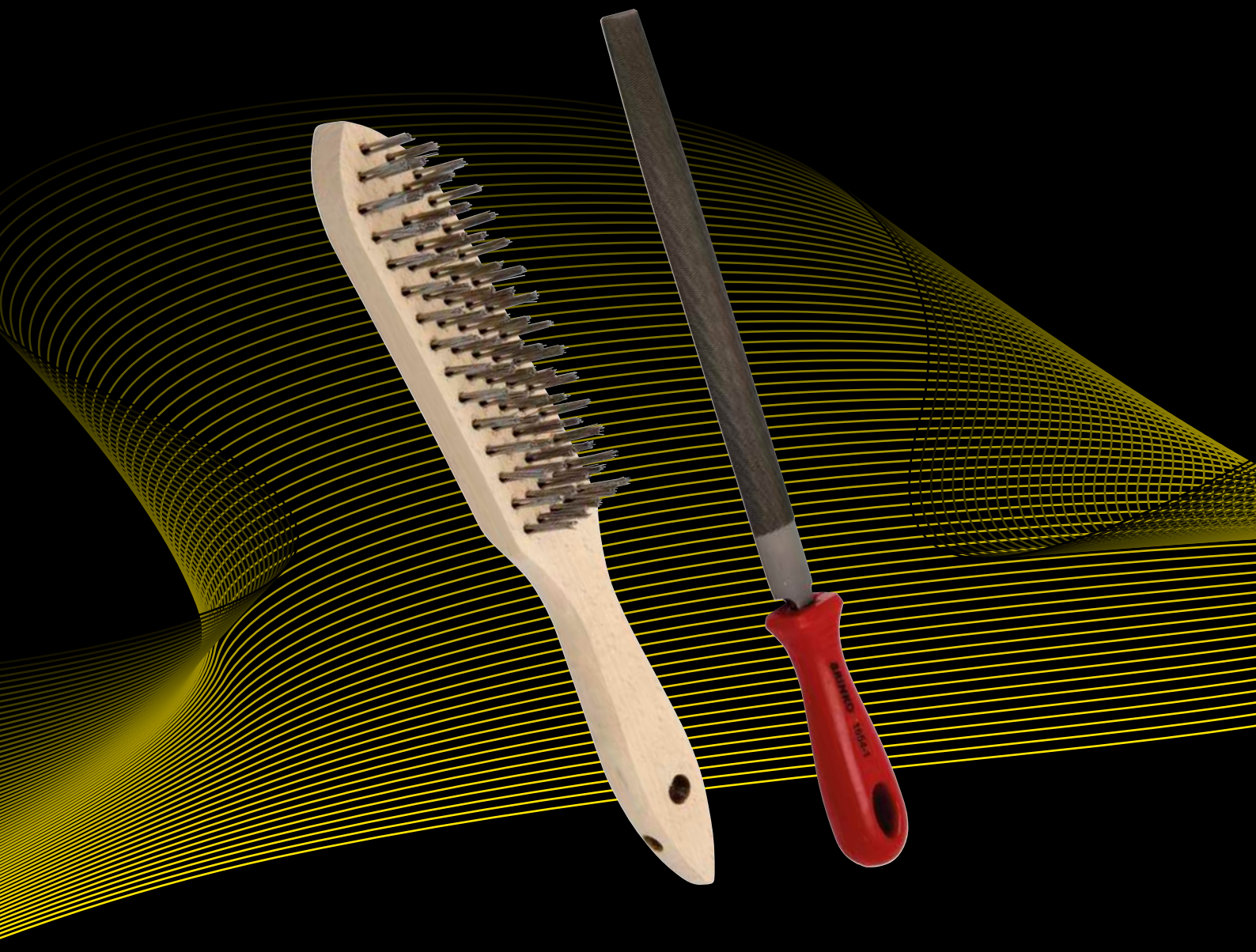
Art. no.	length	kg	PU
1391/6	6	60,162	1

Pointed punsh

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

Art. no.	⟷	thickness	kg	PU
1315/120-10	120	10	0,062	1
1315/120-12	120	12	0,089	1

Brushes and Files



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Brushes

Wire brush

- fitted with steel wires
- beechwood body with hanging hole

Art. no.	⟷	rows	kg	VE
1708/3	295	3	0,103	1
1708/4 ✸	295	4	0,151	1
1708/5	295	5	0,145	1

Wire brush

- fitted with brass wires
- beechwood body with hanging hole

Art. no.	⟷	rows	kg	VE
1708-1/3	295	3	0,116	1
1708-1/4	295	4	0,137	1

Burner brush

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

Art. Nr.	⟷	rows	kg	VE
1709-1/80 ✸	200	2	0,027	1

Burner brush

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

Art. no.	⟷	rows	kg	VE
1710	225	2 x 13	0,130	1

Fitting brush

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

Art. no.	for pipes Ø	kg	PU
1706/12	12 mm, 3/8"	0,027	1
1706/15 ✸	15 mm, 1/2"	0,025	1
1706/18	18 mm, 5/8"	0,027	1
1706/22	22 mm, 3/4"	0,028	1
1706/28	28 mm, 1"	0,038	1

Fitting brush

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

Art. no.	for pipes Ø	kg	PU
1706-1/15	15 mm, 1/2"	0,055	1
1706-1/18	18 mm, 5/8"	0,055	1
1706-1/22	22 mm, 3/4"	0,060	1

Fitting brush

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

Art. no.	for pipes Ø	kg	PU
1705/12	12 mm, 3/8"	0,021	1
1705/15	15 mm, 1/2"	0,026	1
1705/18	18 mm, 5/8"	0,034	1
1705/22	22 mm, 3/4"	0,032	1
1705/28	28 mm, 1"	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	VE
1709/40x20 ✸	175	3	0,023	1

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

✸ Best-seller Premium product

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 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

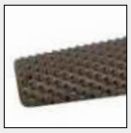
Engineer's file round

- 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

Wood rasp

- with plastic handle
- grade of cut 2: semi-fine, cut number 10 – 25
- cut length 250 mm
- width 23.8 mm
- thickness 7 mm



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

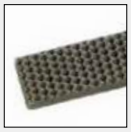
Installation rasp

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

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

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	0,080	1

Plasterer's spatula

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

Art. no.	blade 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.	blade length	kg	PU
2904/140	140	0,166	1

Tongue trowel

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

Art. no.	blade length	kg	PU
2908/160	160	0,139	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Brushes

Water brush

- pure China bristles

Art. no.	kg	PU
2998	0,026	1

Flat brush

- pure China bristles

Art. no.	Width	kg	PU
2999-1/25	25	0,016	1
2999-1/50	50	0,031	1

Solder water brush

- with sheet metal sheath and natural bristles

Art. no.	kg	PU
2999	0,002	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
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 PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

Best-seller Premium product

Tool case “BRIactive”

Hard-top case, black, fitted with 23 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
- 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 150 - 250 V | 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

* perfected cutting force performance

Art. no.	set	empty	kg	PU
7419	23	7410	11,700	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 35 mm / 1 3/8“, up to Ø 32 mm / 1 1/4“
- 655 Combination washbasin tap wrench
- 666/2 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
- 2705/2 Cutting Folding ruler 2 m
- 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

Art. no.	set	empty	kg	PU
7418	22	7410	11,809	1

BRINKO® powered by haupa

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

Tool case “Plumbing EXCLUSIPU”

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
- 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 Safety voltage tester 150 - 250 V | 4.0 x 145 mm
- 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

ABS 25kg

Art. no.	set	empty	kg	PU
7438	37	7410	16,489	1

Tool case “Plumbing Swimming pool EXCLUSIPU”

ABS

Hard-top case, black, fitted with 35 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 Open-end wrench 8 x 9, 10 x 11, 12 x 13, 14 x 15, 17 x 19 mm
- 114 Hex key set
- 201031 Cable stripper
- 102530 Socket wrenches DIN 7445 8 x 125 mm
- 102534 Socket wrenches DIN 7445 10 x 125 mm
- 211214 Wire stripping pliers VDE
- 211198 Combination pliers DIN ISO 5746 VDE
- 211217 Heavy duty side cutters DIN ISO 5745 VDE
- 211208 Long chain nose pliers DIN ISO 5745 VDE
- 1333/200-10 Electrician‘s chisel 10 mm
- 1470/300 Cross peen hammer 300 g
- 1726/146 Universal bow saws
- 1709/40x20 Brass brush
- 1728/146 Universal bow saws
- 2073-8/75 Slot-head screwdriver 2.5 x 75
- 2073-8/100 Slot-head screwdriver 4 x 100
- 2073-8/125 Slot-head screwdriver 5.5 x 125
- 2073-8/150 Slot-head screwdriver 6.5 x 150
- 2081/1 Screwdriver | PZ1 x 80 / 5 mm
- 2081/2 Screwdriver | PZ2 x 100 / 6 mm
- 2088/145 Safety voltage tester 150 - 250 V | 4.0 x 145 mm
- 3525 Cable stripping knife
- 516/220 Revolving punch pliers
- 210761 Crimping pliers
- 627 Combination pipe cutter
- 635-5 Plastic pipe cutter
- 660 Strap wrench
- 792/250 Punching shears
- 2999-1/25 Solder water brush 25 mm, 1“
- 2999 Solder water brush
- 103800 Voltage tester “Basic +”

ABS 25kg

Art. no.	set	empty	kg	PU
7530	35	7410	14,963	1

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

Best-seller Premium product

NEW

Young technician toolbox - Plumbing/heating

ABS

Hard-top case, black, fitted with 23 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 and 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	11,000	1

Apprentice case „BRIbasic“

ABS

Hard-top case, black, fitted with 14 special tools
- dimensions 480 x 410 x 215 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:
- 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
- 680/240 Water pump pliers 240 mm
- 1470/300 Cross peen hammer 300 g
- 633/35 Pipe cutter
- 2980 Universal knife
- 105/10 Plumbing installation wrench
- 1728/146 Universal bow saws
- 111/2 Hex key set, 7 pieces, 2.5, 3, 4, 5, 6, 8, 10 mm,
- 2839 Spirit level

Art. no.	set	empty	kg	PU
7416	14	220030	8,880	1

BRINKO® powered by haupa

“Skater” tool trolley

HDPE

Hardshell case made of PP plastic
dimensions 470 x 360 x 220 mm

- stiff frame made of reinforced aluminium
- 3 strong hinges on the back, strong lid support
- impact-resistant and shock-proof
- resistant to chemicals, temperature-resistant
- ergonomic, non-slip carrying handle
- telescopic handle and ball bearing mounted wheels
- 2 key-operated locks, 1 name plate

INSENSITIPU

CORROSION FIRMLY

SHOCKRESISTANT

BIKES

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

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

Best-seller Premium product

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 EXCLUSIPU”

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
- 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 Safety voltage tester 150 - 250 V | 4.0 x 145 mm
- 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	45	7360	11,815	1

Tool bags

BRINKO®
powered by haupa®

Construction bucket set | 15 pieces

Tool bag made of extra strong polyester 1680D including bucket 12 litres and 13 other products

- Tool bag to hang or slip over construction buckets
- different sizes of bags can be used to hold the tools
- can be supplemented with further articles

Contents:

- 220313 Tool holder for bucket
- 300102 Construction bucket 12 litres
- 2980 Professional universal knife
- 662 Toilet seat and sanitary installation wrench
- 2952/50 Painter's spatula, 50 mm
- 687/250 Water pump pliers, with push button, 250 mm
- 2524/235 All-purpose pen
- 106-2 Sanitary cross wrench
- 2126/7 Screwdriver set 1000 V

Art. no.	set	empty	kg	PU
9025	15-teilig	220313	2,620	1

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	0,126	1
7000/15	680	330	0,260	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Servcie bag

Strong tool bag made of hard-wearing 600D Polyester
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

Service bag “Plumbing CLASSIC”

Strong tool bag made of hard-wearing 600D Polyester
fitted with 22 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
- 655 Combination washbasin tap wrench
- 666/2 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
- 2705/2 Cutting Folding ruler 2 m
- 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

Art. no.	set	empty	kg	PU
7516	21	7515	7,366	1

BRINKO®
powered by haupa

Refrigeration equipment

BRINKO® powered by haupa®

INFO

New challenges, new possibilities

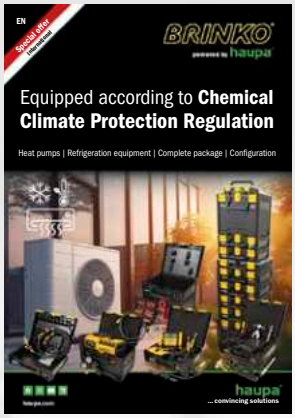
Cold-climate equipment from BRINKO
With the goal of improving environmental protection, the demand for new and sustainable heating and water supply devices in residential construction has significantly increased, driven by regulations such as the Building Energy Act.

Craft businesses, both in the heating-plumbing and electrical engineering sectors, cannot afford to ignore this new challenge in order to stay competitive.
A tried and tested solution to this demand is the use of heat pumps and air conditioning units, which can be utilized for both cooling and heating spaces. Both systems operate on a refrigeration cycle powered by refrigerants.

This "new" technology requires additional qualifications from heating and plumbing professionals to install, repair, and maintain these devices.

Employees of craft businesses can acquire the required qualifications with the Category I Expertise Certificate according to the DUV EU 2015/2067, Chemical Climate Protection Regulation (Major Refrigerant Certificate), or with the Category II Expertise Certificate according to the DUV EU 2015/2067, Chemical Climate Protection Regulation (Minor Refrigerant Certificate).

Necessary company certification according to Climate Protection Regulation:
You can find more detailed information in our separate refrigeration technology brochure (see QR code). You will also find a list and explanation of the individual boxes included in our refrigeration and air conditioning sets.



BRINKO
Refrigeration equipment brochure

BRINKO, in collaboration with its wholesale partners, offers a compilation of the required tools, equipment, and specialized materials.

This includes almost all the listed products from the certification requirements (refrigerant bottles, recycling bottles for disposal, nitrogen bottles must be purchased from certified gas dealers).

The BRINKO „All-Inclusive Package“ is delivered mostly in the new BRINKO boxes. These boxes can be interlocked with each other to enable safe and easy transport in vehicles and to the deployment site.

With the BRINKO Complete Package, craftsmen are relieved of the interpretation of the required products in the certification process, the search for and identification of manufacturers, the uncertainty about whether the products meet the necessary quality standards, and the required specifications.

With the BRINKO cold-climate 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

NEW

Cold-climate set metric complete – „BRIcoolTec“ – SET1

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-linting non-woven cleaning cloths 30 x 38 cm – 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.	set	kg	PU
4901	92	94,980	1

NEW

Cold-climate set metric without brazing – „BRIcoolTec“ – SET2

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-linting non-woven cleaning cloths 30 x 38 cm – 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.	set	kg	PU
4902	91	82,280	1

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

Best-seller Premium product

NEW

Cold-climate set imperial complete – „BRIcoolTec“ – SET3

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-linting non-woven cleaning cloths 30 x 38 cm – 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.	set	kg	PU
4911	94	94,980	1

NEW

Cold-climate set imperial without brazing – „BRIcoolTec“ – SET4

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-linting non-woven cleaning cloths 30 x 38 cm – 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.	set	kg	PU
4912	93	82,280	1

BRINKO®
powered by haupa

INFO

BRIbox generation

Durable | Lightweight | Interlocking – Easy to transport safely

The new BRINKO BRIbox generation is characterized by great robustness with low weight. Another advantage is that different sizes of BRINKO boxes can be interlocked, ensuring safe and easy transport both in vehicles and to the place of use.

Special tools and aids for processing metric as well as imperial pipes are clearly arranged in specially made foam inserts.

Das BRINKO BRIbox-System ist kompatibel mit dem metaBOX-System.

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

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

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

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

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

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

BRINKO-Rollwagen
Outside dimensions:
495 x 380 x 155 mm

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

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

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

Best-seller Premium product

Measuring and Marking

BRINKO®
powered by haupa®

Pressure test

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.		kg	PU
7640	testing pump 60 bar	7,800	1
7640-1	manometer 60 bar	0,070	1
7640-2	pressure hose Ø 1/2 Zoll	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

PREMIUM

Art. no.		kg	PU
7641	testing pump 60 bar	6,400	1
7641-1	manometer 60 bar	0,070	1
7641-2	pressure hose Ø 1/2 Zoll	0,727	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	0,018	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	0,029	1

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

Best-seller Premium product

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	0,021	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	0,028	1

DRY leads | Graphite

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

Art. no.	quantity	kg	PU
2511-1	12	0,029	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	0,026	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	0,014	1

Carpenter's pencil

- oval
- unsharpened
- painted yellow
- length 240 mm

Art. no.	⟷	kg	PU
2523/240	240	0,012	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

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

Best-seller Premium product

Marking chalk red

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

Art. no.	⟷	kg	PU
2525	120	0,010	1

Marking chalk yellow

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

Art. no.	⟷	kg	PU
2525-1	120	0,010	1

Marking chalk blue

- for marking wood, stone, concrete, steel
- 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	0,026	1

Set of numbers

- Normal quality
- to be hammered into steel and iron

Art. no.	number height	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.	number height	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

Brackets

Bracket

- steel, rust-proof
- long handle 700 mm, short handle 300 mm
- handle width 35 mm

Art. no.	⟷ long	⟷ short	kg	PU
2550/700	700	300	0,448	1

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.	⟷ long	⟷ short	kg	PU
2562/1000	1000	500	2,214	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Feeler gauge

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

Art. no.	⟷	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	0,040	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

Gloves

BRINKO®
powered by haupa®

Breathable protective gloves

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

PREMIUM

EN 388 4121

Art. no.	size	size	kg	PU
3454/9	9	L	0,043	1
3454/10	10	XL	0,043	1
3454/11	11	XXL	0,043	1

Work gloves

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

PREMIUM

EN 388 3143

Art. no.	size	size	kg	PU
3458/9	9	L	0,105	1
3458/10	10	XL	0,063	1

Work gloves – Final assembly

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

EN 388 4131

Art. no.	size	size	kg	PU
3459/10	10	XI	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

EN 388 4543

5

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

PU Packing unit PE Price unit

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

Best-seller Premium product

Safety- and welder’s goggles

BRINKO®
powered by haupa®

Safety Glasses

Safety glasses

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

Art. no.	kg	PU
4255	0,062	1

Safety glasses

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

Art. no.	kg	PU
4266	0,060	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

- 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

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

PU Packing unit PE Price unit

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

Best-seller Premium product

Welder's Goggles

Welder’s tightly fitting safety goggles

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

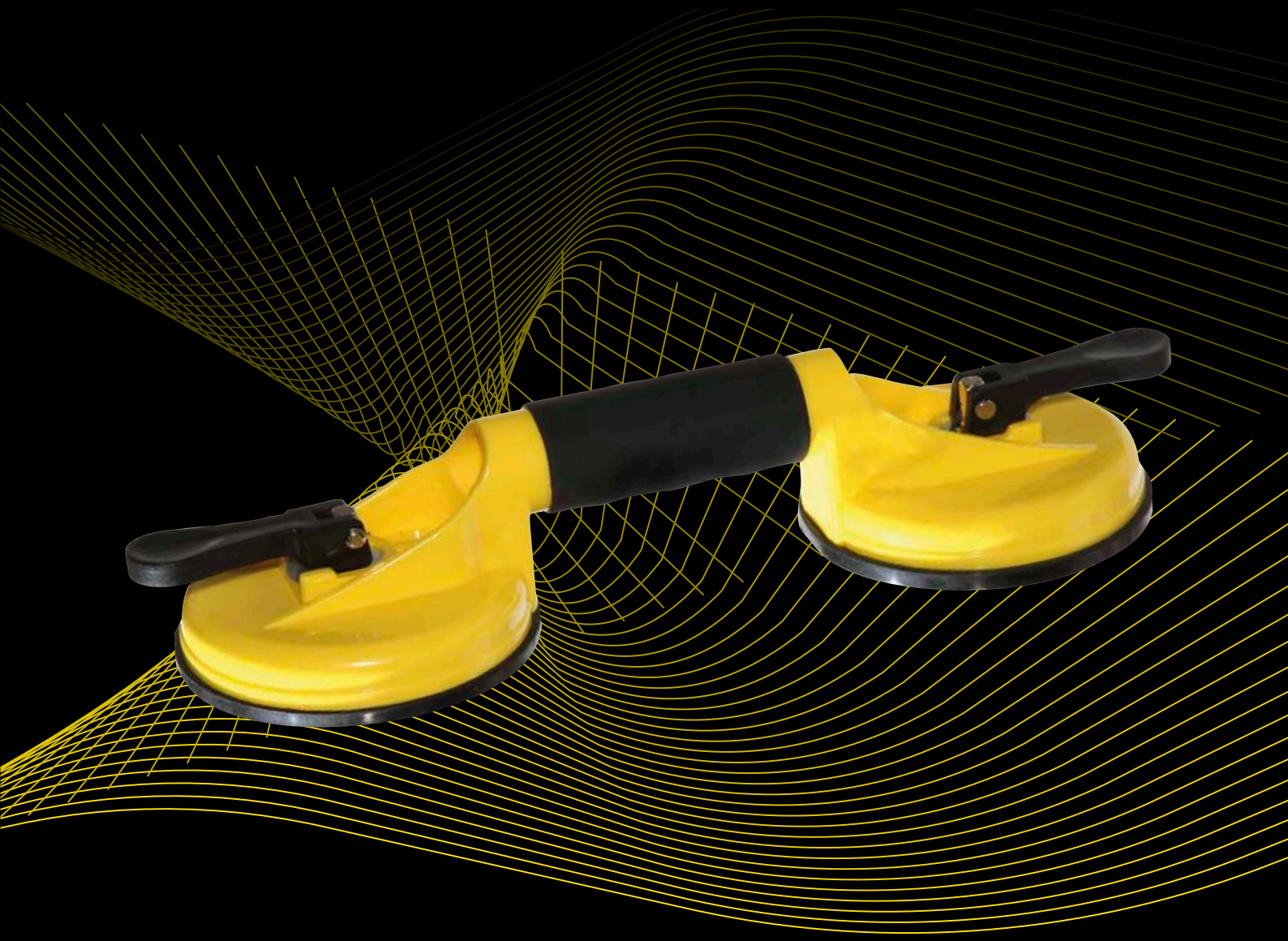
Art. no.	kg	PU
4250	0,077	1

Replacement lenses

- Ø 50 mm, shatterproof
- suitable for safety goggles art. no. 4250

Art. no.	Colour	kg	PU
4262	colourless	0,034	1

Safety and load securing



BRINKO®
powered by haupa®

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 Suction Cup 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, ▲▼ 40 kg
- 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
- 10 Stück im Beutel

Art. no.	dB	kg	PU
1140/8	1000	0,695	10

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

Best-seller Premium product

Tube machining

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powered by haupa®

Pipe cutter

Carbon steel, stainless steel pipe cutter

Special pipe cutter for INOX, C-steel and Cu pipes
For 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
- easy to bring the wheel to the tube due to the heavier zinc diecast swing whandle

Art. no.	Ø	kg	PU
633-71/35 ✸	3 – 35	0,335	1

Replacement parts for INOX pipe cutter 633-71/35

		PU
633-75A	Cutting wheel **with needle bearing** | Stainless steel, carbon steel	1
633-76	Guide roller set with needle bearing	1
633-2	Deburrer	1
633-4	Wheel bolt	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

		PU
622-1	Cutting wheel | Stainless steel, carbon steel	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	0,138	1

Replacement parts for mini pipe cutter 631

		PU
632-1	Cutting wheel | Stainless steel, copper, brass	1
632-11	Cutting wheel | Copper, brass	1
631-2	Roller	1
631-3	Roller bolts	1
631-4	Wheel bolt	1

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

✸ Best-seller PREMIUM Premium product

Miniature pipe cutter

For stainless steel, copper and brass pipes Ø 3 – 25 mm, 1/8 – 1“
- particularly suitable for working in places that are difficult to access

Art. no.	Ø	kg	PU
631-5	3 – 25	0,188	1

Replacement parts for miniature pipe cutter 631-5

		PU
632-1	Cutting wheel | Stainless steel, copper, brass	1
632-11	Cutting wheel | Copper, brass	1
631-52	Roller	1
631-53	Roller bolts	1
631-54	Wheel bolt	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	0,230	1

Replacement parts for compact pipe cutter 631-10

		PU
632-1	Cutting wheel | Stainless steel, copper, brass	1
632-11	Cutting wheel | Copper, brass	1
631-12	Roller	1
631-13	Roller bolts	1
631-14	Wheel bolt	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
- 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 – 32	0,336	1
633/45	9 – 45	0,620	1

Replacement parts for pipe cutter with deburrer 633

		PU
633-1	Cutting wheel | Plastic, composite	1
632-1	Cutting wheel | Stainless steel, copper, brass	1
632-11	Cutting wheel | Copper, brass	1
633-2	Deburrer	1
633-3	Roller	1
633-4	Roller bolts	1

Pipe cutter

Combination pipe cutter

For pipes Ø 6 – 67 mm, 1/4 – 2 1/2“
- rapid spindle adjustment
- 1 cutting wheel for plastic and composite pipe, Art. no. 627-5
- 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	0,540	1

Replacement parts for combination pipe cutter 627

		PU
627-2	Cutting wheel | Stainless steel, copper, brass, steel	1
627-5	Cutting wheel | Plastic (larger 6 mm)	1
627-4	Wheel bolt	1

INOX pipe cutter Plus with deburring unit

Special pipe cutter for INOX pipes Ø 6 – 76 mm, 1/4 – 3"
- fast feeder system

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

		PU
627-71	Cutting wheel | Stainless steel	1
627-4	Wheel bolt	1

Pipe cutter

For steel pipes with up to 2 mm wall thickness, in particular for galvanised pipes
- body made of forged steel
- specially sprung roller guide to protect the cutting wheel

Art. no.	Ø	kg	PU
629/2	10 – 60	2,173	1
629/4	32 – 115	5,300	1

Replacement parts for pipe cutter 629-2

		PU
629-1/2	Cutting wheel | Steel	1
629-2/2	Roller	1
629-3/2	Roller bolts	1
629-4/2	Wheel bolt	1

Replacement parts for pipe cutter 629-4

		PU
629-1/4	Cutting wheel | Steel	1
629-2/4	Roller	1
629-3/4	Roller bolts	1
629-4/4	Wheel bolt	1

Ratchet cut | Plastic

NEW

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

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

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

Best-seller Premium product

Cutting wheel

Plastic pipe cutter

- quick adjustment
- for thick-walled plastic pipes (PE, PP, PVDF) Ø 50 – 140 mm
- replacement cutting wheel Art. no. 628-1

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

Replacement parts for plastic pipe cutter 627

		PU
628-1	Cutting wheel | Plastic, multi-layer composite	1

Cutting wheel

Cutting wheel | Stainless steel

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

Art. no.	Outer Ø	Inner Ø	Thickness	kg	PU
627-71	19	5	5	0,005	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.	Outer Ø	Innen Ø	Thickness	kg	PU
627-1	25	5	6	0,005	1

Cutting wheel | Stainless steel

- especially for stainless steel, copper, brass, steel
- suitable for:
  Art.-no. 627
  Art.-no. 622/63

Art. no.	Outer Ø	Inner Ø	Thickness	kg	PU
627-2	20	5	6	0,005	1

Cutting wheel | Plastic

- especially for plastic and composite pipe with up to 8 mm wall thickness and for hard plastics with up to 2 mm wall thickness
- suitable for:
  Art.-no. 627

Art. no.	Outer Ø	Innen Ø	Thickness	kg	PU
627-5	30	5	6	0,005	1

Cutting wheel | Stainless steel, carbon steel

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

Art. no.	Outer Ø	Inner Ø	Thickness	kg	PU
622-1	19	6	3	0,003	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.	Outer Ø	Inner Ø	Thickness	kg	PU
633-75A	19	5	5	0,005	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.	Outer Ø	Innen Ø	Thickness	kg	PU
633-75	19	5	8	0,011	1

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Cutting wheel

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.	Outer Ø	Inner Ø	Thickness	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.	Outer Ø	Inner Ø	Thickness	kg	PU
632-11	20	5	5	0,055	1

Cutting wheel | Plastic, composite

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

Art. no.	Outer Ø	Inner Ø	Thickness	kg	PU
633-1	22	5	5	0,005	1

Cutting wheel | Steel

- suitable for:
  Art. no. 629

Art. no.	Outer Ø	Inner Ø	Thickness	kg	PU
629-1/2	31	9	19	0,029	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.	Outer Ø	Inner Ø	Thickness	kg	PU
628-1	53	8	11	0,026	1

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	0,500	1

Replacement blade | Plastic pipe scissors

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

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

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

Best-seller Premium product

Plastic Pipe Shears

Plastic pipe scissors

- with leverage transfer
- for pipes made of PVC, PE, PD, PEX, PVDF with up to 2 mm wall thickness
- for composite pipes

VIDEO | 635

Art. no.	Ø	kg	PU
635/35 ✷	35	0,407	1
635/42	42	0,360	1

Replacement blade | Plastic pipe scissors

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

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

Pipe Deburrer

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	0,378	1

Pipe deburrer

- for internal and external deburring of copper, aluminium and plastic pipes Ø 4 – 35 mm
- string plastic housing with 3 blades
- simple design

Art. no.	Ø	kg	PU
646	4-35	0,033	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	0,193	1
648/54	10-54	0,480	1

Calibration tool

- calibrator and punch
- hardened and ground
- for copper pipes without true size
- other sizes available on request

Art. no.	kg	PU
638/12	0,085	1
638/15	0,170	1
638/18	0,214	1
638/22	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 16 – 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

NEW

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.
- 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
- 7 Bending segments, aluminium die-casting 1/4”, 5/16”, 3/8”, 1/2”, 5/8”, 3/4”, 7/8”
- 3 counter-holder

Art. no.	quantity	Ø	kg	PU
637-30	11	1/4” – 7/8”	5,460	1

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

Best-seller Premium product

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.

- 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
- 5 Bending segments, aluminium die-casting 10, 12, 15, 18, 22 mm,
- 3 counter-holder

Art. no.	quantity	Ø	kg	PU
637-40	9	10 – 22	5,460	1

Bending segment pipes

- 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

- 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

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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
637-36/1	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

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	250	8-8	0,107	1
701/10	250	10-10	0,123	1
701/12	300	12-12	0,170	1
701/15	300	15-15	0,268	1
701/16	300	16-16	0,272	1

Pipe Bending Tools

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.

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.	quantity	kg	PU
720-30	9	2,940	1

Expander set metric – EXP-M

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.

Set of 9, comprising:
- Expander 6 – 10 – 12 – 16 – 19 – 22 – 25 – 28 mm
- Manual pipe expander with copper pipes

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

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

Best-seller Premium product

Pipe Cleaning Tools

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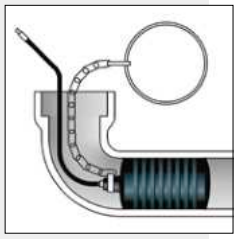
Sealing balloon

- easily seal pipes
- pneumatic sealing system for various pipe diameters
- suitable for compressed air hose Art. no. 3800-2



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

Compressed air hose

- Extension hose for sealing bubbles
- can be extended as required
- length 3 m

Art. no.	m	kg	PU
3800-2	3	0,330	1

Air pump with manometer

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

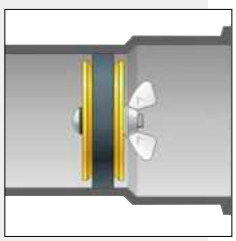
Art. no.	kg	PU
3800-3	1,554	1

Plug for inner pipe

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

- for unpressurized lines, seals only in the inner tube, can be placed as required

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



Art. no.	Tube Ø	kg	PU
3806/1	96 – 103	0,000	1
3806/2	147 – 154	0,802	1
3806/3	196 – 204	1,002	1

PU Packing unit PE Price unit

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

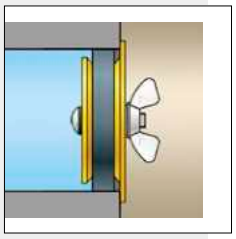
Best-seller Premium product

Plug for end pipe

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

- for unpressurized lines, seals only at the pipe end, does not fall into the inner pipe

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



Art. no.	Tube Ø	kg	PU
3805/1	39 – 42	0,075	1
3805/2	49 – 55	0,100	1
3805/3	71 – 79	0,229	1
3805/4	96 – 103	0,295	1
3805/5	147 – 154	0,812	1

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.	⟷ m	Ø mm	kg	PU
3720	7,5	30 – 50	3,500	1

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

Pipe cleaning equipment and accessories

Replacement shaft

- suitable for pipe cleaning device Art. no. 3720
- galvanised spring steel
- 7.5 m x 8 mm

Art. no.	m	kg	PU
3720-1	7,5	2,000	1

Quick release chuck

- suitable for pipe cleaning device Art. no. 3720

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

Pipe cleaning shaft

- single layer
- for household use and simple work

Art. no.	m	Ø mm	kg	PU
3700/3 ✸	3	5	0,279	1
3700/5	5	5	0,652	1

Pipe cleaning shaft

- single layer
- for simple work

Art. no.	m	Ø mm	kg	PU
3701/3	3	9	1,085	1
3701/5	5	9	1,398	1
3701/10	10	9	3,472	1

Pipe cleaning shaft

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

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

Pipe cleaning shaft

- double layer
- adjustable handle

Art. no.	m	Ø mm	kg	PU
3702/5 ✸	5	7	1,250	1
3702/8	8	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.	m	Ø mm	kg	PU
3712/5x10	5	10	2,750	1
3712/5x15	5	15	3,740	1
3712/10x12	10	12	7,200	1
3712/10x15	10	15	11,300	1

PU Packing unit PE Price unit

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

✸ Best-seller Premium product

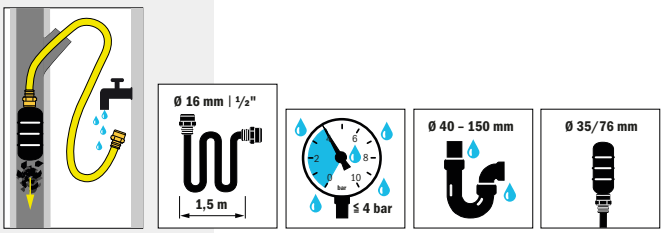
Shaft extension

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

Art. no.	m	Ø mm	kg	PU
3713/5x10	500 cm	10	2,750	1
3713/5x12	500 cm	12	3,400	1
3713/10x10	1000 cm	10	4,700	1
3713/10x12	1000 cm	12	6,500	1

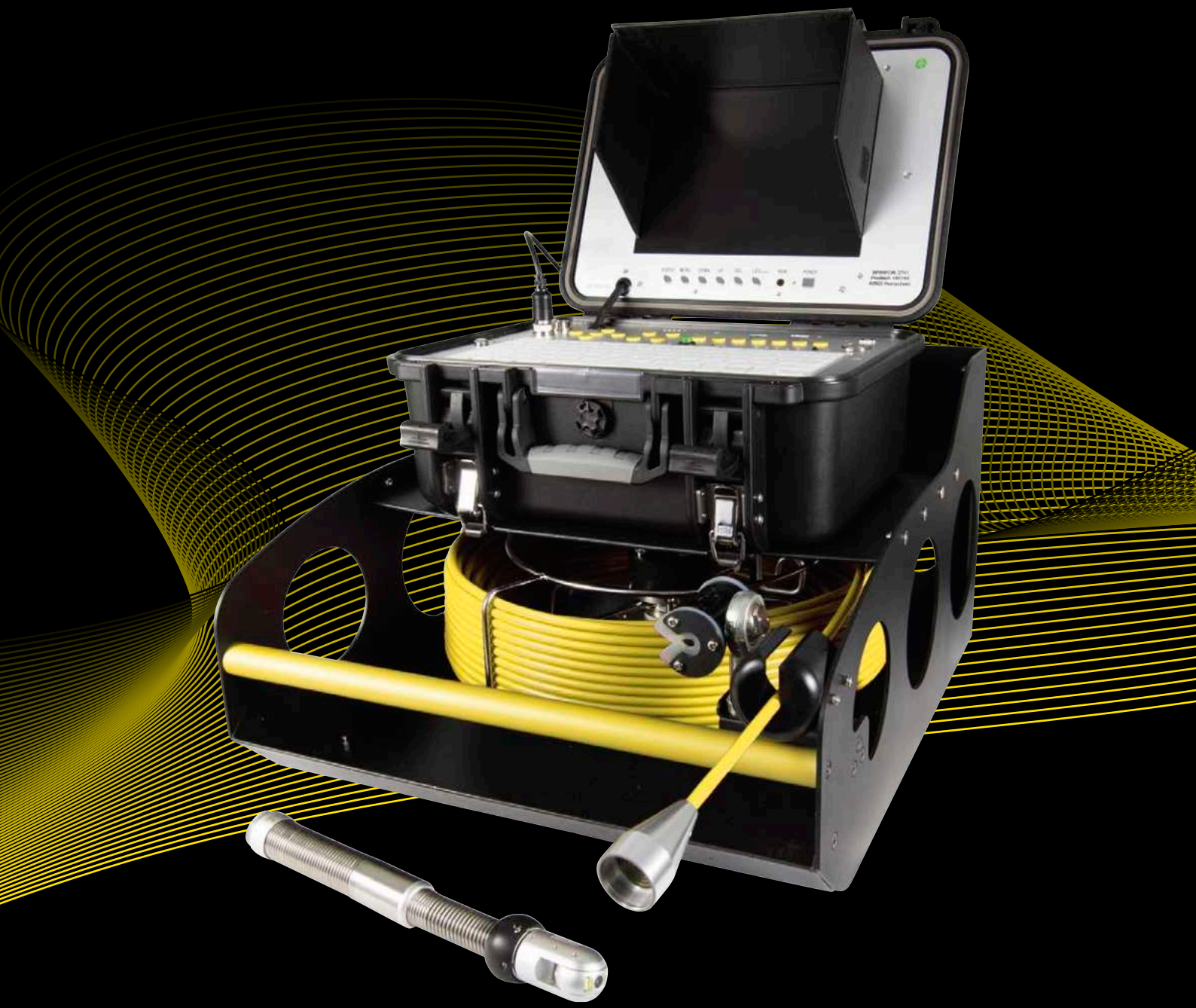
Water pressure drain cleaner

- 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.	Balloon Ø	Tube Ø	kg	PU
3730/1	35	40 – 80	0,370	1
3730/2	76	80 – 150	0,627	1

Inspection systems



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NEW

HD-Hand Inspection Camara „BRIcamS“

- 5 inch LCD HD high resolution screen for real time display
- High-quality CMOS sensor (camera) with a resolution of 1280 x 720 pixels (camera head Ø 8 mm)
- HD resolution screen with 1920 x 1080 and 1280 x 720 options
- Photo and video recording to Micro SD-card
- Triple LED brightness adjustment of camera light and screen illumination
- 1 meter swan-neck camera with IP67 waterproofing
- 4000 mAh, 3.7 volt lithium-ion battery provides up to 5 hours of standby time
- Supports seven languages: English, French, German, Spanish, Italian, Japanese, Chinese

Content:
- Screen Unit
- 1 Meter Swan-Neck Camera with Ø 8 mm Camera Head
- User Guide
- Threading-Attachable Hook
- Threading-Attachable Magnet
- Threading-Attachable 90° Mirror
- Charging cable USB-C to USB-A USB-A charger

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

Accessories for „BRIcamS“ 3780

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

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

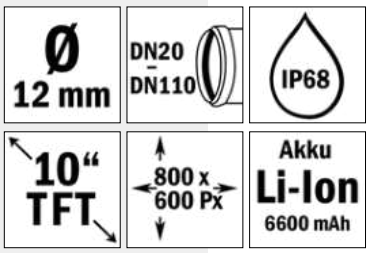
Best-seller Premium product

NEW

Pipe inspection camera system „BRIcamM“

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 800 x 600 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 ⟷ m	kg	PU
3752/10	12	10	6,680	1

NEW

Pipe inspection camera system „BRIcamM“

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,
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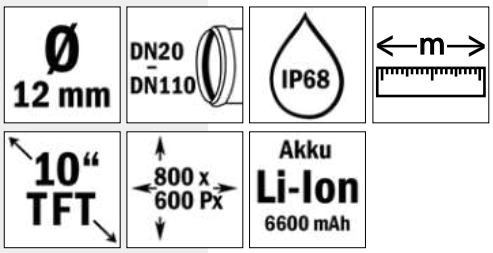
The BRIcamL is equipped with a multifunctional control panel with a QWERTZ keyboard for entering text, and also an integrated microphone for recording speech when recording videos on an SD card or USB stick.
Thanks to the 1-meter long video cable to the steel reel, the robust and waterproof control case 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 ⟷ m	kg	PU
3752/20	12	20	6,900	1

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NEW

Pipe inspection camera system „BRIcamL“

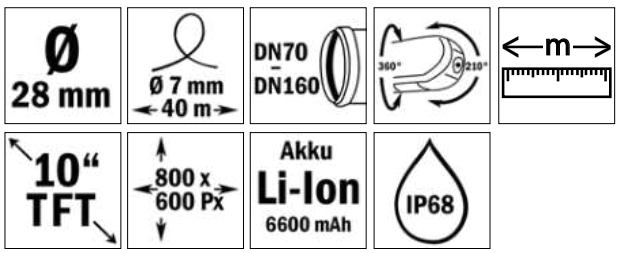
Video inspection system for visual inspection of pipes, hollow bodies and spaces as well as finding blockages or damage!

Pipe inspection camera system BRIcamL with a swivelling camera head, only 28 mm diameter and 40 m fiberglass cable, intelligent compact design combined with simple operation and easy transportation, thanks to the aluminium frame.

This waterproof system is complete with transmitter module can be used between and can be detected, tracked and located by locating devices, operating at 512 Hz. The camera head of the BRIcamL can be rotated 360° and swiveled by 210° and enables an exact Driving through connections and checking pipe branches.
The display unit is surrounded by a robust, waterproof and airtight plastic case and can be used in cramped working conditions or for better transport of the sperated push cable unit.
On the 10" TFT monitor with a Resolution of 800 x 600 pixels the smallest Defects will be recocnized and the number of meters inserted are shown.
The BRIcamL is equipped with a multifunctional Control panel with QWERTY keyboard for entering text, as also an integrated microphone for voice recording during video recording on SD card or USB stick. This intelligent system even has a device for cleaning the fibre cable after use by pushing it back, which removes adhering water and impurities. These are collected in the waterproof body, which can then be emptied outdoors.
By unscrewing the transmitter unit and inserting an optional adapter, bends from DN50 upwards are possible. This system can also be operated with a 10 or 20 meter long hand reel with a Ø 12 mm camera head.

Content:
- **360°/210° rotating/swivelling camera head Ø 28 mm**
- Camera cable: Ø 7mm/40 metres long
- Steel coil, Meter counter
- 6-pin camera connection
- Cleaning brush
- 512 Hz sender
- IP68 Multifunctional control device in the IP66 case, 10” TFT monitor with USB/SD recording
- Text and voice input using the QWERTZ keyboard
- Control buttons for swivelling camera head
- Operated with 6600 mAh Li-Ion battery or current
- Mains adapter, Guide ball and star for camera head
- Video cable 1 metres 6-pin, Remote operation

PREMIUM



VIDEO | 3741

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

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

Best-seller Premium product

NEW

Small camera head set, 10 m

Small camera head Ø 12 mm for pipe and house connections, as well as cavities
- **as a replacement for the "BRIcamM" pipe inspection camera system**
- **as an extension to the "BRIcamL" pipe inspection camera system**
- Camera head Ø 12 mm
- Camera cable Ø 4.8 mm | length 10 m
- incl. steel reel
- Connection cable 4-pole
- Application range DN20 - DN110

Art. no.	Cable ⟷ m	kg	PU
3750/10	10	0,186	1

NEW

Small camera head set, 20 m

Small camera head Ø 12 mm for pipe and house connections, as well as cavities
- **as a replacement for the "BRIcamM" pipe inspection camera system**
- **as an extension to the "BRIcamL" pipe inspection camera system**
- Camera head Ø 12 mm
- Camera cable Ø 4.8 mm | length 20 m
- incl. steel reel
- Connection cable 4-pole
- Application range DN20 - DN110

Art. no.	Cable ⟷ m	kg	PU
3750/20	20	0,186	1

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NEW

Pipe inspection camera system „BRIcamXL“

Video inspection system for visual inspection of pipes, hollow bodies and spaces as well as finding blockages or damage!

Pipe inspection camera system BRIcamL with a swivelling camera head, only 28 mm diameter and 40 m fiberglass cable, intelligent compact design combined with simple operation and easy transportation, thanks to the aluminium frame.

This waterproof system is complete with transmitter module can be used between and can be detected, tracked and located by locating devices, operating at 512 Hz. The camera head of the BRIcamL can be rotated 360° and swiveled by 210° and enables an exact Driving through connections and checking pipe branches.
The display unit is surrounded by a robust, waterproof and airtight plastic case and can be used in cramped working conditions or for better transport of the sperated push cable unit.
On the 10" TFT monitor with a Resolution of 800 x 600 pixels the smallest Defects will be recocnized and the number of meters inserted are shown.
The BRIcamL is equipped with a multifunctional Control panel with QWERTY keyboard for entering text, as also an integrated microphone for voice recording during video recording on SD card or USB stick. This intelligent system even has a device for cleaning the fibre cable after use by pushing it back, which removes adhering water and impurities. These are collected in the waterproof body, which can then be emptied outdoors.
By unscrewing the transmitter unit and inserting an optional adapter, bends from DN50 upwards are possible. This system can also be operated with a 10 or 20 meter long hand reel with a Ø 12 mm camera head.

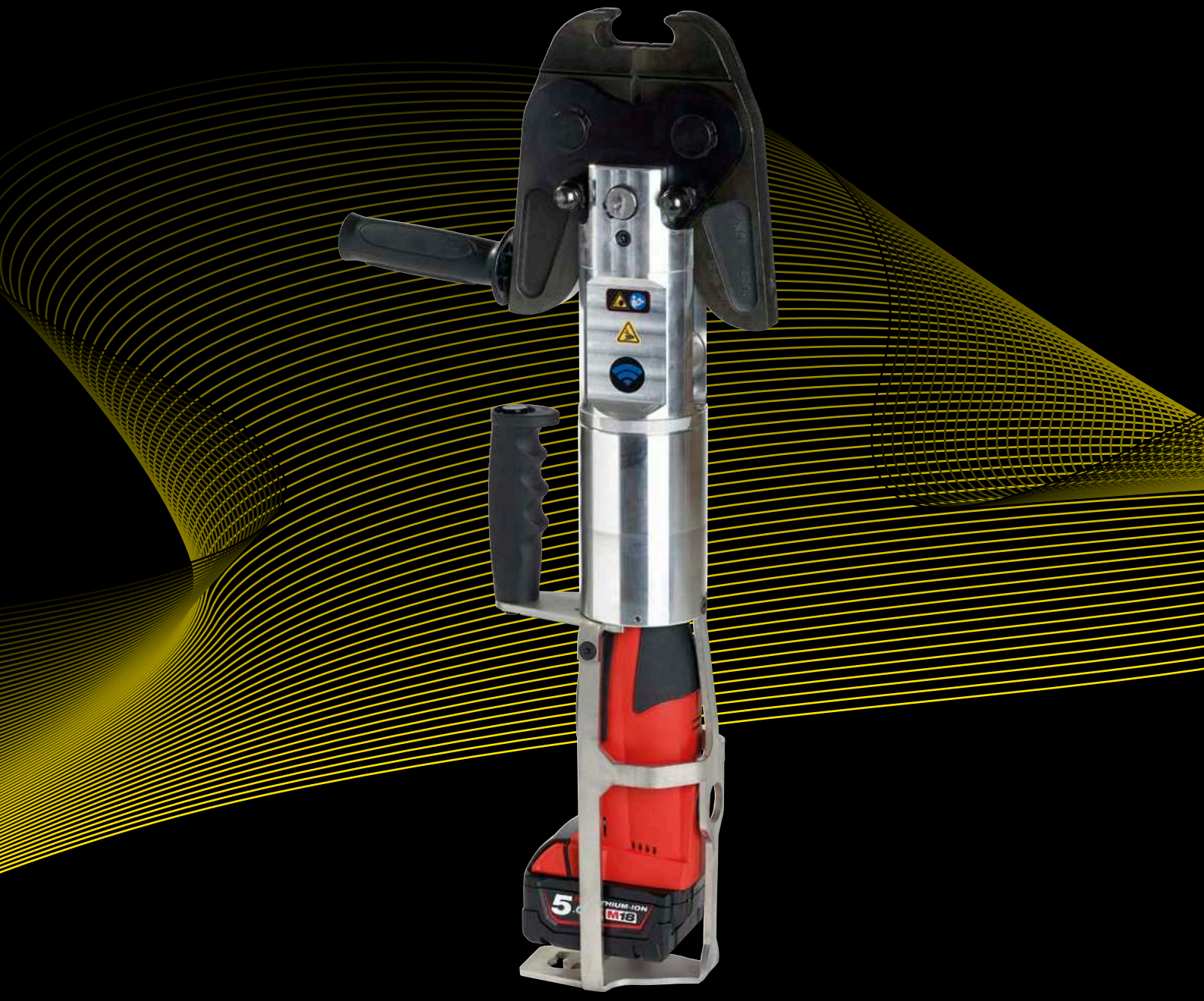
Content:
- **360°/210° rotating/swivelling camera head Ø 28 mm**
- Camera cable: Ø 7mm/40 metres long
- Steel coil, Meter counter
- 6-pin camera connection
- Cleaning brush
- 512 Hz sender
- IP68 Multifunctional control device in the IP66 case, 10” TFT monitor with USB/SD recording
- Text and voice input using the QWERTZ keyboard
- Control buttons for swivelling camera head
- Operated with 6600 mAh Li-Ion battery or current
- Mains adapter, Guide ball and star for camera head
- Video cable 1 metres 6-pin, Remote operation

Art. no.	Camera head Ø mm	Cable m	kg	PU
3760	55	60	31,400	1

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

Best-seller Premium product

Pressing tools



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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.	Pipe Ø	KN	set	kg	PU
625-2PG/EFP203	12 – 110	32	1	8,482	1
625-2SE/EFP203	12 – 110	32	4	14,193	1

Content - Pressing Tool set 625-2SE/EFP203

625-2PG/EFP203	Pressing Tool	1
PB2 Typ V oder M	Press Jaws 12 – 35 mm	3

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.	Pipe Ø	KN	set	kg	PU
625-4PG/ECO203	12 – 110	32	1	7,300	1
625-4SE/ECO203	12 – 110	32	4	14,114	1

Content - Pressing Tool set 625-4SE/ECO203

625-4PG/ECO203	Pressing Tool	1
PB2 Typ V oder M	Press Jaws 12 – 35 mm	3

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

Best-seller Premium product

Cordless Pressing Tool ACO103 BT | 4.0 Ah

Comfort Line ACO102 - compact and powerful efficiency – NEW 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.	Pipe Ø	KN	set	kg	PU
625-1PM/ACO103	12 – 40	16	3	5,261	1
625-1SE/ACO103	12 – 40	16	6	9,149	1

Content - Cordless Pressing Tool set 625-1SE/ACO103

625-1PM/ACO103	Cordless Pressing Tool	1
625-1AK/ACO103	12 V rechargeable battery 4.0	1
625-1LA/ACO103	12 V charger	1
PB1 Typ V oder M	Press Jaws 12 – 35 mm	3

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:
  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

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

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

Art. No.	Pipe Ø	KN	set	kg	PU
625-5PM/ACO203	12 – 110	32	3	8,300	1
625-5SE/ACO203	12 – 110	32	6	12,000	1

Content - Cordless Pressing Tool set 625-5SE/ACO203

625-5PM/ACO203	Cordless Pressing Tool	1
625-5AK/ACO203	18 V rechargeable battery 5.0	1
625-5LA/ACO203	12 – 18 V charger	1
PB2 Typ V oder M	Press Jaws 12 – 35 mm	3

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

Best-seller 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

Art. No.	Pipe Ø	KN	set	kg	PU
625-5XL/ACO203	12 – 110	32	4	9,800	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:
  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	12,800	1

Cordless Pressing Tool ACO403 BT | 5.0 Ah

Comfort Line ACO403 - Highly efficient powerhouse – NEW 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.	Pipe Ø	KN	set	kg	PU
625-8PG/ACO403	76.1 – 168.3	120	4	13,000	1

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

Best-seller Premium product

Case

Case PB1

- empty case made of strong plastic
- space for: 6 press jaws PB1

Art. No.	kg	PU
625-KO/PB1	6,119	1

Case PB2

- empty case made of strong plastic
- space for: 7 press jaws PB2

Art. No.	kg	PU
625-KO/PB2	6,119	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
- space for: intermediate jaws ZB221XL and 222XL

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

INFO

Pipe connecting Technology

Customer-oriented warranty pressing tools:
Novopress offers a connection guarantee of one year for all new pressing tools in addition to the statutory warranty of 24 months if an annual service cycle is maintained.

Customer-oriented warranty press Jaws, collars and adaptor jaws:
Novopress offers a connection guarantee of three years for all new press jaws and one year for all new collars and adaptor jaws in addition to the statutory warranty of 24 months if an annual service cycle is maintained.

Overview of all novopress Pressing tools and Equipment

technical data	ACO103 BT	EFP203	ECO203	ACO203 BT	ACO203XL BT	ACO403 BT
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 BT	EFP203	ECO203	ACO203 BT	ACO203XL BT	
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 PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

Best-seller Premium product

Press Jaws

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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-Press jaws V15, V22, V28, and V35

The empty area in the case can be well for individual equipping with common aids for daily needs.
Not included in the set!

Art. No.	set	kg	PU
625-10SE	4	9,200	1

625-10/15 625-10/22 625-10/28 625-10/35

625-10/12 and 625-10/18 are also possible.

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-Press jaws M15, M22, M28, and M35

The empty area in the case can be well for individual equipping with common aids for daily needs.
Not included in the set!

Art. No.	set	kg	PU
625-13SE	4	9,200	1

625-13/15 625-13/22 625-13/28 625-13/35

625-13/12 and 625-13/18 are also possible.

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

Best-seller Premium product

Press Jaws PB1 – kN 16

Press Jaws PB1 type V

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

Art. No.	Pipe 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 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.	Pipe 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 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.	Pipe 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 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.	Pipe 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 PB2 – kN 32

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.	Pipe Ø	kg	PU
625-30/PB2V12	12	1,888	1
625-30/PB2V15	15	1,935	1
625-30/PB2V18	18	1,935	1
625-30/PB2V22	22	2,032	1
625-30/PB2V28	28	1,912	1
625-30/PB2V42	35	3,335	1
625-30/PB2V54	42	4,537	1
625-30/PB2V35	54	1,959	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.	Pipe 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.	Pipe 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.	Pipe 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

PU Packing unit PE Price unit

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

Best-seller Premium product

Press Collars

BRINKO®
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Press Collars PS2

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.	Pipe Ø	kg	PU
625-40/PS2V42	42	1,297	1
625-40/PS2V54	54	1,578	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.	Pipe 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 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.	Pipe Ø	kg	PU
625-43/PS2M42	42	1,335	1
625-43/PS2M54	54	1,570	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	Pipe Ø	kg	PU
625-45/PS2U40	40	2,080	1
625-45/PS2U50	50	2,560	1
625-45/PS2U63	63	3,040	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Press Collars PS3 type M

- press collars with „snap-on“ technology for pressing units in category 3 and for 625-5XL
- for pressing contours type M 42 – 108 mm
- only in association with a universal intermediate jaw (ZB3 or ZB2XL)

Art. No.	Pipe 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 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.	Pipe 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 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

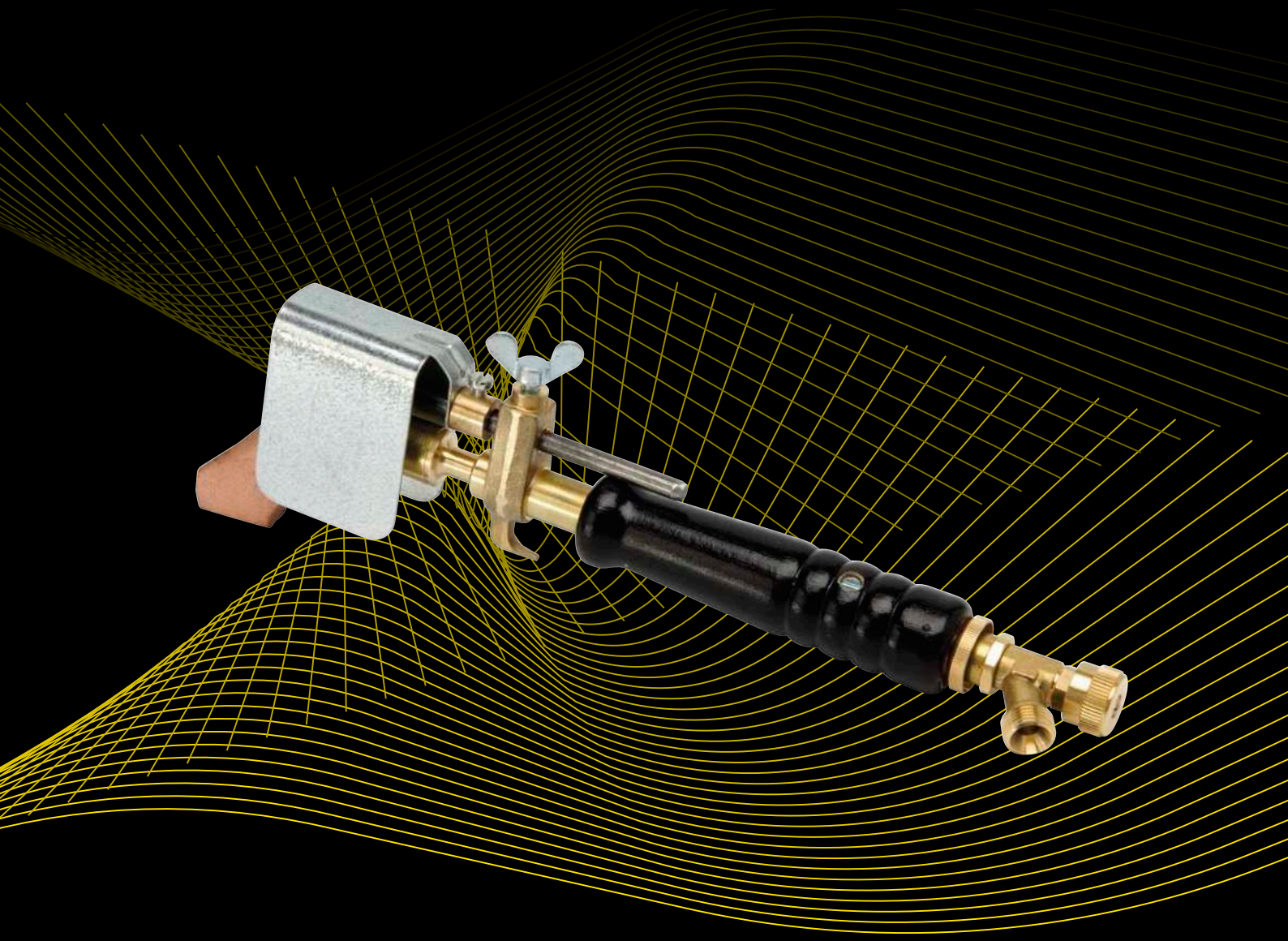
Art. no.	Ø	kg	PU
625-ZB/PS203	40 – 63	2,032	1

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.	Pipe Ø	kg	PU
625-ZB/221XL	64 – 108 (1st pressing)	4,400	1
625-ZB/222XL	108 (2st pressing)	4,600	1
625-ZB/SETXL	64 – 108	10,800	1

Soldering technology



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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.	quantity	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 propan handle Art. no. 4427

Art. no.	kg	PU
4429	0,059	1

Soft solder insert

- curved 40°
- gas port Ø 5 mm
- suitable for propan handle Art. no. 4427

Art. no.	kg	PU
4429-1/5	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

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

Best-seller Premium product

Piston brazing

Copper piece

- pointed shape
- 7 mm pin

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

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 and hard soldering

Brazing set – HLS

Portable brazing device for propane/oxygen for hard and soft soldering
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 10, 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

Brazing set - HLS is also part of the complete metric refrigeration/air conditioning set - 'BRIcoolTec' - SET1 and the complete imperial refrigeration/air conditioning set - 'BRIcoolTec' - SET3.

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

Soft solder insert

- 1400 °C
- with union nut M14 x 1
- suitable for propane handles Art. no. 4400
- 1,5 bar

Art. Nr.	Ø	Cu Ø	kg/h	kg	PU
4405/5	5	15 – 22	0,070	0,103	1
4405/7	7	22 – 28	0,150	0,170	1

Propane hard solder insert

- operating pressure 1.5 – 2.5 bar
- union nut M14 x 1
- 1600 – 1700 °C
- suitable for propane handles Art. no. 4400

Art. Nr.	Gas outlet Ø	Cu Ø	kg/h	kg	PU
4406	16	18	0,065	0,096	1
4407	19	22	0,140	0,103	1
4408	22	28	0,000	0,247	1

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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

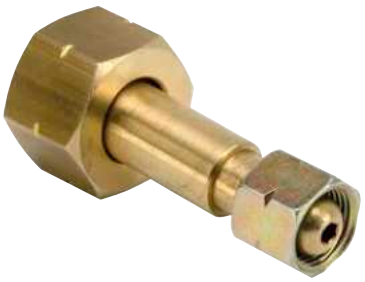
Miniature propane bottle valve

- Design approval no. 82D166 (only for steel bottles)
- connection G 3/8“ LH
- outer Ø 1/2“
- suitable for miniature propane bottle 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

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

Best-seller 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
- 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

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

- 4 x 4 mm
- 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

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:
- soldering iron G 3/8“ LH
- 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:
- 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

Propane soft solder set

Consisting of:
- soldering iron G 3/8“ LH
- 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

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

Best-seller Premium product

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	0,488	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 ✷	0,488	1

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	0,277	1

Blowtorch

- for soft soldering and brazing
- 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	0,277	1

Solder Sets & Blowtorches

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

- 2 ammonia stones each 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

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

✸ Best-seller Premium product

Solder Accessories

Magnetic control mirror | Welding mirror

- 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.	Thickness	Width	Height	kg	VE
8030/1,0	1,0	70	80	0,466	1
8030/1,5	1,5	70	80	0,450	1

Steel mirror

- Steel, polished nickel-plated
- rectangular 80 x 70 mm
- suitable for magnetic control mirror Art. no. 8030

Art. no.	Thickness	Width	Height	kg	VE
8061/1,0	1,0	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	0,002	1

Gas lighting tongs

- with roller file
- including flint, Art. no. 4201

Art. no.	kg	PU
4200	0,051	1

Solder

- with 40 % tin content
- triangular

Art. no.	Tin %	kg	PU
1636/40	40	1,000	1

Solder wire

- for soft soldering
- with 40 % tin content

Art. no.	m	Tin %	Ø	kg	PU
1644/250	10	40	2	0,259	1
1644/500	20	40	2	0,518	1

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

Solder Accessories

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.	Tin %	Ø	kg	PU
1645/20	40	2	0,021	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	Tin %	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	Tin %	Ø	kg	PU
1646-1/250-1,0	4	60	1	0,259	1
1646-1/500-1,0	8	60	1	0,529	1
1646-1/500-1,5	4	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.	kg	PU
1638/150	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.	kg	PU
1640/150	0,040	1

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

Best-seller Premium product

Welding technology

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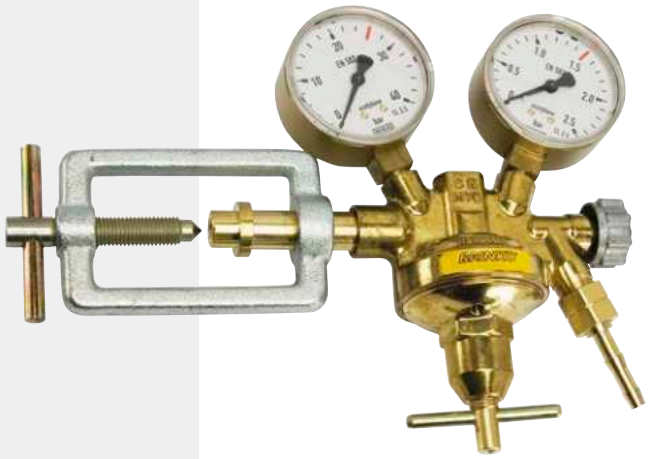
Pressure relief valve | Oxygen

- 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

Working manometer

- for oxygen
- 10 kp/cm²

Art. no.	kg	PU
4081	0,136	1

Working manometer

- for fuel gas (acetylene)
- 1.5 kp/cm²

Art. no.	kg	PU
4091	0,133	1

Content manometer

- for oxygen
- 200 kp/cm²

Art. no.	kg	PU
4082	0,138	1

Content manometer

- for fuel gas (acetylene)
- 18 kp/cm²

Art. no.	kg	PU
4092	0,141	1

PU Packing unit PE Price unit

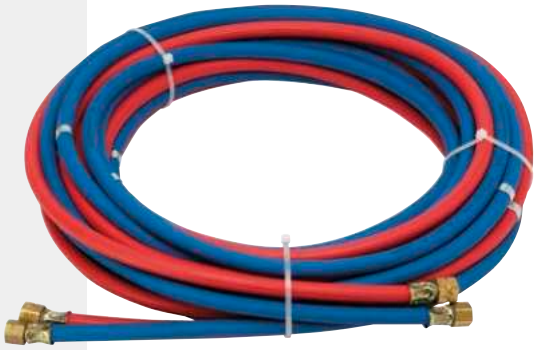
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

Best-seller Premium product

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

Spare-Connection nut

- suitable for handle Art. no. 3902

Art. no.	kg	PU
3902-3	0,049	1

Explosion protection safeguard | mandatory

- 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
- Serial number available on request

Art. no.	kg	PU
4070	0,250	1

Explosion protection safeguard | mandatory

- 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
- Serial number available on request

Art. no.	kg	PU
4071	0,250	1

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
- shank Ø 20 mm

Art. no.	welding range	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
- shank Ø 20 mm

Art. no.	welding range	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

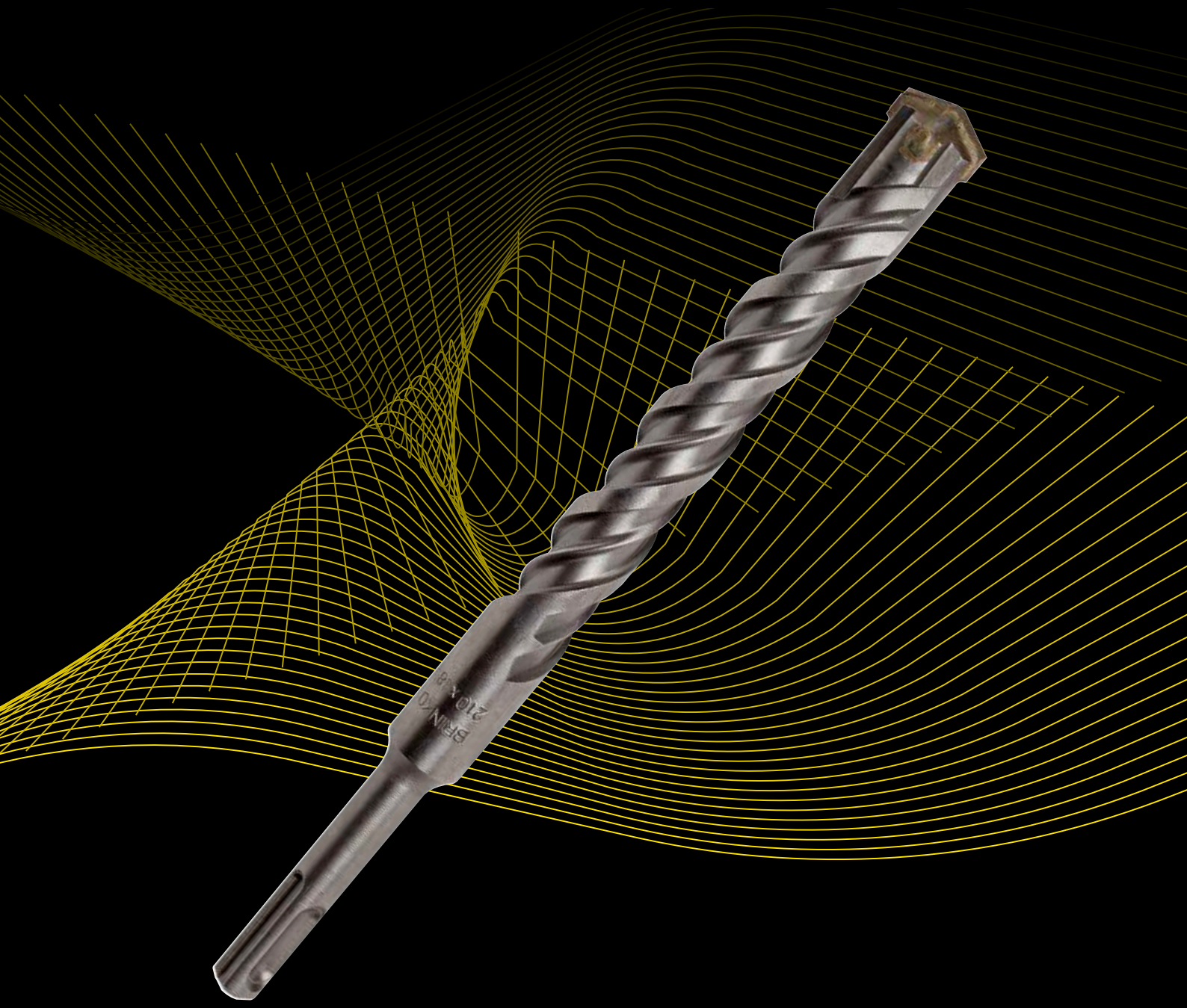
Art. no.	W welding range	for Art. no.	kg	PU
3946/1-2	1 – 2	3936/1-2	0,038	1
3947/2-4	2 – 4	3937/2-4	0,039	1
3948/4-6	4 – 6	3938/4-6	0,039	1
3949/6-9	6 – 9	3939/6-9	0,043	1

PU Packing unit PE Price unit

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

Best-seller Premium product

Drilling



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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	0,018	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	0,014	10
1044/7,0	7	0,021	10
1044/6,5	6,5	0,017	10
1044/7,5	7,5	0,024	10
1044/8,0	8	0,029	10
1044/8,5	8,5	0,033	5
1044/9,0	9	0,042	5
1044/9,5	9,5	0,046	5
1044/10,0	10	0,010	5
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
- 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
- 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

- 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 PE Price unit

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

Best-seller 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	0,033	10
1374/160x5	160	5	0,045	10
1374/160x6 ✷	160	6	0,048	10
1374/160x8 ✷	160	8	0,053	10
1374/160x10	160	10	0,070	10
1374/160x12	160	12	0,083	5
1374/160x14	160	14	0,114	5
1374/160x15	160	15	0,114	5
1374/210x8	210	8	0,074	5
1374/210x10 ✷	210	10	0,090	5
1374/210x12 ✷	210	12	0,110	5
1374/210x14	210	14	0,000	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	0,260	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

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.

Aareas: ceramics, tiles, hard-fired tiles, glass, acrylic glass, mirror glass

Art. no.	Ø	Shaft Ø	kg	PU
1368-1/5	5	6,35	0,009	1
1368-1/6 ✷	6	6,35	0,011	1
1368-1/8 ✷	8	6,35	0,015	1
1368-1/10 ✷	10	6,35	0,258	1
1368-1/13	13	6,35	0,300	1
1368-1/14	14	6,35	0,350	1

Glass tile drill set

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.

Areas: ceramics, tiles, hard-fired tiles, glass, acrylic glass, mirror glass

Art. no.	set	Ø	kg	PU
1368 ✷	5	6 – 10	0,126	1

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INFO

DIAMOND core drills „BRIdiamondDrill“

Advantages of the DIAMOND drills:

1

Sizes **6 – 8 – 10 mm** are able to drill **up to 30 holes** on tiles; **12 – 14 – 16 mm** = **up to 35 holes**; **above 20mm is up to about 40 holes** or more. The numbers will vary based on material thickness and machine speed.

2

Wax is for cooling temperature.
They usually use heat-resistant, non-easy melting wax to protect the diamond.
No extra cooling required single hole drilling - only required if multiple holes are drilled.

3

Our diamond is HSD90, GRIT = 30/40 + 40/50, HRC=100 with the highest toughness and thermal toughness to be used for professional level of tools.

4

Machine speed RPM suggestions are:

Art. 1379-3 Series (with hex adapter)
= 1,000 – 2,500 RPM

Art. 1381-1 Series (with M14 thread)
= 10,000 – 14,000 RPM

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
- wax filled core helps cooling and lubricates, need not watering
- diamond coated design reduces cutting heat for 5X longer working life

Art. no.	drill Ø	shaft Ø	kg	PU
1381-1/6 ✸	6	14	0,044	1
1381-1/8 ✸	8	14	0,047	1
1381-1/10 ✸	10	14	0,055	1
1381-1/12	12	14	0,062	1
1381-1/14	14	14	0,100	1
1381-1/18	18	14	0,054	1
1381-1/20	20	14	0,100	1
1381-1/25	25	14	0,120	1
1381-1/32	32	14	0,150	1
1381-1/35	35	14	0,160	1
1381-1/40	40	14	0,190	1
1381-1/45	45	14	0,250	1
1381-1/55	55	14	0,300	1
1381-1/60	60	14	0,281	1
1381-1/68	68	14	0,339	1
1381-1/50	50	14	0,290	1
1381-1/75	75	14	0,407	1
1381-1/82	82	14	0,474	1
1381-1/110	110	14	0,900	1

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

✸ Best-seller Premium product

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	drill Ø	kg	PU
1381	7	6 – 14	0,442	0

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	drill Ø	kg	PU
1381-7	7	6 – 10	0,625	1

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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	drill 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	drill Ø	kg	PU
1381-4	4	6 – 10	0,257	1

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

Best-seller Premium product

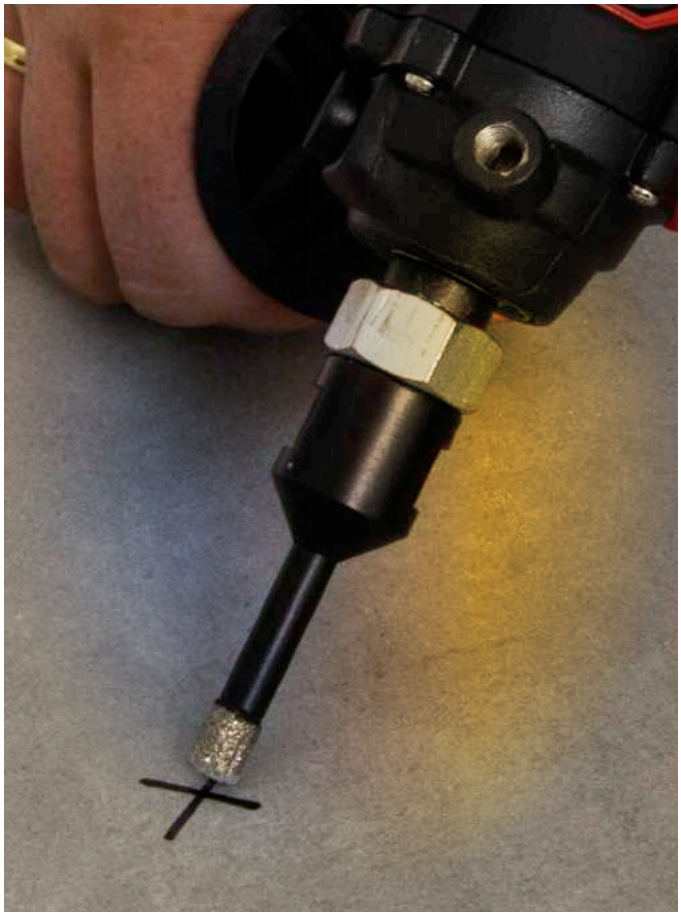
NEW

DIAMOND core drills set „BRIspeedDrill“

Clean and precise hole drilling in tiles and porcelain stoneware - with BRIspeedDrill the cleanest, fastest, and most economical 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.

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



High-speed cordless drill with DIAMANT Tile drill ‘BRIdiamondDrill’ Size Ø 8 mm

High-speed battery with various polishing pads

Art. no.	set	drill Ø	kg	PU
13810	7	6 – 14	3,880	1

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DIAMOND core drills “BRIdiamondDrill”

Advantages of the DIAMOND drills:
- precise positioning, minimum risk of slipping off
- Safety, Fast, Efficiency & Sophisticated design
- special wax filling ensures cooling, no extra cooling required single hole drilling - only required if multiple holes are drilled

Reliable cutting, drilling & grinding in the following materials:
floor and wall tiles, hard porcelain, granite and marble, glass and fiberglass
- hex shank 8 mm ideal for Akkus drills
- 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

Art. no.	⟷	drill Ø	kg	PU
1379-3/5	67	5	0,012	1
1379-3/6 ✸	67	6	0,013	1
1379-3/8 ✸	80	8	0,018	1
1379-3/10 ✸	80	10	0,027	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	drill Ø	kg	PU
1379-4	4	2 – 10	0,117	1

Centering Guide stainless “BRIdiamondDrill”

Stainless steel Centering guide for diamond core drills
Suitable for Diamond tools with a diameter of 5 – 40 mm
Features:
- with strong suction bell
- infinitely adjustable
- easy fixing
- professional stainless steel model
- extreme handy

Art. no.	kg	PU
1385-6	1,500	1

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

✸ Best-seller Premium product

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	drill Ø	kg	PU
1379-6	7	2 – 14	0,658	1

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

Not suitable for safety glass!
Suitable for cordless machines, without cooling wax!

Art. no.	drill Ø	kg	PU
1385-1/5	5	0,009	1
1385-1/6	6	0,010	1
1385-1/8	8	0,011	1
1385-1/10	10	0,011	1
1385-1/12	12	0,013	1
1385-1/14	14	0,015	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.	drill Ø	kg	PU
1386/68	68	0,625	1
1386/82	82	0,820	1

Sheet metal punch and drill

Sheet taper drill

- HSS
- for steel, Nirosta and V2A sheet metal
- non-ferrous metals, plastics, etc.

Art. no.	shank Ø	drilling Ø	kg	PU
915/1	6	3 – 14	0,028	1
915/2	8	6 – 20	0,053	1
915/7	10	4 – 30,5	0,170	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.	set	kg	PU
917	3	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	0,240	1

Step drill

- HSS
- 11 steps

6.5 mm Ø for through holes 06 x 1,5
8.5 mm Ø for through holes M 08 x 1,5
10.5 mm Ø for through holes M 10 x 1,5
12.5 mm Ø for through holes M 12 x 1,5
16.5 mm Ø for through holes M 16 x 1,5
20.5 mm Ø for through holes M 20 x 1,5
25.5 mm Ø for through holes M 25 x 1,5
29 mm Ø for through holes M 29 x 1,5
32.5 mm Ø for through holes M 32 x 1,5
36.5 mm Ø for through holes M 32 x 1,5
40.5 mm Ø for through holes M 40 x 1,5

Art. no.	min. Ø	max. Ø	kg	PU
918-1	8,5	40,5	0,278	1

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

Best-seller Premium product

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

Ø 32 mm
Hole diameter

Ø 35 mm
Hole diameter

Art. no.	kg	PU
914	0,349	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 and drill

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	Nominal size PG	kg	PU
900/9	15,2	9	0,096	1
900/11	18,6	11	0,150	1
900/13,5	20,4	13,5	0,126	1
900/16	22,5	16	0,128	1
900/21	28,3	21	0,122	1
900/29	37	P9	0,189	1
900/36	47	36	0,587	1
900/42	53,9	42	0,682	1
900/48	60	48	0,959	1

Sheet metal punch | Electric

- for electric installations
- for electric grommets
- with 3 cutters
- for punching sheet metal made of Nirosta, aluminium, copper, brass, iron, etc. as well as plastics

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 8 x 1 mm, length 35 mm
- 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.	Loch 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 PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

Best-seller Premium product

Hole saws

BRINKO®
powered by haupa®

HSS-bi-metal hole saw set | Plumbing standard

For sanitary work
- 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, Nirosta, non-ferrous metals, HAT 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 set | Electro

For electrical work
- 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, HAT pipe, wood and aerated concrete

Art. no.	set	kg	PU
1382	8	0,933	1

HSS-bi-metal hole saw

- with variable teething, 4 – 6 tpi
- cutting depth 40 mm
- for steel, Nirosta, non-ferrous metals, HAT pipe, 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	0,099	1
1380/38	38	0,093	1
1380/44 ✸	44	0,112	1
1380/51	51	0,117	1
1380/57 ✸	57	0,146	1
1380/64	64	0,148	1
1380/68 ✸	68	0,198	1
1380/75	75	0,239	1
1380/114 ✸	114	0,415	1
1380/121	121	0,538	1

HSS guide drill, SDS-Plus

- suitable for SDS chuck adaptor Art. no. 1380-2 and hexagonal chuck adaptor Art. no. 1380-3

Art. no.	⟷	chuck adapto	kg	PU
1380-1/70	70	SDS-Plus	0,014	1
1380-1/105	105	hexagonal	0,020	1

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

✸ Best-seller Premium product

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
- 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

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	⟷	twist drill Ø	kg	PU
1085/1	1	50,8	2,5	0,003	1
1085/2	2	60,3	3,0	0,006	1
1085/3	2	68,3	4,5	0,012	1

Screw remover set

- Chrome vanadium steel
- supplied in a plastic box

Art. no.	set	size	kg	PU
1086/1-5	5	1 – 5	0,107	1
1086/1-6	6	1 – 6	0,224	1
1086/1-8	8	1 – 8	0,723	1

Saws and Saw blades

BRINKO®
powered by haupa

INFO

Sabre saw blades for all applications

BRINKO saw blades, made of European quality steel, and our experience leads 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. softwoods, chipboard, and plastics) and the desired cutting quality, you will find the right saw blade at BRINKO.
The fine-toothed saw blades for cuts of thin/thin-walled materials ensure a clean, tear-free cut with little 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 PE Price unit
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

Best-seller Premium product

INFO

Choice of saw blade, Cutting quality

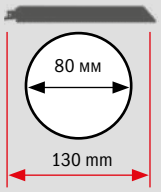
THE RIGHT CHOICE OF SAW BLADE
Our new reciprocating saw blade and packaging design guarantees a quick and correct saw blade selection for the material to be cut. Dwal, specifific reciprocating saw blades are used and an optimal sawing result is guaranteed.

Teeth Per Inch (TPI)
Determine the cutting quality and cutting speed.

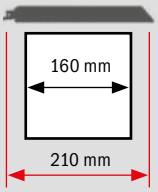
Suitable for all recipro, sabre and tiger jigsaws:
AEG, Black&Decker, Bosch, DeWALT, Fein, Flex, HILTI, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Roller, WÜRTH etc.

Blade lenght

Rule of thumb
Always keep 2 – 3 teeth cutting in the material
Material width + 50 mm = Blade length



Example 1
80 mm Tube + 50 mm = 130 mm



Example 2
160 mm Beam + 50 mm = 210 mm

Teeth Per Inch (TPI)

FEE TEETH — **COARSE CUT** — **FAST**

CUTTING QUALITY

CUTITNG SPEED

MANY TEETH — **CLEAN CUT** — **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	1755	1757	1759	1745	1746	1752	1764
		1754		1745		1762	1761	1753	
							1751		
305	225	150	150	150	150	150	100	200	300
455		200		225	225	200	150	200	
		280		300	280	225	225		
		225		300		150	150		
							115		

Lenght (mm)

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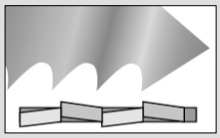
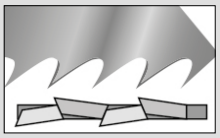
INFO

Kind of toothing, cutting performance

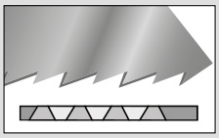
The toothing type and the tooth geometry determine the cutting result.



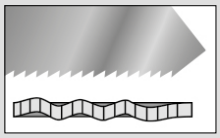
Side set toothing; rough cuts



Side set, diagonally sharpened toothing; rough, quick cuts.



Conically ground blade, teeth diagonally sharpened toothing; precise, clean cuts



Wavy set toothing; fine and 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 PE Price unit

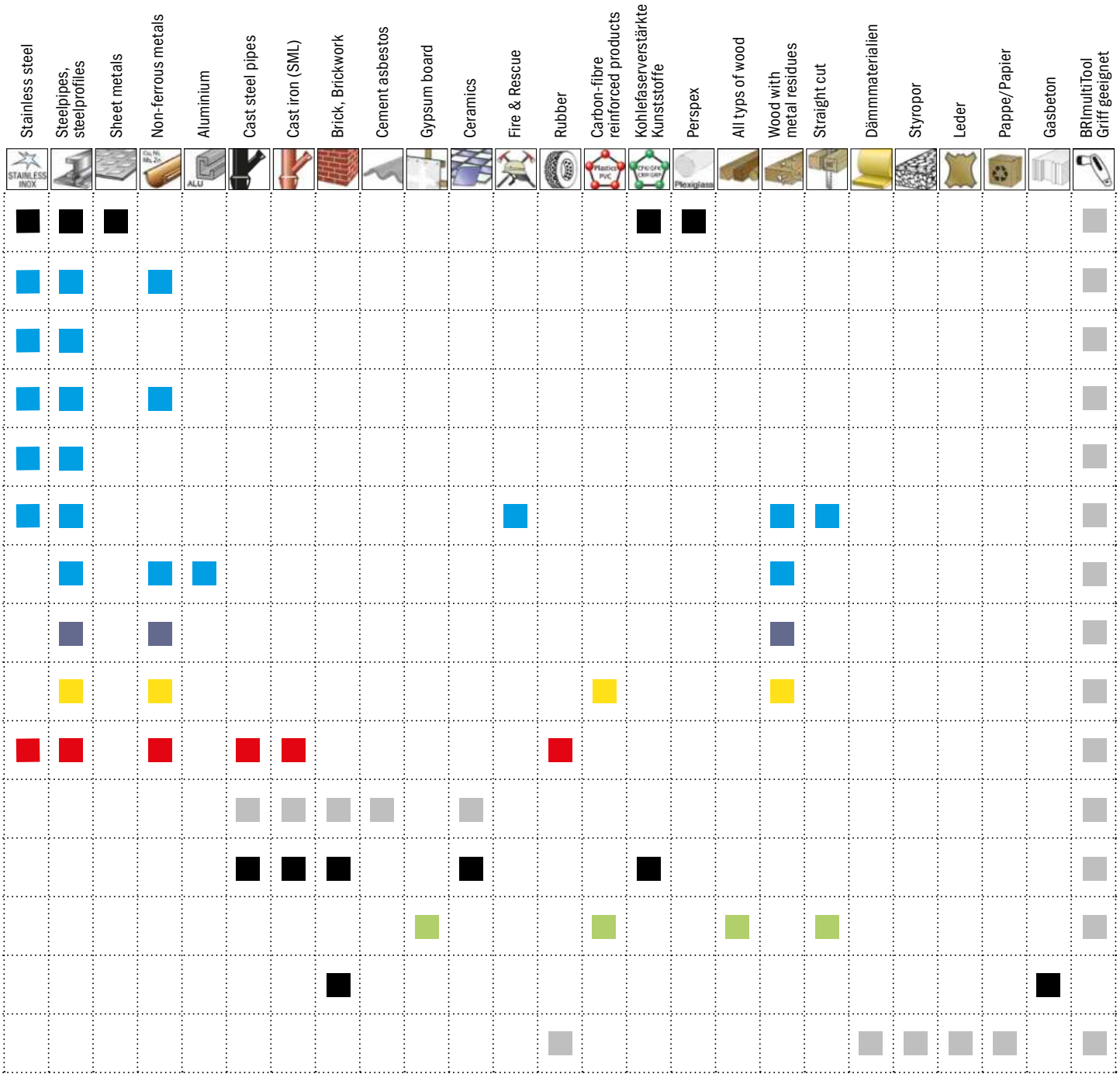
The legend for abbreviations for all table headers can be found sorted alphabetically on page 618.

✸ Best-seller Premium product

Application overview

Sabre saw blades with significantly longer life

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.



Attention: Use bi-metal reciprocating saw blades with reduced speed and cooling when sawing stainless steel.

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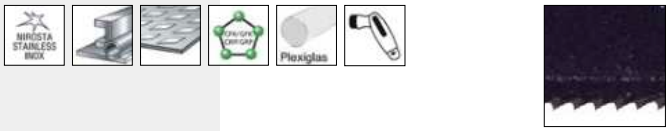
Sabre Saw Blades

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.		toothL	TPI	kg		PU
1751/115	115	95	18	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.		toothL	TPI	kg		PU
1745/150 ✷	150	130	14	0,015	25	5
1745/200 ✷	200	180	14	0,022	25	5
1745/300 ✷	300	280	10	0,033	25	5

Sabre saw blade Metal

Without stroke action
Topseller - Standard saw blade for steel and stainless steel (1.5 – 4.0 mm)
- HSS-bi-metal
- teethed part 18 tpi
- Teeth milled and wavy set

Art. no.		toothL	TPI	kg		PU
1746/100 ✷	100	80	18	0,009	25	5
1746/150 ✷	150	130	18	0,016	25	5

Sabre saw blades Metal POWER CURPU

Without stroke action
Flexible all-round blade for steel and stainless steel from 1.5 – 2.5 mm
- teeth milled and wavy set, 18 tpi
- the curved blade is more aggressive because more teeth can work in the material
- for faster cuts and longer lifetime

Art. no.		toothL	TPI	kg		PU
1761/150	150	130	18	0,026	25	5
1761/225	225	205	18	0,039	25	5

Sabre saw blades Metal POWER CURPU

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.		toothL	TPI	kg		PU
1762/150	150	130	18	0,026	25	5
1762/225	225	205	18	0,039	25	5

Sabre saw blades Metal DEMOLITION

Without stroke action
Especially for dismantling, rescue and salvage
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.		toothL	TPI	kg		PU
1757/150	150	130	10	0,027	15	3
1757/225	225	205	10	0,061	15	3
1757/300	300	280	10	0,084	15	3

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

✷ Best-seller 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

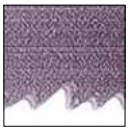
- flexible bi-metal blade
- teeth milled and side set, flexible
- with innovative 10/14 tooth geometry for better performance and longer lifetime

Art. no.	↔	toothL	TPI	kg		PU
1759/150	150	130	10	0,026	25	5
1759/225	225	205	10	0,040	25	5
1759/280	280	260	10	0,034	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.	↔	toothL	TPI	kg		PU
1755/150	150	130	9	0,024	25	5

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.	↔	toothL	TPI	kg		PU
1750/150 ✷	150	130	8	0,020	25	5
1750/200 ✷	200	180	8	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 (black 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.	↔	toothL	TPI	kg		PU
1754/225	225	205	8	0,063	1	1

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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.		kg		PU
1753/200 ✷	200	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.		kg		PU
1752/200 ✷	200	0,040	10	2

Sabre saw blade Wood

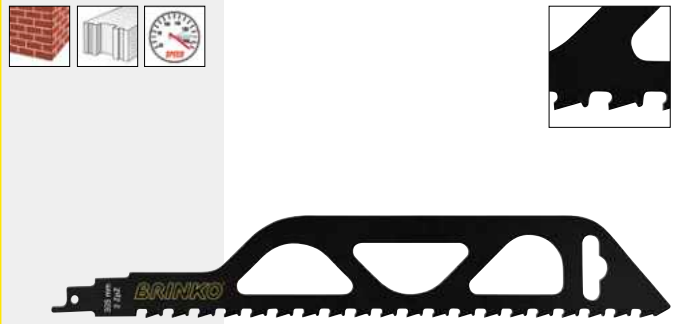
With/without stroke action
Standard blade for wood, but now new cross-ground toothing
For quick, straight cuts on all types of wood, plastic and drywall (6 – 100 mm)
- HCS/CV steel, teeth 6 tpi
- teeth milled and side set

Art. no.		toothL	TPI	kg		PU
1747/225 ✷	225	205	6	0,031	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: < 215 mm | < 365 mm
- suitable for machines from 1,000 watts
- tooth pitch: 12.5 mm

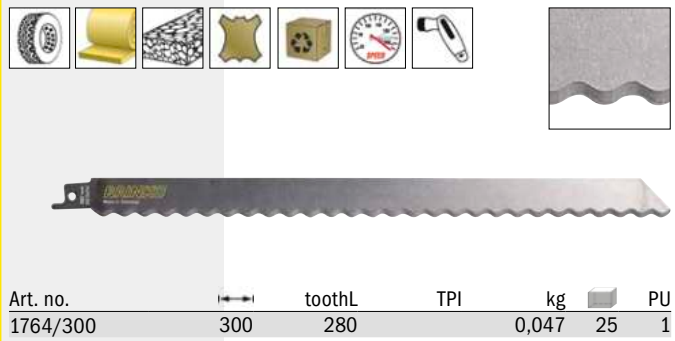


Art. no.		toothL	TPI	kg		PU
1763/305	305	250	2	0,095	25	1
1763/455	455	410	2	0,165	25	1

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.		toothL	TPI	kg		PU
1764/300	300	280		0,047	25	1

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

✷ Best-seller PREMIUM Premium product

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

Art. no.	kg	PU
1737 ✷	0,158	1

Anwendungsbeispiele Handgriff „BRImultiTool“

Reciprocating saw blades or bits are NOT included in the scope of delivery of the "BRImultiTool" handle!

Sabre Saw Blades

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 10/14 tpi
- suitable for recipro sabre and tiger jigsaws made by Rems and Roller

Art. no.	⟷	toothL	TPI	kg	▭	PU
1743/150	150	130	14	0,021	25	5
1743/200	200	180	14	0,032	25	5

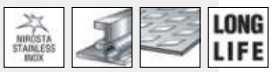
Jigsaw blade Wood

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.	⟷	toothL	TPI	kg	▭	PU
1756/75	100	75	6,35	0,020	25	5

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.	⟷	toothL	TPI	kg	▭	PU
1758/55	76,5	55	21	0,005	25	5
1758/105	126,5	105	21	0,010	25	5

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Cutting Discs

Cut-off disk | Steel

- approved according to VBG 49
- 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
6200/178	178	0,180	25
6200/230 ✸	230	0,305	25

Cut-off disk | INOX

- certified according to VBG 49
- 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	kg	PU
6215/115 ✸	115	0,025	25
6215/125 ✸	125	0,030	25
6215/150 ✸	150	0,030	50
6215/230 ✸	230	0,200	50

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 49
- 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 PE Price unit

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

✸ Best-seller PREMIUM Premium product

Accessories | Chemistry

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Sealing Tools

Sealing pliers

- polished, nickel-plated
- handles plastic-coated, red
- with a stamp

Art. no.	⟷	Ø mm	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 mm	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 digits	PU
546-10	1	1
546-20	2	1
546-30	3	1
546-40	4	1
546-50	5	1
546-60	6	1

Lead seal

- packaged at 1 kg each

Art. no.	Ø mm	PU
548/8	8 mm	1
548/9	9 mm	1
548/10	10 mm	1
548/12	12 mm	1

Seal wire

- length 180 mm
- grouped together 1000 units

Art. no.	TL	kg	PU
550/180	180	0,484	1

Seal wire

- on plastic roller
- 500 gr
- wire thickness 0.5 x 0.3 mm
- length approx. 115 m

Art. no.	TL m	kg	PU
551/500	115	0,578	1

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

Best-seller Premium product

Sealing accessories

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. ml	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. ml	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

Cleaning accessories

Non-woven cleaning cloths – VPT

Lint-free cleaning cloths are essential in refrigeration technology, as even the smallest contaminants can lead to failures in heat pumps and air conditioning units.
50 pieces, non-linting 30 x 38 cm

Art. no.	kg	PU
3630	0,440	1

Klappwerkbank „BRImobileWork“

Work comfortably while ensuring maximum safety!
Working on construction sites and during renovations can be physically demanding. Constantly having to lift materials and tools from the ground adds unnecessary strain. Additionally, unintentionally stepping on tools and machines doesn't improve their durability.

The solution? BRINKO's folding workbench, weighing less than 20 kg and easy to carry.
It features a 785 x 585 mm plywood surface securely mounted within a steel frame. This surface provides a stable platform for vice grips or other holding systems. The legs, made of galvanized square tubing, are pushed outward by a spring mechanism within the crossbar, ensuring a sturdy base. To prevent any wobbling on uneven floors, each foot is height-adjustable and lockable. However, the greatest advantage lies in its simple folding mechanism and unbeatable weight of only 19 kg. For added mobility, the BRINKO „BRImobileWork“ is equipped with two large plastic wheels and a fold-out handle, allowing you to effortlessly pull the workbench behind you. Even when unfolded, the workbench can be easily moved thanks to the two wheels, which only touch the ground when tilted.
The BRINKO „BRImobileWork“ offers the perfect balance of weight, mobility, stability, and size for effective, back-friendly work with maximum safety!

Easy to transport with one hand - effortlessly movable with wheels and pull bar, simple folding mechanism - quickly assembled.
Very sturdy stance!

Art. no.	set	kg	PU
5641	12	18,750	1

Aluminium support brackets

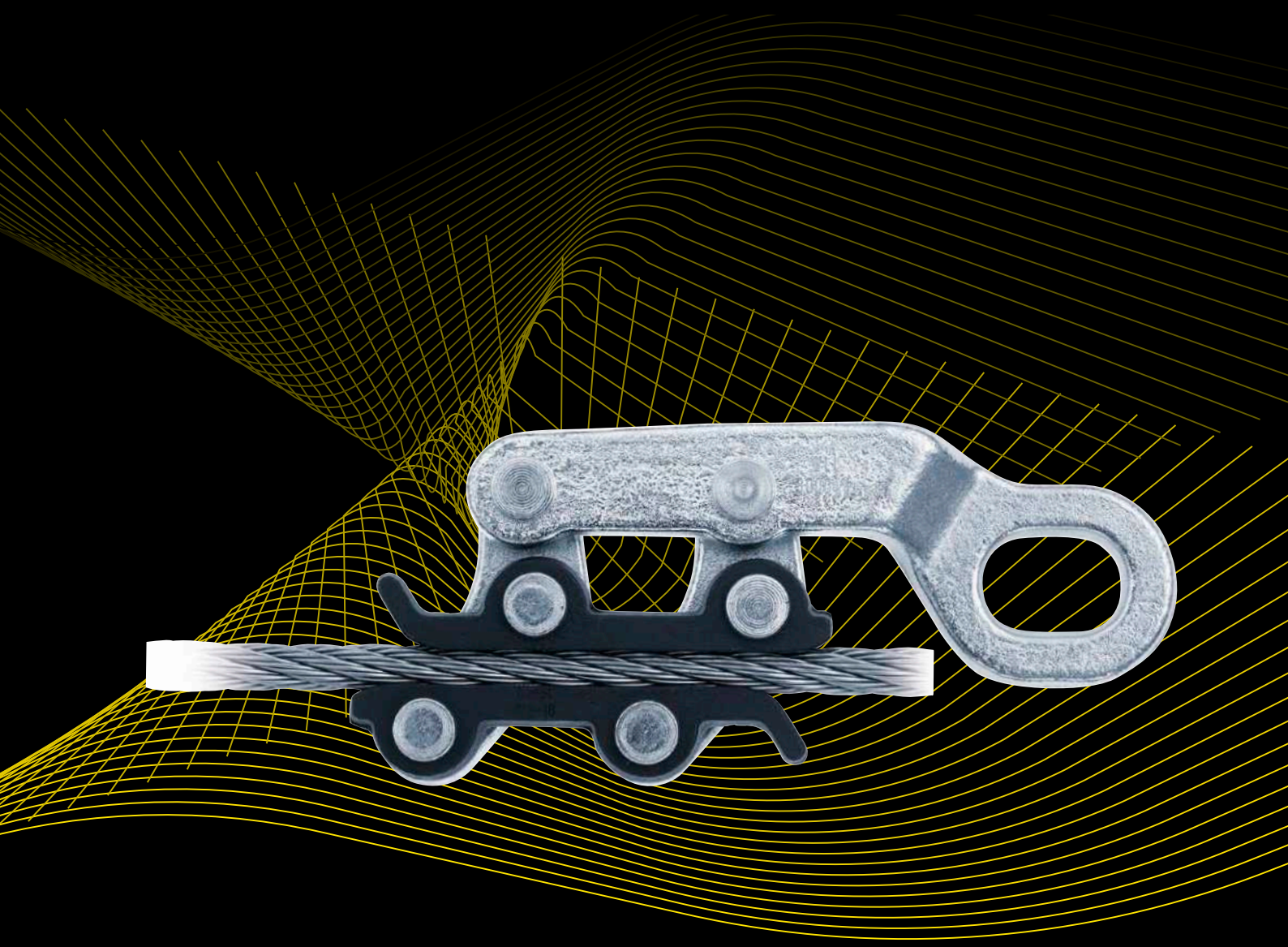
- suitable for vices

Art. no.	Width	kg	PU
231/135	135	0,158	1
231/150	150	0,183	1

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

Best-seller Premium product

Wire robe 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!

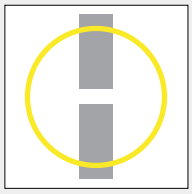
Clamping jaw profile

Art. no.	rope Ø	rope mm²	ultim. 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!



Clamping jaw profile

Art. no.	rope Ø	ultim. load kg	kg	PU
3467/1	1 – 9	2.500	0,850	1
3467/3	1 – 18	7.000	1,850	1

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

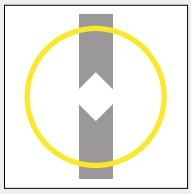
Best-seller Premium product

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!



Clamping jaw profile

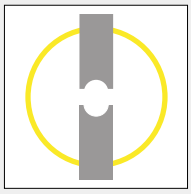
Art. no.	rope Ø	rope mm²	ultim. load kg	kg	PU
3468/0	1 – 5	1 – 16	1.250	0,260	1
3468/1	3 – 9	6 – 35	2.500	0,845	1
3468/2	4 – 12	16 – 70	4.500	1,255	1
3468/3	6 – 18	50 – 150	7.000	1,665	1
3468/4	10 – 28	90 – 400	8.000	4,000	1
3468/5	20 – 40	240 – 800	9.000	6,000	1

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!



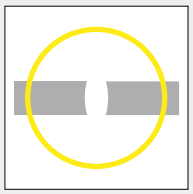
Clamping jaw profile

Art. no.	rope Ø	rope mm²	ultim. 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

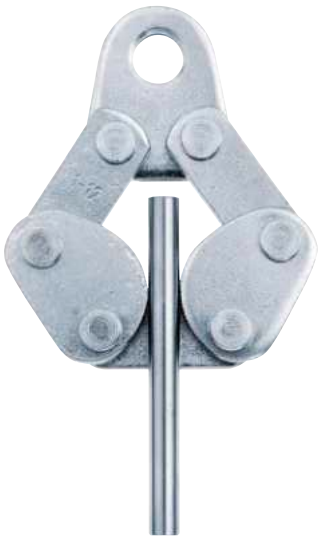
Wire stretcher

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!



Clamping jaw profile



Art. no.	span Ø	ultimate 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 – 5	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 10 m
- thickness 10 mm

Art. no.	m	Ø	kg	PU
3495/10	10	10	1,271	1

PU Packing unit PE Price unit

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

Best-seller Premium product

HAUPA transparent /
Foreign representatives

haupa®

... 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
Ø	diameter in mm
A	sleeve length
Al	aluminium
B	flange width
Balloon Ø	Balloon diameter
BL	blade length
c	flange length
c1	flange length 1
c2	flange length 2
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 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
drum/kg	drum weight in kg
drum/Ø	drum diameter in mm
drum/width	drum width in mm
E	length to middle of hole
H1	height 1 in mm
height (H)	height in mm
Hole Ø	Hole diameter
HW	hammer weight in g
Id.	identification number
Id. Al	identification number Al
Id. Cu	identification number Cu
Inner Ø	Inner diameter
kg/100	weight in kg/100 pcs.
kg/h	Gas quantity in kg/h
KlBr	Blade width
kN	Lifting capacity
l	length in mm
Loc.	locator
mat.	material
max. ml	Cartridge capacity
max. Ø	Max. cartridge diameter
mm²	diameter in mm²
N/Ø	nail diameter
NL	nail length
No.	number
NP	nominal pressure in bar
Ø	cross-section in mm
Ø after	diameter after shrinkage
Ø before	diameter before shrinkage
Ø mm²	Max. cable cross section
Ø/Inch	diameter in inch
Ø bo.	bolt diameter in mm
Outer Ø	Outer diameter
PE/PU	pricing/packing unit
PU	packing unit
PW	pressing width
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
se	single core sector
Shaft Ø	Shaft diameter
size	size in mm
sm	multiple core sector
span Ø	Jaw width
strength (St.)	strength in mm
Tin %	Tin percentage
TL	total length in m
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

Qualität

Seit 1996 ist HAUPA nach DIN EN ISO 9000 zertifiziert (seit 2003 DIN EN ISO 9001).

Um einen wirklichen Qualitätsanspruch zu verinnerlichen, entscheidet sich das Qualtätsmanagement der Firma HAUPA frühzeitig für die Zertifizierung nach ISO 9000, welche die kompletten innerbetrieblichen Arbeits- und Überwachungsvorgänge steuert und absichert. Vom Wareneingang bis zum Versand werden Arbeitsprozesse nach definierten Abläufen abgewickelt.

Alle HAUPA-Mitarbeiter werden regelmäßig geschult, diese Normen einzuhalten und aktiv Verbesserungen vorzuschlagen. Spezielle, sogenannte QMB Mitarbeiter analysieren veränderte Strukturen und binden diese in die festgelegten Standards ein. In kurzen Abständen finden zur Sicherstellung Audits von unabhängigen Prüfern statt.

DIN EN ISO 9001:2015 – Zertifikate

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Total Quality. Assured.

ZERTIFIKAT

Hiermit wird bescheinigt, dass das Managementsystem der:

Haupa GmbH & Co. KG

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durch Intertek auditiert und zertifiziert wurde in Bezug auf die Anforderungen der:

DIN EN ISO 9001:2015

Geltungsbereich des Managementsystems:

Herstellung und Vertrieb von Werkzeugen und Kabelverbindungstechnik

Zertifikat-Reg.-Nr.:
2021-03168-00 (Rev. 2)

Erst-Zertifizierung am:
30 Juli 2000

Datum der Zertifizierungsentscheidung:
31 Juli 2023

Ausstellungsdatum:
31 Juli 2023

Gültig bis:
30 Juli 2024

DAkkS

Calin Moldovean
President, Business Assurance

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CERTIFICATE
OF REGISTRATION

This is to certify that the management system of:

Haupa GmbH & Co. KG

Main Site: Lange Straße 40
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has been registered by Intertek as conforming to the requirements of:

DIN EN ISO 9001:2015

The management system is applicable to:

Production and selling of tools and cable joint technology

Certificate Number:
2021-03168-00 (Rev. 2)

Initial Certification Date:
30 July 2003

Date of Certification Decision:
31 July 2023

Issuing Date:
31 July 2023

Valid Until:
30 July 2024

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