

haupa

Gross Price-List 2023



HAUPA | Quality tools and connection technology for the electrical trade and the electrical industry.

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.

Trust for over 60 years

Hans-Udo Paas founded **HAUPA** in 1961 in Remscheid, the heart of the tool industry. Over more than 60-year history of the company, our medium-sized, value-oriented family business has developed into a globally active company. The recipe for success and our stable growth is the combination of **tradition, experience, expertise and innovation**. It is our constant endeavour to develop products of the highest precision, which offer the electrical engineer added value.



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 constantly 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!



PVC pipe cutters

PVC pipe cutter



Art. No.	Ø	kg	PU	EUR
200214	0 - 35	0,235	1	70,09
200215	spare blades	0,040	1	31,54

PVC pipe cutter



Art. No.	Ø	kg	PU	EUR
200216	0 - 42	0,270	1	90,19
200217	spare blades	0,055	1	37,27

PVC pipe cutter (with ratchet)



Art. No.	Ø	kg	PU	EUR
200218	0 - 63	0,270	1	123,96
200219	replacement blade	0,055	1	65,34

Corrugated tube cutter



Art. No.	Ø	kg	PU	EUR
200208	14 - 45	0,111	1	52,97

Cable cutters

Allround soft-grip scissors



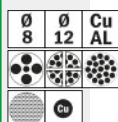
Art. No.		mm ²	kg	PU	EUR
200155	140	25	0,086	1	15,53

Allround soft-grip scissors



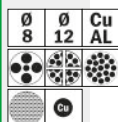
Art. No.		mm ²	kg	PU	EUR
200185	150	50	0.083	1	28.92

Cable cutter



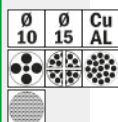
Art. No.	mm	Ø	mm²	kg	PU	EUR
201085 *	160	8	16	0,177	1	17,79
201087	200	12	35	0,289	1	19,99

Cable cutter



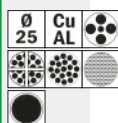
Art. No.	mm	Ø	mm²	kg	PU	EUR
201086	180	8	16	0,216	1	34,27
201088	240	12	35	0,361	1	36,72

Cable cutters with spring joint



Art. No.	mm	Ø	mm²	kg	PU	EUR
200086 *	170	10	25	0,266	1	41,76
200088 *	230	15	70	0,475	1	60,04

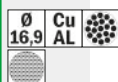
Cable cutter



Art. No.	mm	Ø	mm²	kg	PU	EUR
200105	215	25	70	0,281	1	69,81

Cable cutter with a snap

for fine wired cable



Art. No.	mm	Ø	mm²	kg	PU	EUR
201002 *	180	16,9	70	0,241	1	28,66

Cable cutter with a snap

for fine wired cable

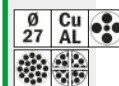


Art. No.	mm	Ø	mm²	kg	PU	EUR
201000	230	18,9	120	0,514	1	104,30

	single wire		wire rope
	multi-wire		armoured steel cable (SWA)
	sector-shaped		ACSR
	fine wire		bolt
	communication		solid steel
			solid Cu

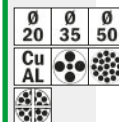
Cable cutters

Cable cutter



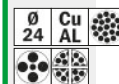
Art. No.	mm	Ø	mm²	kg	PU	EUR
200087	500	27	150	1,026	1	155,96

Cable cutters



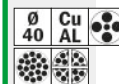
Art. No.	mm	Ø	mm²	kg	PU	EUR
200073	300	20	120	0,620	1	58,92
200073/MK	cutting head			0,190	1	43,03
200095	530	35	185	1,652	1	125,87
200095/MK	cutting head			0,610	1	81,29
200099	780	50	400	3,380	1	186,40
200099/MK	cutting head			1,202	1	119,54

Cable cutters „Super light“



Art. No.	mm	Ø	mm²	kg	PU	EUR
200197	700	24	120	1,839	1	153,02

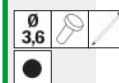
Cable cutter



Art. No.	mm	Ø	mm²	kg	PU	EUR
200100	980	40	400	3,920	1	484,42
200104	cutting head			0,606	1	315,68

Bolt cutters

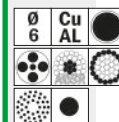
Bolt cutter



Art. No.	mm	Ø	kg	PU	EUR
200170	200	3,6	0,111	1	34,50

Wire cutters (ACSR)

Wire cutter

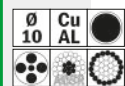


Art. No.	mm	Ø	mm²	kg	PU	EUR
200173 *	180	6	10	0,306	1	17,21

haupa®

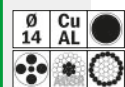
... convincing solutions

Wire cutter



Art. No.		Ø	mm ²	kg	PU	EUR
200175	180	10	95	0,752	1	66,96

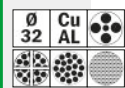
Wire cutter



Art. No.		Ø	mm²	kg	PU	EUR
200181	700	14	150	2.390	1	138.69

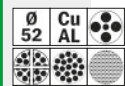
Cable cutters

Hand cable cutter



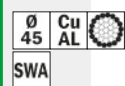
Art. No.		Ø	mm ²	kg	PU	EUR
200089 *	230	32	185	0,615	1	292.55

Hand cable cutter



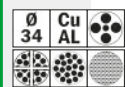
Art. No.		Ø	mm ²	kg	PU	EUR
200183 *	280	52	400	0.914	1	306.72

Ratchet two handed cable cutter „SCAR45“ for SWA cable



Art. No.		Ø	mm ²	kg	PU	EUR
200199	430	45	300	0.914	1	605.48

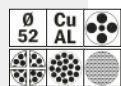
Cable cutter



Art. No.		Ø	mm²	kg	PU	EUR
200111	250	34	185	0.790	1	337.95

	single wire		wire rope
	multi-wire		armoured steel cable (SWA)
	sector-shaped		ACSR
	fine wire		bolt
	communication		solid steel
			solid Cu

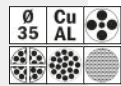
Cable cutter



Art. No.		Ø	mm²	kg	PU	EUR
200112	320	52	400	1,122	1	420,78

Cable cutter

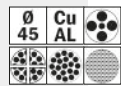
leveraged, power saving of up to 50%



Art. No.		Ø	mm²	kg	PU	EUR
200113	250	35	240	0.976	1	428.91

Cable cutter

leveraged, power saving of up to 50%

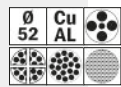


Art. No.		Ø	mm²	kg	PU	EUR
200177	260	45	300	0.900	1	511.67

Cable cutters with eccentric drive

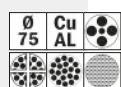
Cable cutter

leveraged, power saving of up to 50%



Art. No.		Ø	mm²	kg	PU	EUR
200114	325	52	400	1,340	1	610.77

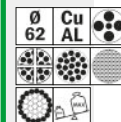
Special cable cutter



Art. No.		Ø	mm²	kg	PU	EUR
200116	370	75	300	1.585	1	783.67

Cable cutter

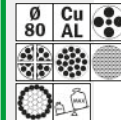
leveraged



Art. No.		Ø	mm ²	kg	PU	EUR
200115		410	62	750	2,224	1 1.178,96

Cable cutter

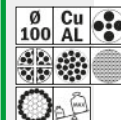
also suitable for cables with steel sheet jacket and soft steel wire reinforcement, ST 52



Art. No.		Ø	mm ²	kg	PU	EUR
200119	610	80	1000	3,322	1	1.496,25

Cable cutter

leveraged, also suitable for cables with steel sheet jacket and softsteel wire reinforcement, ST 52



Art. No.		Ø	mm ²	kg	PU	EUR
200179	610	100	1400	3.000	1	1.673.71

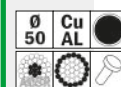
Special cable cutters

Universal cable cutter with eccentric drive

leveraged

Complete set:

- Universal cable cutter
- 1 pair of cutting segments S1 (Art. 200178/S1)
- Cleaner
- ACSR



Art. No.		Ø	mm ²	kg	PU	EUR
200178	230	50	300	1,140	1	748,86

Further accessories for cable cutter item no. 200178

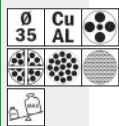


Art. No.	Ø	mm ²	kg	PU	EUR
200178/B	30	150	0,100	1	49,91
200178/C	30	150	0,100	1	49,91
200178/S	50	350	0,100	1	49,91
200178/S1	50	300	0,100	1	49,91
200178/S2	50	200	0,100	1	49,91

Front cable cutters with eccentric drive

Front cable cutter with eccentric drive

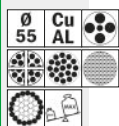
leveraged



Art. No.	mm²	Ø	kg	PU	EUR
200131	330 240	35	1,673	1	813,95

Front cable cutter with eccentric drive

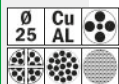
leveraged,
also suitable for cables with steel sheet jacket
and softsteel wire reinforcement, ST 52



Art. No.	 mm²	Ø	kg	PU	EUR	
200151	485	550	55	3.493	1	1.570,30

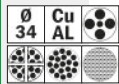
Front cable cutters

Front cable cutter



Art. No.		Ø	mm ²	kg	PU	EUR
200124	245	25	120	1,020	1	394.31

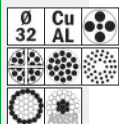
Front cable cutter



Art. No.	mm ²		Ø	kg	PU	EUR
200126	185	330	34	1,541	1	504.27

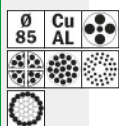
Hydraulic cable cutters

Hydraulic cutter „HH 85-ST“



Art. No.	mm ²	Ø	kg	PU	EUR
216402	580	32	5,300	1	1.903,22

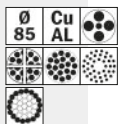
Hydraulic cutter „HH 85-ST“



Art. No.	mm ²	Ø	kg	PU	EUR
216404	690	85	6,830	1	4.019,30

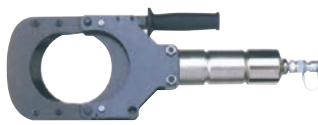
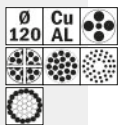
Hydraulic cutting headstocks

Hydraulic cutting headstock



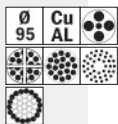
Art. No.	Ø	kg	PU	EUR
216408	85	5,020	1	3.133,79

Hydraulic cutting headstock



Art. No.	Ø	kg	PU	EUR
216410	120	14,600	1	3.814,53

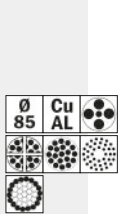
Hydraulic cutting headstock



Art. No.	Ø	kg	PU	EUR
216415	95	11,300	1	3.734,56

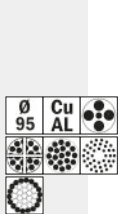
Safety cutting equipment

Hydraulic safety life line cable cutter



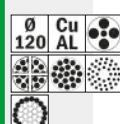
Art. No.	Ø	bar	kg	PU	EUR
216417	85	625	32,000	1	6.603,10

Hydraulic safety life line cable cutter



Art. No.	Ø	bar	kg	PU	EUR
216421	95	625	33,000	1	8.752,93

Hydraulic safety life line cable cutter

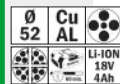


Art. No.	Ø	bar	kg	PU	EUR
216416	120	625	36,600	1	8.769,22
216416/850	120	850	36,600	1	8.769,22

Battery powered cable cutters

Battery powered cable cutter „AS-52“

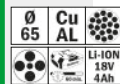
- for copper and aluminium cable
- diameter up to 52 mm



Art. No.	Ø	kg	PU	EUR
216434-1	52	7,130	1	1.708,02
216434-1-NO	52	3,100	1	1.505,01
216434-1-N	52	3,000	1	1.258,70

Battery powered cable cutter „AS-65“

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



Art. No.	Ø	kg	PU	EUR
216435-1	65	7,130	1	2.897,75
216435-1-NO	65	3,100	1	2.523,38
216435-1-N	65	3,000	1	2.281,31

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.

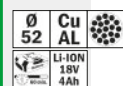
For versions -NO: no battery, no charger
For versions -N: only machine in transport packaging

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... convincing solutions

Battery powered cable cutter „AS-52F“

- for copper and aluminium cable
- with blades for fine-stranded cables



Art. No.	Ø	kg	PU	EUR
216436/F-1	52	7,480	1	1.903,17
216436/F-1-NO	52	3,500	1	1.707,30
216436/F-1-N	52	8,100	1	1.453,85

Battery powered cable cutter „AS-52ACSR“

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

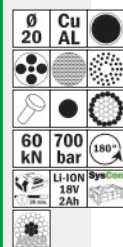


Art. No.	Ø	kg	PU	EUR
216436-1	18,6	8,100	1	1.903,17
216436-1-NO	18,6	3,500	1	1.707,30
216436-1-N	18,6	3,300	1	1.453,85

Hydraulic cable cutters

Battery powered universal cable cutter universal „AS6-S20“

- Pressing force kN: 60 kN
- Working pressure in bar: 700
- Cutting width Ø: 20
- Battery charging time in minutes: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- With the new HAUPA battery item no. 215523 and charger item no. 215527
- ACSR
- Sheet and wire armouring Cu
- Wire rope, bracing wire
- Soft rod steel
- Lead sleeve cable



Art. No.	Ø	kg	PU	EUR
216418-1	20	8,100	1	2.706,76
216418-1-NO	20	3,000	1	2.568,29
216418-1-N	20	2,700	1	2.222,83

	single wire		wire rope
	multi-wire		armoured steel cable (SWA)
	sector-shaped		ACSR
	fine wire		bolt
	communication		solid steel
			solid Cu

Battery powered cable cutter „AS6-S32“

- Pressing force kN: 60 kN
- Working pressure in bar: 700
- Cutting width Ø: 32
- Battery charging time in minutes: 30
- Battery type: Li-Ion, 18 V, 2 Ah
- With the new HAUPA battery item no. 215523 and charger item no. 215527



Art. No.	Ø	kg	PU	EUR
216419-1	32	7,900	1	2.755,27
216419-1-NO	32	3,900	1	2.500,77
216419-1-N	32	7,900	1	2.260,55

Battery-hydraulic cable cutter „AS6-S50“

- 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	EUR
216420-1	50	8,424	1	3.534,12
216420-1-NO	50	4,550	1	2.913,48
216420-1-N	50	7,900	1	2.679,00

Battery powered cable cutter „AS6-40“

- Pressing force kN: 60
- Working pressure in bar: 700
- Cutting width Ø: 40
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 4 Ah



Art. No.	Ø	kg	PU	EUR
216422-1	385	11,100	1	2.991,62
216422-1-NO	385	6,200	1	2.683,17
216422-1-N	385	5,700	1	2.898,44

Battery powered cable cutter „AS12-52“ (ACSR)

- 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	PU	EUR
216424-1	385	13,200	1	3.856,57
216424-1-NO	385	9,100	1	3.535,62
216424-1-N	385	8,500	1	3.066,80

Battery powered cable cutter „AS6-85“

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



Art. No.	Ø	kg	PU	EUR
216428-1	385	13,820	1	3.050,71
216428-1-NO	385	8,900	1	2.767,26
216428-1-N	385	8,300	1	2.353,17

Battery powered cable cutter „SAS6-85“

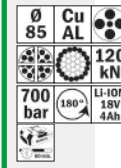
- Pressing force kN: 60
- Working pressure in bar: 700
- Cutting width Ø: 85
- Armoured steel cable
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 4 Ah



Art. No.	Ø	kg	PU	EUR
216430-1	385	12,900	1	5.178,93
216430-1-NO	385	8,900	1	4.895,47
216430-1-N	385	8,300	1	4.618,17

Battery powered cable cutter „AS12-S85“

- Pressing force kN: 120
- Working pressure in bar: 700
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 4 Ah



Art. No.	Ø	kg	PU	EUR
216425-1	385	16,150	1	5.761,86
216425-1-NO	385	13,000	1	5.440,91
216425-1-N	385	11,800	1	4.972,08

Cable sheath strippers

Cable stripper „Kabifix“



Art. No.	Ø	kg	PU	EUR
200022	6 - 28	0,100	1	64,99
200024	spare blades	0,007	1	17,68

Cable stripper „Kabifix LWL“



Art. No.	Ø	kg	PU	EUR
200023	6 - 25	0,136	1	99,53
200023/M	spare blades	0,003	1	10,58

„System 4 - 70“ cable stripper

Cable stripping knife system with interchangeable bracket



Art. No.	Ø	kg	PU	EUR
201040	4 - 70	0,123	1	66,69

Interchangeable bracket

Suitable for cable stripping system 4 - 70 (Art. No. 201040)



Art. No.	Ø	kg	PU	EUR
201042	4 - 16	0,031	1	18,95
201044	8 - 28	0,031	1	18,95
201046	27 - 35	0,060	1	22,30
201048	35 - 50	0,100	1	22,30
201050	50 - 70	0,100	1	22,30

Replacement hook blades

Suitable for cable stripping system 4 - 70 (Art. No. 201040)



Art. No.	Ø	kg	PU	EUR
201052	4 - 70	0,100	1	16,31

„Profi set“ cable stripping system 4 - 70

Contents:

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



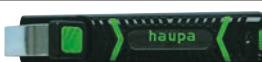
Art. No.	Ø	kg	PU	EUR
201054	4 - 70	0,100	1	171,26

Cable stripping knife



Art. No.	Ø	kg	PU	EUR
200031 *	8 - 28	0,100	1	19,63
200046	spare blades	0,004	10	2,22

Cable stripping knife



Art. No.	Ø	kg	PU	EUR
200038 *	4 - 16	0,090	1	18,16
200040	8 - 28	0,091	1	18,16
200042	28 - 35	0,101	1	21,65
200044	35 - 50	0,108	1	22,02
200046	spare blades	0,004	10	2,22

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



Art. No.	Ø	kg	PU	EUR
200050 *	4 - 15	0,111	1	30,08

Universal strippers



Art. No.	Ø	kg	PU	EUR
200036	8 - 13	0,065	1	25,73

Universal stripper



Art. No.	Ø	kg	PU	EUR
200043 *	8 - 13	0,063	1	44,51

„XL“ cable stripper

For stripping round cables with a round cut, extra long for deep flush-mounted boxes



Art. No.	Ø	kg	PU	EUR
201045	8 - 13	0,100	1	33,57

Flatcable stripper

For stripping flat cables up to 12 mm in width Stripping tool 0.8 - 2.5 mm²



Art. No.	Ø	kg	PU	EUR
200037	4 - 13	0,068	1	25,73

„Top Coax Plus“ cable stripper



Art. No.	Ø	kg	PU	EUR
201058	4.8 - 7.5	0,100	1	28,22

Hex socket wrench for coax

for items 201058 and 200035



Art. No.	SW	kg	PU	EUR
201059	11	0,100	1	3,36

Stripper for coaxial cable

CAT 5, CAT 6, CAT 7, twisted pair



Art. No.	Ø	kg	PU	EUR
200636 *	4,8 - 7,5	0,041	1	23,23

Cable strippers for short-circuit proof lines



Art. No.	Ø	kg	PU	EUR
200630	1,5	0,054	1	67,09
200632	2,5 - 6	0,054	1	67,09
200634	10 - 16	0,054	1	67,09

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PC-Strip

for data cables



Art. No.	Ø	kg	PU	EUR
200039	5 - 13	0,064	1	68,68

Cable stripper HUPstripPV

Solar 2,5 - 6 mm² | Ø 7,5 - 9,5 mm



Art. No.	Ø	kg	PU	EUR
201060	7,5 - 9,5	0,054	1	59,85

Stripper for coaxial cable



Art. No.	RJ	kg	PU	EUR
200069	RG 58-59-62-6	0,048	1	33,30

PC-Cat

CAT 5, CAT 6, CAT 7, twisted pair



Art. No.	Ø	kg	PU	EUR
200637	4,5 - 10	0,062	1	43,20

No.1-Cat

CAT 5, CAT 6, CAT 7, twisted pair



Art. No.	Ø	kg	PU	EUR
200638	4,5 - 10	0,050	1	68,82

Stripper for UTP-/STP-data cable



Art. No.	Ø	kg	PU	EUR
200068	3,5 - 9	0,060	1	33,72

Precision stripper PWS Plus



Art. No.	Ø	kg	PU	EUR
200033	0,25 - 0,8	0,039	1	45,45

Sensor Tool LSA



Art. No.	Ø	kg	PU	EUR
300322	0,35 - 0,9	0,078	1	52,82

Wire strippers

Cable stripper, manual



Art. No.	mm ²	kg	PU	EUR
210620 *	175 0,5 - 2,5	0,158	1	15,25
210622	175 0,5 - 1,5	0,158	1	15,25
210624	175 0,25 - 0,75	0,161	1	15,25

Cable stripper, manual optical fibre



Art. No.	mm ²	kg	PU	EUR
200057 *	150 0 - 0,18	0,120	1	20,60

Cable stripper, automatic



Art. No.	mm ²	kg	PU	EUR
210691	165 0,5 - 2	0,340	1	32,55
210692 *	165 1 - 4	0,350	1	32,65

Wire stripper „High Strip“

Rubber, silicone, TPE etc.



Art. No.	mm ²	kg	PU	EUR
210684	170 0,5 - 4	0,130	1	91,02

Automatic wire stripper Super Plus



Art. No.	mm ²	kg	PU	EUR
210695 *	170 0,2 - 6	0,088	1	37,17
210695/E	spare blades	0,010	1	11,13

Automatic wire stripper Super4Pro



Art. No.	mm ²	kg	PU	EUR
210698	165 0,2 - 6	0,111	1	61,07

Automatic wire stripper



Art. No.	mm ²	kg	PU	EUR
210696 *	180 0,2 - 6	0,151	1	55,83
210696/2	spare blades	0,030	1	17,69

Wire stripper / Solar



Art. No.	mm ²	kg	PU	EUR
210685	160 6 - 16	0,147	1	133,67

Flat cable pliers



Art. No.	mm ²	kg	PU	EUR
210686	160 0,75 - 2,5	0,148	1	100,63

Wire stripper Sensor Mini



Art. No.	Ø	kg	PU	EUR
210730	3.2 - 4.4	0,122	1	146,67

Wire stripper sensor special



Art. No.	Ø	kg	PU	EUR
210729	4.4 - 7.0	0,122	1	147,53

Cable stripper ASI, automatic

Special formed blades with integrated side scale



Art. No.	kg	PU	EUR
210693	0,117	1	209,46
210693/1	0,030	1	91,33

Cable stripper Outlet 20/55



Art. No.	Ø mm	kg	PU	EUR
210697	7.5 - 9	0,104	1	106,64
210699	7.5 - 9	0,100	1	106,64

Automatic cable stripper

Automatic cable stripper



Art. No.	mm²	kg	PU	EUR
211928	0.08 - 2.5	0,156	1	95,49
211928/1	spare blades	0,008	1	71,67

Automatic cable stripper



Art. No.	mm²	kg	PU	EUR
211930	0.08 - 6	0,255	1	101,15
211930/1	spare blades	0,009	1	54,67

Automatic cable stripper



Art. No.	mm²	kg	PU	EUR
211932	6 - 16	0,250	1	146,61
211932/1	spare blades	0,011	1	58,17

Automatic cable stripper



Art. No.	mm²	kg	PU	EUR
211934	0.03 - 10	0,130	1	124,86

Cable sheath strippers

Cable sheath cutter



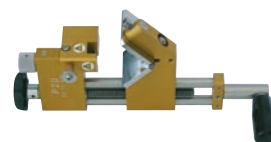
Art. No.	Ø	kg	PU	EUR
110581	>25	0,220	1	161,14

Stripping pliers



Art. No.	Ø	kg	PU	EUR
200187	26 - 52	0,760	1	594,54
200188	47 - 75	1,100	1	703,77

Stripping tool for medium-high voltage cable



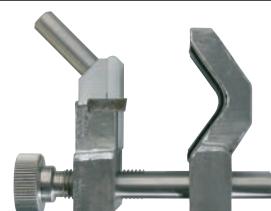
Art. No.	Ø	kg	PU	EUR
200520	10 - 50	0,800	1	1.332,56
200520/1	spare blades	0,800	1	792,95

Cable Sheath Stripper



Art. No.	mm²	Ø	kg	PU	EUR
200524	35 - 500	15 - 55	0,800	1	1.523,87
200524/1	spare blades		0,020	5	126,42

Edge cutter



Art. No.	Ø	kg	PU	EUR
200526	0 - 40	0,100	1	446,07
200528	0 - 60	0,100	1	632,21

Complete assembly case

Contents:

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



Art. No.	mm ²	kg	PU	EUR
200522	35 - 500	2,704	1	3.331,38

Crimping pliers systems for photovoltaics

HUPcompact „HC05“ for MC4 contacts



Art. No.	mm ²	kg	PU	EUR
213096	2,5 - 6	0,300	1	187,02

Crimping pliers

211657: square crimping (MC3) / 211659: roll crimping (MC4)



Art. No.	mm ²	kg	PU	EUR
211657	2,5 - 6	0,560	1	75,77
211659 *	2,5 - 6	0,560	1	74,63

Crimpset „MULTI Photovoltaik“

MC3: art. 212007, MC4: art. 212008



Art. No.	kg	PU	EUR
212005 MC3 + MC4	1,150	1	330,22

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.		mm²	kg	PU	EUR
213084	230	1.5 - 6	0,300	1	632,15
213084/E	crimp star		0.175	1	379,30

Crimpset X-Crimp for photovoltaics

Supplied in robust nylon bag (article 220260).

Content: Art. 211690, Art. 211657/E, Art. 211659/E, Art. 210842/E, Art. 210761/E



Art. No.	kg	PU	EUR
211697 Set PV	0,900	1	262,47

HAUPA Crimp System for Photovoltaics

without dies



Art. No.	mm ²	kg	PU	EUR
212200	6	0,998	1	392,56

Crimp insert for „Hirschmann“ contacts



Art. No.	EUR
212218 2,5 + 4 + 6 mm ² , AWG 13/11/10	269,37

Crimp inserts for „Huber & Suhner“ contacts



Art. No.	EUR
212206 2,5 + 4 mm ² , AWG 13/11	302,67
212208 4 + 6 mm ² , AWG 11/10	297,76

Crimp inserts for „multi-contact“ contacts



Art. No.	EUR
212210 MC3, 2,5 + 4 + 6 mm ² , AWG	310,06
212212 MC3, Locator	155,16
212214 MC4, 2,5 + 4 + 6 mm ² , AWG	335,26
212216 MC4, Locator	158,98

Crimp insert for „Tyco“ contacts



Art. No.	EUR
212220 Tyco 1,5 + 2,5 + 4 + 6 mm ²	471,50
212222 Locator for Tyco	152,02

Dies for Solar contacts Amphenol



Art. No.	EUR
212226 2,5 + 4 mm ² , AWG 13/11	310,06
212228 Locator for Amphenol	212,27

Assembly tool MC4



Art. No.	kg	PU	EUR
110806 MC 4	0,048	1	12,38

SolarKit I

Contents:

211225 VDE cable cutter 160 mm for Ø 10 mm
201060 HUPstripPV
110806 MC4 assembly tool (2 pieces)
213096 HUPcompact „HC05“ for MC4 connector
220090 Case with insert



Art. No.	set	kg	PU	EUR
330044	5	0,700	1	315,36

Solar Kit II

Contents:

201085 Cable cutter 160 mm dip-insulated for Ø 10 mm
201060 HUPstripPV
110806 Assembly tool MC4 (2 pieces)
213096 HUPcompact „HC05“ for MC4 connector
220105 Belt bag „ToolBelt“ with 8 compartments



Art. No.	set	kg	PU	EUR
330045	5	0,700	1	260,68

Crimping pliers for end sleeves

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210818	0,25 - 2,5	0,210	1	24,93

Crimping pliers



Art. No.		mm ²	kg	PU	EUR
210820 *	140	0,25 - 2,5	0,202	1	38,94
210824 *	220	0,75 - 16	0,304	1	51,52
210826 *	225	10 - 35	0,277	1	51,52

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
211650	0,14 - 2,5	0,371	1	76,43
210841 *	0,25 - 6	0,380	1	76,43
211652	6 - 16	0,374	1	76,43

Crimping pliers for twin end sleeves



Art. No.	mm ²	kg	PU	EUR
211676	0,5 - 6	0,576	1	76,65
211678	6 - 16	0,604	1	88,58

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210763 *	0,5 - 4	0,578	1	59,51
210842 *	1 - 10	0,553	1	58,70
210765	6 - 16	0,582	1	59,51
211672	10 - 25	0,580	1	76,65
210768	10 - 35	0,606	1	111,25
211674	25 - 50	0,600	1	88,58

HUPcompact „HC02“



Art. No.	mm ²	kg	PU	EUR
213088	0,25 - 16	0,480	1	212,33

Crimping pliers “HUPsquare 10”



Art. No.	mm ²	kg	PU	EUR
212804	0,08 - 10	0,566	1	156,67

Crimping pliers “HUPsquare 16”



Art. No.	mm ²	kg	PU	EUR
212806	0,5 - 16	0,566	1	161,83

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210804	0,08 - 10	0,360	1	277,31

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
211816 *	0,08 - 16	0,413	1	258,23

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
211805	0,08 - 6	0,413	1	313,14

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
211818	0,08 - 10	0,413	1	328,89

Front-Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210819	0,08 - 10	0,489	1	341,97
211810	0,08 - 16	0,489	1	299,48

Front-Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210979	0,14 - 6	0,575	1	254,91
210979/B	10 - 16	0,584	1	281,67

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210788 *	10 - 50	0,732	1	266,08
210789	50 - 95	0,800	1	283,82

Quadro complete set in case



Art. No.		mm ²	kg	PU	EUR
210682	170	0,5 - 2,5	0,713	1	582,65

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... convincing solutions

Pneumatic crimpers

HAUPA Pneumatic Crimpers



Art. No.	mm ²	kg	PU	EUR
217030	200 0,25 - 2,5	0,720	1	683,06
217040	200 4 - 10	0,739	1	887,41

HAUPA Pneumatic crimpers table top versions



Art. No.	mm ²	kg	PU	EUR
217010	200 0,25 - 2,5	5,000	1	903,23
217020	200 4 - 10	5,000	1	1.110,93

Crimping pliers for insulated crimp cable lugs

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210845	0,08 - 2,5	0,343	1	111,44

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210761 *	0,5 - 6	0,566	1	59,51

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
211695	0,5 - 10	0,566	1	62,25

HUPcompact „HC01“



Art. No.	mm ²	kg	PU	EUR
213090	0,1 - 6	0,480	1	187,02

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210827	10 - 16	0,472	1	185,66

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210802	1,5 - 6	0,178	1	7,20

Combi-Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210808 *	1,5 - 6	0,198	1	9,66

Crimping pliers for coaxial connections

Crimping pliers



Art. No.	kg	PU	EUR
210849	RG 55-58-59-62	0,303	1 111,44

Crimping pliers



Art. No.	kg	PU	EUR
210767 *	RG 55-58-59-62	0,567	1 80,99
211680	RG 55-58-59-62-5-6	0,578	1 62,23

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	EUR
213082	230	0,300	1 632,15

Crimping pliers for contacts and connectors

Crimping pliers

twisted contacts



Art. No.	mm ²	kg	PU	EUR
211656	0,14 - 4	0,367	1	76,43
211658	1,5 - 6	0,372	1	76,43

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
211660	0,14 - 1,5	0,370	1	76,43

Crimping pliers

D-Sub-connectors



Art. No.	mm ²	kg	PU	EUR
211662	0,08 - 0,56	0,365	1	82,28

Crimping pliers for uninsulated open brass cable lugs

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210777	0,5 - 1,5	0,366	1	97,55

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
211682	0,5 - 2,5	0,568	1	76,37
210762 *	0,5 - 6	0,575	1	83,57

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210785	0,5 - 1	0,537	1	121,45
210786	1,5 - 2,5	0,535	1	121,45

HUPcompact „HC04“



Art. No.	mm ²	kg	PU	EUR
213094	0.5 - 6	0,490	1	237,59

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210778	0.25 - 2.5	0,363	1	97,55
210779	0.5 - 6	0,366	1	76,43

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210764	1.5 - 10	0,565	1	69,43

HUPcompact „HC03“



Art. No.	mm ²	kg	PU	EUR
213092	0.75 - 10	0,480	1	187,02

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210771	1,5 - 6	0,111	1	55,78

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210772	1 - 10	0,478	1	64,52
210774	1 - 16	0,503	1	75,06

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210799	0.5 - 16	0,640	1	147,52

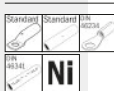
Crimping pliers for uninsulated tubular cable lugs, connectors

Crimping pliers



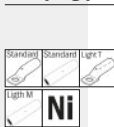
Art. No.	mm ²	kg	PU	EUR
210771	1,5 - 6	0,111	1	55,78

Crimping pliers



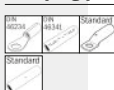
Art. No.	mm ²	kg	PU	EUR
210772	1 - 10	0,478	1	64,52
210774	1 - 16	0,503	1	75,06

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210830	0.75 - 16	0,574	1	144,14

Crimping pliers



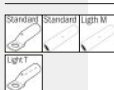
Art. No.	mm ²	kg	PU	EUR
210791	10 - 120	3,040	1	315,36

Crimping pliers



Art. No.	Typ	mm ²	kg	PU	EUR
210805	standard	6 - 50	1,351	1	214,89
210805 K	DIN	6 - 50	1,352	1	214,89
210850	standard	10 - 120	3,970	1	301,94
210853	DIN	10 - 120	4,016	1	301,94

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
210836	50 - 120	5,280	1	491,65
210838	120 - 240	5,200	1	536,05
210840	185 - 400	5,200	1	575,16

Crimping pliers for modular plugs

Crimping pliers for modular plugs



Art. No.	RJ	kg	PU	EUR
210867	RJ10 4(4), RJ14	0,218	1	30,54
210865	RJ11 6(4), RJ12 6(4)	0,220	1	30,54
210869	RJ45	0,233	1	35,77

Crimping pliers for modular plugs



Art. No.	RJ	kg	PU	EUR
213050	RJ11 6(4), RJ12 6(4), RJ45, RJ10 4(4), RJ14	0,300	1	76,57

Crimping pliers for modular plugs



Art. No.	RJ	kg	PU	EUR
210857	RJ11 6(4), RJ12 6(4), RJ45	0,471	1	140,65

Crimping pliers for modular plugs



Art. No.		kg	PU	EUR
210871	RJ11 6(4), RJ12 6(4), RJ45, RJ10 4(4), RJ14	0,520	1	213,24

Crimping pliers for modular plugs



Art. No.	kg	PU	EUR
213000	0,420	1	187,00

Dies

for crimping pliers 213000



Art. No.	RJ	kg	PU	EUR
213002	RJ10 4(4)	0,082	1	65,08
213004	RJ11 6(4), RJ12 6(4)	0,081	1	65,08
213006	6DEC	0,080	1	65,08
213008	2pole, unshielded RJ45	0,076	1	65,08
213010	10pole, unshielded RJ50	0,074	1	65,08
213012	8pole, shielded	0,076	1	81,32
213014	10pole plug, shielded	0,071	1	81,32

Crimping pliers for modular plugs

without dies



Art. No.	kg	PU	EUR
213020	0,474	1	214,18

Dies

for crimping pliers 213020



Art. No.	RJ	kg	PU	EUR
213022	8pole, shielded	0,103	1	203,29
213024	10pole, shielded	0,102	1	210,68
213026	RJ10 4(4)	0,096	1	238,84
213028	RJ11 6(4), RJ12 6(4)	0,093	1	242,78
213030	6DEC	0,091	1	242,78
213032	RJ45	0,106	1	247,22
213034	RJ50	0,102	1	251,46
213036	8pole, CAT 5	0,106	1	247,22
213038	6pole, shielded	0,106	1	203,29
213040	8pole, shielded	0,113	1	325,28
213042	Ø 3,7 mm	0,030	1	76,14
213044	Ø 4,5 mm	0,030	1	67,75
213046	Ø 5,2 mm	0,030	1	67,75
213048	Ø 6,0 mm	0,030	1	76,14

Network range

Content:

- 1 x 213050
- 1 x 200068
- 1 x 300322



Art. No.	set	kg	PU	EUR
300033	3	0,700	1	219,53

HUPstar Multifunction Pliers

Tool frame „HUPstar“ – open

Tool frame without star crimp, open design specifically for connectors



Art. No.	mm	kg	PU	EUR
213078	230	0,510	1	202,22

Tool frame „HUPstar“ – closed

Tool frame without star crimp, enclosed design



Art. No.	mm	kg	PU	EUR
213077	230	0,530	1	202,22

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.	mm	kg	PU	EUR
213086	230	0,300	1	632,15

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 / 2.54 / 6



Art. No.	mm	kg	PU	EUR
213080	230	0,300	1	632,15

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.	mm	kg	PU	EUR
213082	230	0,300	1	632,15



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.	mm	mm²	kg	PU	EUR
213084	230	1.5 - 6	0,300	1	632,15

HUPstar „Fibre Optic Connector“

Fiber Optic Connector

1.69; 2.5; 3; 3.25; 3.65; 4.2; 4.52; 4.95; 5; 6.5; 10.9



Art. No.	mm	kg	PU	EUR
213098	230	0,650	1	479,66

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.	mm	kg	PU	EUR
213102	230	0,300	1	479,66

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.	mm	kg	PU	EUR
213100	230	0,300	1	833,10

Dies for HUPstar

HUPstar

End sleeves 0.5 – 10 mm²

Insulated crimp-style cable lugs 0.1 – 6 mm²

Ring cable lugs (DIN 46234 / DIN 46341) 0.25 – 10 mm²



Art. No.		kg	PU	EUR
213086/E	dies	0,175	1	379,30

HUPstar



End sleeves 0.14 - 16 mm²
flat push-on receptacles 0.14 - 6 mm



Art. No.		kg	PU	EUR
213080/E	dies	0,175	1	379,30

HUPstar „Coaxial“



Coaxial
BNC, TNC, SNB, SNC, SMS, SMA, MCX, 1.07 - 10.9 mm



Art. No.		kg	PU	EUR
213082/E	dies	0,175	1	379,30

HUPstar „Photovoltaic“



Photovoltaics / Solar
Amphenol Helios H4, multi-contact MC3/ MC4 2.5 - 6.0
Tyco Solarlok, 1.5 - 4.6 mm²
Only for closed frame Art. No. 21307



Art. No.		kg	PU	EUR
213084/E	dies	0,175	1	379,30

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	EUR
213098/E	dies	0,175	1	278,04

HUPstar „Twisted contacts, square“



Twisted contacts, square
0.1; 0.14; 0.25; 0.34; 0.5 1; 1.5; 2.5; 4; 6; 10
Locator for Ø 1.6; 2.5; 4



Art. No.		kg	PU	EUR
213102/E	dies	0,175	1	278,04

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.		mm ²	kg	PU	EUR
210784 *		0,5 - 6	0,560	1	59,02

Crimpset X-Crimp including nylon bag



Supplied in robust nylon bag (article 220260).

Content:

art. 211690, 210763/E, 210764/E, 210765/E, 210761/E



Art. No.		kg	PU	EUR
211692 *	Set	0,860	1	256,26

Crimping pliers X-Crimp



Crimping pliers used to quickly change HAUPA precision
pressing inserts



Art. No.		kg	PU	EUR
211690	210761/E	0,566	1	100,10

Crimping dies for insulated crimp cable lugs



for insulated crimp cable lugs, oval crimping



Art. No.		mm ²	kg	PU	EUR
210761/E		0,5 - 6,0	0,053	1	26,69

Crimping dies for uninsulated terminals



for uninsulated terminals, mandrel shape crimping



Art. No.		mm ²	kg	PU	EUR
210764/E		1 - 10	0,111	1	26,69

Crimping dies for end sleeves



for end sleeves, trapezoid crimping



Art. No.		mm ²	kg	PU	EUR
210763/E		0,5 - 4	0,072	1	26,69
210842/E		1 - 10	0,054	1	26,69
210765/E		6 - 16	0,111	1	26,69
211672/E		10 - 25	0,050	1	26,69

Crimping dies for TWIN end sleeves



for TWIN-end sleeves, trapezoid crimping



Art. No.		mm ²	kg	PU	EUR
211676/E		0,5 - 6	0,050	1	30,34

Crimping dies for coaxial cable



for coaxial cable, hexagon crimping



Art. No.		kg	PU	EUR
210767/E	RG 58-59-62-6	0,050	1	26,69

Crimping dies for flat connectors



for flat connectors, uninsulated open brass cable lugs, roll
crimping

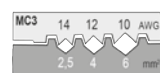


Art. No.		mm ²	kg	PU	EUR
210762/E		0,5 - 6	0,111	1	28,34

Crimping dies for Photovoltaik



for „multi-contact“ contacts

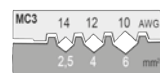


Art. No.		mm ²	kg	PU	EUR
211657/E		2,5 - 6	0,050	1	26,69

Crimping dies for Photovoltaik MC4



for „multi-contact“ contacts



Art. No.		mm ²	kg	PU	EUR
211659/E		2,5 - 6	0,050	1	26,69

haupa®

... convincing solutions

Crimping dies for cable lugs / end sleevesfor end sleeves 0,5 - 6 mm² / cable lugs 0,5 - 2,5 mm²

Art. No.	mm ²	kg	PU	EUR
210784/E	0,5 - 6,0	0,560	1	58,93

Crimpset MULTI

4 dies for:

- (1) 211963 (2) 211998 (3) 211999 (4) 212000
1. insulated terminals 0,5 - 6 mm²
2. insulated and uninsulated end sleeves 0,5 - 16 mm²
3. uninsulated terminals 0,5 - 10 mm²
4. BNC and TNC coaxial connectors RG 58-59-62-71



Art. No.	kg	PU	EUR
211960	1,119	1	279,56

Crimping pliers „Multi“

Art. No.	kg	PU	EUR
211962	0,582	1	109,64

Dies for crimp pliers „Multi“

211963	End sleeves 0,5 - 16 mm ²	41,61
211964	End sleeves 16 - 35 mm ²	42,17
211965	Sockets 0,5 - 2,5 mm ²	45,74
211990	Coax, Thinnet, Mini-UHF, BNC/TNC RG 58, RG 174	36,92
211991	Koax RG 174, 179	36,92
211992	SMA, SMB, Mini-59, Mini-UHF, BNC/TNC RG 6, RG 6 Quad	37,02
211993	Coax, CATV "F" Typ, BNC/TNC RG 6, RG 6 Quad	37,02
211994	N-Typ RG 8, RG 11	37,02
211995	Coax, N-Typ RG 8, RG 11, RG 213, RG 216	36,92
211996	Fibre Optic, SMA Typ	47,48
211997	Fibre Optic, SMA, SMB, SFR, ST, SC Typ	49,15
211968	RJ 45 - 8P8K, Steward Connectors, 22-24 AWG	46,32
211969	RJ11, RJ12, Steward	46,32
211970	Telephon 4P4K, AMP+Steward Connectors, 22-24 AWG	45,70
211971	RJ45 8P8K, AMP	46,32
211972	RJ11, RJ12 6P6C, AMP	45,70
211973	RJ11, DEC MMJ 6P6C, AMP	45,70
211980	RJ 45 - 8P8K, short, Steward Connectors, STP 22-24 AWG	70,30
211981	RJ 45 - 8P8K, long, Hirose, STP 22-24 AWG	70,30
211982	RJ 45 - 8P8K, short, Hirose, STP 22-24 AWG	66,58
211985	RJ 45 - 8P8K, AMP, Molex, for Ø 6,0 mm, STP 22-24 AWG	68,58
211998	insulated terminals 0,5-6,0 mm ²	34,87
211999	uninsulated terminals 0,5-6,0 mm ²	34,99
212000	Coax RG58-59-62-71	34,99
212007	MC3	90,62
212008	MC4	93,01

Elektric crimper**HAUPA electric crimper**

with foot pedal



Art. No.	mm ²	kg	PU	EUR
217050	6 - 50	10,000	1	7.614,29

Dies for elektro crimper 217050

Art. No.		EUR
217052	Rolled contacts 0,14-1/1,5/2,5/4 mm ²	281,89
217056	Rolled contacts 0,14-1/1,5/2,5/4 mm ²	323,64
217058	Rolled crimp contacts 0,1-1,5 mm ²	330,18
217060	Rolled crimp contacts 0,5-6 mm ²	323,64
217062	End sleeves 0,25-6 mm ²	281,89
217064	Insolated terminals 0,5-6 mm ² symetric	203,20
217066	Insolated terminals 0,5-6 mm ² asymmetric	346,23
217068	Tube terminals 0,34-2,5 mm ²	249,68
217070	Tube terminals "super flex" 4-10 mm ²	203,20
217072	Tube terminals "standard" 4-10 mm ²	203,20
217074	Crimping terminals 4-10 mm ²	203,20
217076	Crimping terminals 0,5-10 mm ²	203,20
217078	Protection cover to 217056/60	76,19
217080	Protection cover to 217070/72/74/76	76,19
217082	Protection cover to 217068	76,19
217084	Protection cover to 217062	76,19
217086	Protection cover to 217064/66	76,19
217088	Locator to 217060, socket sleeves 6,3 mm	171,23
217090	Locator to 217056/58/60, socket sleeves 4,8 mm	280,31
217092	Locator to 217056, socket sleeves 2,8x5 mm	171,23
217094	Locator to 217056, socket sleeves 2,8x6 mm	171,23
217096	Locator to 217060, socket sleeves 6,3 mm	171,23
217098	Locator to 217060, socket sleeves 6,3 mm HN	171,23

Mechanical crimping pliers for tubular cable lugs**Crimping pliers**

Art. No.	mm ²	kg	PU	EUR
215000	6 - 50	1,531	1	865,16

Metal box

Art. No.	kg	PU	EUR
215002	0,934	1	91,13

Crimping dies for standard cable lugs and compacted cables

Art. No.	mm ²	kg	PU	EUR
215004	10	0,041	1	129,04
215006	16	0,040	1	129,04
215008	25	0,037	1	128,65
215010	35	0,036	1	128,65
215012	50	0,033	1	128,44

Crimping dies for insulated crimping terminals

Please order top and bottom tools separately



Art. No.	mm ²	kg	PU	EUR
215014	6	0,018	1	98,46
215016	10	0,190	1	98,46
215018	16	0,190	1	98,46
215020	25	0,190	1	98,47
215022	35	0,020	1	98,46
215024	6 - 35	0,020	1	98,96

Crimping dies for insulated crimping terminals

Art. No.	mm ²	kg	PU	EUR
215026	10	0,039	1	171,75
215028	16	0,039	1	171,78

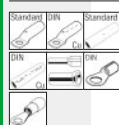
Crimping dies

Art. No.	Cu	Al	I/no.	kg	PU	EUR
215030	6		5	0,100	1	129,04
215032	10		6	0,100	1	129,04
215034	16	10	8	0,100	1	129,04
215036	25	16	10	0,150	1	129,04
215038	35	25	12	0,150	1	128,65
215040	50	35	14	0,150	1	129,04

Crimping dies

Art. No.	mm ²	kg	PU	EUR
215042	6	0,150	1	197,86
215044	10	0,150	1	197,86
215046	16	0,150	1	199,05
215048	25	0,200	1	199,05
215050	35	0,200	1	199,05

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
215100	6 - 120	2,100	1	1.095,56

Crimping dies for terminals DIN



Art. No.	Cu	Al	I/no.	kg	PU	EUR
215142	10 - 70	10 - 50	6 - 16	0,128	1	143,70
215144	16 - 35	16 - 25	8 - 12	0,130	1	143,70
215146	25 - 50	25 - 35	10 - 14	0,130	1	143,70
215148	95	70	18	0,130	1	137,26
215150	120	-	20	0,130	1	137,26

Metal box



Art. No.	kg	PU	EUR
215102	1,700	1	123,19

Crimping dies for crimping terminals DIN



Art. No.	mm ²	kg	PU	EUR
215104	10 - 70	0,130	1	143,70
215106	16 - 35	0,132	1	143,70
215108	25 - 50	0,126	1	143,70
215110	95	0,138	1	138,49
215112	120	0,136	1	143,80

Crimping dies for unisulated terminals, up to four diameter, DIN 46234 & DIN 46341

Please order top and bottom tools separately



Art. No.	mm ²	kg	PU	EUR
215114	6 - 70	0,080	1	143,70
215116	10 - 35	0,060	1	151,36
215118	16 - 50	0,055	1	156,22
215120	6 - 50	0,150	1	106,55
215122	70	0,150	1	97,25

Crimping dies for insulated crimping terminals



Art. No.	mm ²	kg	PU	EUR
215124	10	0,147	1	254,15
215126	16	0,152	1	254,15
215128	25	0,153	1	254,15
215130	35	0,154	1	281,92

Crimping dies for rounding of square copper and aluminium



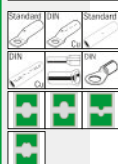
Art. No.	mm ²	kg	PU	EUR
215152	25 - 35	0,155	1	137,18
215154	35 - 70	0,150	1	143,70
215156	95	0,150	1	137,18

Crimping dies for terminals DIN



Art. No.	mm ²	kg	PU	EUR
215164	25	0,059	1	250,48
215166	35	0,059	1	250,48
215168	50	0,059	1	250,48
215170	70	0,059	1	266,07
215172	95	0,059	1	266,28

Crimping pliers



Art. No.	mm ²	kg	PU	EUR
215200	10 - 240	4,500	1	1.851,83

Metal box



Art. No.	kg	PU	EUR
215202	3,700	1	167,66

Crimping dies for standard cable lugs and compacted cables



Art. No.	mm ²	kg	PU	EUR
215204	10 - 25	0,221	1	181,96
215206	16 - 35	0,320	1	181,96
215208	50	0,349	1	171,75
215210	70	0,331	1	171,75
215212	95	0,330	1	171,75
215201	120	2,486	1	171,75
215203	150	0,308	1	171,75
215205	185	0,317	1	171,75
215207	240	0,300	1	171,75

Crimping dies for unisulated crimping terminals, DIN 46234 + DIN 46341

Please order top and bottom tools separately



Art. No.	mm ²	kg	PU	EUR
215214	10 - 70	0,178	1	143,70
215216	95 - 150	0,169	1	143,70
215218	10 - 70	0,163	1	139,99
215220	16 - 35	0,170	1	139,99
215222	25 - 50	0,163	1	139,99
215224	95	0,161	1	139,99
215226	120	0,152	1	139,99
215228	150	0,144	1	139,99

Crimping dies for terminals DIN



Art. No.	Cu	Al	I/no.	kg	PU	EUR
215230	10	-	6	0,350	1	171,75
215232	16	-	8	0,330	1	171,75
215234	25	16	10	0,328	1	171,75
215236	35	25	12	0,330	1	171,75
215238	50	35	14	0,326	1	180,33
215240	70	50	16	0,326	1	171,75
215242	95	70	18	0,321	1	171,75
215244	120	-	20	0,300	1	171,75
215246	150	95 - 120	22	0,305	1	185,46
215248	185	150	25	0,305	1	180,33
215250	240	185	28	0,290	1	171,75

Battery powered crimping tool

Smart Battery powered crimping tool universal „US-6M“

Sensor



- For 6 different interchangeable heads (item no. 216761, item no. 216762, item no. 216763, item no. 216764, item no. 216665-U, item no. 216666-U)
- Heads can be changed easily
- Can be locked using 2 extractable pins
- With the new HAUPA battery item no. 215523 and charger item no. 215527
- Pressing load kN: 60
- Working pressure in bar: 700

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred.



Art. No.	mm	kg	PU	EUR
216760-1	315	6,180	1	2.026,34
216760-1-NO	315	2,990	1	1.811,80
216760-1-N	315	2,400	1	1.615,09

Hydraulic hand pliers Universal „HUS-6“

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



Art. No.	mm	kg	PU	EUR
216768	315	2,200		1.468,91

Crimping headstock „U-K0-6“

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 AI 16-300
- Connectors: standard Cu 6-300 / DIN Cu 6-300 / DIN AI 16-300

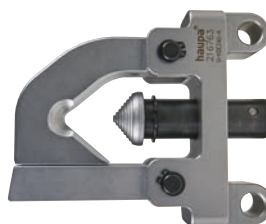


Art. No.	mm	mm²	kg	PU	EUR
216761	140	6 - 300	1,700	1	580,07

Crimping headstock „U-KDE240-6“

Pressing head with quick opening, indent v-shape pressing, no inserts required.

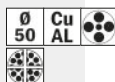
- Head can be opened
- Cable lugs/Connectors standard Cu: 10-240 mm²
- Cable lugs/Connectors DIN AI: 50-240 mm²
- DIN 46234: 10-240 mm²



Art. No.	mm²	mm	kg	PU	EUR
216763	16 - 240	130	1,200	1	685,90

Cutting headstock „U-KS6-S50“

for copper and aluminium cable



Art. No.	mm	Ø	kg	PU	EUR
216762	233	50	2,800	1	792,91

Punching headstock „U-S-6“

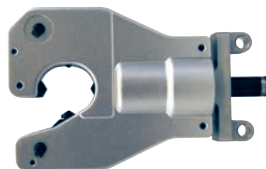
without inserts

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



Art. No.	mm	kg	PU	EUR
216764	180	2,700	1	540,88

Crimping headstock „U-D300-6“



Art. No.	mm	mm²	kg	PU	EUR
216665-U	180	16 - 300	3,000	1	1.338,66

Crimping headstock „U-D400-6“



Art. No.	mm	mm²	kg	PU	EUR
216666-U	180	25 - 400	3,000	1	1.422,33

Adapter for pumps

For hydraulic pump item 216357 so the interchangeable heads for art. 216760-1 can be used (items 216761, 216762, 216763, 216764, 216665-U, 216666-U)

700 bar



Art. No.	mm	kg	PU	EUR
216765	155	1,700	1	587,93

Universal set 2

Art. 216760-1, art. 216761 and art. 216762
Technical data and scope of delivery see 216760-1, 216761 und 216762



Art. No.	Set	kg	PU	EUR
216767	Set	15,000	1	3.228,90

Universal set 1

Art. 216760-1, art. 216763 and art. 216762
Technical data and scope of delivery see 216760-1, 216763 und 216762



Art. No.	Set	kg	PU	EUR
216766	Set	10,180	1	3.329,30

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 crimping tools

Hydraulic hand pliers „HHs-6“

- 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

Art. No.	mm ²	kg	PU	EUR
215765	370 10-240	4,600	1	1.000,35

Battery powered crimping tool „SHs-6“

- 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

Art. No.	mm ²	kg	PU	EUR
215770-1	398 10-240	7,900	1	1.991,20
215770-1-NO	398 10-240	7,900	1	1.793,90
215770-1-N	398 10-240	3,000	1	1.590,77

Battery powered crimping tool „SHs-6M“

Sensor

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred. Technical data and scope of delivery see 215770-1



185-H6

Art. No.	mm ²	kg	PU	EUR
215770/M-1	398 10-240	7,900	1	2.579,15
215770/M-1-NO	398 10-240	3,100	1	2.368,75
215770/M-1-N	398 10-240	3,000	1	2.186,93

Crimping dies standard



185-H6

Art. No.	mm ²	PW	kg	PU	EUR
215641	10 - 16	5	0,157	1	88,63
215642	25 - 35	5	0,155	1	88,63
215643	50 - 70	5	0,150	1	88,63
215644	95 - 120	5	0,145	1	88,63
215645	150	5	0,159	1	73,20
215646	185	5	0,156	1	73,20
215648	240	5	0,156	1	73,20

Crimping dies DIN



185-H6

Art. No.	mm ²	PW	l/no.	kg	PU	EUR
215650	10 - 16	5	6 - 8	0,155	1	88,63
215651	25 - 35	5	10 - 12	0,151	1	88,03
215652	50 - 70	5	14 - 16	0,149	1	88,03
215653	95 - 120	5	18 - 20	0,129	1	88,03
215654	150	5	22	0,145	1	73,20
215655	185	5	25	0,147	1	73,20

Hydraulic hand pliers „HH-6“

- Pressing force in kN: 60
- Working pressure in bar: 700
- Opening/ Hub: 17 mm
- Head can be opened
- Pressing width: slim
- Crimping range cable lugs: standard Cu 10-240
- DIN Cu 10-240
- DIN Al 16-185
- Crimping range connectors: standard Cu 10-240
- DIN Cu 10-240
- DIN Al 16-185
- Dual-piston pump



240-H6

Art. No.	mm ²	kg	PU	EUR
215800	10-240 400	4,500	1	1.833,93

Crimping dies



240-H6

Art. No.	mm ²	kg	PU	EUR
215852	10 - 16	0,157	1	87,67
215854	25 - 35	0,155	1	87,67
215856	50 - 70	0,150	1	82,99
215858	95 - 120	0,145	1	87,67
215859	150	0,159	1	87,67
215860	185	0,156	1	87,67
215861	240	0,156	1	87,67

Crimping dies DIN Cu + Al



240-H6

Art. No.	mm ²	l/no.	kg	PU	EUR
215862	10 - 16	6 - 8	0,155	1	87,70
215864	25 - 35	10 - 12	0,151	1	87,67
215866	50 - 70	14 - 16	0,149	1	87,67
215868	95 - 120	18 - 20	0,129	1	87,67
215869	150	22	0,145	1	87,67
215870	185	25	0,147	1	87,67
215872	240	28	0,114	1	87,67

Battery powered crimping tool „SH-6“

- Pressing force in kN: 60 kN
- Working pressure in bar: 700
- Head can be opened yes
- Opening/ Hub: 17 mm
- Pressing width: slim
- Crimping range cable lugs: standard Cu 10-240
- DIN Cu 10-240
- DIN Al 16-185
- Crimping range connectors: standard Cu 10-240
- DIN Cu 10-240
- DIN Al 16-185
- Pressing time, battery-operated in seconds: ca. 5
- Battery charging time in minutes: 30
- Battery type: Li-Ion, 18 V, 2 Ah



185-H6

Art. No.	mm ²	kg	PU	EUR
215881-1	415 10-240	6,700	1	2.176,22
215881-1-NO	415 10-240	2,900	1	1.957,63
215881-1-N	415 10-240	2,600	1	1.765,58

Battery powered crimping tool „SH-6M“

Sensor

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred. Technical data and scope of delivery see 215881-1



185-H6

Art. No.	mm ²	kg	PU	EUR
215881/M-1	415 10-240	6,700	1	2.677,13
215881/M-1-NO	415 10-240	2,900	1	2.466,17
215881/M-1-N	415 10-240	2,600	1	2.284,88

Video 215765



Video 215770/M



Video 215881/M



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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Battery powered crimping tool „S0-6“

- Pressing force in kN: 60 kN
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 17 mm
- Pressing width: slim
- Pressing time, battery-operated in seconds: ca. 5
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 2 Ah
- Cable lugs: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300
- Connectors: Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300



Art. No.	mm ²	kg	PU	EUR
216801-1	383 6 - 300	7,100	1	2.176,22
216801-1-NO	383 6 - 300	7,100	1	1.951,07
216801-1-N	383 6 - 300	7,100	1	1.715,46

Battery powered crimping tool „S0-6M“

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred. Technical data and scope of delivery see 216801-1



Art. No.	mm ²	kg	PU	EUR
216801/M-1	383 6 - 300	7,900	1	2.320,45
216801/M-1-NO	383 6 - 300	7,900	1	2.583,82
216801/M-1-N	383 6 - 300	7,900	1	2.339,98

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 „A0-6“

Sensor

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred.

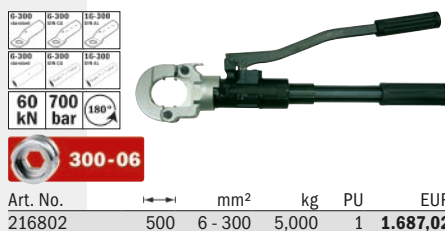
- Pressing force in kN: 60
- Working pressure in bar: 700
- Opening/ Hub: 17 mm
- Head can be opened
- Pressing width: slim
- Crimping range cable lugs: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300
- Crimping range connectors: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300
- Pressing time, battery-operated in seconds: 4
- Battery charging time in minutes: 120
- Battery type: Li-Ion 18 V, 4 Ah
- Dual-piston pump



Art. No.	mm ²	kg	PU	EUR
216800-1	375 6 - 300	9,500	1	2.813,66
216800-1-NO	375 6 - 300	9,500	1	2.313,42
216800-1-N	375 6 - 300	9,500	1	2.008,84

Hydraulic hand pliers „HO-6“

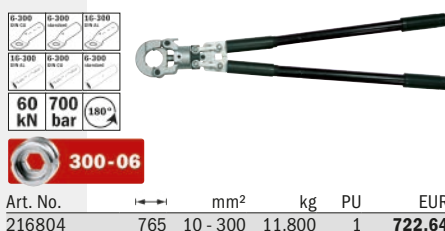
- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 17 mm
- Pressing width: slim
- Crimping range cable lugs: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300
- Crimping range connectors: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300
- Dual-piston pump



Art. No.	mm ²	kg	PU	EUR
216802	500 6 - 300	5,000	1	1.687,02

Hand pliers „MO-6“ for exchangeable dies

- Pressure: 60 kN
- Crimping range cable lugs: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300
- Crimping range connectors: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300



Art. No.	mm ²	kg	PU	EUR
216804	765 10 - 300	11,800	1	722,64

Crimping headstock „KO-6“

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Opening/ Hub: 17 mm
- Pressing width: slim
- Crimping range cable lugs: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300
- Crimping range connectors: standard Cu 6-300
- DIN Cu 6-300
- DIN Al 16-300
- Quick coupling

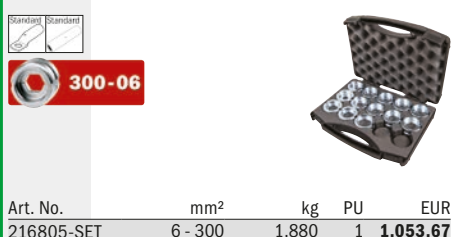


Art. No.	mm ²	kg	PU	EUR
216807	235 6 - 300	4,200	1	1.026,39

Dies

Crimping dies set Standard Cu

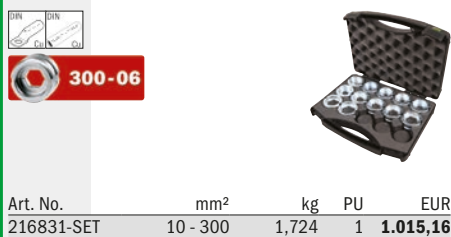
13 standard crimping dies in practical transport case
Set contains:
216806 CU 6, 216808 CU 10, 216810 CU 16, 216812 CU 25, 216814 CU 35, 216816 CU 50, 216818 CU 70, 216820 CU 95, 216822 CU 120, 216824 CU 150, 216826 CU 185, 216828 CU 240, 216830 CU 300



Art. No.	mm ²	kg	PU	EUR
216805-SET	6 - 300	1,880	1	1.053,67

Crimping dies set DIN Cu

12 DIN-Crimping dies in practical transport case
Set contains:
216834 DIN 10, 216836 DIN 16, 216838 DIN 25, 216840 DIN 35, 216842 DIN 50, 216844 DIN 70, 216846 DIN 95, 216848 DIN 120, 216850 DIN 150, 216852 DIN 185, 216854 DIN 240, 216856 DIN 300



Art. No.	mm ²	kg	PU	EUR
216831-SET	10 - 300	1,724	1	1.015,16

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



Art. No.	mm ²	kg	PU	EUR
216812/AL-SET	25 - 240	1,470	1	951,94

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



Art. No.	mm ²	kg	PU	EUR
216840/AL-SET	16 - 300	1,430	1	858,97

Dies for terminals and connectors DIN



Art. No.	Cu	I/no.	PW	kg	PU	EUR
216832	6	5	5	0,123	1	80,34
216834	10	6	5	0,122	1	80,34
216836	16	8	5	0,125	1	80,34
216838	25	10	5	0,120	1	80,34
216840	35	12	5	0,120	1	80,34
216842	50	14	5	0,119	1	80,34
216844	70	16	5	0,120	1	80,34
216846	95	18	5	0,120	1	80,34
216848	120	20	5	0,120	1	80,34
216850	150	22	5	0,120	1	80,34
216852	185	25	5	0,120	1	80,34
216854	240	28	5	0,115	1	80,34
216856	300	32	5	0,120	1	80,34

Dies for terminals and connectors standard



Art. No.	mm ²	PW	kg	PU	EUR
216806	6	5	0,139	1	73,20
216808	10	5	0,136	1	80,34
216810	16	5	0,136	1	80,34
216812	25	5	0,135	1	80,34
216814	35	5	0,135	1	80,34
216816	50	5	0,134	1	80,34
216818	70	5	0,132	1	80,34
216820	95	5	0,132	1	80,34
216822	120	5	0,130	1	80,34
216824	150	5	0,128	1	80,34
216826	185	5	0,125	1	80,34
216828	240	5	0,121	1	80,34
216830	300	5	0,118	1	80,34

Dies for terminals and compacted connectors

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



Art. No.	mm ²	PW	kg	PU	EUR
216806/V	6	5	0,139	1	88,63
216808/V	10	5	0,136	1	80,34
216810/V	16	5	0,136	1	80,34
216812/V	25	5	0,135	1	80,34
216814/V	35	5	0,135	1	80,34
216816/V	50	5	0,134	1	80,34
216818/V	70	5	0,132	1	80,34
216820/V	95	5	0,132	1	80,34
216822/V	120	5	0,130	1	80,34
216824/V	150	5	0,128	1	80,34
216826/V	185	5	0,125	1	80,34
216828/V	240	5	0,121	1	80,34
216830/V	300	5	0,118	1	80,34

Dies for tubular terminals „F-Type“



Art. No.	mm ²	PW	kg	PU	EUR
216878	10	8	0,146	1	195,24
216880	16	9	0,153	1	195,24
216882	25	11	0,162	1	195,24
216884	35	13	0,171	1	195,24
216886	50	13	0,167	1	195,24
216888	70	13	0,160	1	195,24
216890	95	13	0,164	1	195,24
216892	120	20	0,174	1	195,24
216894	150	20	0,162	1	195,24
216896	185	8	0,124	1	151,29
216898	240	8	0,119	1	151,29
216899	300	8	0,089	1	151,29

Dies for end sleeves

also for thinned conductors



Art. No.	mm ²	PW	kg	PU	EUR
216952	10	21	0,120	1	80,34
216954	16	21	0,120	1	80,34
216956	25	21	0,120	1	80,34
216958	35	21	0,120	1	80,34
216960	50	21	0,120	1	80,34
216962	70	21	0,120	1	80,34
216964	95	21	0,120	1	80,34
216966	120	21	0,120	1	80,34
216968	150	21	0,120	1	80,34
216970	185	21	0,120	1	80,34
216972	240	21	0,120	1	80,34

Dies for rounding of round conductors



Art. No.	mm²	sm	se	kg	PU	EUR
216926	10	10	-	0,120	1	175,35
216928	16	16	-	0,120	1	175,35
216930	25 - 35	25	35	0,120	1	175,35
216932	35 - 50	35	50	0,120	1	175,35
216934	50 - 70	50	70	0,120	1	175,35
216936	70 - 95	70	95	0,120	1	175,35
216938	95 - 120	95	120	0,120	1	175,35
216940	120 - 150	120	150	0,240	1	175,35
216942	150 - 185	150	185	0,197	1	175,35
216944	185 - 240	185	240	0,120	1	175,35
216946	240 - 300	240	300	0,120	1	175,35

Oval crimp for stripped pipe cable lugs



Art. No.	mm ²	PW	kg	PU	EUR
216670	10	5	0,132	1	84,28
216672	16	5	0,132	1	84,28
216674	25	5	0,132	1	84,28
216676	35	5	0,132	1	84,28
216678	50	5	0,132	1	84,28
216680	70	5	0,132	1	84,28
216682	95	5	0,132	1	84,28
216684	120	5	0,132	1	84,28
216686	150	5	0,132	1	84,28

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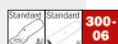
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Dies for standard aluminium pipe cable lugs



Art. No.	mm ²	PW	kg	PU	EUR
216812/AL	25	7	0,135	1	95,20
216814/AL	35	7	0,135	1	78,09
216816/AL	50	7	0,135	1	78,09
216818/AL	70	7	0,135	1	78,09
216820/AL	95	7	0,135	1	78,09
216822/AL	120	7	0,135	1	78,09
216824/AL	150	7	0,135	1	78,09
216826/AL	185	7	0,135	1	78,09
216828/AL	240	7	0,135	1	78,09

Dies for connectors with notch



Art. No.	mm ²	kg	PU	EUR
216813	25	0,143	1	82,82
216815	35	0,143	1	82,82
216817	50	0,143	1	82,82
216819	70	0,143	1	82,82
216821	95	0,143	1	82,82
216823	120	0,135	1	83,29

Dies for DIN aluminium pipe cable lugs



Art. No.	mm ²	I/no.	PW	kg	PU	EUR
216840/AL	16 - 25	12	7	0,120	1	78,09
216842/AL	35	14	7	0,120	1	78,09
216844/AL	50	16	7	0,120	1	78,09
216846/AL	70	18	7	0,120	1	78,09
216850/AL	95 - 120	22	7	0,120	1	78,09
216852/AL	150	25	7	0,120	1	78,09
216854/AL	185	28	7	0,120	1	78,09
216856/AL	240	32	5	0,120	1	78,09
216858/AL	300	34	5	0,135	1	78,09

Dies for indent crimping for compacted cables



Art. No.	mm ²	kg	PU	EUR
216863	16	0,135	1	93,70
216865	25	0,135	1	93,70
216867	35	0,135	1	93,70
216869	50	0,135	1	93,70
216871	70	0,135	1	93,70
216873	95	0,135	1	93,70
216875	120	0,135	1	93,70
216877	150	0,135	1	93,70

Dies for C-connectors



Art. No.	mm ²	PW	kg	PU	EUR
216984	16	5	0,135	1	76,15
216984/25	25	5	0,140	1	89,25
216985	35	5	0,135	1	76,15
216986	50	5	0,134	1	76,15
216986/70	70	5	0,140	1	89,25
216987	95	5	0,132	1	76,15
216988	120	5	0,132	1	76,15
216989	10	5	0,140	1	89,25

Hydraulic crimping tools

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



Art. No.	kg	PU	EUR
216625-1	420	6,544	1 4.939,70
216625-1-NO	420	5,800	1 4.634,20
216625-1-N	420	5,316	1 4.309,90

Crimping head U-KDE500-12

- Crimping 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 AI 95-500
- Weight in kg: 1,284



Art. No.	mm ²	kg	PU	EUR
216626	35 - 500	1,284	1	968,20

Crimping head U-K0400-12

- 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 AI 16-300
- Connectors: standard Cu 10-400 • DIN Cu 10-300 • DIN AI 16-300
- Use of all dies in the 400-C12 series possible
- Weight in kg: 1,332



Art. No.	mm ²	kg	PU	EUR
216627	10 - 400	1,323	1	1.076,30

Cutting head U-KS12-S85

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



Art. No.	Ø	kg	PU	EUR
216628	85	5,483	1	2.100,90

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 „AC25-12“ **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
- Opening / Hub: 25 mm
- Pressing width: wide
- Crimping range cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Crimping range connectors: standard Cu 10-185
- DIN Cu 10-150
- DIN Al 16-120
- Pressing time, battery-operated in sec.: 6 - 12
- Battery charging time in min.: 120
- Battery type: Li-Ion, 18 V, 4 Ah
- Dual-piston pump



Art. No.	mm	mm ²	kg	PU	EUR
216601-1	375	10 - 400	10,550	1	3.970,00
216601-1-NO	375	10 - 400	7,100	1	3.688,09
216601-1-N	375	10 - 400	7,100	1	3.276,29

Hydraulic hand pliers „HC25-12“

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening / Hub: 25 mm
- Pressing width: wide
- Crimping range cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Crimping range connectors: standard Cu 10-185
- DIN Cu 10-150
- DIN Al 16-120
- Dual-piston pump



Art. No.	mm	mm ²	kg	PU	EUR
216124	585	10 - 400	7,700	1	2.067,16

Hydraulic crimping headstock „KC25-12“

- Pressing force in kN: 120
- Working pressure in bar: 700
- Pressing width: wide
- Crimping range cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Crimping range connectors: standard Cu 10-185
- DIN Cu 10-150
- DIN Al 16-120
- Opening / Hub: 25 mm
- Quick coupling



Art. No.	mm	mm ²	kg	PU	EUR
216004	245	10 - 400	4,600	1	619,51

Battery powered crimping tool „AC42-12“ **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
- Opening / Hub: 42 mm
- Pressing width: wide
- Crimping range cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Crimping range 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



Art. No.	mm	mm ²	kg	PU	EUR
216622-1	430	10 - 400	11,830	1	4.100,37
216622-1-NO	430	10 - 400	7,800	1	3.964,20
216622-1-N	430	10 - 400	7,100	1	3.341,69

Hydraulic hand pliers „HC42-12“

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening / Hub: 42 mm
- Pressing width: wide
- Crimping range cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Crimping range connectors: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Dual-piston pump



Art. No.	mm	mm ²	kg	PU	EUR
216125	640	10 - 400	9,700	1	1.798,12

Hydraulic crimping headstock „KC42-12“

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening / Hub: 42 mm
- Pressing width: wide
- Crimping range cable lugs: Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Crimping range connectors: Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Quick coupling



Art. No.	mm	mm ²	kg	PU	EUR
216005	320	10 - 400	6,300	1	785,24

Battery powered crimping tool „AH-12“ **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
- Opening / Hub: 20 mm
- Pressing width: wide
- Crimping range cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Crimping range 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: 60
- Battery type: Li-Ion, 18 V, 4 Ah
- Dual-piston pump



Art. No.	mm	mm ²	kg	PU	EUR
216503-1	405	10 - 400	11,000	1	5.639,59
216503-1-NO	405	10 - 400	6,900	1	5.318,65
216503-1-N	405	10 - 400	6,400	1	4.977,18

Hydraulic hand pliers „HH-12“

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening / Hub: 20 mm
- Pressing width: wide
- Crimping range cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Crimping range connectors: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Dual-piston pump



Art. No.	mm	mm ²	kg	PU	EUR
215946	615	10 - 400	7,500	1	2.072,42

Crimping headstock „KH-12“

- Pressing force in kN: 120
- Working pressure in bar: 700
- Opening / Hub: 20 mm
- Pressing width: wide
- Crimping range cable lugs: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Crimping range connectors: standard Cu 10-400
- DIN Cu 10-300
- DIN Al 16-300
- Quick coupling



Art. No.	mm	mm ²	kg	PU	EUR
215980	275	10 - 400	5,000	1	990,65

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Dies

Crimping dies DIN for Copper and Aluminium, hexagonal pressing



Art. No.	Cu	I/no.	PW	kg	PU	EUR
216036	10	6	10	0,248	1	73,20
216038	16	8	10	0,248	1	73,20
216040	25	10	13	0,244	1	72,64
216042	35	12	13	0,235	1	72,64
216044	50	14	13	0,231	1	73,20
216046	70	16	13	0,226	1	73,20
216048	95	18	14	0,229	1	73,20
216050	120	20	14	0,225	1	73,20
216052	150	22	10	0,197	1	73,20
216054	185	25	10	0,193	1	73,20
216056	240	28	10	0,185	1	73,20
216060	300	32	10	0,142	1	73,20

Crimping dies standard copper tube terminals and connectors, hexagonal pressing



Art. No.	mm ²	PW	kg	PU	EUR
216008	10	10	0,211	1	73,20
216010	16	10	0,212	1	73,20
216012	25	10	0,210	1	73,20
216014	35	13	0,207	1	73,20
216016	50	13	0,224	1	73,20
216018	70	14	0,221	1	73,20
216020	95	14	0,226	1	73,20
216022	120	14	0,200	1	73,20
216024	150	11	0,200	1	73,20
216026	185	11	0,191	1	73,20
216028	240	11	0,186	1	73,20
216030	300	11	0,200	1	73,20
216032	400	11	0,200	1	73,20

Dies for compacted connectors

for standard cable lugs and compacted connectors, also on compacted thinned connectors



Art. No.	mm ²	PW	kg	PU	EUR
216008/V	10	10	0,211	1	73,20
216010/V	16	10	0,212	1	73,20
216012/V	25	10	0,210	1	73,20
216014/V	35	13	0,207	1	73,20
216016/V	50	13	0,224	1	73,20
216018/V	70	14	0,221	1	73,20
216020/V	95	14	0,226	1	73,20
216022/V	120	14	0,200	1	73,20
216024/V	150	11	0,200	1	73,20
216026/V	185	11	0,191	1	73,20
216028/V	240	11	0,186	1	73,20
216030/V	300	11	0,200	1	73,20
216032/V	400	11	0,200	1	73,20

Crimping dies DIN for DIN Aluminium terminals and connectors, hexagonal pressing



Art. No.	mm ²	I/no.	PW	kg	PU	EUR
216042/AL	16 - 25	12	12	0,200	1	127,62
216044/AL	35	14	12	0,200	1	127,62
216046/AL	50	16	12	0,200	1	127,62
216048/AL	70	18	12	0,200	1	127,62
216052/AL	95 - 120	22	14	0,200	1	127,62
216054/AL	150	25	14	0,200	1	127,62
216056/AL	185	28	14	0,200	1	127,62
216060/AL	240	32	17	1,300	1	127,62
216062/AL	300	34	17	0,210	1	92,79

Crimping dies for standard Aluminium terminals and connectors, hexagonal pressing



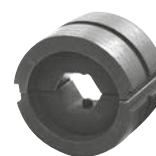
Art. No.	mm ²	PW	kg	PU	EUR
216012/AL	16 - 25	10	0,210	1	92,79
216014/AL	35	10	0,210	1	92,79
216016/AL	50	13	0,210	1	92,79
216018/AL	70	13	0,210	1	92,79
216020/AL	95	13	0,210	1	92,79
216022/AL	120	13	0,210	1	92,79
216024/AL	150	14	0,210	1	92,79
216026/AL	185	14	0,210	1	92,79
216028/AL	240	10	0,210	1	92,79

Crimping dies standard copper tube terminals and connectors, mandrel shape crimping



Art. No.	mm ²	kg	PU	EUR
216064	10	0,200	1	35,41
216066	16	0,120	1	35,41
216068	25	0,118	1	35,41
216070	35	0,116	1	35,41
216072	50	0,118	1	35,41
216074	70	0,131	1	35,41
216076	95	0,119	1	35,41
216078	120	0,111	1	35,41
216080	150	0,107	1	35,41
216082	185	0,095	1	35,41
216084	240	0,085	1	35,41
216086	300	0,060	1	35,41
216065	10 - 25	0,112	1	35,41
216067	35 - 50	0,121	1	35,41
216069	70 - 120	0,136	1	35,41
216071	150 - 300	0,125	1	35,41

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



Art. No.	mm ²	PW	kg	PU	EUR
216160	10	8	0,211	1	213,63
216162	16	8	0,216	1	213,63
216164	25	11	0,227	1	213,63
216166	35	13	0,234	1	213,63
216168	50	13	0,232	1	213,63
216170	70	13	0,111	1	202,66
216172	95	13	0,230	1	213,63
216174	120	20	0,247	1	213,63
216176	150	20	0,235	1	213,63
216178	185	8	0,190	1	151,29
216180	240	8	0,179	1	151,29
216182	300	8	0,126	1	151,29

Crimping dies for rounding of square connectors



Art. No.	mm ²	se	sm	kg	PU	EUR
216088	50	70	50	0,518	1	69,41
216090	70	95	70	0,505	1	69,41
216092	95	120	95	0,489	1	69,41
216094	120	150	120	0,474	1	69,41
216096	150	185	150	0,463	1	69,41
216098	185	240	185	0,441	1	69,41
216100	240	300	240	0,406	1	69,41

Crimping dies for end sleeves and compacted thinned conductors

wave form



Art. No.	mm ²	PW	kg	PU	EUR
216112	50	26	0,194	1	73,20
216114	70	26	0,200	1	73,20
216116	95	26	0,188	1	73,20
216118	120	26	0,200	1	73,20
216120	150	26	0,200	1	81,54
216122	185	26	0,111	1	73,20
216123	240	26	0,111	1	73,20

Crimping dies for insulated tube terminals

oval pressing



Art. No.	mm ²	PW	kg	PU	EUR
216126	10	5	0,200	1	258,44
216128	16	5	0,200	1	258,44
216130	25	5	0,220	1	258,44
216132	35	5	0,218	1	258,44
216134	50	5	0,200	1	258,44
216136	70	5	0,200	1	258,44
216138	95	5	0,200	1	258,41
216140	120	5	0,200	1	258,44
216142	150	5	0,200	1	258,44

Crimping dies for C-connectors

oval pressing

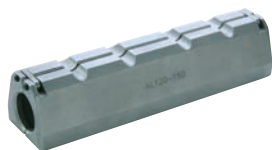
400-
C12



Art. No.	mm ²	PW	kg	PU	EUR
216148	16 - 25	16	0,218	1	258,41
216149	25	17	0,260	1	89,25
216150	35	20	0,208	1	258,41
216152	50 - 70	20	0,260	1	258,41
216154	95	30	0,217	1	258,41
216156	120	30	0,261	1	258,41
216153	70	20	0,260	1	89,25
216157	120	20	0,260	1	89,25

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

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



Art. No.	mm ²	kg	PU	EUR
216552	cable lugs 50 - 70	0,211	1	264,93
216554	cable lugs 95 - 185	0,211	1	264,93
216556	cable lugs 240	0,211	1	264,93
216562	connectors 50 - 70	0,211	1	347,19
216564	connectors 95 - 185	0,211	1	347,19
216566	connectors 240	0,211	1	347,19

Adapter pressing thorn



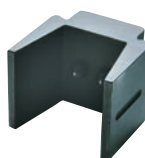
Art. No.	kg	PU	EUR
216570	0,211	1	51,29

Pressing thorn



Art. No.	mm ²	kg	PU	EUR
216574	50 - 70	0,211	1	51,29
216576	95 - 185	0,211	1	51,29
216578	240	0,211	1	51,29

Holder for „Deep Indend“ pressing inserts



Art. No.	mm ²	kg	PU	EUR
216580	50 - 185	0,211	1	218,99
216582	240	0,211	1	218,99

Hydraulic crimping tools

Battery powered crimping tool „SDE240-6“

- Pressing force in kN: 60
- Working pressure in bar: 700
- Cable lugs: standard Cu 10-240
- Connectors: standard Cu 10-240
- Cable lugs: DIN Al 50-240
- Connectors: 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.	mm ²	kg	PU	EUR
216669-1	455 10 - 240	7,900	1	1.812,36
216669-1-NO	455 16 - 240	3,600	1	1.567,53
216669-1-N	455 10 - 240	3,200	1	1.489,04

Battery powered crimping tool „SDE240-6M“

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred.

Technical data and scope of delivery, see 216669-1



Art. No.	mm ²	kg	PU	EUR
216669/M-1	455 10 - 240	7,900	1	2.163,22
216669/M-1-NO	455 10 - 240	3,600	1	2.003,47
216669/M-1-N	455 10 - 240	3,200	1	1.840,32

Battery powered crimping tool „SD300-6“

- Pressing force in kN: 60
- Working pressure in bar: 700
- 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.	mm ²	kg	PU	EUR
216663-1	443 16 - 300	7,900	1	2.532,10
216663-1-NO	443 16 - 300	4,500	1	2.309,22
216663-1-N	443 16 - 300	4,200	1	2.116,64

Battery powered crimping tool „SD300-6M“

Sensor

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred.

Technical data and scope of delivery, see 216663-1



Art. No.	mm ²	kg	PU	EUR
216663/M-1	443 16 - 300	7,900	1	3.041,67
216663/M-1-NO	443 16 - 300	4,500	1	2.820,95
216663/M-1-N	443 16 - 300	4,200	1	2.632,15

Hydraulic hand pliers „HD300-6“

- Pressing force in kN: 60
- Working pressure in bar: 700
- Crimping range cable lugs: standard Cu 16-300
- Crimping range connectors: standard Cu 16-120
- Dual-piston pump



Art. No.	mm ²	kg	PU	EUR
216660	570 16 - 300	6,500	1	2.495,37

Crimping headstock „KD300-6“

- Pressing force in kN: 60
- Working pressure in bar: 700
- Crimping range cable lugs: standard Cu 16-300
- Crimping range connectors: standard Cu 16-120
- Quick coupling



Art. No.	mm ²	kg	PU	EUR
216665	275 16 - 300	3,800	1	943,08



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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Battery powered crimping tool „SD400-6“

- 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.	mm ²	kg	PU	EUR
216667-1	455 25 - 400	7,900	1	2.649,70
216667-1-NO	455 25 - 400	4,400	1	2.427,01
216667-1-N	455 25 - 400	4,000	1	2.232,82

Battery powered crimping tool „SD400-6M“

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred.

Technical data and scope of delivery, see 216667-1



Art. No.	mm ²	kg	PU	EUR
216667/M-1	455 25 - 400	8,500	1	3.159,26
216667/M-1-NO	455 25 - 400	4,400	1	2.941,61
216667/M-1-N	455 25 - 400	4,000	1	2.751,17

Hydraulic hand pliers „HD400-6“

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Crimping range cable lugs: standard Cu 25-400
- Crimping range connectors: standard Cu 25-400
- Dual-piston pump



Art. No.	mm ²	kg	PU	EUR
216661	585 25 - 400	7,900	1	2.195,40

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 headstock „HKD400“

- Pressing force in kN: 60
- Working pressure in bar: 700
- Head can be opened
- Crimping range cable lugs: standard Cu 25-400
- Crimping range connectors: standard Cu 25-400
- Quick coupling



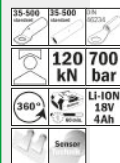
Art. No.	mm ²	kg	PU	EUR
216666	300 25 - 400	4,000	1	990,65

Battery powered crimping tool „ADE500-M12“

Sensor

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred.

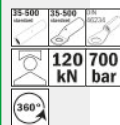
- Pressing force in kN: 120
- Working pressure in bar: 700
- Kopf aufklappbar
- Cable lugs: standard Cu 35-500
- Connectors: standard Cu 35-500
- Pressing time, battery-operated in sec.: 6-12
- Battery charging time in min: 60
- Battery type: Li-Ion, 18 V, 4 Ah



Art. No.	mm ²	kg	PU	EUR
216668/M-1	405 35 - 500	11,420	1	5.615,75
216668/M-1-NO	405 35 - 500	7,300	1	5.333,85
216668/M-1-N	405 35 - 500	7,180	1	4.922,05

Headstock „KDE500-12“

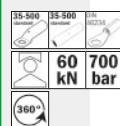
- Pressing force in kN: 120
- Working pressure in bar: 700
- Hinged Head
- Cable Lugs: standard Cu 35-500
- Connectors: standard Cu 35-500
- Weight in kg: 3,5



Art. No.	mm ²	kg	PU	EUR
216690	330 35 - 500	3,500	1	1.617,54

Hydraulic hand pliers „HDE500-12“

- Pressing force in kN: 120
- Working pressure in bar: 700
- Hinged head
- Cable Lugs: standard Cu 35-500
- Connectors: standard Cu 35-500
- Weight in kg: 7,7



Art. No.	mm ²	kg	PU	EUR
216691	600 35 - 500	7,700	1	3.262,99

Test pin

Test pin for hydraulic four mandrel pressing tools



Art. No.	kg	PU	EUR
216660/B	0,566	1	8,35

Template for four mandrel pressing

Template for hydraulic four mandrel pressing tools



Art. No.	kg	PU	EUR
216660/L	0,566	1	2,79

Pressure testing tool

Pressure testing tool C-head

Dies and indicating manometer for monitoring the pressing force of article 216601, 216124, 216004, 216622, 216125, 216005



Art. No.	kg	PU	EUR
217100	1,900	1	1.542,86

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



Art. No.	kg	PU	EUR
217101	0,800	1	551,01

Pressure testing tool H-head

Dies and indicating manometer for monitoring the pressing force of article 215946, 215980, 216503



Art. No.	kg	PU	EUR
217102	5,000	1	1.665,30

Pressure testing tool 0-head

Dies and indicating manometer for monitoring the pressing force of article 216801, 216801/M, 216800, 216802, 216804, 216807

300-06



Art. No.	kg	PU	EUR
217103	2,000	1	1.542,86

Pressure testing tool 240-H6

Dies and indicating manometer for monitoring the pressing force of article 215881, 215881/M, 215800

240-H6



Art. No.	kg	PU	EUR
217104	3,400	1	1.542,86

Pressure testing tool 185-H6

Dies and indicating manometer for monitoring the pressing force of article 215765, 215770, 215770/M

185-H6



Art. No.	kg	PU	EUR
217105	3,300	1	1.542,86

Pressure testing tool recorder

for all accumulator hydraulics with sensor technology



Art. No.	kg	PU	EUR
217107	0,700	1	795,93

Accessories

Battery Li-Ion 18 V 2 Ah

Compatible with all Li-Ion 18 V battery devices, charging possible using the HAUPA compact charger item 215527 or original Makita charging technology



Art. No.	kg	PU	EUR
215523	0,350	1	133,16

Battery Li-Ion 18 V 4 Ah

Compatible with all Li-Ion 18 V battery devices, charging possible using the HAUPA compact charger item 215527 or original Makita charging technology



Art. No.	kg	PU	EUR
215525	0,580	1	171,21

Li-Ion 18 V compact charger

for Art. 215523 & 215525



Art. No.	kg	PU	EUR
215527	0,164	1	114,12

Battery Li-Ion 18 V 2 Ah

compatible with all Li-Ion, 18 Volt Battery powered tools build before 2018



Art. No.	kg	PU	EUR
215503	0,383	1	371,66

Battery Li-Ion 18 V 4 Ah

compatible with all Li-Ion, 18 Volt Battery powered tools build before 2018



Art. No.	kg	PU	EUR
215511	0,651	1	422,26

Quick charger Li-Ion 18 V

for art. 215503 & 215511



Art. No.	kg	PU	EUR
215513	0,819	1	309,21

Hydraulic oil

0,5 l



Art. No.	kg	PU	EUR
216254	1,000	1	20,06

18V Battery Adapter



Art. No.		kg	PU	EUR
215529	BOSCH	0,350	1	126,93
215531	MILWAUKEE	0,350	1	126,93
215533	DEWALT	0,350	1	145,02

Around the cable

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Hydraulic crimping headstocks

Hydraulic crimping headstock „KH-25“

- Pressing force in kN: 250
- Working pressure in bar: 700
- Pressing width: wide
- Pressing area Cu/Al: 95-630
- Quick coupling



Art. No.	mm ²	kg	PU	EUR
216236	185 95 - 630	9,000	1	2.227,96

Crimping dies, standard, Cu



Art. No.	mm ²	kg	PU	EUR
212580	95	1,300	1	405,26
212581	120	1,300	1	405,26
212582	150	1,300	1	405,26
212583	185	1,300	1	405,26
212584	240	1,300	1	405,26
212585	300	1,300	1	405,26
212586	400	1,300	1	405,26
212587	500	1,300	1	405,26
212588	625	1,300	1	405,26

Crimping dies DIN-connection, Cu/Al



Art. No.	Cu	Al	I/no.	kg	PU	EUR
212372	95	70	18	1,194	1	391,38
212376	120	-	20	2,000	1	391,38
212380	150	95 - 120	22	1,700	1	426,59
212382	185	150	25	1,300	1	391,38
212384	240	185	28	1,300	1	391,38
212388	300	240	32	1,300	1	391,38
212390	300	300	34	1,300	1	426,37
212392	400	400	38	1,300	1	407,06
212394	500	-	42	1,300	1	426,59
212396	625	500	44	1,113	1	429,86

Hydraulic crimping headstock set

Content:
Hydraulic crimping headstock „KH-25“
Hydraulic high-pressure hose, 2 m
Hydraulic foot pump
Carrycase



Art. No.	mm ²	kg	PU	EUR
216250	95 - 630	21,000	1	5.050,82

Hydraulic crimping headstock + cylinder „KH-45“

- Pressing force in kN: 450
- Working pressure in bar: 700
- Pressing width: wide
- Pressing area Cu/Al: 120-1000
- Quick coupling



Art. No.	mm ²	kg	PU	EUR
216355	185 120 - 1000	9,320	1	4.704,07

Crimping dies, standard



Art. No.	mm ²	kg	PU	EUR
216304	120	2,635	1	620,87
216306	150	2,600	1	620,87
216308	185	2,620	1	620,87
216310	240	2,580	1	620,87
216312	300	2,580	1	620,87
216314	400	2,235	1	620,87
216316	500	1,200	1	620,87
216318	625	2,300	1	620,87

Crimping dies, DIN



Art. No.	Cu	Al	I/no.	kg	PU	EUR
216320	120	-	20	1,115	1	620,87
216322	150	95 - 120	22	1,063	1	620,87
216324	185	150	25	1,058	1	620,87
216326	240	185	28	1,096	1	620,87
216328	300	240	32	0,900	1	620,87
216330	300	300	34	1,070	1	620,87
216332	400	-	38	2,320	1	620,87
216334	500	-	42	2,280	1	620,87
216336	625	-	44	2,260	1	620,87
216338	800	-	52	1,051	1	620,87
216340	1000	-	58	2,060	1	620,87

Hydraulic foot pump „F-700“

without hose, quick coupling



Art. No.	Bar	kg	PU	EUR
216348	700	7,860	1	2.233,34

Electro-hydraulic pump „PN700 I“

electric foot switch, completely self-acting, also the release of the dies at the end of the operation, 2 m high pressure tube and hydraulic connectors, for industrial uses, where a high level of production is needed, 230 volt, with foot switch control, pump for working outside



Art. No.	Bar	kg	PU	EUR
216352	230 V 700	20,000	1	9.511,94

Battery-hydraulic pump „PA-700“

Sensor

2 stage hydraulics, manual control switch, manual return flow after perfect pressure, LED for battery control, 1 quick charger, 1 battery Li-Ion, 4 Ah, carrying belt, max. operating pressure: 700 bar with 1,8 m hose, with quick coupling.

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred:

Light is green: Pressing completed as standard, motor stopped.

Light is orange: Battery voltage not sufficient

Light is red: Pressing interrupted before completed

Cutting/Pressing/Punching



Art. No.	Bar	kg	PU	EUR
216357	700	10,420	1	5.256,80

Hydraulic high pressure hose

steel reinforced with quick coupling to foot pump Art. No. 216348 and electro-hydraulic pump Art. No. 216352



Art. No.	kg	PU	EUR
216364	5 1,260		832,34

Hydraulic punching tools

Hydraulic hand-punching tool „HS-8“

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

80
kN



Art. No.	kg	PU	EUR
217604	3,800	1	1.320,90

Hydraulic hand-punch-cutter „HS-6“

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.

- Pressing force: 60 kN
- Punching capacity: Steel plates up to max. 3 mm

60
kN



Art. No.	kg	PU	EUR
217602	3,800	1	1.133,46

Punching dies, metric

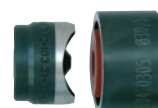
- ST37, 3 mm
- compatible with art. 216764



Art. No.	PG	Hole Ø	kg	PU	EUR
217610	ISO 16	16,5	0,070	1	60,08
217612	ISO 20	20,5	0,090	1	77,91
217614	ISO 25	25,5	0,150	1	81,01
217616	ISO 32	32,5	0,220	1	96,65
217618	ISO 40	40,5	0,900	1	120,14
217620	ISO 50	50,5	0,640	1	180,22
217622	ISO 63	63,5	0,950	1	222,74

Punching dies, PG

- ST37, 3 mm
- compatible with art. 216764



Art. No.	PG	Hole Ø	kg	PU	EUR
217630	PG 9	15,2	0,060	1	60,08
217632	PG 11	18,6	0,084	1	76,05
217634	PG 13,5	20,4	0,091	1	77,91
217636	PG 16	22,5	0,120	1	80,09
217638	PG 21	28,3	0,170	1	87,59
217640	PG 29	37	0,330	1	114,20
217642	PG 36	47	0,536	1	171,11
217644	PG 42	54	0,731	1	200,19
217646	PG 48	60	0,896	1	219,62

Punching dies, square

- ST37, 2,5 mm
- UNF
- compatible with art. 216764



Art. No.	H	kg	PU	EUR
217650	46	1,862	1	1.678,63
217652	68	1,500	1	2.174,56
217654	92	2,000	1	3.020,13

Connecting rod

Art. 217660 - 3/8-24 UNF

Art. 217662 - 3/4-16 UNF

- compatible with art. 216764



Art. No.	kg	PU	EUR
217660	1	0,040	1 27,21
217662	2	0,220	1 63,18

Adapter

for connecting rod art. 217660

- UNF
- compatible with art. 216764



Art. No.	kg	PU	EUR
217664	0,100	1	17,82

Spacer bushing

- compatible with art. 216764

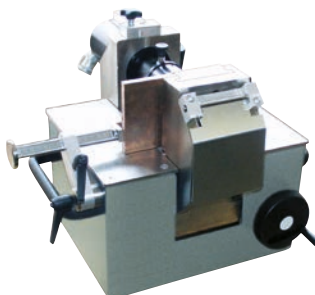


Art. No.	kg	PU	EUR
217666	0,110	1	22,19

Punch and bending centre

Basic unit

Basic unit to accommodate bending, hole-making, cutting and cranking tools. The processing of lamellar copper rails is possible! Hydraulic tool for connection to a hydraulic pump with 700 bar (10,000 PSI)



Art. No.	kg	PU	EUR
216770	51,000	1	17.291,66

Hole-making tools

For punching round and slotted holes.

216776:

Hole tool for solid copper and aluminium rails

216777:

Hole-making tool for solid copper and aluminium rails as well as for laminated copper rails and grounding bands



Art. No.	kg	PU	EUR
216776	4,300	1	2.806,26
216777	4,300	1	3.101,66

Hole inserts for round holes

For both hole-making tools, the following diameters can be supplied

Art. No.	Ø	kg	PU	EUR
216778	6,5	M6 > 216776	1,500	1 270,49
216778/L	6,5	M6 > 216777	1,500	1 546,48
216779	9	M8 > 216776	0,114	1 270,49
216779/L	9	M8 > 216777	0,420	1 546,48
216780	10,5	M8 > 216776	0,110	1 270,49
216780/L	10,5	M8 > 216777	0,419	1 546,48
216781	11	M10 > 216776	0,106	1 270,49
216781/L	11	M10 > 216777	0,418	1 546,48
216782	12,7	M10 > 216776	0,102	1 335,86
216782/L	12,7	M10 > 216777	0,416	1 546,48
216783	13	M12 > 216776	0,098	1 270,49
216783/L	13	M12 > 216777	0,414	1 546,48
216784	17	M16 > 216776	0,094	1 270,49
216784/L	17	M16 > 216777	0,412	1 546,48
216785	21	M20 > 216776	0,090	1 270,49
216785/L	21	M20 > 216777	0,411	1 546,48

Hole inserts for slotted holes

For both hole-making tools, the following diameters can be supplied

Art. No.	mm	kg	PU	EUR
216786	9 x 18	M8 > 216776	0,098	1 334,90
216786/L	9 x 18	M8 > 216777	0,423	1 768,02
216787	11 x 20	M10 > 216776	0,095	1 334,90
216787/L	11 x 20	M10 > 216777	0,421	1 768,02
216788	13 x 20	M12 > 216776	0,092	1 334,90
216788/L	13 x 20	M12 > 216777	0,419	1 768,02
216789	17 x 20	M16 > 216776	0,089	1 334,90
216789/L	17 x 20	M16 > 216777	0,417	1 768,02

Bending tool

For bending of solid copper or aluminium rails up to 12 x 120 mm. The bending matrix suits all bending radii.



Art. No.	kg	PU	EUR
216772	4,100	1	1.476,99
216775	3,200	1	1.033,91

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Cutting tool

for separating solid copper and aluminium rails up to 12 x 120 mm



Art. No.	Ø	kg	PU	EUR
216790	12 x 120	5,686	1	3.840,16

Cutting tool for lamellar rails

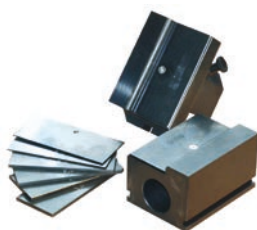
for separating lamellar rails made from copper, maximum dimensions: 12 x 120 mm



Art. No.	kg	PU	EUR
216791	9,000	1	4.430,93

Cranking tool for stepped bending of power rails

for creating a material offset in rail thicknesses on a length of just 30 mm. Possible offset 5, 6, 8, 10 and 12 mm



Art. No.	kg	PU	EUR
216792	10,000	1	3.249,37

Tool cases

Stable metal sheet case for accommodation of hole-making tool with inserts (1) or two tools (2)

Art. No.	kg	PU	EUR
216793	2,000	1	457,87
216794	2,000	1	457,87

Electro-hydraulic pump „Special“

for punching and bending centre, with angle sensor



Art. No.	Bar	kg	PU	EUR
216359	230 V 700	22,000	1	7.864,64

Fish tapes

Steel fish tapes

with eyelet and brass rolling ball, without additional pilot spring



Art. No.	Ø	l	kg	PU	EUR
150152	3.5	10 m	0,131	1	10,59
150154	3.5	15 m	0,208	1	11,17
150156	3.5	20 m	0,268	1	11,97
150158	3.5	25 m	0,323	1	14,64

Spiral fish tapes

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



Art. No.	Ø	l	kg	PU	EUR
150200	4	5 m	0,312	1	9,03
150202	4	10 m	0,691	1	14,91
150204	4	15 m	0,988	1	20,50
150206	4	20 m	1,343	1	25,89
150208	4	25 m	1,820	1	30,55
150210	4	30 m	1,859	1	36,87

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	l	kg	PU	EUR
150220 *	3	5 m	0,060	1	3,97
150222 *	3	10 m	0,103	1	5,47
150224 *	3	15 m	0,141	1	7,17
150226 *	3	20 m	0,188	1	8,18
150228 *	3	25 m	0,246	1	9,41
150230 *	3	30 m	0,244	1	10,48
150241 *	4	10 m	0,160	1	6,92
150243 *	4	15 m	0,234	1	8,88
150245 *	4	20 m	0,303	1	10,81
150247 *	4	25 m	0,386	1	15,20

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	l	kg	PU	EUR
150232	4	10 m	0,152	1	6,69
150234	4	15 m	0,236	1	7,96
150236	4	20 m	0,303	1	10,48
150238	4	25 m	0,402	1	12,77
150239	4	30 m	0,445	1	15,71

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	l	kg	PU	EUR
150450	3	5 m	0,048	1	3,80
150452	3	10 m	0,099	1	5,37
150454	3	15 m	0,139	1	7,01
150456	3	20 m	0,163	1	8,02
150458	3	25 m	0,218	1	9,28
150462	4	5 m	0,080	1	4,90
150464	4	10 m	0,158	1	6,69
150466	4	15 m	0,240	1	8,50
150468	4	20 m	0,292	1	10,48
150470	4	25 m	0,389	1	12,77

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	l	kg	PU	EUR
150476	4	10 m	0,180	1	7,30
150478	4	15 m	0,260	1	9,47
150480	4	20 m	0,332	1	11,09
150482	4	25 m	0,412	1	13,28

Fibreglass section fish rods kits

Fibre glass push rod set

in plastic 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	EUR
150560	12 pcs.	0.500	1	135.62

Fibre glass push rod set

in nylon bag.

Scope of delivery:

Push rod length: 10 m

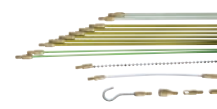
2 rods 6 mm Ø white

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	EUR
150562 *	16 pcs.	0.700	1	186.50

HAUPA PullTec

Cable pulling device HAUPA PullTec

with special plastic coating, M5 thread and probe, in durable plastic housing, colour: black. „Single Composite“, 4 mm green



Art. No.	Ø	l	kg	PU	EUR
143502 *	4	30 m	M5 1,300	1	258,18
143500	4	20 m	M5 1,040	1	220,19

Replacement Rod HAUPA PullTec

„Single Composite“ 4 mm, green



Art. No.	Ø	l	kg	PU	EUR
143503	4	30 m	M5 1,300	1	198,91
143501	4	20 m	M5 1,000	1	134,38

Cable pulling device HAUPA PullTec



Art. No.	Ø	kg	PU	EUR
143508	6	M5 0,010	1	9,42

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



Art. No.	Ø	l	kg	PU	EUR
143506 *	5.2	M5 30 m	1,780	1	287,82

Cable pulling device HAUPA PullTec



Art. No.	Ø	kg	PU	EUR
143509	6	M5 0,020	1	9,42

Replacement rod HAUPA-PullTec

„Single Composite“ 5,2 mm, black



Art. No.	Ø	kg	PU	EUR
143505	5.2	M5 1,540	1	187,68
143507	5.2	M5 1,780	1	240,93

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 inclusive: 143008 (2x), 143016 (2x), 143018 (2x), 143012, 143014, 143020, 143026 143002/ECO inclusive: 43008 (1x)



Art. No.	Ø	l	kg	PU	EUR
143000	3	M5 20 m	1,199	1	190,60
143002	3	M5 30 m	1,500	1	213,19
143002/ECO	3	M5 30 m	1,198	1	191,74

Pulling unit with loop M5



Art. No.	Ø	kg	PU	EUR
143008	6	M5 0,020	1	3,85

Guiding head with loop M5



Art. No.	Ø	kg	PU	EUR
143010	6	M5 0,200	1	8,10

Guiding head M5



Art. No.	Ø	kg	PU	EUR
143012	7	M5 0,010	1	8,13

Guiding head M5



Art. No.	Ø	kg	PU	EUR
143014	10	M5 0,011	1	8,35

Guiding head M5



Art. No.	Ø	kg	PU	EUR
143030	13	M5 0,017	1	8,54

Front/end sleeve M5



Art. No.	kg	PU	EUR
143016	M5 0,005	1	3,85

Connection sleeve for probes Ø 3 mm



Art. No.	Ø	kg	PU	EUR
143018	3	M5 0,003	1	3,80

Cable grips



Art. No.	Ø	l	kg	PU	EUR
143020	4 - 6	200	M5 0,007	1	21,96

Special pulling aid

for fast pulling of glass fibre rods Ø 3 mm



Art. No.	Ø	kg	PU	EUR
143024	3-6	0,047	1	7,20

Special fast glue for glass fibre rod Ø 3 mm



Art. No.	kg	PU	EUR
143026	0,012	1	12,03

Replacement glass fibre rod

including front/end sleeve M5



Art. No.	Ø	l	kg	PU	EUR
143004	3	20 m	0,022	1	73,21
143006	3	30 m	0,034	1	96,86

Service set for HAUPA-FIBRE

5 front sleeves, 5 guiding heads, 3 connection sleeves, 1 special fast glue



Art. No.	kg	PU	EUR
143028	M5 0,041	1	58,86

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Cable pulling device FOX



Art. No.	Ø	→→→	kg	PU	EUR
143050	4.5	M5 40 m	3,900	1	388,92
143052 *	4.5	M5 60 m	4,400	1	472,33
143054	4.5	M5 80 m	4,800	1	512,59

Replacement glass fibre rod FOX

complete with front/end sleeve M5



Art. No.	Ø	→→→	kg	PU	EUR
143056	4.5	M5 40 m	0,900	1	186,90
143058	4.5	M5 60 m	1,400	1	269,86
143060	4.5	M5 80 m	1,800	1	352,83

Guiding head with loop M5



Art. No.	kg	PU	EUR
143062	M5 0,011	1	11,37

Front bulb with shackle M5



Art. No.	kg	PU	EUR
143064	M5 0,100	1	15,23

Guiding role made from aluminium M5



Art. No.	kg	PU	EUR
143066	M5 0,100	1	21,43

Guiding head M5



Art. No.	Ø	kg	PU	EUR
143012	7	M5 0,010	1	8,13
143014	10	M5 0,011	1	8,35
143030	13	M5 0,017	1	8,54

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

Set!



Art. No.	kg	PU	EUR
143068	M5 0,038	1	29,01

Front/end sleeve M5



Art. No.	kg	PU	EUR
143070	M5 0,100	1	6,11

Connection sleeve for probes Ø 4.5 mm



Art. No.	Ø	kg	PU	EUR
143072	4.5	0,010	1	6,11

Cable pulling device SIX

lying version



Art. No.	Ø	→→→	kg	PU	EUR
143100	6	40 m	M6 5,200	1	485,61
143102	6	60 m	M6 5,900	1	598,15
143104	6	80 m	M6 6,800	1	735,31
143105	6	100 m	M6 7,700	1	858,58

Cable pulling device SIX

standing version



Art. No.	Ø	→→→	kg	PU	EUR
143106	6	M6 40 m	7,200	1	504,15
143108	6	M6 60 m	8,300	1	629,19
143110	6	M6 80 m	9,400	1	753,77
143111	6	M5 100 m	10,300	1	878,43

Cable pulling device SIX

standing version with wheels



Art. No.	Ø	→→→	kg	PU	EUR
143112	6	40 m	M6 7,400	1	540,19
143114	6	60 m	M6 8,500	1	664,83
143116	6	80 m	M6 9,600	1	789,88
143117	6	100 m	M6 10,500	1	914,48

Replacement glass fibre rod SIX

complete with front/end sleeve M5



Art. No.	Ø	→→→	kg	PU	EUR
143118	6	40 m	M6 1,700	1	249,25
143120	6	60 m	M6 2,500	1	373,86
143122	6	80 m	M6 3,250	1	498,07
143124	6	100 m	M6 4,150	1	622,74

Guiding head with loop M6



Art. No.	Ø	kg	PU	EUR
143126	6	M6 0,018	1	10,58

Front bulb with shackle M6



Art. No.	Ø	kg	PU	EUR
143128	6	M6 0,022	1	22,03

Guiding role made from aluminium M6



Art. No.	Ø	kg	PU	EUR
143130	6	M6 0,026	1	26,86

Guiding head M6



Art. No.	Ø	kg	PU	EUR
143132	6	M6 0,017	1	8,82

Front/end sleeve M6



Art. No.	Ø	kg	PU	EUR
143134	6	M6 0,013	1	8,18

Connection shackle for probes Ø 6 mm



Art. No.	Ø	kg	PU	EUR
143136	6	0,012	1	10,55

Cable pulling device FIX

standing version



Art. No.	Ø		kg	PU	EUR
143150	7.5 M12	40 m	8,100	1	649,79
143152	7.5 M12	60 m	9,400	1	801,50
143154	7.5 M12	80 m	10,700	1	953,17
143156	7.5 M12	100 m	11,900	1	1.104,47

Cable pulling device FIX

standing version with wheels



Art. No.	Ø		kg	PU	EUR
143160	7.5 M12	40 m	9,100	1	685,89
143162	7.5 M12	60 m	10,400	1	837,59
143164	7.5 M12	80 m	11,700	1	989,31
143166	7.5 M12	100 m	12,900	1	1.141,00
143168 *	7.5 M12	120 m	14,100	1	1.293,55

Replacement glass fibre rod FIX

including front/end sleeve M12



Art. No.	Ø		kg	PU	EUR
143170	7.5 M12	40 m	1,500	1	323,99
143172	7.5 M12	60 m	2,000	1	448,23
143174	7.5 M12	80 m	3,000	1	572,46
143176	7.5 M12	100 m	3,700	1	696,62
143178	7.5 M12	120 m	4,500	1	781,94

Front bulb with shackle M12



Art. No.		kg	PU	EUR
143180	M12	0,010	1	40,50

Guiding role made from aluminium M12



Art. No.		kg	PU	EUR
143182	M12	0,200	1	58,79

Guiding role made from aluminium, length 80 mm M12



Art. No.	Ø		kg	PU	EUR
143184	40	M12	0,220	1	42,85

Front/end sleeve M12



Art. No.		kg	PU	EUR
143186	M12	0,004	1	16,05

Connection sleeve for probes Ø 9 + 11 mm



Art. No.	Ø	kg	PU	EUR
143187	7.5	0,003	1	16,09

Connection sleeve with rotator

with M12 connections on both sides



Art. No.	Ø		kg	PU	EUR
143190	30	M12 83	0,006	1	76,88

Pipe cleaning brush



Art. No.	Ø	kg	PU	EUR
143200	80	0,200	1	182,98
143202	97	0,098	1	187,93
143204	117	0,400	1	192,79

Cable pulling device STRONG

standing version



Art. No.	Ø		kg	PU	EUR
143210	9	M12 40 m	9,100	1	945,87
143212	9	M12 60 m	12,900	1	1.112,57
143214	9	M12 80 m	14,820	1	1.279,79

Cable pulling device STRONG

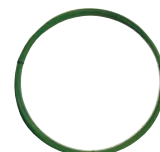
standing version with wheels



Art. No.	Ø		kg	PU	EUR
143216	9	M12 100 m	29,400	1	1.565,17
143218	9	M12 120 m	31,300	1	1.687,61
143220	9	M12 150 m	33,900	1	1.982,45

Replacement glass fibre rod STRONG

including front/end sleeve M12



Art. No.	Ø		kg	PU	EUR
143222	9	M12 40 m	3,800	1	387,18
143224	9	M12 60 m	5,500	1	538,52
143226	9	M12 80 m	7,500	1	690,18
143228	9	M12 100 m	9,400	1	837,16
143230	9	M12 120 m	11,300	1	993,59
143232	9	M12 150 m	13,900	1	1.124,23

Cable pulling device POWER



Art. No.	Ø		kg	PU	EUR
143250	11	M12 150 m	43,000	1	1.912,40
143252	11	M12 200 m	50,000	1	2.328,39
143254	11	M12 250 m	56,500	1	2.744,41
143256	11	M12 300 m	64,500	1	3.160,38

Replacement glass fibre rod POWER

including front/end sleeve M12



Art. No.	Ø		kg	PU	EUR
143258	11	M12	150 m 21,900	1	1.329,24
143260	11	M12	200 m 29,200	1	1.744,37
143262	11	M12	250 m 36,400	1	2.159,54
143264	11	M12	300 m 43,900	1	2.572,08

Cable pulling device KING



Art. No.	Ø	→←	kg	PU	EUR
143270	14.5	M12 150 m	85,000	1	3.797,30
143272	14.5	M12 200 m	99,000	1	4.974,84
143274	14.5	M12 250 m	113,000	1	5.947,37
143276	14.5	M12 300 m	127,000	1	6.919,94
143278	14.5	M12 350 m	141,000	1	7.892,46
143280	14.5	M12 400 m	156,000	1	8.864,55

Cable pulling device, accessories

Front bulb with shackle M12



Art. No.	kg	PU	EUR
143180	M12 0,010	1	40,50

Guiding role made from aluminium M12



Art. No.	kg	PU	EUR
143182	M12 0,200	1	58,79

Guiding role made from aluminium, length 80 mm M12



Art. No.	Ø	kg	PU	EUR
143184	40	M12 0,220	1	42,85

Front/end sleeve M12



Art. No.	kg	PU	EUR
143185	M12 0,004	1	16,05

Connection sleeve for probes



Art. No.	Ø	kg	PU	EUR
143188	9	0,150	1	16,09
143266	11	0,075	1	16,09

Connection sleeve with rotator

with M12 connections on both sides



Art. No.	Ø	→←	kg	PU	EUR
143190	30	M12 83	0,006	1	76,88

Pipe cleaning brush



Art. No.	Øbr.	kg	PU	EUR
143200	80	0,200	1	182,98
143202	97	0,098	1	187,93
143204	117	0,400	1	192,79

Cable pulling device, accessories

Cable grips for electrical installations



Art. No.	Ø	→←	kg	PU	EUR
143300	4 - 6	M5 200	0,009	1	21,99
143302	6 - 9	M5 210	0,013	1	24,71
143304	9 - 12	M5 350	0,024	1	32,94
143306	12 - 15	M5 350	0,029	1	36,15
143308	15 - 19	M5 500	0,200	1	40,18
143310	19 - 25	M5 500	0,052	1	41,30
143312	25 - 31	M5 450	0,400	1	43,96

Cable grips for subterranean cable laying



Art. No.	Ø	→←	kg	PU	EUR
143314	10 - 20	1 1250	0,378	1	84,45
143318	20 - 30	1 1250	0,380	1	92,93
143322	30 - 40	1 1250	0,424	1	102,48
143326	40 - 50	1 1250	0,430	1	110,06
143330	50 - 65	1 1250	0,388	1	119,90
143334	65 - 80	1 1250	1,120	1	135,78

Cable grips for subterranean cable laying



Art. No.	Ø	→←	kg	PU	EUR
143316	10 - 20	1250	2 0,465	1	97,94
143320	20 - 30	1250	2 0,460	1	106,54
143324	30 - 40	1250	2 0,510	1	116,27
143328	40 - 50	1250	2 0,200	1	123,64
143332	50 - 65	1250	2 0,520	1	127,03

Cord und cable grips



Art. No.	Ø	→←	kg	PU	EUR
143336	10 - 15	2000	0,250	1	126,95
143338	15 - 20	2000	0,250	1	135,76
143340	20 - 30	2000	0,250	1	144,81
143342	30 - 40	2000	0,250	1	153,45

Decoiler

Decoiler 600

Technical data
Maximum drum weight: 50 kg
Maximum drum diameter: 600 mm
Maximum drum width: 330 mm
Length: 350 mm
Width: 350 mm
Height: 105 mm



Art. No.	max. kg	Ø	B	kg	PU	EUR
143398	50	600	330	3,500	1	152,29

Decoiler 1200

Technical data
Capacity: 175 kg
Max reel diameter: 1200 mm
Max reel width: 560 mm
Length: 610 mm
Width: 570 mm
Height: 115 mm



Art. Nr.	max. kg	Ø	B	kg	VE	EUR
143400 *	175	1200	560	9,000	1	474,45

Decoiler 1200 +

Technical data
Capacity: 300 kg
Max reel diameter: 1200 mm
Max reel width: 660 mm
Length: 705 mm
Width: 570 mm
Height: 115 mm



Art. No.	max. kg	Ø	B	kg	PU	EUR
143402	300	1200	660	10,500	1	430,19

Cable unwinder

4 box cable unwinder.
Carton size 240 x 240 mm



Art. No.	max. kg	Ø	B	kg	PU	EUR
143406	50	130	600	5,500	1	217,48

Cable unwinder

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



Art. No.	max. kg	kg	PU	EUR
143404	50	8,000	1	442,30

CableGo

Cable pulling device „CableGo starter“

Content in plastic case:

- 1 x basic module „CableGo“ + 3 wire brackets
- 1 x table clamp „CableGo“
- 1 x mounting bracket „CableGo“



Art. No.	Cont.	kg	PU	EUR
143420	6-pieces		1	205,27

Cable pulling device „CableGo profi“

Content in plastic 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“



Art. No.	Cont.	kg	PU	EUR
143422	14-pieces	5,000	1	417,62

Cable pulling device „CableGo master“

Content in plastic 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.	Cont.	kg	PU	EUR
143424	17-pieces	7,000	1	622,89



SysCon CableGo

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.	Cont.	kg	PU	EUR
143430	6-pieces	7,000	1	305,06

SysCon cable pulling device „CableGo profi“

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.	Cont.	kg	PU	EUR
143432	14-pieces	8,000	1	517,43

SysCon cable pulling device „CableGo master“

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.	Cont.	kg	PU	EUR
143434	17-pieces	9,000	1	722,70

CableGo, accessories

Basic module „CableGo“ + 3 wire brackets

Basic module for easy cable penetrations in corners and roundings.



Art. No.	Cont.	kg	PU	EUR
143440	4 pcs.	0,495	1	92,02

Table clamp „CableGo“

Table clamp for fixing basic modules.



Art. No.	Cont.	kg	PU	EUR
143441	1 pcs.	0,085	1	16,51

Mounting bracket „CableGo“

Mounting bracket for fixing basic modules.



Art. No.	Cont.	kg	PU	EUR
143442	7 pcs.	0,350	1	76,68

Connection set basic module „CableGo“

Connection set for connecting several basic modules.



Art. No.	Cont.	kg	PU	EUR
143443	2 pcs.	0,010	1	13,92

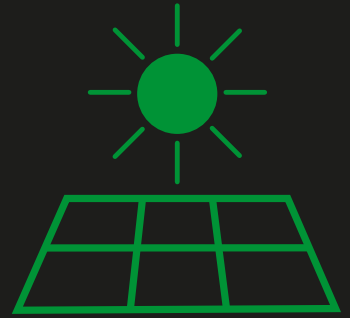
Set 3 wire brackets „CableGo“

Wire brackets for basic modules.



Art. No.	Cont.	kg	PU	EUR
143444	3 pcs.	0,045	1	18,64

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Connecting clamps

Connecting clamps PC

PC

Transparent connecting clamps, 2-8 pin, polycarbonate



Art. No.	CSS	Pol	Volt	A	PU	EUR
265013	1 - 2,5	2	450	24	100	15,86
265014	1 - 2,5	3	450	24	100	21,65
265015	1 - 2,5	4	450	24	100	24,35
265016	1 - 2,5	5	450	24	100	29,16
265017	1 - 2,5	8	450	24	100	44,60

Connecting clamps, Nylon

Nylon

Connecting clamps, 2-5 pin, Nylon



Art. No.	CSS	Pol	Volt	A	PU	EUR
265033	1 - 2,5	2	450	24	100	15,06
265034	1 - 2,5	3	450	24	100	20,55
265035	1 - 2,5	4	450	24	100	23,15
265036	1 - 2,5	5	450	24	100	27,70

End sleeves

End sleeves

Cu

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



Art. No.	CSS	PU	PrU	EUR
270141	0,34	5	1000	13,88
270140	0,5	6	1000	11,65
270140/500		6	500	10,41
270142	0,75	6	1000	11,27
270142/500		6	500	11,27
270143		10	1000	13,96
270143/500		10	500	13,96
270144		12	1000	16,87
270146	1	6	1000	11,98
270146/500		6	500	11,98
270148		10	1000	14,15
270148/500		10	500	14,15
270149		12	1000	17,01
270149/500		12	500	17,01
270150	1,5	7	1000	13,34
270150/500		7	500	13,34
270152		10	1000	14,61
270152/500		10	500	14,61
270154		12	1000	17,85
270154/500		12	500	17,85
270156		18	1000	27,40
270156/500		18	500	27,40
270158	2,5	7	1000	14,59
270158/500		7	500	14,59
270159		10	1000	16,96
270159/500		10	500	16,96
270160		12	1000	18,20
270160/500		12	500	18,20
270164	4	9	1000	26,25
270164/500		9	500	26,25
270166		12	1000	27,99
270166/500		12	500	27,99
270168		18	1000	36,82
270168/500		18	500	36,82
270170	6	10	250	29,11
270172		12	250	31,85
270174		15	250	36,52
270176		18	250	42,27
270178	10	12	250	41,01
270180		15	250	53,37
270182		18	250	55,99
270184	16	12	250	50,33
270186		15	250	57,25
270188		18	250	64,75
270190	25	12	250	64,41
270192		18	250	82,28
270194	35	18	100	97,09
270195		20	100	106,49
270196		22	100	106,56
270198		26	100	119,49

End sleeves

Cu

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



Art. No.	CSS	PU	PrU	EUR
270066	0,25	5	1000	14,51
270066/500		5	500	15,20
270068	0,34	5	1000	30,25
270068/500		5	500	12,85
270070	0,5	6	1000	11,10
270070/500		6	500	11,10
270072	0,75	6	1000	11,63
270072/500		6	500	11,63
270074		12	1000	19,86
270074/500		12	500	19,86
270076	1	6	1000	11,98
270077		8	1000	12,81
270078		10	1000	14,98
270078/500		10	500	14,98
270079		12	1000	17,85
270079/500		12	500	17,85
270080	1,5	7	1000	13,34
270082		10	1000	15,37
270082/500		10	500	15,37
270084		12	1000	18,73
270084/500		12	500	18,73
270086		18	1000	27,40
270086/500		18	500	27,40
270087		20	1000	30,56
270088	2,5	7	1000	15,05
270089		10	1000	17,80
270089/500		10	500	17,80
270090		12	1000	22,63
270090/500		12	500	22,63
270091		15	1000	26,56
270091/500		15	500	26,56
270092		18	1000	32,25
270092/500		18	500	32,25
270093		20	1000	35,37
270093/500		20	500	35,37
270094	4	9	1000	26,25
270096		12	1000	27,99
270097		15	1000	34,49
270098		18	1000	36,82
270100	6	10	250	29,11
270102		12	250	31,85
270104		15	250	36,52
270106		18	250	42,27
270107		20	250	43,66
270108	10	12	250	41,01
270110		15	250	53,37
270112		18	250	55,99
270114	16	12	250	50,33
270116		15	250	57,25
270118		18	250	64,75
270119		24	250	122,74
270120	25	12	250	68,66
270121		15	250	70,06
270122		18	250	82,77
270123		25	100	220,21
270124	35	18	100	97,09
270126		22	100	112,29
270128		25	100	129,77
270130		30	100	295,48
270131	50	22	100	219,07
270132	70	25	100	507,63
270134	95	30	50	820,39
270135	120	32	50	847,70
270136	150	38	50	1.086,04
270137	185	40	25	1.721,54

Around the cable

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End sleeves DIN colour range

Cu

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



Art. No.	CSS	↔	L	PU	PrU	EUR
270800 *	0,5	14	8	100	1000	14,34
270801		14	8	500	1000	14,34
270802	0,75	14	8	500	1000	14,34
270803 *		14	8	100	1000	14,34
272803		160	10	100	1000	18,86
270804	1	14,6	8	100	1000	14,34
270805		14,6	8	500	1000	14,34
272804		10	100	1000		15,87
270806		18	12	500	1000	18,64
270807	1,5	14,6	8	500	1000	15,24
270808 *		14,6	8	100	1000	15,24
270809		14,6	10	500	1000	34,72
270810 *	2,5	15	8	100	1000	18,53
270811		15	8	500	1000	18,53
270812		16,5	10	500	1000	23,23
272812		17,4	10	100	1000	22,19
270813		25	18	500	1000	26,79
270814 *	4	17,7	10	100	1000	32,72
270815		17,7	10	500	1000	32,72
270816		25,7	18	100	1000	46,86
270818 *	6	20	12	100	1000	45,80
270820		26	18	100	1000	55,12
270822 *	10	21,5	12	100	1000	64,86
270824		27,5	18	100	1000	70,70
270826 *	16	22,2	12	100	1000	86,29
270828		28,2	18	100	1000	92,89
270830 *	25	30	16	50	1000	146,51
270832		32	18	50	1000	166,68
270834		36	22	50	1000	177,57
270836 *	35	30	16	50	1000	180,48
270838		32	18	50	1000	204,89
270840		39	25	50	1000	228,47
270842 *	50	36	20	50	1000	303,88
270844		40	25	50	1000	383,91
270762	70	37	21	25	1000	583,59
270859	95	44	25	10	1000	902,76
270861	120	47,6	27	10	1000	1.241,18
270863	150	57,6	32	10	1000	1.706,43

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

Cu

Coils Ø 250 mm

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



Art. No.	CSS	L	PU	PrU	EUR
272250	0,5	8	3000	1000	33,61
272254	0,75	8	3000	1000	33,61
272260	1	8	3000	1000	33,61
272264	1,5	8	2500	1000	33,61
272268	2,5	8	1500	1000	38,83

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

Dispenser 150 x 150 x 18 mm

- insulated
- Copper/plastic, tin-plated surface



Art. No.	CSS	L	PU	PrU	EUR
272280	0,5	8	1000	1000	33,61
272284	0,75	8	1000	1000	33,61
272290	1	8	1000	1000	33,61
272294	1,5	8	1000	1000	33,61
272298	2,5	8	500	1000	38,83

End sleeves, colour range I, (french)

Cu

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



Art. No.	CSS	↔	L	PU	PrU	EUR
270014	0,25	10,4	6	100	1000	23,24
270015		10,4	6	500	1000	23,24
270016	0,34	12,4	6	500	1000	23,24
270800 *	0,5	14	8	100	1000	14,34
270801		14	8	500	1000	14,34
270021	0,75	14,5	8	100	1000	15,74
270022		14,5	8	500	1000	15,74
270804	1	14,6	8	100	1000	14,34
270805		14,6	8	500	1000	14,34
270808 *	1,5	14,6	8	100	1000	15,24
270027		24,4	18	100	1000	27,56
270028		24,4	18	500	1000	27,56
270029	2,5	15	8	100	1000	18,53
270030		15	8	500	1000	18,53
270031		21	18	100	1000	30,86
270032		21	18	500	1000	30,86
270033	4	17,7	10	100	1000	32,72
270034		17,7	10	500	1000	33,82
270036		25,7	18	100	1000	46,86
270038	6	20	12	100	1000	45,80
270040		26	18	100	1000	54,83
270042	10	21,5	12	100	1000	64,86
270044		27,5	18	100	1000	70,70
270046	16	24,2	12	100	1000	86,29
270048		28,2	18	100	1000	92,89
270049	25	30	16	50	1000	146,51
270050		32	18	50	1000	166,70

End sleeves, colour range II, (german)

Cu

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



Art. No.	CSS	↔	L	PU	PrU	EUR
270714	0,25	10,4	6	100	1000	20,57
270715		10,4	6	500	1000	20,57
270716	0,34	10,4	6	500	1000	20,57
270719	0,5	14	8	100	1000	15,47
270720		14	8	500	1000	15,47
270721	0,75	14,6	8	100	1000	15,47
270722		14,6	8	500	1000	15,47
272721		16	10	100	1000	16,75
270723	1	14,6	8	100	1000	15,47
270724		14,6	8	500	1000	15,47
272723		16	10	100	1000	16,92
270725	1,5	14,6	8	100	1000	15,47
270726		14,6	8	500	1000	15,58
272725		16	10	100	1000	18,21
270727		24,4	18	100	1000	24,91
270728		24,4	18	500	1000	24,91
270810 *	2,5	15	8	100	1000	18,53
270811		15	8	500	1000	18,53
270812		16,5	10	500	1000	23,23
272812		17,4	10	100	1000	22,19
270813		25	18	500	1000	26,79
270814 *	4	17,7	10	100	1000	32,72
270815		17,7	10	500	1000	32,72
270816		25,7	18	100	1000	46,86
270738	6	20	12	100	1000	45,80
270740		26	18	100	1000	52,40
270742	10	21,5	12	100	1000	58,92
270744		27,5	18	100	1000	68,80
270746	16	22,2	12	100	1000	86,29
270748		28,2	18	100	1000	92,89
270750	25	29	16	50	1000	146,51
270754	35	30	16	50	1000	190,19
270756		39	25	50	1000	228,47
270758	50	36,4	20	25	1000	303,89
270760		41	25	25	1000	384,03
270762	70	37	21	25	1000	583,59

End sleeves for short-circuit-proof cables

Cu

- for short-circuit-proof cables with extra thick insulation (NSGAFÖU)



Art. No.	CSS	L	PU	PrU	EUR
270900	1,5	8	100	1000	75,44
270902		10	100	1000	103,38
270904	2,5	8	100	1000	131,89
270906		12	100	1000	151,76
270908	4	10	100	1000	153,92
270910	6	12	100	1000	157,17
270912	10	12	100	1000	207,02
270914	16	12	100	1000	284,53

Twin-end sleeves two cables DIN

Cu

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



Art. No.	CSS	↔	L	PU	PrU	EUR
270778 *	0,5	15	8	100	1000	35,37
270780 *	0,75	15	8	100	1000	35,38
270782		17	10	100	1000	44,40
270784 *	1	15	8	100	1000	35,38
270787		17	10	100	1000	48,43
270788 *	1,5	16	8	100	1000	35,38
270790		20	12	100	1000	48,36
270792 *	2,5	18,5	10	100	1000	42,35
270794 *		21,5	13	100	1000	52,43
270796 *	4	23	12	100	1000	128,70
270797 *	6	25	14	100	1000	150,14
270798 *	10	26	14	100	1000	188,51
270799 *	16	31	16	50	1000	327,34

Twin-end sleeves, colour range II, german

Cu

- insulated
- Electrolytic copper, tin-plated
- Dimensions to DIN 46228. Part 4
- Colour range II, german



Art. No.	CSS	↔	L	PU	PrU	EUR
273350	0,5	15	8	100	1000	31,43
273352	0,75	15	8	100	1000	31,43
273354		17	10	100	1000	39,50
273356	1	15	8	100	1000	31,43
273358		17	12	100	1000	43,09
273360	1,5	16	8	100	1000	31,43
273362		20	12	100	1000	43,12
273392	2,5	18,5	10	100	1000	42,35
273394		21,5	13	100	1000	51,52
273396	4	23	12	100	1000	128,70
273364	6	25	14	100	1000	113,22
273366	10	26	14	100	1000	142,09
273368	16	31	16	50	1000	197,41

End sleeves colour range III, DIN "SmallPack"

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



Art. No.	CSS	↔	L	PU	PrU	EUR
270800/25	0,5	14	8	25	1000	37,04
270803/25	0,75	14	8	25	1000	35,98
270804/25	1	14,6	8	25	1000	37,04
270808/25	1,5	14,6	8	25	1000	37,58
270810/25	2,5	15	8	25	1000	41,00
270814/25	4	17,7	10	25	1000	56,10
270818/10	6	20	12	10	1000	105,20
270822/10	10	21,5	12	10	1000	124,38
270826/10	16	22,2	12	10	1000	149,51
270830/5	25	30	16	5	1000	263,31
270836/5	35	30	16	5	1000	300,39

Twin-end sleeves two cables DIN "SmallPack"

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



Art. No.	CSS	↔	L	PU	PrU	EUR
270778/25	0,5	15	8	25	1000	46,83
270780/25	0,75	15	8	25	1000	48,96
270784/25	1	15	8	25	1000	51,09
270788/25	1,5	16	8	25	1000	51,61
270792/25	2,5	18,5	10	25	1000	65,38
270796/10	4	23	12	10	1000	120,42
270797/10	6	25	14	10	1000	143,55
270798/5	10	26	14	5	1000	177,31
270799/5	16	31	16	5	1000	269,93

Empty dispenser box



Art. No.	set	kg	PU	EUR
270870	0	0,049	5	6,05

Dispenser box with uninsulated end sleeves

Contents: tin-plated end sleeves



Art. No.	set	kg	PU	EUR
270217	3450	0,240	1	51,18

Dispenser box with uninsulated end sleeves

Contents: tin-plated end sleeves



Art. No.	set	kg	PU	EUR
270218	395	0,158	1	20,90

Dispenser box with insulated end sleeves (DIN)

Contents: Colour range III, DIN, white, grey, red, black, blue



Art. No.	set	kg	PU	EUR
270854 *	400	0,090	1	20,40

Dispenser box with insulated end sleeves (DIN)

Contents: Colour range III, DIN grey, yellow, red, blue



Art. No.	set	kg	PU	EUR
270858	100	0,089	1	16,03

Dispenser box with Twin end sleeves (DIN)

Content: Colour range DIN, grey, red, black, blue



Art. No.	set	kg	PU	EUR
270795 *	200	0,080	1	21,15

Dispenser box with insulated end sleeves (german)

Contents: Colour range II, orange, white, yellow, red, blue



Art. No.	set	kg	PU	EUR
270852	400	0,089	1	20,33

Dispenser box with insulated end sleeves (german)

Contents: Colour range II, grey, black, ivory, green



Art. No.	set	kg	PU	EUR
270856	100	0,087	1	16,03

Dispenser box with insulated end sleeves (french)

Contents: Colour range I, white, blue, red, black, grey



Art. No.	set	kg	PU	EUR
270850	400	0,090	1	20,33

Slide Box with DIN end sleeves

Contents:

Colour range III, DIN
white, grey, red, black, blue



Art. No.	set	kg	PU	EUR
270864	400	DIN 0,109	1	23,00
270866	225	TWIN 0,104	1	23,89

Assortments of wire-end sleeves

Contents: 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



Art. No.	set	kg	PU	EUR
270888	5100	2,150	1	448,28
270890	5100	2,150	1	448,94

Assortments of wire-end sleeves

Contents: 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



Art. No.	set	kg	PU	EUR
270891	5300	2,100	1	215,15
270892	5300	2,100	1	214,73
270893	5300	2,100	1	214,87

End sleeve assortment - serie DIN

Contents: 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



Art. No.	set	kg	PU	EUR
270882/DIN	1150	1,740	1	127,64
270882	1150	1,700	1	127,59
270894	1150	2,150	1	127,48

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End sleeve assortment – serie DIN

Contents: 4.700 insulated end sleeves, color range DIN, in plastic bulk storage chest 415 x 335 x 90 mm



Art. No.	set	kg	PU	EUR
270899	4700	2,150	1	154,69

Assortment for Combi-Crimp

Contents: 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



Art. No.	set	kg	PU	EUR
270895 *	3800	3,900	1	213,44
270896	3800	4,300	1	213,01
270897	3800	4,300	1	213,11

SysCon end sleeves & 210804

Contents: 4100 insulated end sleeves

220370 ABS plastic box "SysCon S"
220375 Assortment insert "SysCon"
220399 Foam "SysCon" 400 x 300 x 10 mm
210804 Crimping pliers for end sleeves 0,08 - 10 mm²



Art. No.	set	kg	PU	EUR
220382	4100	4,300	1	574,59

SysCon end sleeves & 210842

Contents: 4950 insulated end sleeves

220370 ABS plastic box "SysCon S"
220399 Foam "SysCon" 400 x 300 x 10 mm
220375 Assortment insert "SysCon"
210842 Crimping pliers for end sleeves 1 - 10 mm²



Art. No.	set	kg	PU	EUR
220390	4950	4,300	1	325,35

Crimp terminals, PVC-insulated



Ring terminals DIN 46237

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



Art. No.	CSS	M	W	PU	PrU	EUR
260250	0,5 - 1,0	2,5	8	100	100	5,71
260252		3	5,5	100	100	5,71
260254		3,5	8	100	100	5,71
260256 *		4	8	100	100	6,33
260258 *		5	8	100	100	7,37
260260 *		6	10	100	100	8,35
260262		8	14	100	100	10,69
260264		10	14	100	100	14,22
260267	1,5 - 2,5	3	6,4	100	100	6,30
260268		3,5	8	100	100	6,30
260270 *		4	8	100	100	7,09
260272 *		5	10	100	100	8,18
260274 *		6	11	100	100	9,01
260276		8	15	100	100	10,98
260278		10	15	100	100	13,72
260282	4 - 6	3,5	8	100	100	14,06
260284		4	8	100	100	12,34
260286		5	10	100	100	13,59
260288 *		6	11	100	100	13,59
260290 *		8	15	100	100	14,76
260292		10	19	100	100	18,08

Fork terminals DIN 46237

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



Art. No.	CSS	M	W	PU	PrU	EUR
260300	0,5 - 1,0	3	5,6	100	100	5,75
260302		3,5	6,5	100	100	5,75
260304 *		4	6,4	100	100	5,89
260306		5	8	100	100	7,49
260308		6	9,2	100	100	7,62
260310	1,5 - 2,5	3	5,6	100	100	6,45
260312		3,5	6,6	100	100	6,63
260314 *		4	6,6	100	100	6,51
260316		5	9,1	100	100	8,11
260318		6	10	100	100	8,88
260320	4 - 6,0	4	8,1	100	100	10,93
260322 *		5	9	100	100	11,72
260324		6	11	100	100	13,69
260326		8	15,2	100	100	15,90
260328		10	19	100	100	19,97

Socket sleeves (male) DIN 46231

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



Art. No.	CSS	W	PU	PrU	EUR
260330	0,5 - 1,0	2,8	100	100	7,76
260331		3	100	100	8,12
260332	1,5 - 2,5	2,8	100	100	7,63
260333		2,8	100	100	9,49
260334	4 - 6	2,8	100	100	15,30
260335		4,5	100	100	18,87

Butt connectors

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



Art. No.	CSS	PU	PrU	EUR
260350 *	0,5 - 1,0	100	100	10,50
260352 *	1,5 - 2,5	100	100	11,96
260354 *	4 - 6,0	100	100	17,02

Parallel connectors

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



Art. No.	CSS	PU	PrU	EUR
260360	0,5 - 1,0	100	100	9,54
260362	1,5 - 2,5	100	100	10,95
260364	4 - 6,0	100	100	17,93

Round pins

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



Art. No.	CSS	W	PU	PrU	EUR
260370	0,5 - 1,0	1,8	100	100	8,22
260371		1,8	100	100	7,63
260372	1,5 - 2,5	1,8	100	100	9,37
260373		1,8	100	100	13,05
260374	4 - 6,0	2,6	100	100	14,24

Socket sleeves (female)

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



Art. No.	CSS	W	plug	PU	PrU	EUR
260380	0,5 - 1,0	3,2	2,8x0,5	100	100	9,32
260382		3,2	2,8x0,8	100	100	9,32
260384		5	4,8x0,5	100	100	9,78
260386		5	4,8x0,8	100	100	9,78
260400		5,5	5,2x0,8	100	100	11,25
260392 *		6,6	6,3x0,8	100	100	10,70
260388	1,5 - 2,5	5	4,8x0,5	100	100	10,22
260390		5	4,8x0,8	100	100	10,22
260402		5,5	5,2x0,8	100	100	11,69
260394 *		6,6	6,3x0,8	100	100	10,95
260396 *	4 - 6,0	6,6	6,3x0,8	100	100	15,31
260404		10	9,8x1,1	100	100	26,24

Socket sleeves (female) with branch

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



Art. No.	CSS	W	plug	PU	PrU	EUR
260410	0,5 - 1,0	7,8	6,3x0,8	100	100	13,58
260412	1,5 - 2,5	7,8	6,3x0,8	100	100	14,47
260411	4 - 6,0	7,8	6,3x0,8	100	100	19,91

Socket sleeves (female), fully-insulated

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



Art. No.	CSS	W	plug	PU	PrU	EUR
260414 *	0,5 - 1,0	6,6	6,3x0,8	100	100	13,94
260415		5	4,8x0,8	100	100	12,88
260416 *	1,5 - 2,5	6,6	6,3x0,8	100	100	13,96
260417		5	4,8x0,8	100	100	11,97
260418 *	4 - 6,0	6,6	6,3x0,8	100	100	19,06

Flat terminals



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



Art. No.	CSS	W	plug	PU	PrU	EUR
260510	0,5 - 1,0	2,8	2,8x0,5	100	100	10,12
260512		2,8	2,8x0,8	100	100	10,12
260514		4,8	4,8x0,5	100	100	10,10
260516		4,8	4,8x0,8	100	100	10,10
260422 *		6,3	6,3x0,8	100	100	9,89
260518	1,5 - 2,5	4,8	4,8x0,5	100	100	10,84
260520		4,8	4,8x0,8	100	100	10,84
260424 *		6,3	6,3x0,8	100	100	9,92
260426 *	4 - 6,0	6,3	6,3x0,8	100	100	15,18

Round terminals

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



Art. No.	CSS	W	plug	PU	PrU	EUR
260446	0,5 - 1,0	4	4 mm	100	100	11,08
260448	1,5 - 2,5	5	5 mm	100	100	11,72
260449		4	4 mm	100	100	11,11
260450	4 - 6,0	5	5 mm	100	100	20,69

Round sleeves

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



Art. No.	CSS	W	plug	PU	PrU	EUR
260440	0,5 - 1,0	4	4 mm	100	100	12,18
260442	1,5 - 2,5	5	5 mm	100	100	15,21
260443		4	4 mm	100	100	15,06
260444	4 - 6,0	5	5 mm	100	100	25,25

Rapid connectors

- of electrolytic copper, tin-plated
- Polypropylene



Art. No.	CSS	PU	PrU	EUR
260336 *	0,5 - 1,0	100	100	11,08
260500		100	100	21,13
260337	1,5 - 2,5	100	100	11,08
260502		100	100	21,13
260338	4 - 6,0	100	100	18,70
260504		100	100	23,02

Small packages

Ring terminals DIN 46237 "SmallPack"

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



Art. No.	CSS	M	W	PU	PrU	EUR
260256/10	0,5 - 1,0	4	8	10	100	12,82
260258/10		5	8	10	100	13,88
260270/10	1,5 - 2,5	4	8	10	100	13,33
260272/10		5	10	10	100	14,70
260274/10		6	11	10	100	15,77
260288/10	4 - 6	6	11	10	100	21,84
260290/10		8	15	10	100	25,76

Fork terminals DIN 46237 "SmallPack"

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



Art. No.	CSS	M	W	PU	PrU	EUR
260304/10	0,5 - 1,0	4	6,4	10	100	9,79
260306/10		5	8	10	100	11,34
260314/10	1,5 - 2,5	4	6,6	10	100	10,38
260316/10		5	9,1	10	100	11,73
260324/10	4 - 6,0	6	11	10	100	16,78

Butt connectors "SmallPack"

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



Art. No.	CSS	PU	PrU	EUR
260350/10	0,5 - 1,0	10	100	14,27
260352/10	1,5 - 2,5	10	100	14,84
260354/10	4 - 6,0	10	100	21,08

Socket sleeves (female) "SmallPack"

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



Art. No.	CSS	W	plug	PU	PrU	EUR
260386/10	0,5 - 1,0	5	4,8x0,8	10	100	12,49
260392/10		6,6	6,3x0,8	10	100	16,92
260390/10	1,5 - 2,5	5	4,8x0,8	10	100	12,94
260394/10		6,6	6,3x0,8	10	100	17,19
260396/10	4 - 6,0	6,6	6,3x0,8	10	100	22,53

Socket sleeves (female), fully-insulated

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



Art. No.	CSS	W	plug	PU	PrU	EUR
260414/10	0,5 - 1,0	6,6	6,3x0,8	10	100	20,38
260416/10	1,5 - 2,5	6,6	6,3x0,8	10	100	20,38

Flat terminals "SmallPack"

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



Art. No.	CSS	W	plug	PU	PrU	EUR
260516/10	0,5 - 1,0	4,8	4,8x0,8	10	100	14,19
260422/10		6,3	6,3x0,8	10	100	16,01
260520/10	1,5 - 2,5	4,8	4,8x0,8	10	100	14,63
260424/10		6,3	6,3x0,8	10	100	16,09
260426/10	4 - 6,0	6,3	6,3x0,8	10	100	21,70

Round terminals "SmallPack"

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



Art. No.	CSS	W	plug	PU	PrU	EUR
260448/10	1,5 - 2,5	5	5 mm	10	100	12,83

Round sleeves "SmallPack"

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



Art. No.	CSS	W	plug	PU	PrU	EUR
260442/10	1,5 - 2,5	5	5 mm	10	100	15,77

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Crimp terminals, Nylon-insulated



Ring terminals DIN 46237

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



Art. No.	CSS	M	W	PU	PrU	EUR
260243	0,2 - 0,5	2	5	100	100	5,91
260245		3	5	100	100	5,95
260246		3,5	6	100	100	7,25
260247		4	6,5	100	100	7,27
260248		5	8	100	100	7,50
260650	0,5 - 1,0	2,5	8	100	100	7,97
260651		3	8	100	100	7,64
260654		3,5	8	100	100	10,40
260656		4	8	100	100	10,24
260658		5	8	100	100	11,04
260660		6	10	100	100	11,04
260662		8	14	100	100	14,86
260664		10	14	100	100	19,97
260666	1,5 - 2,5	3	8	100	100	13,05
260667		3,5	8	100	100	13,06
260670		4	8	100	100	10,58
260672		5	10	100	100	12,00
260674		6	11	100	100	12,95
260676		8	15	100	100	15,15
260678		10	15	100	100	22,69
260682	4 - 6,0	3,5	8	100	100	16,24
260684		4	8	100	100	16,23
260686		5	10	100	100	17,57
260688		6	11	100	100	18,25
260690		8	15	100	100	21,29
260692		10	19	100	100	25,07

Fork terminals DIN 46237

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



Art. No.	CSS	M	W	PU	PrU	EUR
260700	0,5 - 1,0	3	5,6	100	100	9,53
260702		3,5	6,5	100	100	10,75
260704		4	6,4	100	100	9,68
260706		5	8	100	100	11,61
260708		6	9,2	100	100	12,65
260710	1,5 - 2,5	3	5,6	100	100	13,05
260712		3,5	6,6	100	100	11,23
260714		4	6,6	100	100	11,23
260716		5	9,1	100	100	12,99
260718		6	10	100	100	14,55
260721	4 - 6,0	4	8,1	100	100	17,60
260722		5	9	100	100	19,43
260724		6	11	100	100	19,86
260726		8	15,2	100	100	22,06
260728		10	19	100	100	26,50

Socket sleeves (male) DIN 46231

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



Art. No.	CSS	W	PU	PrU	EUR
260730	0,5 - 1,0	2,8	100	100	10,68
260731		3	100	100	11,07
260732	1,5 - 2,5	2,8	100	100	10,88
260733		2,8	100	100	13,44
260734	4 - 6,0	2,8	100	100	15,84
260735		4,5	100	100	25,69

Butt connectors

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



Art. No.	CSS	PU	PrU	EUR
260750	0,5 - 1,0	100	100	20,75
260752	1,5 - 2,5	100	100	21,31
260754	4 - 6,0	100	100	21,41

Parallel connectors

- of electrolytic copper, tin-plated
- Nylon-insulated, suitable for harmonised cables
- Easy Entry



Art. No.	CSS	PU	PrU	EUR
263360	0,5 - 1,0	100	100	9,91
263362	1,5 - 2,5	100	100	11,39
263364	4 - 6,0	100	100	18,74

Round pins

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



Art. No.	CSS	W	PU	PrU	EUR
260770	0,5 - 1,0	1,9	100	100	12,21
260771		1,9	100	100	9,98
260772	1,5 - 2,5	1,9	100	100	13,08
260773		1,9	100	100	10,59
260774	4 - 6,0	2,7	100	100	18,80
260376	10	4	100	100	60,36

Socket sleeves (female)

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



Art. No.	CSS	W	plug	PU	PrU	EUR
263380	0,5 - 1,0	3,2	2,8x0,5	100	100	12,15
263382		3,2	2,8x0,8	100	100	13,51
263384		5	4,8x0,5	100	100	13,76
263386		5	4,8x0,8	100	100	13,76
263400		5,5	5,2x0,8	100	100	13,26
263392		6,6	6,3x0,8	100	100	15,25
263388	1,5 - 2,5	5	4,8x0,5	100	100	14,67
263393		5	4,8x0,8	100	100	14,64
263402		5,5	5,2x0,8	100	100	14,03
263394		6,6	6,3x0,8	100	100	16,15
263396	4 - 6,0	6,6	6,3x0,8	100	100	21,69
263404		10	9,8x1,1	100	100	31,82

Socket sleeves (female) with branch

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



Art. No.	CSS	W	plug	PU	PrU	EUR
263410	0,5 - 1,0	7,8	6,3x0,8	100	100	19,26
263412	1,5 - 2,5	7,8	6,3x0,8	100	100	20,38
263413	4 - 6,0	7,8	6,3x0,8	100	100	32,79

Socket sleeves (female), fully-insulated

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



Art. No.	CSS	W	plug	PU	PrU	EUR
263451	0,5 - 1,0	3,2	2,8x0,5	100	100	20,91
263452		3,2	2,8x0,8	100	100	20,91
263453		5	4,8x0,5	100	100	19,57
263414		6,6	6,3x0,8	100	100	21,34
263415		5	4,8x0,8	100	100	19,57
263456	1,5 - 2,5	5	4,8x0,5	100	100	19,57
263416		6,6	6,3x0,8	100	100	21,34
263417		5	4,8x0,8	100	100	19,57
263418	4 - 6,0	6,6	6,3x0,8	100	100	27,93

Flat terminals

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



Art. No.	CSS	W	plug	PU	PrU	EUR
263510	0,5 - 1,0	2,8	2,8x0,5	100	100	16,78
263512		2,8	2,8x0,8	100	100	15,23
263514		4,8	4,8x0,5	100	100	15,77
263516		4,8	4,8x0,8	100	100	19,84
263422		6,3	6,3x0,8	100	100	12,23
263518	1,5 - 2,5	4,8	4,8x0,5	100	100	16,81
263520		4,8	4,8x0,8	100	100	17,88
263424		6,3	6,3x0,8	100	100	13,26
263426	4 - 6,0	6,3	6,3x0,8	100	100	21,34

Round sleeves

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



Art. No.	CSS	W	plug	PU	PrU	EUR
263440	0,5 - 1,0	4	4 mm	100	100	17,33
263442	1,5 - 2,5	5	5 mm	100	100	19,41
263443		4	4 mm	100	100	18,66

Round terminals

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



Art. No.	CSS	W	plug	PU	PrU	EUR
263446	0,5 - 1,0	4	4 mm	100	100	14,61
263448	1,5 - 2,5	5	5 mm	100	100	15,49
263449		4	4 mm	100	100	14,59
263450	4 - 6,0	5	5 mm	100	100	27,46

End connectors

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



Art. No.	CSS	W	PU	PrU	EUR
260427 *	0,5 - 1,0	5	100	100	8,65
260428	1,5 - 2,5	5,9	100	100	9,22
260430	4 - 6,0	7,3	100	100	17,88
260431	10	9,3	100	100	35,47

Crimp terminals, PC-insulated



Ring terminals DIN 46237

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



Art. No.	CSS	M	W	PU	PrU	EUR
340256	0,5 - 1,0	4	8	100	100	11,62
340258		5	10	100	100	13,08
340270	1,5 - 2,5	4	8	100	100	12,20
340272		5	10	100	100	13,90
340274		6	11	100	100	14,81
340288	4,0 - 6,0	6	11	100	100	24,47
340290		8	14	100	100	30,31

Fork terminals DIN 46237

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



Art. No.	CSS	M	W	PU	PrU	EUR
340304	0,5 - 1,0	4	6,6	100	100	10,86
340314	1,5 - 2,5	4	6,6	100	100	12,74
340322	4,0 - 6,0	6	10,7	100	100	28,18

Butt connectors

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



Art. No.	CSS	PU	PrU	EUR
340350	0,5 - 1,0	25	100	24,85
340352	1,5 - 2,5	25	100	28,18
340354	4,0 - 6,0	27	100	29,06

Crimp terminals, PC-insulated**Socket sleeves (female)**

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



Art. No.	CSS	W	plug	PU	PrU	EUR
340392	0,5 - 1,0	6,6	6,3x0,8	100	100	10,47
340394	1,5 - 2,5	6,6	6,3x0,8	100	100	10,48
340396	4,0 - 6,0	6,6	6,3x0,8	100	100	14,11

Socket sleeves (female), fully-insulated

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



Art. No.	CSS	W	plug	PU	PrU	EUR
340414	0,5 - 1,0	6,6	6,3x0,8	100	100	18,70
340416	1,5 - 2,5	6,6	6,3x0,8	100	100	19,05

Flat terminals

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



Art. No.	CSS	plug	PU	PrU	EUR
340422	0,5 - 1,0	6,3x0,8	22	100	8,28
340424	1,5 - 2,5	6,3x0,8	22	100	8,24
340426	4,0 - 6,0	6,3x0,8	24	100	9,89

Crimp terminals, PVC-insulated**Ring terminals "ECO-Line"**

- of electrolytic copper, tin-plated, not soldered
- PVC-insulated, with expanded insulating sleeve
- suitable for harmonised cables



Art. No.	CSS	M	W	PU	PrU	EUR
370256	0,5 - 1,0	4	6,6	100	100	4,44
370258		5	8	100	100	5,07
370270	1,5 - 2,5	4	6,6	100	100	5,18
370272		5	8,5	100	100	6,10
370274		6	12	100	100	8,96
370288	4,0 - 6,0	6	12	100	100	13,40
370290		8	15	100	100	16,01

Fork terminals "ECO-Line"

- of electrolytic copper, tin-plated, not soldered
- PVC-insulated, with expanded insulating sleeve
- suitable for harmonised cables



Art. No.	CSS	M	W	PU	PrU	EUR
370304	0,5 - 1,0	4	6,4	100	100	4,89
370314	1,5 - 2,5	4	6,4	100	100	5,86
370322	4,0 - 6,0	6	9	100	100	10,45

Butt connectors "ECO-Line"

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



Art. No.	CSS	PU	PrU	EUR
370350	0,5 - 1,0	24,6	100	5,97
370352	1,5 - 2,5	24,6	100	7,28
370354	4,0 - 6,0	26,5	100	9,98

Socket sleeves (female) "ECO-Line"

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



Art. No.	CSS	W	plug	PU	PrU	EUR
370392	0,5 - 1,0	6,6	6,3x0,8	100	100	6,68
370394	1,5 - 2,5	6,6	6,3x0,8	100	100	6,98
370396	4,0 - 6,0	6,6	6,3x0,8	100	100	9,12

Socket sleeves (female), fully-insulated "ECO-Line"

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



Art. No.	CSS	W	plug	PU	PrU	EUR
370414	0,5 - 1,0	6,6	6,3x0,8	100	100	7,66
370416	1,5 - 2,5	6,6	6,3x0,8	100	100	7,90

Flat terminals "ECO-Line"

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



Art. No.	CSS	plug	PU	PrU	EUR
370422	0,5 - 1,0	6,3x0,8	21	100	5,19
370424	1,5 - 2,5	6,3x0,8	21	100	5,27
370426	4,0 - 6,0	6,3x0,8	24	100	7,46

Shrinkable connectors, Polyolefin-insulated**Butt connectors**

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



Art. No.	CSS	PU	PrU	EUR
363500	0,5 - 1,0	36	100	33,52
363502	1,5 - 2,5	36	100	33,52
363504	4 - 6,0	41	100	41,43

Socket sleeves (female)

- Brass, tin-plated
- RoHS-conform
- Insulating cover: Polyolefin with inside adhesiver



Art. No.	CSS	plug	PU	PrU	EUR
363510	0,5 - 1,0	6,3x0,8	30	100	26,86
363512	1,5 - 2,5	6,3x0,8	30	100	26,86
363514	4 - 6,0	6,3x0,8	30	100	32,15

Flat terminals

- Brass, tin-plated
- RoHS-conform
- Insulating cover: Polyolefin with inside adhesiver



Art. No.	CSS	plug	PU	PrU	EUR
363520	0,5 - 1,0	6,3x0,8	30	100	26,86
363522	1,5 - 2,5	6,3x0,8	30	100	26,86
363524	4 - 6,0	6,3x0,8	30	100	32,15

Ring terminals

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



Art. No.	CSS	M	PU	PrU	EUR
363530	0,5 - 1,0	4 28,5	100	100	25,54
363532		5 28,5	100	100	25,54
363534		6 34,5	100	100	26,86
363536		8 34,5	100	100	26,86
363538		10 37,5	100	100	26,86
363540	1,5 - 2,5	4 30,5	100	100	26,86
363542		5 30,5	100	100	26,86
363544		6 35,5	100	100	27,49
363546		8 35,5	100	100	28,19
363548		10 37,5	100	100	28,85
363550	4 - 6,0	4 34,2	100	100	30,82
363552		5 34	100	100	30,82
363554		6 37,5	100	100	31,50
363556		8 42	100	100	32,83
363558		10 42	100	100	32,83

Butt connectors "SmallPack"

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



Art. No.	CSS	PU	PrU	EUR
363500/10	0,5 - 1,0	10	100	40,89
363502/10	1,5 - 2,5	10	100	42,28
363504/5	4 - 6,0	5	100	66,67

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... convincing solutions

Welded shrink connector

Welded shrink connectors

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



Art. No.	CSS	PU	PrU	EUR
363600	0,5 - 1,0	100	100	165,86
363602	1,5 - 2,5	100	100	210,16
363604	4 - 6,0	100	100	308,33

Welded shrink connector, transparent

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



Art. No.	CSS	PU	PrU	EUR
363606	0,5 - 1	100	100	101,42
363607	1,5 - 2,5	100	100	111,55
363608	4 - 6	100	100	118,16

Assortments of insulated terminals

Assortment of insulated terminals

Contents: 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



Art. No.	set	kg	PU	EUR
260762	1250	3,139	1	289,82

Assortment of insulated terminals

Containing: 1250 insulated terminals
1 crimping pliers (Art. 21 08 02), press range 1.5 - 6 mm², in plastic bulk storage chest 415 x 335 x 90 mm



Art. No.	set	kg	PU	EUR
260764	1250	3,277	1	219,93
262048	1250	3,400	1	192,08

Assortment of insulated terminals

Contents: 1.200 Crimping terminals
1 crimping pliers (Art. 21 07 61), press range 0.5 - 6 mm², in plastic bulk storage chest 415 x 335 x 90 mm



Art. No.	set	kg	PU	EUR
260765 *	1200	3,367	1	202,91

Assortment of insulated terminals

Contents: 1.200 crimping terminals, crimping pliers (art. no. 210802), crimp 0,5 - 6,0 mm², in plastic bulk storage chest 415 x 335 x 90 mm



Art. No.	set	kg	PU	EUR
260777 *	1200	2,980	1	159,62

SysCon insulated terminals & 210761

Contents: 1500 insulated terminals
220370 ABS plastic box „SysCon S“
220375 Assortment insert „SysCon“
220399 Foam „SysCon“ 400 x 300 x 10 mm
210761 Crimping pliers for insulated terminals 0,5 - 6 mm²



Art. No.	set	kg	PU	EUR
220381	1500	4,300	1	366,10

SysCon insulated terminals / end sleeves & 210784

Contents: insulated terminals and end sleeves
220370 ABS plastic box „SysCon S“
220375 Assortment insert „SysCon“
220399 Foam „SysCon“ 400 x 300 x 10 mm
210784 Crimping pliers for insulated terminals and end sleeves



Art. No.	set	kg	PU	EUR
220391	3700	4,300	1	379,12

Socket sleeves (male and female)

Socket sleeves (female)

- bare brass
- not insulated



Art. No.	CSS	W	plug	PU	PrU	EUR
280000	0,5 - 1	7,6	6,3x0,8	200	100	10,01
280004	1 - 2,5	7,6	6,3x0,8	200	100	10,67
280008	0,5 - 1,25	5,6	4,8x0,8	200	100	7,61
280012		5,6	4,8x0,5	200	100	8,54
280016		3,75	2,8x0,8	200	100	6,51
280020		3,75	2,8x0,5	200	100	5,86

Socket sleeves (female)

- tin-plated brass
- not insulated



Art. No.	CSS	W	plug	PU	PrU	EUR
280030	0,5 - 1,0	7,6	6,3x0,8	200	100	10,59
280034	1 - 2,5	7,6	6,3x0,8	200	100	10,82
280038	0,5 - 1,25	5,6	4,8x0,8	200	100	7,61
280042		5,6	4,8x0,5	200	100	9,09
280046		3,75	2,8x0,8	200	100	7,13
280050		3,75	2,8x0,5	200	100	6,27

Socket sleeves (female)

- bare brass
- not insulated
- with side cable connection



Art. No.	CSS	W	plug	PU	PrU	EUR
280060	0,5 - 1,0	7,6	6,3x0,8	200	100	16,93
280064	1 - 2,5	7,6	6,3x0,8	200	100	17,21

Socket sleeves (female)

- tin-plated brass
- not insulated
- with side cable connection



Art. No.	CSS	W	plug	PU	PrU	EUR
280070	0,5 - 1,0	7,6	6,3x0,8	200	100	17,83
280074	1 - 2,5	7,6	6,3x0,8	200	100	16,73

Socket sleeves (female) with branch

- bare brass
- not insulated, with branch



Art. No.	CSS	W	plug	PU	PrU	EUR
280080	0,5 - 1,0	7,6	6,3x0,8	200	100	19,62
280084	1 - 2,5	7,6	6,3x0,8	200	100	18,80

Socket sleeves (female) with branch

- tin-plated brass
- not insulated, with branch



Art. No.	CSS	W	plug	PU	PrU	EUR
280090	0,5 - 1,0	7,6	6,3x0,8	200	100	21,24
280094	1 - 2,5	7,6	6,3x0,8	200	100	20,02

Flat terminals

- bare brass
- not insulated



Art. No.	CSS	W	plug	PU	PrU	EUR
280100	0,5 - 1,0	6,3	6,3x0,8	200	100	9,60
280104	1 - 2,5	6,3	6,3x0,8	200	100	8,87

Flat terminals

- tin-plated brass
- not insulated



Art. No.	CSS	W	plug	PU	PrU	EUR
280110	0,5 - 1,0	6,3	6,3x0,8	200	100	9,05
280114	1 - 2,5	6,3	6,3x0,8	200	100	9,07

Socket sleeves (male) with latching tongue

- bare brass
- not insulated



Art. No.	CSS	W	plug	PU	PrU	EUR
280101	0,5 - 1,0	6,3	6,3x0,8	200	100	10,20
280105	1 - 2,5	6,3	6,3x0,8	200	100	21,80

Socket sleeves (male) with latching tongue

- tin-plated brass
- not insulated



Art. No.	CSS	W	plug	PU	PrU	EUR
280111	0,5 - 1,0	6,3	6,3x0,8	200	100	10,09
280115	1 - 2,5	6,3	6,3x0,8	200	100	12,18

Ring terminals

- bare brass
- not insulated



Art. No.	CSS	M	W	PU	PrU	EUR
280120	0,5 - 1,0	3	8	200	100	11,27
280124		4	8	200	100	7,37
280128		5	9,5	200	100	9,52
280132	1 - 2,5	3	8	200	100	12,85
280136		4	8	200	100	7,46
280140		5	9,5	200	100	9,98

Ring terminals

- tin-plated brass
- not insulated



Art. No.	CSS	M	W	PU	PrU	EUR
280150	0,5 - 1,0	3	8	200	100	12,60
280154		4	8	200	100	7,85
280158		5	9,5	200	100	10,99
280162	1 - 2,5	3	8	200	100	16,33
280166		4	8	200	100	7,85
280170		5	9,5	200	100	10,12

Socket sleeves (female), insulating sleeves, connectors**Flat terminals**

- bare brass
- not insulated



Art. No.	plug	Fo.	PU	PrU	EUR
280180	6,3x0,8	1	200	100	8,00
280182	6,3x0,8	5	200	100	12,42
280184	6,3x0,8	2	200	100	10,08
280186	6,3x0,8	4	200	100	19,19
280188	6,3x0,8	3	200	100	15,77

Flat terminals

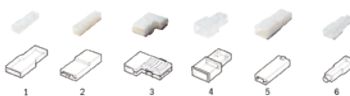
- tin-plated brass
- not insulated



Art. No.	plug	Fo.	PU	PrU	EUR
280190	6,3x0,8	1	200	100	7,51
280192	6,3x0,8	5	200	100	13,25
280194	6,3x0,8	2	200	100	10,72
280196	6,3x0,8	4	200	100	17,19
280198	6,3x0,8	3	200	100	15,15

Insulating sleeves

- of PVC and nylon



Art. No.	plug	Fo.		PU	PrU	EUR
280200	6,3x0,8	1	PVC	100	100	3,60
280202	6,3x0,8	2	Nylon	100	100	4,55
280204	4,8x0,8	6	PVC	100	100	3,63
280206	4,8x0,8	2	Nylon	100	100	6,18
280208	2,8x0,8	6	PVC	100	100	3,60
280210	2,8x0,8	5	Nylon	100	100	4,67
280212	6,3x0,8	4	PVC	100	100	4,55
280214	6,3x0,8	3	Nylon	100	100	9,93

Elastic connectors with socket sleeves (male)

- 1 - 12 pole, PVC, natural colour



Art. No.	plug	Fo.	PU	PrU	EUR
280460	2,8x0,8	1	100	100	154,68
280482	2,8x0,8	12	10	100	1.809,20
280490	4,8x0,8	1	100	100	104,56
280512	4,8x0,8	12	10	100	882,97
280520	6,3x0,8	1	100	100	110,39
280542	6,3x0,8	12	10	100	1.239,74
280550	2,8x0,8	1	100	100	165,67
280572	2,8x0,8	12	50	100	1.442,20

Elastic cable distributors

- PVC, natural colour



Art. No.	plug	Fo.	PU	PrU	EUR
280580	6,3x0,8	1	50	100	178,75
280582	6,3x0,8	2	50	100	200,32

Small packages**Socket sleeves (female) "SmallPack"**

- bare brass
- not insulated



Art. No.	CSS	W	plug	PU	PrU	EUR
280000/20	0,5 - 1	7,6	6,3x0,8	20	100	14,98
280004/20	1 - 2,5	7,6	6,3x0,8	20	100	16,01
280008/20	0,5 - 1,25	5,6	4,8x0,8	20	100	12,44

Socket sleeves (female) "SmallPack" with branch

- bare brass, not insulated



Art. No.	CSS	W	plug	PU	PrU	EUR
280084/20	1 - 2,5	7,6	6,3x0,8	20	100	24,49

Flat terminals "SmallPack"

- bare brass
- not insulated



Art. No.	CSS	W	plug	PU	PrU	EUR
280100/20	0,5 - 1,0	6,3	6,3x0,8	20	100	14,62
280104/20	1 - 2,5	6,3	6,3x0,8	20	100	13,83

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Solderless terminals

Crimp ring terminals without insulation DIN 46234

- Material: 99,9% electrolytic copper
- Surface: tin-plated
- Ring type



Art. No.	CSS	M	W	PU	PrU	EUR
290619	0,5 - 1,0	2,5	8	100	100	6,73
290620 *		3	8	100	100	5,66
290621		3,5	8	100	100	6,04
290622		4	8	100	100	6,43
290624		5	8	100	100	7,17
290623 *		6	10	100	100	8,28
290625		8	14	100	100	11,67
290617		10	14	100	100	15,48
290626	1,5 - 2,5	3	8	100	100	6,29
290627		3,5	8	100	100	6,15
290628		4	8	100	100	6,86
290630 *		5	10	100	100	8,06
290632 *		6	11	100	100	8,79
290634		8	15	100	100	11,36
290635		10	15	100	100	14,63
290636	4 - 6,0	4	8	100	100	10,73
290637		3,5	8	100	100	10,69
290646 *		5	10	100	100	15,59
290648 *		6	11	100	100	16,42
290650		8	14	100	100	19,34
290652		10	18	100	100	23,15
290654		12	18	100	100	28,21
290656	10	5	10	100	100	22,21
290658 *		6	11	100	100	24,26
290660		8	14	100	100	27,72
290662		10	18	100	100	32,27
290663		12	22	100	100	40,55
290664	16	5	10	100	100	52,26
290666		6	11	100	100	34,64
290668 *		8	14	100	100	37,24
290670		10	18	100	100	41,72
290672		12	22	100	100	46,81
290676	25	6	12	50	100	57,80
290678 *		8	16	50	100	62,32
290680		10	18	50	100	66,80
290682		12	22	50	100	81,80
290684		16	28	50	100	105,06
290686 *	35	8	16	50	100	84,81
290688		10	18	50	100	84,81
290690		12	22	50	100	103,58
290692		16	28	50	100	155,00
290694	50	8	18	40	100	133,59
290696 *		10	18	40	100	130,59
290698		12	22	40	100	150,09
290700		16	28	25	100	192,21
290701	70	8	22	25	100	199,05
290702 *		10	22	25	100	199,14
290704		12	22	20	100	209,37
290707	95	8	24	20	100	312,96
290708 *		10	24	20	100	309,21
290710 *		12	24	20	100	303,96
290712		16	28	20	100	471,38
290713 *	120	10	24	25	100	435,04
290714 *		12	24	25	100	435,24
290716		16	28	25	100	505,60
290717		20	32	25	100	682,68
290719	150	10	30	25	100	576,35
290721 *		12	30	25	100	573,54
290718		16	30	25	100	702,33
290720 *	185	16	36	10	100	845,45

Insulated crimp cable lugs

- Nylon-insulated
- Ring type



Art. No.	CSS	M	PU	PrU	EUR
260902	10	5	100	100	36,00
260904 *		6	100	100	36,95
260906		8	100	100	39,69
260908		10	100	100	43,89
260910		12	100	100	52,17
260912	16	5	100	100	48,18
260914		6	100	100	49,29
260916 *		8	100	100	52,89
260918		10	100	100	61,09
260920		12	100	100	70,85
260922	25	5	100	100	78,03
260924		6	100	100	79,73
260926 *		8	100	100	81,85
260928		10	100	100	87,39
260930		12	100	100	99,26
260932		16	100	100	119,61
260934	35	6	100	100	86,38
260936 *		8	100	100	111,11
260938		10	100	100	111,98
260940		12	100	100	126,39
260942		16	100	100	147,19
260944	50	6	50	100	138,04
260946 *		8	50	100	138,04
260948		10	50	100	172,56
260950		12	50	100	186,98
260952		16	50	100	235,70
260954	70	6	50	100	227,25
260956		8	50	100	227,48
260960		12	50	100	297,06
260962		16	50	100	237,62
260964 *	95	8	50	100	394,12
260966		10	50	100	315,29
260968		12	50	100	315,29
260970		16	50	100	315,60
260972	120	8	25	100	479,75
260974 *		10	25	100	623,76
260976		12	25	100	479,12
260978		16	25	100	590,56
260980	150	10	25	100	599,58
260982		12	25	100	599,39
260984		16	25	100	599,39

Solderless terminals for meter connection

- Nylon-insulated
- Fork type



Art. No.	CSS	M	PU	PrU	EUR
260858	10	5	50	100	114,47
260860 *		6	50	100	111,18
260862	16	6	50	100	169,90
260863 *		8	50	100	170,12

Fork terminals without insulation

- Material: 99,9% electrolytic copper
- Surface: tin-plated
- Fork type



Art. No.	CSS	M	W	PU	PrU	EUR
290730 *	0,5 - 1,0	3	5,6	100	100	7,25
290731		3,5	6,5	100	100	7,25
290732		4	6,4	100	100	7,41
290734		5	8	100	100	9,32
290735		6	9,2	100	100	10,36
290736	1,5 - 2,5	3	5,6	100	100	10,63
290739		3,5	6,6	100	100	9,45
290738 *		4	6,6	100	100	8,11
290740		5	9,1	100	100	9,77
290742		6	10	100	100	10,97
290744	4 - 6,0	4	8	100	100	12,57
290746		5	9	100	100	11,83
290748 *		6	11	100	100	14,84
290750		8	15,2	100	100	18,84
290751		10	19	100	100	29,84
290752	10	5	9	100	100	53,58
290754 *		6	10,3	100	100	58,85
290756 *	16	6	11	100	100	77,66

Pin terminals without insulation DIN 46230

- Material: 99,9% electrolytic copper
- Surface: tin-plated
- Pin type



Art. No.	CSS	W	M	PU	PrU	EUR
290770 *	0,5 - 1,0	1,8	12	100	100	9,34
290771		1,8	9	100	100	26,12
290773 *	1,5 - 2,5	1,8	12	100	100	10,05
290775		1,8	9	100	100	10,05
290777	4 - 6,0	2,6	12,5	100	100	18,59
290776	10	4	14	100	100	42,53
290778 *	16	4,5	14	100	100	77,16
290780 *	25	7	15	100	100	155,04
290782	35	8	20	100	100	230,21
290784	50	9,5	20	100	100	303,31
290786	70	11,5	25	50	100	506,94
290788	95	13,5	25	50	100	684,56

Parallel connectors DIN 46341 part 1, type A **Cu**

- Material: 99,9% electrolytic copper
- Surface: tin-plated



Art. No.	CSS	↔	PU	PrU	EUR
291090 *	0,5 - 1,0	7	100	100	9,84
291092	1,5 - 2,5	7	100	100	11,25
291096	4 - 6	7	100	100	13,45
291098 *	10	9	100	100	20,23
291100	16	10	100	100	28,64
291102	25	13	100	100	46,79
291104	35	16	50	100	67,51
291106	50	19	50	100	107,31
291108	70	19	50	100	143,30
291110	95	20	25	100	179,32
291112	120	22	25	100	245,72
291114	150	26	20	100	299,18

Solderless butt connectors DIN 46341 part 1, type B **Cu**

- Material: 99,9% electrolytic copper
- Surface: tin-plated



Art. No.	CSS	↔	PU	PrU	EUR
291119 *	0,5 - 1,0	15	100	100	15,78
291120 *	1,5 - 2,5	15	100	100	15,82
291124 *	4 - 6	15	100	100	24,17
291126 *	10	21	100	100	35,51
291128 *	16	26	100	100	64,23
291130	25	29	50	100	86,99
291132	35	32	25	100	135,04
291134	50	48	25	100	270,98
291136	70	48	25	100	362,06
291138	95	48	25	100	400,16
291140	120	48	25	100	438,26
291142	150	48	20	100	476,37

Tubular terminals, Light "T" series **Cu** **light**

- Material: 99,9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated
- with sight hole



Art. No.	CSS	M	PU	PrU	EUR
294000	1,5	4	100	100	8,88
294002 *		5	100	100	8,88
294004		6	100	100	8,88
294006	2,5	4	100	100	9,47
294008 *		5	100	100	9,47
294010		6	100	100	9,47
294012		8	100	100	9,47
294014	4	4	100	100	13,06
294016 *		5	100	100	12,31
294018		6	100	100	12,49
294020		8	100	100	13,51
294022	6	4	100	100	19,02
294024 *		5	100	100	18,29
294026 *		6	100	100	17,21
294028		8	100	100	17,21

Art. No.	CSS	M	PU	PrU	EUR
294034	10	5	100	100	31,38
294036 *		6	100	100	30,06
294038 *		8	100	100	30,79
294040		10	100	100	26,41
294044	16	5	100	100	32,37
294046		6	100	100	35,35
294048 *		8	100	100	37,33
294050		10	100	100	34,64
294052		12	100	100	35,45
294054	25	6	50	100	60,60
294056 *		8	50	100	57,40
294058		10	50	100	58,33
294060 *		12	50	100	57,40
294062	35	6	50	100	95,26
294064 *		8	50	100	93,83
294066		10	50	100	96,27
294068		12	50	100	93,08
294070		14	50	100	95,81
294080	50	6	40	100	136,61
294082		8	40	100	132,59
294084 *		10	40	100	139,27
294086		12	40	100	131,00
294088		14	30	100	140,80
294094	70	8	25	100	198,59
294096 *		10	25	100	208,71
294098		12	25	100	198,14
294100		14	20	100	240,40
294102		16	20	100	230,17
294106	95	8	20	100	270,89
294108		10	20	100	264,07
294110 *		12	20	100	253,43
294112		14	15	100	303,06
294114		16	15	100	292,82
294118	120	10	10	100	502,01
294120 *		12	10	100	488,92
294122		14	10	100	481,47
294124		16	10	100	474,62
294128	150	10	10	100	593,35
294130 *		12	10	100	579,92
294132		14	10	100	572,35
294134		16	10	100	559,38
294138	185	10	10	100	832,31
294140		12	20	100	816,76
294142		14	20	100	808,04
294144		16	20	100	792,99
294150	240	12	10	100	990,27
294152		14	10	100	981,59
294154 *		16	10	100	966,71
294160	300	12	8	100	1.160,69
294162		14	8	100	1.152,04
294164		16	8	100	1.137,17
294174	400	16	5	100	1.658,87
294176		20	5	100	1.654,61
294184	500	16	3	100	3.029,32
294196	630	20	3	100	4.794,75

Butt connectors, Light "M" series **Cu** **light**

- Material: 99,9% electrolytic copper
- E-CU DIN 40500
- Surface: tin-plated



Art. No.	CSS	↔	PU	PrU	EUR
294200	1,5	22	200	100	11,89
294202	2,5	22	200	100	12,68
294204	4	25	100	100	17,06
294206	6	25	100	100	20,00
294208	10	25	100	100	31,65
294210	16	29	100	100	42,23
294212	25	29	50	100	56,28
294214	35	35	50	100	91,33
294218	50	35	40	100	112,06
294220	70	45	20	100	200,00
294222	95	47	20	100	240,25
294224	120	52	20	100	385,75
294226	150	59	20	100	471,38
294228	185	65	20	100	671,88
294230	240	75	10	100	869,32
294232	300	90	5	100	1.139,39
294234	400	106	5	100	1.774,48

Tubular cable lugs, standard series **Cu** **HUPtype**

available with and without sight hole e.g. 29 09 00/S

- Material: 99,9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated
- tubular



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Art. No.	CSS	M	PU	PrU	EUR
290900 *	0,75	3	100	100	24,67
290902		4	100	100	26,42
290904	1,5	3	100	100	24,53
290906 *		4	100	100	24,50
290908 *		5	100	100	18,66
290910		6	100	100	18,69
290912	2,5	3	100	100	26,82
290914		4	100	100	19,76
290916 *		5	100	100	19,77
290918		6	100	100	19,74
290920		8	100	100	37,05
290922	4	4	100	100	27,75
290924 *		5	100	100	30,80
290926 *		6	100	100	30,85
290928		8	100	100	36,56
290930	6	4	100	100	34,04
290932 *		5	100	100	42,80
290934 *		6	100	100	39,43
290936		8	100	100	44,90
290938	10	5	100	100	39,83
290940 *		6	100	100	38,99
290942 *		8	100	100	45,85
290944		10	100	100	50,05
290946		12	100	100	52,21
290948	16	5	100	100	67,09
290950		6	100	100	66,53
290952 *		8	100	100	71,72
290954		10	100	100	76,91
290956		12	100	100	80,84
290958	25	6	50	100	92,21
290960 *		8	50	100	99,37
290962		10	50	100	103,97
290964		12	50	100	102,24
290966	35	6	40	100	138,29
290968 *		8	40	100	149,44
290970		10	40	100	161,01
290972		12	40	100	157,86
290974		16	40	100	167,77
290976	50	6	40	100	223,00
290978 *		8	40	100	216,88
290980 *		10	25	100	228,76
290982		12	25	100	258,49
290984		16	25	100	246,31
290985	70	6	25	100	358,97
290986		8	25	100	328,32
290988 *		10	25	100	339,14
290990		12	25	100	345,28
290991		14	25	100	355,28
290992		16	25	100	363,47
290994	95	8	25	100	414,72
290996		10	25	100	406,09
290998 *		12	25	100	407,10
290999		14	15	100	419,51
291000		16	15	100	437,20
291002		20	15	100	488,75
290004	120	8	15	100	489,51
290006 *		10	15	100	481,01
290008 *		12	15	100	467,79
290009		14	18	100	470,75
290010		16	15	100	479,70
290012		20	15	100	562,08

Art. No.	CSS	M	PU	PrU	EUR
290014	150	10	15	100	567,11
290016 *		12	15	100	570,80
290017		14	15	100	558,24
290018		16	15	100	560,79
290020		20	12	100	644,82
290022 *	185	12	20	100	851,53
290023		14	20	100	837,52
290024 *		16	20	100	821,57
290026		20	20	100	869,71
290028 *	240	12	15	100	1.046,28
290029		14	15	100	1.032,93
290030 *		16	15	100	1.016,62
290034	300	12	8	100	1.697,09
290036		14	8	100	1.680,61
290038		16	8	100	1.661,65
290040		20	8	100	1.616,68
290046	400	16	5	100	2.309,39
290048		20	5	100	2.256,27
290041	500	16	6	100	5.051,74
290043		20	6	100	5.030,96
290045	625	16	3	100	5.361,70
290047		20	3	100	5.315,04

Angled tubular cable lugs 90°, standard series

- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated



Art. No.	CSS	M	PU	PrU	EUR
290932/90	6	5	100	100	60,96
290934/90		6	100	100	62,99
290936/90		8	100	100	66,44
290938/90	10	5	100	100	63,70
290940/90		6	100	100	68,49
290942/90		8	100	100	77,40
290944/90		10	100	100	76,71
290948/90	16	5	100	100	99,98
290950/90		6	100	100	114,36
290952/90		8	100	100	115,03
290954/90		10	100	100	117,09
290956/90		12	100	100	115,03
290958/90	25	6	50	100	128,76
290960/90		8	50	100	147,91
290962/90		10	50	100	148,62
290964/90		12	50	100	151,36
290966/90	35	6	40	100	209,56
290968/90		8	40	100	225,32
290970/90		10	40	100	234,22
290972/90		12	40	100	260,24
290976/90	50	6	40	100	346,54
290978/90		8	40	100	389,71
290980/90		10	25	100	390,36
290982/90		12	25	100	399,95
290986/90	70	8	25	100	491,75
290988/90 *		10	25	100	473,23
290990/90		12	25	100	476,67
290992/90		16	25	100	590,93
290994/90	95	8	25	100	556,12
290996/90		10	25	100	556,80
290998/90		12	25	100	590,32
291000/90		16	15	100	584,86
291002/90		20	15	100	663,64
290006/90	120	10	15	100	636,90
290008/90		12	15	100	636,90
290010/90		16	15	100	733,49
290014/90	150	10	15	100	895,80
290016/90		12	15	100	916,34
290018/90		16	15	100	910,87
290020/90		20	12	100	923,21
291004/90	185	10	20	100	1.141,66
290022/90		12	20	100	1.141,66
290024/90		16	20	100	1.141,66
290028/90	240	12	15	100	1.236,84
290030/90		16	15	100	1.243,72

Butt connectors, standard series

Cu **HUPtype**

- Material: 99.9% electrolytic copper E-CU DIN 40500
- Surface: tin-plated



Art. No.	CSS	W	PU	PrU	EUR
291050	0,75	14	100	100	26,19
291052	1,5	14	100	100	27,72
291054	2,5	16	100	100	31,22
291056	4	19	100	100	32,39
291058	6	19	100	100	41,30
291060	10	30	100	100	63,77
291062	16	35	50	100	81,34
291064	25	40	50	100	112,88
291066	35	45	50	100	178,62
291068	50	50	25	100	265,53
291070	70	55	25	100	390,26
291072	95	60	25	100	470,52
291074	120	65	15	100	558,28
291076	150	70	20	100	653,52
291078	185	80	5	100	951,56
291080	240	90	10	100	1.170,09
291082	300	100	5	100	1.759,28
291084	400	100	5	100	2.362,35

T-connectors, standard series

Cu **HUPtype**

- Material: 99.9% E-CU DIN 40500
- Annealed material
- Surface: tin-plated



Art. No.	CSS	W		PU	PrU	EUR
291330	1,5	12	30	25	100	360,07
291332	2,5	12	30	25	100	373,21
291334	4	12	30	25	100	505,53
291336	6	14	35	25	100	556,17
291338	10	14	35	25	100	886,25
291340	16	21	50	25	100	663,36
291342	25	23	55	25	100	930,89
291344	35	30	70	25	100	1.144,27
291348	50	34	80	25	100	1.209,16
291350	70	35	85	25	100	1.617,25
291352	95	36	90	25	100	2.172,73
291354	120	38	95	10	100	3.040,62
291356	150	44	110	10	100	4.181,05
291358	185	45	115	1	100	4.823,41
291360	240	52	130	1	100	6.835,53

Tubular cable lugs, nylon-insulated, standard series

Cu **Nylon**

- Material: 99.9% electrolytic copper
- Surface: tin-plated
- with sight hole
- Insulation: black



Art. No.	CSS	M	PU	PrU	EUR
290800	10	5	100	100	53,54
290801		6	100	100	53,68
290802		8	100	100	142,09
290804		10	50	100	61,82
290806	16	5	100	100	76,44
290810		6	50	100	77,56
290812		8	50	100	86,11
290814		10	50	100	91,76
290816		12	50	100	95,97
290818	25	6	25	100	107,64
290820		8	25	100	115,46
290822		10	25	100	122,34
290824		12	25	100	121,82
290826	35	6	25	100	150,14
290830		8	25	100	161,02
290832		10	25	100	176,64
290834		12	25	100	176,63
290836	50	6	25	100	231,43
290840		8	25	100	227,84
290842		10	25	100	245,41
290844		12	25	100	260,14
290846		14	20	100	274,48
290848	70	8	15	100	337,98
290850		10	15	100	351,24
290852		12	15	100	361,61
290854		14	15	100	374,42
290856		16	15	100	390,89
290858	95	8	25	100	423,76
290860		10	25	100	418,56
290862		12	25	100	426,53
290864		14	25	100	441,68
290866		16	25	100	462,01
290868	120	8	25	100	529,86
290870		10	25	100	576,00
290872		12	20	100	516,40
290874		14	20	100	518,51
290876		16	20	100	533,56
290878	150	10	20	100	741,13
290880		12	20	100	624,47
290882		14	20	100	693,17
290884		16	20	100	695,49
290886		20	20	100	808,97

HAUPA does not invoice metal surcharge!

Tubular cable lugs for fine-wired, high flexible conductors**Cu F-type**

- For fine stranded conductors, DIN VDE 60228 e.g. VDE 0295 class 5/6
- Material: 99.9% E-Cu DIN 40500
- Surface: tin-plated
- With inspection hole



Art. No.	CSS	M	PU	PrU	EUR
290250 *	10	6	100	100	74,71
290252		8	100	100	81,60
290254		10	100	100	81,60
290256		12	100	100	92,99
290258	16	6	100	100	103,93
290260 *		8	100	100	93,74
290262		10	100	100	114,07
290264		12	100	100	123,68
290266	25	6	50	100	155,62
290268 *		8	50	100	139,12
290270		10	50	100	161,34
290272		12	50	100	161,78
290276 *	35	8	40	100	201,62
290278		10	40	100	201,62
290280		12	40	100	217,48
290282	50	8	25	100	318,49
290284 *		10	25	100	293,29
290286 *		12	25	100	318,49
290288		16	25	100	318,49
290290	70	8	25	100	414,01
290292 *		10	25	100	375,20
290294		12	25	100	344,64
290296		16	25	100	324,38
290300	95	10	25	100	588,96
290302 *		12	25	100	575,95
290304		16	25	100	458,75
290306	120	10	20	100	626,93
290308 *		12	20	100	616,95
290310		16	18	100	579,14
290316 *	150	12	12	100	1.057,52
290318		16	12	100	821,54
290320		20	10	100	796,09
290322	185	12	20	100	1.003,00
290324		16	20	100	983,19
290326		20	15	100	957,61
290328 *	240	12	15	100	1.476,01
290330		16	15	100	1.194,94
290332		20	15	100	1.165,61
290334	300	12	8	100	2.068,79
290336		16	8	100	2.429,89
290338		20	8	100	1.758,11

Butt-connector for fine stranded high flexible conductors**Cu F-type**

- For fine stranded conductors, DIN VDE 60228 e.g. VDE 0295 class 5/6
- Material: 99.9% E-Cu DIN 40500
- Surface: tin-plated
- With buttmarks for precise cable insertion



Art. No.	CSS	↔	PU	PrU	EUR
290350	10	30	50	100	78,66
290352	16	35	50	100	104,20
290354	25	35	50	100	127,26
290356	35	35	25	100	180,30
290358	50	45	25	100	253,30
290360	70	45	25	100	343,31
290362	95	45	25	100	412,67
290364	120	55	25	100	547,82
290366	150	65	25	100	781,51
290368	185	70	18	100	810,20
290370	240	70	6	100	1.213,15
290372	300	75	6	100	1.348,01
290374	400	100	6	100	2.161,84

Pressing terminals and connectors**Cable lugs acc. to DIN 46235****Cu DIN**

- Material: 99.9% E-Cu DIN 40500
- Surface: bare



Art. No.	CSS	M	I/no.	PU	PrU	EUR
290001	6	5	5	100	100	45,50
290003		6	5	100	100	46,50
290005		8	5	100	100	48,01
290007	10	5	6	100	100	43,20
290011		6	6	100	100	43,09
290013		8	6	100	100	66,50
290015		10	6	100	100	85,84
290019	16	6	8	50	100	87,78
290021		8	8	50	100	91,09
290025		10	8	50	100	92,02
290027		12	8	50	100	92,49
290031	25	6	10	50	100	111,74
290033		8	10	50	100	113,97
290035		10	10	50	100	117,13
290037		12	10	50	100	115,29
290039	35	6	12	25	100	205,86
290042		8	12	15	100	214,17
290044		10	12	25	100	215,51
290049		12	12	25	100	217,24
290050	50	8	14	25	100	316,52
290051		10	14	25	100	318,64
290052		12	14	25	100	321,56
290053		16	14	20	100	321,40
290054	70	8	16	25	100	417,82
290055		10	16	25	100	421,27
290056		12	16	25	100	417,11
290057		16	16	20	100	500,09
290058	95	10	18	15	100	619,03
290059		12	18	15	100	615,41
290060		16	18	15	100	625,16
290061	120	10	20	20	100	765,86
290063		12	20	20	100	762,97
290064		16	20	20	100	1.002,93
290065		20	20	20	100	778,70
290066	150	10	22	15	100	1.107,21
290067		12	22	15	100	1.104,17
290068		16	22	15	100	1.131,78
290069		20	22	12	100	1.126,50

Art. No.	CSS	M	I/no.	PU	PrU	EUR
290070	185	10	25	10	100	1.278,34
290071		12	25	10	100	1.276,04
290072		16	25	10	100	1.280,28
290073		20	25	10	100	1.299,95
290074	240	12	28	8	100	1.805,66
290075		16	28	8	100	1.851,10
290076		20	28	8	100	2.155,89
290077	300	16	32	4	100	2.215,61
290078		20	32	4	100	2.222,56
290079	400	16	38	6	100	4.457,98
290080		20	38	6	100	4.408,96
290081	500	20	42	6	100	5.280,58
290082	625	20	44	1	100	5.845,21
290083	800	20	52	1	100	9.345,66
290084	1000	20	58	1	100	12.531,07

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

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



Art. No.	CSS	I/no.	↔	PU	PrU	EUR
291520	6	5	30	100	100	51,08
291522	10	6	30	100	100	66,55
291524	16	8	50	50	100	110,30
291526	25	10	50	50	100	132,36
291528	35	12	50	50	100	227,22
291530	50	14	55	25	100	314,46
291532	70	16	55	25	100	396,18
291534	95	18	70	15	100	617,16
291536	120	20	70	25	100	703,91
291538	150	22	80	15	100	1.052,52
291540	185	25	85	5	100	1.218,89
291542	240	28	90	10	100	1.677,41
291544	300	32	100	5	100	2.082,13
291546	400	38	150	8	100	5.280,78
291548	500	42	160	5	100	6.194,93
291550	625	44	160	1	100	5.767,56
291552	800	52	200	1	100	10.740,23
291554	1000	58	1000	1	100	13.885,89

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

- Material: 99.9% E-Cu DIN 40500
- Surface: bare
- With marks for correct crimping
- Annealed material for easier crimping
- For full-tension cable connections
- Overhead line construction



Art. No.	CSS	I/no.	↔	PU	PrU	EUR
291440	6	6	65	50	100	208,03
291442	10	8	80	50	100	216,33
291444	16	8	95	50	100	205,11
291446	25	10	95	50	100	213,26
291448	35	12	95	25	100	400,31
291450	50	14	110	25	100	522,80
291452	70	16	110	25	100	657,58
291454	95	20	145	10	100	2.002,72
291456	120	22	160	10	100	2.571,64
291458	150	25	180	10	100	3.422,38
291460	185	32	260	5	100	8.332,76
291462	240	34	310	5	100	13.390,07
291464	300	38	360	5	100	16.120,60

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Cable lugs acc. to DIN 46235

Cu **DIN**

- Material: 99,9% electrolytic copper
- Surface: tin-plated



Art. No.	CSS	M	I/no.	PU	PrU	EUR
290404 *	6	6	5	100	100	47,95
290406		8	5	100	100	49,41
290408	10	5	6	100	100	44,43
290410 *		6	6	100	100	44,48
290412 *		8	6	100	100	68,49
290414		10	6	100	100	88,43
290416	16	6	8	50	100	87,78
290418 *		8	8	50	100	91,09
290420		10	8	50	100	92,02
290422		12	8	50	100	95,71
290424	25	6	10	50	100	111,74
290426 *		8	10	50	100	113,97
290428		10	10	50	100	117,13
290430		12	10	50	100	115,29
290432	35	6	12	25	100	205,86
290434 *		8	12	25	100	214,17
290436		10	12	25	100	215,51
290438		12	12	25	100	217,24
290440	50	8	14	25	100	316,52
290442 *		10	14	25	100	318,64
290444		12	14	25	100	321,56
290446		16	14	20	100	321,40
290448	70	8	16	25	100	417,82
290450 *		10	16	25	100	421,27
290452		12	16	25	100	417,11
290454		16	16	20	100	425,19
290456 *	95	10	18	15	100	619,03
290458 *		12	18	15	100	615,41
290460		16	18	15	100	625,16
290462	120	10	20	20	100	765,86
290464 *		12	20	20	100	762,97
290466		16	20	20	100	777,02
290468		20	20	15	100	778,70
290470	150	10	22	15	100	1.107,21
290472 *		12	22	15	100	1.104,17
290474		16	22	15	100	1.131,78
290476		20	22	15	100	1.126,50
290478	185	10	25	10	100	1.278,34
290480 *		12	25	10	100	1.276,04
290482 *		16	25	10	100	1.280,28
290484		20	25	10	100	1.299,95
290486 *	240	12	28	8	100	1.805,66
290488 *		16	28	8	100	1.851,10
290490		20	28	8	100	1.843,27
290492	300	16	32	5	100	2.215,61
290494		20	32	5	100	2.222,56
290496	400	16	38	3	100	4.457,98
290498		20	38	1	100	4.408,96
290516	500	20	42	1	100	5.280,58
290518	625	20	44	1	100	5.407,07
290520	800	20	52	1	100	9.345,66
290522	1000	20	58	1	100	12.531,07

Cable lugs "SmallPack" acc. to DIN 46235

- Material: 99,9% electrolytic copper
- Surface: tin-plated



Art. No.	CSS	M	I/no.	PU	PrU	EUR
290404/10	6	6	5	10	100	69,31
290406/10		8	5	10	100	70,72
290410/10	10	6	6	10	100	63,18
290412/10		8	6	10	100	95,33
290416/10	16	6	8	10	100	99,48
290418/10		8	8	10	100	102,81
290420/10		10	8	10	100	103,75
290426/10	25	8	10	10	100	125,71
290428/10		10	10	10	100	128,89
290434/10	35	8	12	10	100	226,00
290436/10		10	12	10	100	227,31

Sleeves for round compacted conductors DIN

for multiple-wire, thinned, compacted conductors
(e.g. VDE 0295 Kl. 2)



Art. No.	CSS	PU	PrU	EUR
290561	16	100	100	20,30
290562	25	100	100	22,34
290563	35	100	100	24,31
290564	50	50	100	28,40
290565	70	50	100	30,44
290566	95	50	100	32,51
290567	120	50	100	36,52
290568	150	25	100	40,62
290569	185	25	100	52,74
290570	240	25	100	177,49
290571	300	5	100	437,85
290572	400	5	100	624,66

Angled cable lugs 90° acc. to DIN 46325

Cu **DIN**

- Material: 99,9% E-Cu DIN 40500
- Tube dimension acc. to DIN 46235
- Surface: tin-plated



Art. No.	CSS	M	I/no.	PU	PrU	EUR
291700	6	5	5	100	100	87,15
291702 *		6	5	100	100	87,58
291704	10	5	6	100	100	86,54
291706		6	6	100	100	86,51
291708		8	6	100	100	86,61
291710	16	6	8	50	100	114,06
291712 *		8	8	50	100	117,75
291714		10	8	50	100	118,81
291716		12	8	50	100	119,32
291718	25	6	10	50	100	143,66
291720 *		8	10	50	100	145,96
291722		10	10	50	100	149,47
291724		12	10	50	100	147,45
291726 *	35	8	12	25	100	257,50
291728		10	12	25	100	259,07
291730		12	12	25	100	260,95
291732	50	8	14	25	100	379,80
291734 *		10	14	20	100	382,36
291736		12	14	20	100	385,90
291738		16	14	20	100	385,63
291740	70	8	16	30	100	501,39
291742 *		10	16	30	100	505,56
291744		12	16	15	100	500,54
291746		16	16	30	100	510,20
291748	95	10	18	10	100	742,79
291750		12	18	10	100	738,49
291752		16	18	10	100	750,21
291754	120	10	20	20	100	918,99
291756 *		12	20	20	100	915,55
291758		16	20	20	100	932,40
291760		20	20	15	100	934,44
291762	150	10	22	15	100	1.328,65
291764 *		12	22	15	100	1.325,03
291766		16	22	15	100	1.358,11
291768		20	22	10	100	1.351,82
291770	185	10	25	10	100	1.534,02
291772		12	25	10	100	1.531,24
291774		16	25	10	100	1.536,34
291776		20	25	10	100	1.559,93
291778	240	12	28	10	100	2.166,81
291780		16	28	10	100	2.221,34
291782		20	28	10	100	2.211,91

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

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



Art. No.	CSS	I/no.	PU	PrU	EUR
291521	6	5	30	100	51,08
291523	10	6	30	100	66,55
291525	16	8	50	100	110,30
291527	25	10	50	100	132,36
291529	35	12	50	100	227,22
291531	50	14	55	25	314,46
291533	70	16	55	25	396,18
291535	95	18	70	25	617,16
291537	120	20	70	25	703,91
291539	150	22	80	15	1.052,52
291541	185	25	85	5	1.218,89
291543	240	28	90	10	1.677,41
291545	300	32	100	5	2.082,13
291547	400	38	150	8	5.280,78
291549	500	42	160	5	6.194,93
291551	625	44	160	1	5.767,56
291553	800	52	200	1	10.740,23
291555	1000	58	1000	1	13.885,89

Nickel terminals**Tubular cable lugs of pure nickel, ring type****Ni**

- Material: nickel
- temperature resistant to 500° C



Art. No.	CSS	M	PU	PrU	EUR
292560	0,5	4	100	100	264,83
292562		5	100	100	278,36
292564	1,5	4	100	100	275,64
292566		5	100	100	288,68
292568		6	100	100	305,75
292570	4	4	100	100	388,44
292572		5	100	100	397,58
292574		6	100	100	414,66

Tubular terminals of pure nickel, forke type**Ni**

- Material: nickel
- temperature resistant to 500° C



Art. No.	CSS	M	PU	PrU	EUR
292580	0,5-1,0	4	100	100	257,56
292582		5	100	100	264,16
292584	1,5-2,5	4	100	100	268,21
292586		5	100	100	273,96
292588		6	100	100	290,20
292590	4-6,0	4	100	100	368,67
292592		5	100	100	377,28

Butt-connectors, made from pure nickel**Ni**

- Material: nickel
- temperature resistant to 500° C



Art. No.	CSS		PU	PrU	EUR
292596	0,5 - 1	15	100	100	220,18
292598	1,5 - 2,5	15	100	100	235,24
292600	4 - 6	15	100	100	291,21

Pressing terminals and connectors**Aluminium tubular cable lugs, standard series****Al**

- Material: E-Al 99,5%
- Surface: bare
- including contact grease



Art. No.	CSS	M	PU	PrU	EUR
294500	16	6	50	100	13,73
294502		8	50	100	13,73
294504		10	50	100	13,73
294506	25	6	50	100	19,47
294508		8	50	100	19,47
294510		10	50	100	19,47
294512	35	8	50	100	25,79
294514		10	50	100	25,79
294516	50	8	50	100	39,56
294518		10	50	100	39,56
294520		12	50	100	39,56
294522		16	50	100	39,56
294524	70	8	50	100	50,20
294526		10	50	100	50,20
294528		12	50	100	50,20
294530		16	50	100	50,20
294532	95	10	20	100	59,61
294534		12	20	100	59,61
294536		16	20	100	59,61
294538	120	8	20	100	82,17
294540		10	20	100	82,17
294542		12	20	100	82,17
294544		14	20	100	82,17
294546	150	8	20	100	108,00
294548		10	20	100	108,00
294550		12	20	100	108,00
294552		16	20	100	108,00
294554	185	8	20	100	130,91
294556		10	20	100	130,91
294558		12	20	100	130,91
294560		16	20	100	130,91
294562	240	8	20	100	221,33
294564		10	20	100	221,33
294566		12	20	100	221,33
294568		14	20	100	221,33
294570		16	20	100	221,33

Butt-connectors, made from pure nickel**Al**

- Material: nickel
- temperature resistant to 500° C



Art. No.	CSS	PU	PrU	EUR
294580	16	50	100	14,80
294582	25	50	100	19,83
294584	35	50	100	27,49
294586	50	50	100	42,38
294588	70	50	100	54,85
294590	95	20	100	72,31
294592	120	20	100	90,36
294594	150	20	100	124,06
294596	185	20	100	150,96
294598	240	20	100	244,77

Al compression cable lugs**Al** **DIN**

- Material: Al 99,5%
- Surface: bare
- Al-cables DIN 48201, part 1 and DIN EN 50182
- Pre-rounded sm/se sector shaped conductors



Art. No.	CSS	M	I/no.	PU	PrU	EUR
292904 *	16	8	12	50	100	60,14
292906		10	12	50	100	59,57
292908 *	25	8	12	50	100	61,01
292910		10	12	50	100	60,53
292912 *	35	10	14	50	100	82,12
292914		12	14	50	100	81,26
292916 *	50	10	16	50	100	102,34
292918		12	16	50	100	101,44
292920 *	70	10	18	40	100	147,17
292922		12	18	40	100	146,07
292924	95	10	22	25	100	205,10
292926 *		12	22	30	100	203,75
292928		16	22	25	100	207,13
292930 *	120	12	22	25	100	240,40
292932		16	22	25	100	237,74
292934 *	150	12	25	20	100	285,14
292936		16	25	20	100	282,14
292938		20	25	20	100	283,62
292940 *	185	12	28	15	100	364,47
292942		16	28	15	100	361,02
292944		20	28	15	100	368,42
292946 *	240	12	32	10	100	505,98
292948		16	32	12	100	502,21
292950		20	32	10	100	497,43

Al compression cable lugs acc. to **AI** **DIN** DIN 46329

- Article number for tin-plated version e.g. 29 27 70/VZ
- Material: Al conductor, design according to DIN 48201
 - extruded version
 - Surface: bare



Art. No.	CSS	M	I/no.	PU	PrU	EUR
292770	35	10	14	50	100	108,58
292772		12	14	50	100	107,54
292774	50	10	16	50	100	133,12
292776		12	16	50	100	132,06
292778	70	10	18	25	100	190,72
292780		12	18	25	100	190,86
292782	95	10	22	25	100	251,67
292784		12	22	25	100	250,46
292786	120	12	22	25	100	306,46
292788		16	22	25	100	303,59
292790	150	10	25	25	100	357,80
292792		12	25	25	100	356,26
292794		16	25	20	100	353,22
292796	185	10	28	20	100	459,24
292798		12	28	20	100	457,72
292800		16	28	20	100	454,72
292802	240	12	32	10	100	652,73
292804		16	32	10	100	648,50
292806		20	32	10	100	643,90
292808	300	12	34	10	100	779,86
292810		16	34	10	100	2.226,67
292812		20	34	10	100	768,57
292814	400	12	38	10	100	1.005,92
292816		16	38	10	100	1.000,48
292818		20	38	10	100	993,68
292820	500	12	44	6	100	1.378,72
292822		16	44	6	100	1.372,97
292824		20	44	6	100	1.372,97

Al-Crimp connector DIN 46267 **AI** **DIN** Part 2

- Material: Al 99,5%
- Surface: bare
- Design with oil stop
- Manufactured DIN 46267, part 2
- for non-tension connections



Art. No.	CSS	I/no.	PU	PrU	EUR
293542	25	70	100	100	51,74
293544	35	85	100	100	75,01
293546	50	85	50	100	88,18
293548	70	105	50	100	144,09
293550	95	105	25	100	197,28
293552	120	105	25	100	200,50
293554	150	125	25	100	263,56
293556	185	125	20	100	361,61
293558	240	145	15	100	484,86

Al and Cu cable lugs, longitudinally **Al.Cu** **DIN** sealed

- Material: Al 99,5% / E-Cu 99,9%
- Surface: bare
- With marking for correct crimping
- Barrier design with oil stop
- For pre-rounded sector shaped conductors
- For non-tension connections15



Art. No.	CSS	M	I/no.	PU	PrU	EUR
293300	25	8	12	50	100	454,20
293302		10	12	50	100	454,20
293304		12	12	50	100	2.442,49
293306	35	10	14	50	100	497,81
293308		12	14	50	100	498,15
293310	50	10	16	50	100	497,78
293312		12	16	50	100	497,83
293314	70	10	18	50	100	532,94
293316		12	18	50	100	532,84
293318	95	12	22	25	100	829,88
293320		16	22	25	100	828,41
293322	120	12	22	25	100	871,57
293324		16	22	25	100	871,57
293326	150	12	25	25	100	873,76
293328		16	25	25	100	871,56
293330	185	12	28	10	100	1.383,61
293332		16	28	10	100	1.382,43
293334	240	12	32	5	100	1.399,48
293336		20	32	5	100	1.397,27
293338	300	12	34	5	100	1.621,84

Al/Cu non-tension compression **Al.Cu** **DIN** joints with Cu bolt

- Material: Al 99,5% E-Cu 99,9%
- Surface: bare
- For non-tension connections



Art. No.	CSS	ØBo.	I/no.	PU	PrU	EUR
293960	25	6	58	1	100	2.725,97
293962	35	7	71	1	100	3.120,41
293964	50	8	74	1	100	3.199,31
293966	70	10	87	1	100	3.357,08
293968	95	12	91	1	100	4.549,14
293970	120	12	97	1	100	5.044,38
293972	150	12	108	1	100	5.206,55
293974	185	14	116	1	100	6.310,96
293976	240	16	128	1	100	8.537,32
293978	300	18	131	1	100	10.943,39

Al-Cu reducing connectors **Al.Cu** **DIN**

- for connections with tension relief of Al/Cu conductors to DIN 28201
- Material: Al 99,5%, DIN 40501, E-Cu DIN 40500
- Surface: bare pickled



Art. No.	CSS	Cu	I/no.	PU	PrU	EUR
293578	25	16	61	10	100	2.764,82
293582	35	16	71	10	100	2.927,45
293584		25	71	10	100	3.217,43
293598	50	25	71,5	10	100	3.557,74
293600		35	71,5	10	100	2.972,87
293606	70	25	79	10	100	2.945,23
293608		35	79	10	100	3.364,01
293610		50	85	10	100	3.924,13
293622	95	35	79	5	100	4.240,29
293624		50	85	5	100	4.030,21
293626		70	87	5	100	3.269,43
293634	120	50	87	5	100	4.902,56
293636		70	89	5	100	4.340,34
293638		95	97	5	100	5.093,68
293652	150	95	107,5	5	100	5.781,18
293654		120	107,5	5	100	3.948,72
293656		150	124	5	100	6.466,30
293664	185	185	108	5	100	6.936,08
293666		150	113	5	100	6.292,88
293678	240	150	124	5	100	9.331,18
293680		185	127	5	100	7.018,21
293688	300	185	128	5	100	11.862,71
293690		240	128	5	100	9.702,84

Cupul washer **Al.Cu**

Compound material made from aluminium and copper



Art. No.	Ø	ST	PU	PrU	EUR
293810	10	1,5	50	100	239,64
293812	12	2	50	100	360,47
293814	14	2	50	100	1.095,71
293816	16	2	50	100	593,15

Screw terminals 10 - 30 KV

AL screw terminals medium voltage 10-30 KV **AI**

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



Art. No.	CSS	M	→	PU	PrU	EUR
293140	16-95	12	60	1	100	1.414,09
293142	50-150	12	79	1	100	1.861,78
293144		16	79	1	100	1.861,78
293146	95-240	12	95	1	100	2.754,18
293148		16	95	1	100	2.754,18
293150	120-300	12	100	1	100	3.357,06
293152		16	100	1	100	3.357,06
293154	185-400	12	115	1	100	4.764,06
293156		16	115	1	100	4.764,06

AL screw connectors medium voltage **AI**

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



Art. No.	CSS	→	PU	PrU	EUR
293130	16-95	70	1	100	1.431,70
293132	50-150	85	1	100	2.213,64
293134	95-240	120	1	100	3.304,89
293136	120-300	142	1	100	4.283,34
293138	185-400	170	1	100	7.052,05

Safety tools

Alignment tool, 3/8" for sector conductor 1000 V



Art. No.	mm²	kg	PU	EUR
110704	95 - 150	0,068	1	138,32
110705	185 - 240	0,088	1	211,14

Universal alignment tool for sector conductor 1000 V

50, 70, 95, 150, 185, 240 mm²



1000 V IEC 60900



Art. No.	kg	PU	EUR
110709	1,051	1	277,99

Counterholder 1000 V for Screw cable shoes



Art. No.	mm	→	kg	PU	EUR
120101	0 - 15	240	0,680	1	156,38
120103	15 - 40	220	0,424	1	181,85
120104	25 - 50	300	0,680	1	440,28

Assortments

Tubular cable lugs assortment standard

Contents: 380 crimping terminals, crimping pliers (art. no. 210805), crimp standard 6 - 50 mm², hexagon crimping, in plastic bulk storage chest 415 x 335 x 90 mm



Art. No.	set	kg	PU	EUR
290380	380	6,000	1	461,74

Tubular cable lugs assortment DIN 46235

Contents: 380 crimping terminals, crimping pliers (art. no. 210805K), crimp DIN 6 - 50 mm², hexagon crimping, in plastic bulk storage chest 415 x 335 x 90 mm



Art. No.	set	kg	PU	EUR
290382	380	6,600	1	493,57

SysCon cable lugs DIN & 210805 K

Contents: 380 cable lugs DIN 46235, tinned
220370 ABS plastic box "SysCon S"
2 x 220376 Foam "SysCon" 400 x 300 x 15 mm
500270 Foam for sets 160 x 400 mm
210805 K Crimping pliers hexagonal crimping 6 - 50 mm²



Art. No.	set	kg	PU	EUR
220385	380	4,300	1	641,58

SysCon cable lugs standard & 210805

Contents: 380 cable lugs standard, tinned
220370 ABS plastic box "SysCon S"
2 x 220376 Foam "SysCon" 400 x 300 x 15 mm
500270 Foam for sets 160 x 400 mm
210805 Crimping plier hexagonal crimping 6 - 50 mm²



Art. No.	set	kg	PU	EUR
220386	380	4,300	1	610,14

SysCon cable lugs DIN 46235

Contents: 389 cable lugs DIN/standard, tinned
220370 ABS plastic box "SysCon S"
2 x 220376 Foam "SysCon" 400 x 300 x 15 mm



Art. No.	set	kg	PU	EUR
220387	389	4,300	1	807,56

SysCon cable lugs standard

Contents: 389 cable lugs DIN/standard, tinned
220370 ABS plastic box "SysCon S"
2 x 220376 Foam "SysCon" 400 x 300 x 15 mm



Art. No.	set	kg	PU	EUR
220388	389	4,300	1	625,97

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... convincing solutions

Cable ties

Cable ties

material: nylon, colour natural, -40° to +85° C



Art. No.	W	PU	PrU	EUR
262500/1	75 2,4 15 80	100	100	0,75
262500	96 2,5 23 80	100	100	0,80
262502 *	100 2,5 25 80	100	100	0,82
262504 *	142 2,5 35 80	100	100	1,57
262506 *	203 2,5 55 80	100	100	1,95
262508 *	142 3,2 35 180	100	100	1,98
262509/1	203 3,6 53 180	100	100	2,99
262510/1	250 3,6 68 180	100	100	3,35
262510 *	292 3,6 85 180	100	100	4,08
262512/1	120 4,8 27 220	100	100	2,16
262515	157 4,8 40 220	100	100	2,89
262512 *	188 4,8 54 220	100	100	3,73
262516 *	199 4,8 54 220	100	100	3,73
262518 *	250 4,8 68 220	100	100	5,49
262511/1	290 4,8 81 180	100	100	6,89
262520 *	302 4,8 84 220	100	100	6,66
262522 *	371 4,8 106 220	100	100	7,75
262523	430 4,8 125 220	100	100	9,29
262528	200 7,6 54 540	100	100	8,86
262530	290 7,6 82 540	100	100	12,17
262532 *	370 7,6 101 533	100	100	16,64
262534	450 7,6 130 540	50	100	25,55
262534/1	540 7,6 160 540	50	100	26,82
262536 *	425 8,8 115 790	50	100	26,05
262537	523 8,8 150 790	50	100	34,18
262538	610 8,8 180 790	50	100	37,90
262535	774 8,8 220 790	50	100	42,94
262540	800 8,8 235 790	20	100	47,26
262542	920 8,8 278 790	50	100	57,97
262543	1219 9,3 74 790	25	100	115,54
262545	246 12,4 64 1120	50	100	22,72
262546	550 12,7 166 1120	50	100	47,19
262547	1030 12,7 312 1120	100	100	89,64

Cable ties

material: nylon - colour black, -40° to +85° C, weather- and UV-resistant



Art. No.	W	PU	PrU	EUR
262600/1	75 2,4 15 80	100	100	0,90
262600	96 2,5 23 80	100	100	1,02
262602 *	100 2,5 25 80	100	100	0,93
262604 *	142 2,5 35 80	100	100	1,78
262606 *	203 2,5 55 80	100	100	2,22
262608 *	142 3,2 35 180	100	100	2,25
262609/1	203 3,6 53 180	100	100	3,41
262610 *	292 3,6 85 180	100	100	4,67
262610/1	250 3,6 68 180	100	100	3,86
262611/1	372 3,6 106 180	100	100	7,21
262616 *	203 4,6 52 220	100	100	4,28
262612/1	120 4,8 27 220	100	100	2,47
262615	157 4,8 40 220	100	100	3,35
262618 *	250 4,8 68 220	100	100	6,32
262620 *	302 4,8 84 220	100	100	7,61
262622 *	371 4,8 106 220	100	100	8,94
262623	430 4,8 125 220	100	100	10,67
262628	200 7,6 54 540	100	100	9,06
262630	290 7,6 82 540	100	100	14,02
262632 *	370 7,6 101 533	100	100	19,13
262634	450 7,6 130 540	50	100	29,35
262634/1	540 7,6 160 540	50	100	30,85
262636 *	425 8,8 115 800	50	100	29,95
262637	523 8,8 150 800	50	100	34,14
262638	610 8,8 180 800	50	100	41,79
262635	774 8,8 220 800	50	100	49,39
262640	800 8,8 235 800	20	100	54,40
262642	920 8,8 278 800	50	100	66,70
262643	1219 8,8 74 800	25	100	132,92
262645	246 12,4 64 1140	50	100	36,90
262646	550 12,7 166 1140	50	100	54,22
262647	1030 12,7 312 1140	20	100	103,13

Cable ties

material: polyamide 6,6 - colour natural, -40° to +85° C



Art. No.	W	PU	PrU	EUR
262100	100 2,5 23 80	100	100	2,62
262101	203 3,6 55 180	100	100	7,90
262102	142 3,2 35 180	100	100	4,81
262106	203 4,6 55 220	100	100	7,95
262108	310 4,8 89 220	100	100	14,19
262110	368 4,8 102 220	100	100	17,79
262114	380 7,6 110 550	50	100	27,33
262116	550 12,7 166 1120	50	100	68,03

Cable ties

material: polyamide 6,6 - colour black, -40° to +85° C



Art. No.	W	PU	PrU	EUR
262120	100 2,5 25 80	100	100	2,62
262122	142 3,2 35 180	100	100	4,81
262124	203 3,6 55 180	100	100	8,61
262126	199 4,8 54 220	100	100	8,01
262128	302 4,8 84 220	100	100	14,19
262130	368 4,8 102 220	100	100	17,79
262132	290 7,6 82 550	100	100	16,81
262134	370 7,6 106 550	50	100	28,93
262136	618 12,4 181 1120	50	100	80,49

Cable ties "Uvplus"

UV resistant, black, polyamide, 7 year guarantee



Art. No.	W	PU	PrU	EUR
262950	100 2,5 25 80	100	100	1,40
262952	202 2,5 50 80	100	100	3,04
262954	150 3,3 38 133	100	100	3,05
262956	201 3,6 52 133	100	100	4,47
262958	290 3,6 82 180	100	100	6,03
262960	199 4,8 50 220	100	100	5,67
262962	250 4,8 72 220	100	100	7,74
262964	290 4,8 83 220	100	100	8,27
262966	371 4,8 106 220	100	100	11,13
262968	290 7,6 82 540	100	100	18,74
262970	370 7,6 108 540	100	100	22,20
262972	542 7,6 162 540	100	100	27,23
262974	523 8,8 156 790	50	100	45,07
262976	709 8,8 213 790	50	100	66,54
262978	774 8,8 220 790	50	100	72,29
262980	920 8,8 279 790	50	100	76,22

Cable ties

material: nylon - colour natural, big packing unit 1000 pcs., -40° to +85° C



Art. No.	W	PU	PrU	EUR
262501	96 2,5 23 80	1000	100	0,90
262503	100 2,5 25 80	1000	100	0,93
262505	142 2,5 35 80	1000	100	1,47
262507	203 2,5 55 80	1000	100	1,80
262509	142 3,2 35 180	1000	100	1,94
262511	290 3,6 82 180	1000	100	4,12
262513	188 4,8 54 220	1000	100	3,65
262517	199 4,8 54 220	1000	100	4,25

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.	W	PU	PrU	EUR
263000	100 2,5 21 80	100	100	1,17
263004	200 2,5 55 80	100	100	2,74
263006	120 3,6 37 180	100	100	3,40
263008	160 4,6 40 220	100	100	6,42
263010	199 4,6 54 220	100	100	6,45
263012	371 4,6 106 220	100	100	13,44

"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.	W	PU	PrU	EUR
263022	160 2,5 21 80	100	100	2,87
263024	200 2,5 21 80	100	100	3,11
263026	199 4,6 54 220	100	100	6,07
263028	302 4,6 84 220	100	100	9,67
263030	370 7,6 106 540	100	100	25,05

Flame retardant cable ties

Material nylon 6/6, colour ivory, UL94V-0, for use in temperatures between -40°C and +85°C



Art. No.	W	PU	PrU	EUR
263050	100 2,5 21 80	100	100	1,60
263056	150 3,3 38 180	100	100	4,11
263064	371 4,6 106 220	100	100	17,69
263058	199 4,6 54 220	100	100	7,51
263066	370 7,6 106 540	100	100	22,64

HUP Impact 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.	W	PU	PrU	EUR
263100	199 4,6 54 220	100	100	7,59
263102	288 4,6 81 220	100	100	12,22
263104	302 4,6 84 220	100	100	12,22
263106	371 4,6 106 220	100	100	15,93
263108	290 7,5 82 540	100	100	25,02
263110	370 7,5 106 540	100	100	31,57
263112	774 8,7 220 790	100	100	87,85

HUPsecure cable ties

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



Art. No.		W		PU	PrU	EUR
263200	245	3,6	43	100	100	23,23
263204	295	3,6	60	100	100	24,42
263208	397	3,6	92	100	100	26,36

Releasable cable ties for frequent opening and closing

material: polyamide 6,6 - colour black, -40° to +85° C



Art. No.		W			PU	PrU	EUR
262140	150	7,6	33	220	100	100	13,40
262142	200	7,6	49	220	100	100	16,35
262144	300	7,6	80	220	100	100	29,81

Double-locking-cable ties

material: nylon - colour black, -40° to +85° C



Art. No.	 W	 H	 D	PU	PrU	EUR
262700	180 9	45	550	100	100	11,15
262702	300 9	88	550	100	100	20,66
262704	360 9	100	550	100	100	27,61
262710	300 9	88	550	100	100	66,86

Cable ties with fixing eye

material: nylon, colour natural, -40° to +85° C



Art. No.		W		PU	PrU	EUR
262820	100	2,5	25	80	100	3,40
262822	170	3,7	40	180	100	4,62
262824	170	3,7	40	180	100	11,36
262826 *	205	4,2	60	220	100	7,45
262828 *	300	4,8	85	220	100	13,76
262830	300	7,8	80	540	100	15,62
262832	370	4,8	102	220	100	18,92
262834	398	7,9	122	540	100	28,74

Cable ties with marking space

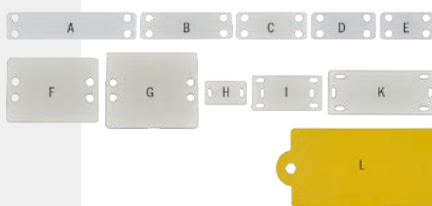
material: nylon, colour natural, -40° to +85° C



Art. No.		W		PU	PrU	EUR
262840		1	100 2,5	25 x 8 25	80 100 100	4,60
262842		4	130 2,5	28 x 20 25	80 100 100	5,13
262844		2	110 2,5	25 x 8 25	80 100 100	4,69
262846		3	200 4,6	28 x 13 50	220 100 100	10,36
262848		1	200 2,5	30 x 15 50	80 100 100	8,53
262850		3	270 4,6	28 x 13 75	220 100 100	21,07

Identification label for cable ties / marking cables

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



Art. No.		W	H		PU	PrU	EUR
262179	26	15	1,2	H	100	100	7,84
262180	42,2	21	1,2	I	100	100	6,50
262181	60,8	25	1,2	K	100	100	13,08
262182	62,2	51	1,3	G	100	100	19,78
262183	38,5	19	0,4	E	100	100	11,60
262184	45,3	19,1	0,4	D	100	100	12,21
262185	50,5	19,1	0,4	C	100	100	13,80
262186	65	19,1	0,4	B	100	100	17,28
262187	63,8	44,8	0,4	F	100	100	26,14
262188	90	19,1	0,4	A	100	100	24,06
262189	160	80	0,6	L	100	100	111,31

Labelling box

Material PE, for attaching using cable ties (widths up to 4.8mm)



Art. No.		W	H		PU	PrU	EUR
262190	11,5	32,6	3	1	100	100	30,09
262191	19,1	43,5	4,6	2	100	100	39,93

Self adhesive sockets



Art. No.	W	PU	PrU	EUR
262160 *	19	100	100	12,06
262161	19	100	100	12,06
262162 *	28	100	100	13,68
262163	28	100	100	16,93

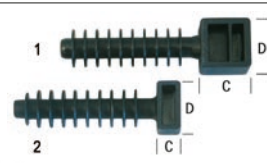
Screw type sockets



Art. No.		W	PU	PrU	EUR
262164 *	1,5	1	100	100	8,85
262165 *	1,5	1	100	100	8,85

Dowel Mounting sockets/Christmas trees

colour: black



Art. No.			W	PU	PrU	EUR
262170	1	37	10	100	100	11,50
262172	2	37	10	100	100	13,29

Tensioning tools for cable ties



Art. No.		W	kg	PU	EUR
262151 *	plastic	5	0,240	1	22,79
262152 *	metal	5	0,334	1	130,37
262153	metal	5	0,334	1	104,68
262154	metal	13	0,365	1	102,94
262158 *	metal	10	0,303	1	33,81

Hook-and-loop cable ties

made from extruded polyamide-velour laminate, Colours: black and green, Hook-and-loop cable ties with loop



Art. No.		W	PU	PrU	EUR
262750	125	12	20	100	45,58
262752	135	12	20	100	51,16
262754	180	12	20	100	60,44
262756	210	16	20	100	83,60
262758	310	16	20	100	124,15
262760	125	12	20	100	45,58
262762	135	12	20	100	51,16
262764	180	12	20	100	60,44
262768	310	16	20	100	124,15

Polyethene spiral binding

black, flame resistant



Art. No.		d1	kg	PU	EUR	
262034	2 m	8	18	0,141	1	9,45
262035	2 m	15	31	0,141	1	11,50
262036	2 m	20	43	0,141	1	14,22
262037	2 m	25	54	0,141	1	17,71

Steel cable ties, accessories

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

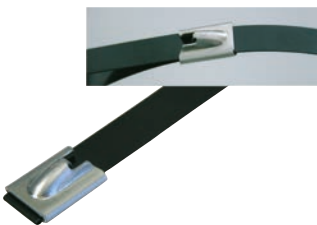
Material: Stainless steel 316 (V4A), ball fastener



Art. No.	W	H	W	PU	PrU	EUR
262940/125 *	125	4,5	22	440	100	38,12
262940/152 *	152	4,5	25	440	100	41,24
262940/200 *	200	4,5	50	440	100	46,77
262940/250 *	250	4,5	60	440	100	53,07
262940/300 *	300	4,5	75	440	100	58,86
262940/360 *	360	4,5	102	440	100	68,45
262940/520 *	520	4,5	152	440	100	91,48
262950/152	152	8	25	1100	50	67,36
262950/200	200	8	50	1100	50	77,60
262950/300	300	8	75	1100	50	98,11
262950/360	360	8	102	1100	50	113,62
262950/520	520	8	152	1100	25	150,99
262950/680	680	8	203	1100	25	185,17
262950/840	840	8	254	1100	25	221,47
262950/1050	1050	8	318	1100	25	248,52
262960/290	290	12	80	2670	25	204,15
262960/360	360	12	102	2670	25	236,08
262960/520	520	12	152	2670	25	304,89
262960/680	680	12	203	2670	25	373,17
262960/840	840	12	254	2670	25	442,29
262960/1000	1000	12	302	2670	25	511,93
262960/1200	1200	12	351	2670	25	604,68

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

Steel cable ties, epoxy resin coated, material: stainless steel 316 (V4A), ball fastener



Art. No.	W	H	W	PU	PrU	EUR
262942/125	125	4,5	22	440	100	104,57
262942/152	152	4,5	25	440	100	107,80
262942/200	200	4,5	50	440	100	145,80
262942/250	250	4,5	60	440	100	153,86
262942/300	300	4,5	75	440	100	181,62
262942/360	360	4,5	102	440	100	213,97
262942/520	520	4,5	152	440	100	314,34
262952/152	152	8	25	1100	50	143,67
262952/200	200	8	50	1100	50	158,03
262952/300	300	8	75	1100	50	254,82
262952/360	360	8	102	1100	50	276,60
262952/520	520	8	152	1100	50	397,09
262952/680	680	8	203	1100	50	467,67
262952/840	840	8	254	1100	50	563,26
262952/1050	1050	8	318	1100	25	688,64
262962/290	290	12	80	2670	25	424,07
262962/360	360	12	102	2670	25	468,11
262962/520	520	12	152	2670	25	635,76
262962/680	680	12	203	2670	25	750,47
262962/840	840	12	254	2670	25	870,16
262962/1000	1000	12	302	2670	25	1.020,79
262962/1200	1200	12	351	2670	25	1.173,64

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

Material: Stainless steel, 316 (V4A), with ratchet function



Art. No.	W	H	W	PU	PrU	EUR
262970/1100	1100	10	330	1960	10	589,72
262970/1315	1315	10	380	1960	10	658,94

Tensioning tools for steel cable ties



Art. No.	W	kg	PU	EUR
262159	12	0,560	1	206,34

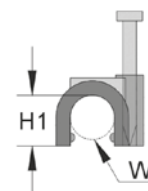
Nailing clips

Nailing clips for round cable



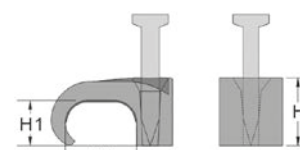
Art. No.	Ø	NL	PU	PrU	EUR
262200	transparent	2-3	15	100	3,76
262202	transparent	3-5	20	100	3,76
262204	pure white	3-5	15	100	3,76
262206	black	5-7	25	100	4,61
262208	transparent	5-7	20	100	3,99
262209	light-grey	5-7	35	100	5,00
262210	pure white	5-7	20	100	3,99
262212	black	7-10	25	100	5,30
262214	brown	7-10	25	100	5,30
262215	grey	7-10	35	100	5,55
262216	red	7-10	25	100	5,30
262218	pure white	7-10	25	100	4,50
262219	light-grey	8-12	35	100	11,50
262220	black	10-14	30	100	9,20
262222	pure white	10-14	35	100	7,83
262223	light-grey	10-14	44	100	9,02
262224	black	14-20	35	50	13,48
262226	pure white	14-20	40	50	11,53
262227	light-grey	14-20	44	50	11,85
262228	black	18-22	45	50	14,45
262230	pure white	18-22	38	50	12,42
262231	light-grey	18-22	45	50	17,82
262232	black	22-26	45	50	17,83
262234	pure white	22-26	38	50	16,00
262235	light-grey	22-26	38	50	12,57

ISO nailing clips



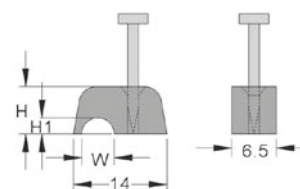
Art. No.	Ø	NL	PU	PrU	EUR
262264	light-grey	2,75	20	100	3,04
262266	light-grey	6,0	20	100	3,35
262268	light-grey	8,0	25	100	3,99
262270	light-grey	9,0	22	100	4,26
262272	light-grey	10,0	25	100	4,61
262274	light-grey	2,75	19	100	3,04
262276	light-grey	3,5	15	100	3,04
262278	light-grey	4,0	18	100	3,04
262280	light-grey	5,0	18	100	3,13
262282	light-grey	6,0	18	100	3,35
262284	light-grey	6,0	20	100	3,35
262286	light-grey	7,0	22	100	3,99
262288	light-grey	8,0	22	100	3,99
262290	light-grey	9,0	22	100	4,26
262292	light-grey	9,5	25	100	4,61
262294	light-grey	11,0	27	100	5,80
262296	light-grey	12,0	27	100	5,80
262298	light-grey	14,0	35	100	8,01
262300	light-grey	16,0	38	100	10,63
262302	light-grey	18,0	38	100	10,89
262304	light-grey	20,0	38	50	11,98
262306	light-grey	22,0	42	50	12,42
262308	light-grey	25,0	47	50	15,26
262310	light-grey	32,0	56	25	27,51

Nailing clips for flat cable



Art. No.	Ø	NL	PU	PrU	EUR
262236	transparent	2-4	15	100	3,76
262238	transparent	3-5	15	100	3,76
262240	transparent	4-6	15	100	3,92
262242	light-grey	5-8	25	100	4,35
262243	pure white	5-8	25	100	4,30
262244	light-grey	6-10	25	100	4,61
262245	pure white	6-10	25	100	4,61
262246	light-grey	7-14	25	100	5,88
262247	pure white	7-14	25	100	5,81
262248	light-grey	9-18	22	100	10,35
262249	pure white	9-18	22	100	8,01

Nailing clips for round cable



Art. No.	Ø	NL	PU	PrU	EUR
262254	light-grey	4,1	15	100	3,13
262256	light-grey	4,1	20	100	3,99
262258	light-grey	7,0	20	100	4,21
262260	light-grey	9,0	20	100	5,80
262262	light-grey	13,2	20	100	7,78

Cable glands polyamide IP68

Cable glands IP 68, metric or PG, assembled with washer and lock nut, fully mounted

metric or PG, assembled with washer and lock nut, fully mounted



Art. No.		M	WS	PU	PrU	EUR
250040	light-grey	M12	15	10	100	42,18
250042 *	light-grey	M16	19	10	100	48,74
250044 *	light-grey	M20	24	10	100	56,94
250046	light-grey	M20	27	10	100	61,01
250048	light-grey	M20	27	10	100	61,01
250050 *	light-grey	M25	30	10	100	90,24
250052	light-grey	M32	36	10	100	150,27
250054	light-grey	M40	46	5	100	280,54
250056	light-grey	M50	55	5	100	303,22
250058	light-grey	M63	66	5	100	324,58
250080	black	M12	15	10	100	42,18
250082	black	M16	19	10	100	48,74
250084	black	M20	24	10	100	56,94
250086	black	M20	27	10	100	61,01
250088	black	M20	27	10	100	61,01
250090	black	M25	30	10	100	90,24
250092	black	M32	36	10	100	150,27
250094	black	M40	46	5	100	280,54
250096	black	M50	55	5	100	303,22
250098	black	M63	66	5	100	324,58
250060	light-grey	PG7	15	10	100	42,18
250062 *	light-grey	PG9	19	10	100	54,02
250064 *	light-grey	PG11	22	10	100	48,74
250066 *	light-grey	PG13,5	24	10	100	61,01
250068 *	light-grey	PG16	27	10	100	61,01
250070	light-grey	PG21	33	10	100	90,20
250072	light-grey	PG29	42	10	100	150,42
250074	light-grey	PG36	53	5	100	278,18
250076	light-grey	PG42	60	5	100	362,94
250078	light-grey	PG48	65	5	100	390,38
250100	black	PG7	15	10	100	42,18
250102	black	PG9	19	10	100	54,02
250104	black	PG11	22	10	100	48,74
250106	black	PG13,5	24	10	100	67,61
250108	black	PG16	27	10	100	61,01
250110	black	PG21	33	10	100	90,20
250112	black	PG29	42	10	100	150,42
250114	black	PG36	53	5	100	278,18
250116	black	PG42	60	5	100	362,94
250118	black	PG48	65	5	100	390,38

SlimTop - cable glands IP 68, metric or PG, assembled with washer and lock nut, industry

metric, assembled with washer and lock nut, not mounted, reduced wrench size



Art. No.		M	WS	PU	PrU	EUR
250140	light-grey	M12	15	10	100	42,44
250142	light-grey	M16	20	10	100	48,93
250044 *	light-grey	M20	24	10	100	56,94
250144	light-grey	M25	24	10	100	94,47
250146	light-grey	M32	36	10	100	158,11
250148	light-grey	M40	46	5	100	321,72
250150	light-grey	M50	55	5	100	347,69
250152	light-grey	M63	68	5	100	366,88
250120	black	M12	15	10	100	42,44
250122	black	M16	20	10	100	48,93
250084	black	M20	24	10	100	56,94
250124	black	M25	29	10	100	94,47
250126	black	M32	36	10	100	158,11
250128	black	M40	46	5	100	321,72
250130	black	M50	55	5	100	347,69
250132	black	M63	68	5	100	366,88

Dummy plugs

Dummy plugs light- grey and black



Art. No.		M/PG	PU	PrU	EUR
250196	light-grey	M12	100	100	15,79
250198	light-grey	M16	100	100	21,11
250200	light-grey	M20	100	100	26,34
250202	light-grey	M25	100	100	31,60
250204	light-grey	M32	50	100	36,83
250206	light-grey	M40	50	100	44,62
250208	light-grey	M50	10	100	58,19
250210	light-grey	M63	10	100	83,49
250212	light-grey	PG7	100	100	15,79
250214	light-grey	PG9	100	100	18,40
250216	light-grey	PG11	100	100	21,11
250218	light-grey	PG13,5	100	100	26,34
250220	light-grey	PG16	100	100	31,60
250222	light-grey	PG21	100	100	36,83
250224	light-grey	PG29	50	100	45,29
250226	light-grey	PG36	50	100	57,91
250228	light-grey	PG42	10	100	83,49
250230	light-grey	PG48	10	100	89,68
250160	black	M12	100	100	15,79
250162	black	M16	100	100	21,11
250164	black	M20	100	100	26,34
250166	black	M25	100	100	31,60
250168	black	M32	50	100	36,83
250170	black	M40	50	100	44,62
250172	black	M50	10	100	58,19
250174	black	M63	10	100	83,49
250176	black	PG7	100	100	15,79
250178	black	PG9	100	100	18,40
250180	black	PG11	100	100	21,11
250182	black	PG13,5	100	100	26,34
250184	black	PG16	100	100	31,60
250186	black	PG21	100	100	36,83
250188	black	PG29	50	100	45,29
250190	black	PG36	50	100	57,91
250192	black	PG42	10	100	83,49
250194	black	PG48	10	100	89,68

Cable glands brass nickel-plated, IP68, fully mounted

metric or PG, assembled with washer and lock nut, fully mounted



Art. No.		M/PG	WS	PU	PrU	EUR
250600		M12	14	10	100	140,71
250602 *		M16	18	10	100	190,68
250604 *		M20	22	10	100	251,67
250606 *		M25	24	10	100	382,31
250608 *		M32	35	10	100	663,27
250610		M40	40	5	100	1.005,20
250611		M40	45	5	100	1.042,19
250612		M50	55	5	100	1.558,45
250614		M63	64	5	100	3.015,09
250630		PG7	14	10	100	135,91
250632 *		PG9	17	10	100	174,80
250634 *		PG11	20	10	100	212,76
250636 *		PG13,5	23	10	100	242,53
250638 *		PG16	25	10	100	280,45
250640 *		PG21	30	10	100	349,18
250642 *		PG29	40	10	100	793,88
250644		PG36	50	5	100	1.501,77
250646		PG42	57	5	100	2.033,92
250648		PG48	64	5	100	2.905,62

EMC-Cable glands brass nickel-plated, IP68, fully mounted

metric or PG, assembled with washer and lock nut, fully mounted. To ensure correct EMP installation, the brass cable screws with EMP inserts should be used.

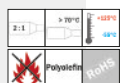


Art. No.		M/PG	WS	PU	PrU	EUR
250650		M12	14	10	100	170,48
250652		M16	18	10	100	218,53
250654		M20	22	10	100	285,27
250656		M25	24	10	100	427,43
250658		M32	35	10	100	742,47
250660		M40	40	5	100	1.142,07
250661		M40	45	5	100	1.248,70
250662		M50	55	5	100	2.283,67
250664		M63	64	5	100	3.806,62
250666		PG7	14	10	100	212,27
250668		PG9	17	10	100	212,27
250670		PG11	20	10	100	256,44
250672		PG13,5	23	10	100	285,27
250674		PG16	25	10	100	355,43
250676		PG21	30	10	100	523,50
250678		PG29	40	10	100	936,54
250680		PG36	50	5	100	1.767,38
250682		PG42	57	5	100	2.494,49
250684		PG48	64	5	100	3.504,00

Heat shrinkable tubes

Set HUPshrink21TW thin-walled 2:1

160 pieces, in plastic box



Art. No.	set	PU	PrU	EUR
267200 *	2:1	160	1	23,08

Set HUPshrink21TW thin-walled 2:1 coloured

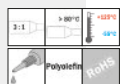
160 pieces, in plastic box



Art. No.	set	PU	PrU	EUR
267202 *	2:1	160	1	26,58

Set HUPshrink31DW-A double-walled 3:1 with adhesive lining

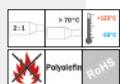
25 pieces, in plastic box



Art. No.	set	PU	PrU	EUR
267204 *	3:1	25	1	28,68

Set HUPshrink21TW thin-walled 2:1 coloured

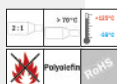
160 pieces, in plastic box



Art. No.	set	PU	PrU	EUR
267206 *	2:1	160	1	30,43

HUPshrink21TW thin-walled 2:1

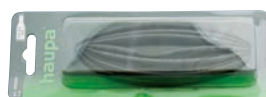
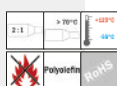
50 pieces, 0.1 m long packaged in a polybag



Art. No.	set	PU	PrU	EUR
267000	2:1 0,1 m	2,5	1	1,46
267002	2:1 0,1 m	3,5	1,5	1,81
267004	2:1 0,1 m	5 2,25	1	2,17
267006	2:1 0,1 m	6,5	3	2,95
267008	2:1 0,1 m	9,6	4,5	1,81
267010	2:1 0,1 m	12,7	6	1,04
267012	2:1 0,1 m	19	9	2,37
267014	2:1 0,1 m	26 12,5	1	3,44

HUPshrink21 thin-walled 2:1 blister package

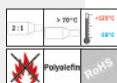
1 meter length in self-service-pack



Art. No.	set	PU	PrU	EUR
262085	2:1 1 m	4,8	2,4	1,81
262086	2:1 1 m	6,4	3,2	1,95
262087	2:1 1 m	9,5	4,8	2,66
262088	2:1 1 m	12,7	6,4	3,13
262089	2:1 1 m	19	9,5	4,46
262090	2:1 1 m	25,4	12,7	6,95

HUPshrink21TW thin-walled 2:1 Box

5/10m roll in dispenser



Art. No.	set	PU	PrU	EUR
267016	2:1 10 m	2,5	1	6,93
267018	2:1 10 m	3,5	1,5	7,91
267020	2:1 10 m	5 2,25	1	8,75
267022	2:1 5 m	6,5	3	7,69
267024	2:1 5 m	9,6	4,5	8,62
267026	2:1 5 m	12,7	6	9,72
267028	2:1 5 m	19	9	13,98
267030	2:1 5 m	26 12,5	1	19,66
267032	2:1 10 m	2,5	1	6,93
267034	2:1 10 m	3,5	1,5	7,91
267036	2:1 10 m	5 2,25	1	8,75
267038	2:1 5 m	6,5	3	7,69
267040	2:1 5 m	9,6	4,5	8,62
267042	2:1 5 m	12,7	6	9,72
267044	2:1 5 m	19	9	13,98
267046	2:1 5 m	26 12,5	1	19,66
267132	2:1 10 m	2,5	1	6,93
267134	2:1 10 m	3,5	1,5	7,91
267136	2:1 10 m	5 2,25	1	8,75
267138	2:1 5 m	6,5	3	7,69
267140	2:1 5 m	9,6	4,5	8,62
267142	2:1 5 m	12,7	6	9,72
267144	2:1 5 m	19	9	13,98
267146	2:1 5 m	26 12,5	1	19,66

HUPshrink21TW | 31TW thin-walled 2:1, 3:1

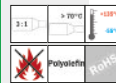
25m roll packaged in a polybag



Art. No.	set	PU	PrU	EUR
267250/200	2:1 200 m	1,2	0,6	90,28
267252/200	2:1 200 m	1,6	0,8	56,79
267254/200	2:1 200 m	2,5	1	80,73
267048	2:1 25 m	2,5	1	9,24
267256/200	2:1 200 m	3,5	1,5	85,50
267050	2:1 25 m	3,5	1,5	11,33
267258/100	2:1 100 m	5 2,25	1	54,70
267052	2:1 25 m	5 2,25	1	13,42
267260/50	2:1 50 m	6,5	3	66,35
267054	2:1 25 m	6,5	3	15,93
267262/50	2:1 50 m	9,6	4,5	83,09
267282/50	2:1 50 m	9,6	4,5	91,41
267056	2:1 25 m	9,6	4,5	19,51
267058	2:1 25 m	12,7	6	24,13
267264/100	2:1 100 m	12,7	6	106,70
267284/100	2:1 100 m	12,7	6	117,39
267060	2:1 25 m	19	9	52,18
267266/50	2:1 50 m	19	9	263,34
267062	2:1 25 m	26 12,5	1	78,62
267268/50	2:1 50 m	26 12,5	1	223,43
267410/25	2:1 25 m	38,1	19	472,47
267411/25	2:1 25 m	50,8	25,4	277,17
267412/25	2:1 25 m	76	38	539,63
267413/25	2:1 25 m	102	51	768,17
267480/100	3:1 100 m	12,7	4	332,03

HUPshrink31DW double-walled 3:1

1.2m packaged in a polybag



Art. No.	set	PU	PrU	EUR
267430	3:1 1,2 m	3	1	2,12
267432	3:1 1,2 m	6	2	3,33
267434	3:1 1,2 m	9	3	4,25
267436	3:1 1,2 m	12	4	5,68
267438	3:1 1,2 m	18	6	10,75
267440	3:1 1,2 m	25	8	17,51
267442	3:1 1,2 m	3	1	2,03
267444	3:1 1,2 m	6	2	3,14
267446	3:1 1,2 m	9	3	4,03
267448	3:1 1,2 m	12	4	4,48
267450	3:1 1,2 m	18	6	8,93
267452	3:1 1,2 m	25	8	10,98

HUPshrink21TW thin-walled 2:1

1.2m packaged in a polybag



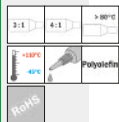
Art. No.	set	PU	PrU	EUR
267250	2:1 1,2 m	1,2	0,6	0,70
267252	2:1 1,2 m	1,6	0,8	0,46
267254	2:1 1,2 m	2,5	1	0,55
267256	2:1 1,2 m	3,5	1,5	0,68
267258	2:1 1,2 m	5 2,25	1	0,88
267260	2:1 1,2 m	6,5	3	1,12
267262	2:1 1,2 m	9,6	4,5	1,32
267264	2:1 1,2 m	12,7	6	1,68
267266	2:1 1,2 m	19	9	3,63
267268	2:1 1,2 m	26 12,5	1	5,80
267272	2:1 1,2 m	1,6	0,8	0,50
267274	2:1 1,2 m	2,5	1	0,61
267276	2:1 1,2 m	3,5	1,5	0,75
267278	2:1 1,2 m	5 2,25	1	0,94
267280	2:1 1,2 m	6,5	3	1,24
267282	2:1 1,2 m	9,6	4,5	1,46
267284	2:1 1,2 m	12,7	6	1,82
267286	2:1 1,2 m	19	9	3,99
267288	2:1 1,2 m	26 12,5	1	6,40

Art. No.	→→→	> Ø	Ø >	PU	PrU	EUR
267292	2:1 1,2 m	1,6	0,8	1	1	0,50
267294	2:1 1,2 m	2,5	1	1	1	0,61
267296	2:1 1,2 m	3,5	1,5	1	1	0,75
267298	2:1 1,2 m	5	2,25	1	1	0,94
267300	2:1 1,2 m	6,5	3	1	1	1,24
267302	2:1 1,2 m	9,6	4,5	1	1	1,46
267304	2:1 1,2 m	12,7	6	1	1	1,82
267306	2:1 1,2 m	19	9	1	1	3,99
267308	2:1 1,2 m	26	12,5	1	1	6,40
267312	2:1 1,2 m	1,6	0,8	1	1	0,50
267314	2:1 1,2 m	2,5	1	1	1	0,61
267316	2:1 1,2 m	3,5	1,5	1	1	0,75
267318	2:1 1,2 m	5	2,25	1	1	0,94
267320	2:1 1,2 m	6,5	3	1	1	1,24
267322	2:1 1,2 m	9,6	4,5	1	1	1,46
267324	2:1 1,2 m	12,7	6	1	1	1,82
267326	2:1 1,2 m	19	9	1	1	3,99
267328	2:1 1,2 m	26	12,5	1	1	6,40
267332	2:1 1,2 m	1,6	0,8	1	1	0,50
267334	2:1 1,2 m	2,5	1	1	1	0,61
267336	2:1 1,2 m	3,5	1,5	1	1	0,75
267338	2:1 1,2 m	5	2,25	1	1	0,94
267340	2:1 1,2 m	6,5	3	1	1	1,24
267342	2:1 1,2 m	9,6	4,5	1	1	1,46
267344	2:1 1,2 m	12,7	6	1	1	1,82
267346	2:1 1,2 m	19	9	1	1	3,99
267348	2:1 1,2 m	26	12,5	1	1	6,40
267352	2:1 1,2 m	1,6	0,8	1	1	0,50
267354	2:1 1,2 m	2,5	1	1	1	0,61
267356	2:1 1,2 m	3,5	1,5	1	1	0,75
267358	2:1 1,2 m	5	2,25	1	1	0,94
267360	2:1 1,2 m	6,5	3	1	1	1,24
267362	2:1 1,2 m	9,6	4,5	1	1	1,46
267364	2:1 1,2 m	12,7	6	1	1	1,82
267366	2:1 1,2 m	19	9	1	1	3,99
267368	2:1 1,2 m	26	12,5	1	1	6,40
267372	2:1 1,2 m	1,6	0,8	1	1	0,46
267374	2:1 1,2 m	2,5	1	1	1	0,55
267376	2:1 1,2 m	3,5	1,5	1	1	0,68
267378	2:1 1,2 m	5	2,25	1	1	0,88
267380	2:1 1,2 m	6,5	3	1	1	1,12
267382	2:1 1,2 m	9,6	4,5	1	1	1,32
267384	2:1 1,2 m	12,7	6	1	1	1,68
267386	2:1 1,2 m	19	9	1	1	3,63
267388	2:1 1,2 m	26	12,5	1	1	5,80
267392	2:1 1,2 m	1,6	0,8	1	1	0,98
267394	2:1 1,2 m	2,5	1	1	1	1,30
267396	2:1 1,2 m	3,5	1,5	1	1	1,04
267398	2:1 1,2 m	5	2,25	1	1	1,27
267400	2:1 1,2 m	6,5	3	1	1	1,44
267402	2:1 1,2 m	9,6	4,5	1	1	1,73
267404	2:1 1,2 m	12,7	6	1	1	2,44
267406	2:1 1,2 m	19	9	1	1	4,37
267408	2:1 1,2 m	26	12,5	1	1	6,69

Heat shrinkable tubes with adhesive lining

HUPshrink31MW-A | HUPshrink41MW-A medium-walled 3:1, 4:1 with adhesive lining

1.2m packaged in a polybag, with adhesive lining



Art. No.	→→→	> Ø	Ø >	PU	PrU	EUR
267102	4:1 1,2 m	8	2	1	1	8,51
267104	4:1 1,2 m	12	3	1	1	11,63
267106	4:1 1,2 m	22	6	1	1	15,77
267108	4:1 1,2 m	33	8	1	1	17,66
267110	3:1 1,2 m	40	12	1	1	22,71
267112	3:1 1,2 m	55	16	1	1	24,15
267114	3:1 1,2 m	65	19	1	1	29,44
267116	3:1 1,2 m	75	22	1	1	38,82
267118	4:1 1,2 m	95	25	1	1	52,01
267120	3:1 1,2 m	115	34	1	1	64,47

HUPshrink31DW-A | HUPshrink41DW-A double-walled 3:1, 4:1 with adhesive lining

1.2m packaged in a polybag, with adhesive lining



Art. No.	→→→	> Ø	Ø >	PU	PrU	EUR
267064	3:1 1,2 m	3,2	1	1	1	2,58
267066	3:1 1,2 m	4,8	1,6	1	1	2,95
267068	3:1 1,2 m	6,4	2	1	1	3,57
267070	3:1 1,2 m	9,5	3	1	1	4,48
267074	3:1 1,2 m	12,7	4	1	1	7,00
267078	3:1 1,2 m	19,1	6	1	1	10,27
267080	3:1 1,2 m	24,5	8	1	1	14,34
267084	3:1 1,2 m	38,1	13	1	1	22,10
267088	4:1 1,2 m	52	13	1	1	69,74

HUPshrink31DW-A double-walled 3:1 with adhesive lining Box

5/10m roll in dispenser, with adhesive lining



Art. No.	→→→	> Ø	Ø >	PU	PrU	EUR
267090	3:1 10 m	3	1	1	1	14,97
267092	3:1 5 m	6	2	1	1	12,61
267094	3:1 5 m	9	3	1	1	16,10

HUPshrink31DW-A double-walled 3:1 with adhesive lining

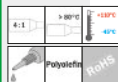
5m roll, with adhesive lining



Art. No.	→→→	> Ø	Ø >	PU	PrU	EUR
267096	3:1 5 m	12	4	1	1	26,23
267098	3:1 5 m	19	6	1	1	39,52
267100	3:1 5 m	24	8	1	1	56,47

HUPshrink41DW-A double-walled 4:1 with adhesive lining

1.2m packaged in a polybag, with adhesive lining



Art. No.	→→→	> Ø	Ø >	PU	PrU	EUR
267460	4:1 1,2 m	4	1	1	1	6,33
267462	4:1 1,2 m	8	2	1	1	10,35
267464	4:1 1,2 m	12	3	1	1	15,33
267466	4:1 1,2 m	16	4	1	1	19,09
267468	4:1 1,2 m	24	6	1	1	40,22
267470	4:1 1,2 m	32	8	1	1	54,57
267472	4:1 1,2 m	52	13	1	1	101,44

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
- Electrical insulation to 1000V



Art. No.	Ø KaL	ST	PU	PrU	EUR
267500	4-10	15	2,6	100	188,04
267502	6-16	25	2,8	50	343,62
267506	18-32	40	3,3	25	509,50
267508	28-48	50	3,5	10	676,84
267510	45-68	55	4	10	803,25
267512	55-90	70	4	25	1.306,70
267514	65-110	70	4	20	1.542,72

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.	set	kg	PU	EUR
262098	12	0,670	1	130,21

haupa®

... convincing solutions

Electro insulating tape

Electrical insulating tape "HUPtape-15"

- VDE tested
- DIN EN 60454-3-1
- Water, weather and UV resistant



Art. No.	W	ST	PU	PrU	EUR
263800 *	15 10 m	0,15	10	1	0,76
263802 *	15 10 m	0,15	10	1	0,78
263804	15 10 m	0,15	10	1	0,78
263806	15 10 m	0,15	10	1	0,78
263808 *	15 10 m	0,15	10	1	0,78
263810 *	15 10 m	0,15	10	1	0,78
263812	15 10 m	0,15	10	1	0,78
263814	15 10 m	0,15	10	1	0,78
263816	15 10 m	0,15	10	1	0,78
263818 *	15 10 m	0,15	10	1	0,78

Art. No.	W		ST	PU	PrU	EUR
263822	15	20 m	0,15	10	1	1,38
263824	15	20 m	0,15	10	1	1,43
263826	15	20 m	0,15	10	1	1,43
263828	15	20 m	0,15	10	1	1,43
263830	15	20 m	0,15	10	1	1,43
263832	15	20 m	0,15	10	1	1,43
263834	15	20 m	0,15	10	1	1,43
263836	15	20 m	0,15	10	1	1,43
263838	15	20 m	0,15	10	1	1,43
263840	15	20 m	0,15	10	1	1,43

Art. No.	W		ST	PU	PrU	EUR
263842 *	19	20 m	0,15	8	1	1,73
263844 *	19	20 m	0,15	8	1	1,80
263846	19	20 m	0,15	8	1	1,80
263848	19	20 m	0,15	8	1	1,80
263850 *	19	20 m	0,15	8	1	1,80
263852 *	19	20 m	0,15	8	1	1,80
263854	19	20 m	0,15	8	1	1,80
263856	19	20 m	0,15	8	1	1,80
263858	19	20 m	0,15	8	1	1,80
263860 *	19	20 m	0,15	8	1	1,80

Art. No.	W	ST	PU	PrU	EUR	
263902	19	25 m	0,15	10	1	2,17
263904	19	25 m	0,15	10	1	2,25
263906	19	25 m	0,15	10	1	2,25
263908	19	25 m	0,15	10	1	2,25
263910	19	25 m	0,15	10	1	2,25
263912	19	25 m	0,15	10	1	2,25
263914	19	25 m	0,15	10	1	2,25
263916	19	25 m	0,15	10	1	2,25
263918	19	25 m	0,15	10	1	2,25
263920	19	25 m	0,15	10	1	2,25

Art. No.	W		ST	PU	PrU	EUR
263882	19	33 m	0,15	8	1	2,16
263884	19	33 m	0,15	8	1	2,28
263886	19	33 m	0,15	8	1	2,28
263888	19	33 m	0,15	8	1	2,28
263890	19	33 m	0,15	8	1	2,28
263892	19	33 m	0,15	8	1	2,28
263894	19	33 m	0,15	8	1	2,28
263896	19	33 m	0,15	8	1	2,28
263898	19	33 m	0,15	8	1	2,28
263900	19	33 m	0,15	8	1	2,28

Art. No.	W		ST	PU	PrU	EUR
263862	25	20 m	0,15	6	1	2,28
263864	25	20 m	0,15	6	1	2,38
263866	25	20 m	0,15	6	1	2,38
263868	25	20 m	0,15	6	1	2,38
263870	25	20 m	0,15	6	1	2,38
263872	25	20 m	0,15	6	1	2,38
263874	25	20 m	0,15	6	1	2,38
263876	25	20 m	0,15	6	1	2,38
263878	25	20 m	0,15	6	1	2,38
263880	25	20 m	0,15	6	1	2,38

Rainbow-Pack

- VDE tested
- DIN EN 60454-3-1
- Water, weather and UV resistant
- 10 pieces



Art. No.	W		ST	PU	PrU	EUR
263820	15	10 m	0,15	1	1	7,74
263861	19	20 m	0,15	1	1	17,63

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.	W	ST	PU	PrU	EUR
263930	19	0,215	1	1	7,85

Self-welding insulation tape "HUPtape76seal"

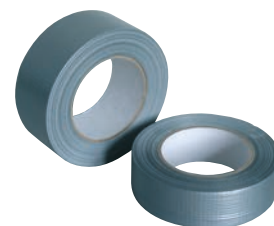
- Forms homogenous welding wraps
- Excellent dielectric properties
- Weather proof (UV resistant)
- Insulation on medium voltage cables up to 69 kV
- Resistant to corrosion, acids and lyes
- Individual in box packaging



Art. No.	W	ST	PU	PrU	EUR
263940	19	0,76	1	1	15,13

Textile tape

- 50 m



Art. No.	W	ST	Col.	kg	PU	EUR
393016	50	50 m	grey	0,269	1	20,22

VDE screwdrivers „HUPslim“ 1000 V

Screwdriver „HUPslim“ 1000 V with PZ slot profile



Art. No.	size	BL	kg	PU	EUR
102870	1	80 205	0,060	1	10,49
102872	2	100 270	0,094	1	13,13

Screwdriver set „HUPslim“ 1000 V with PZ slot profile

- Content:**
- 102870
 - 102872



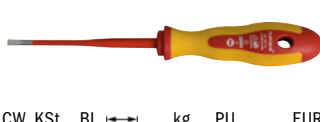
Art. No.	Fo.	set	kg	PU	EUR
102879	PZ/FL	2	0,200	1	18,30

Electricians' screwdrivers „HUPslim“ 1000 V Slot



Art. No.	CW	KSt	BL	kg	PU	EUR
102914	3,5	0,6	100 185	0,035	1	5,78
102916	4	0,8	100 195	0,052	1	6,23
102918	5,5	1	125 230	0,070	1	8,33
102920	6,5	1,2	150 255	0,108	1	10,51

Electricians' screwdrivers „HUPslim“ 1000 V Slot



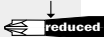
Art. No.	CW	KSt	BL	kg	PU	EUR
102917	4	1	100 195	0,052	1	5,46

Cross slotted screwdrivers „HUPslim“ 1000 V Phillips



Art. No.	size	BL	kg	PU	EUR
102942	1	80 175	0,061	1	7,34
102944	2	100 205	0,100	1	10,40

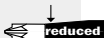
Cross slotted screwdrivers „HUPslim“ 1000 V Pozidriv



Art. No.	size	BL	kg	PU	EUR
102952	1	80 175	0,061	1	8,70
102954	2	100 205	0,095	1	11,44

Screwdrivers set „HUPslim“ 1000 V

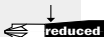
- Content:**
- 102914
 - 102916
 - 102918
 - 102920
 - 102942
 - 102944



Art. No.	Fo.	set	kg	PU	EUR
102999	PH	6	0,414	1	40,72

Screwdrivers set „HUPslim“ 1000 V

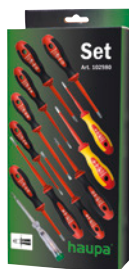
- Content:**
- 102914
 - 102916
 - 102918
 - 102920
 - 102952
 - 102954



Art. No.	Fo.	set	kg	PU	EUR
102999/PZ	PZ	6	0,416	1	41,24

Screwdrivers set „HUPslimPlus“ 1000 V

- Content:**
- 102870
 - 102872
 - 102914
 - 102916
 - 102917
 - 102918
 - 102942
 - 102944
 - 102952
 - 102954
 - 100647



Art. No.	Fo.	set	kg	PU	EUR
102980	Mix	12	0,850	1	98,72

VDE screwdrivers 1000 V

Screwdriver with PZ slot profile



Art. No.	size	BL	kg	PU	EUR
101870	1	80 205	0,060	1	9,32
101872	2	100 270	0,094	1	11,64

Screwdriver set with PZ slot profile

- Content:**
- 101870
 - 101872



Art. No.	Fo.	set	kg	PU	EUR
101879	PZ/FL	2	0,200	1	14,97

Electricians screwdrivers Slot



Art. No.	CW	KSt	BL	kg	PU	EUR
101910	2,5	0,4	75 155	0,027	1	4,68
101912	3	0,5	100 185	0,029	1	4,74
101914	3,5	0,6	100 185	0,035	1	5,01
101916	4	0,8	100 195	0,052	1	5,29
101918	5,5	1	125 230	0,070	1	7,12
101920	6,5	1,2	150 255	0,108	1	9,43
101922	8	1,2	175 295	0,177	1	12,60
101924	10	1,6	200 320	0,245	1	15,63

Electricians screwdrivers Slot



Art. No.	CW	KSt	BL	kg	PU	EUR
101917	4	1	100 195	0,052	1	5,29

Cross slotted screwdrivers Phillips



Art. No.	size	BL	kg	PU	EUR
101940	0	60 145	0,034	1	5,92
101942	1	80 175	0,061	1	6,62
101944	2	100 205	0,100	1	9,63
101946	3	150 270	0,165	1	13,34

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Cross slotted screwdrivers Pozidriv



Art. No.	size	BL	mm	kg	PU	EUR
101950	0	60	135	0,033	1	6,86
101952 *	1	80	175	0,061	1	7,84
101954 *	2	100	205	0,095	1	10,59
101956	3	150	270	0,166	1	15,34

Screwdrivers Tx



Art. No.	size	BL	mm	kg	PU	EUR
101850	8	100	185	0,053	1	9,97
101852	9	100	185	0,051	1	9,97
101854	10	100	195	0,053	1	10,20
101856 *	15	100	195	0,053	1	10,45
101858 *	20	100	195	0,052	1	11,05
101860	25	125	220	0,070	1	11,58
101862	27	125	230	0,072	1	12,94
101864	30	150	255	0,109	1	14,14
101866	40	175	295	0,178	1	17,34

Screwdrivers Square



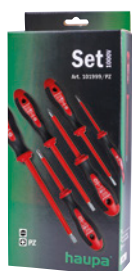
Art. No.	size	BL	mm	kg	PU	EUR
102550	0	60	145	0,034	1	4,94
102552	1	80	175	0,061	1	5,80
102554	2	100	205	0,095	1	7,09
102556	3	150	270	0,166	1	10,88

Screwdrivers set 1000 V



Content:

- 101910
- 101916
- 101918
- 101920
- 101952
- 101954



Art. No.	Fo.	set	kg	PU	EUR
101999/PZ	PZ	6	0,416	1	39,96

Screwdrivers set 1000 V



Content:

- 101910
- 101916
- 101918
- 101920
- 101942
- 101944



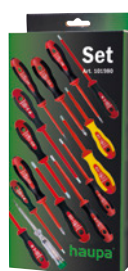
Art. No.	Fo.	set	kg	PU	EUR
101999 *	PH	6	0,414	1	39,43

Screwdrivers set „Plus“ 1000 V



Content:

- 101870
- 101872
- 101910
- 101912
- 101916
- 101918
- 101942
- 101944
- 101952
- 101954
- 101854
- 101856
- 101858
- 101860
- 100647



Art. No.	Fo.	set	kg	PU	EUR
101980	Mix	15	0,414	1	98,72

VDE socket wrenches 1000 V

Socket wrenches DIN 7445



Art. No.	size	BL	mm	kg	PU	EUR
102520	4	125	220	0,105	1	17,64
102522	5	125	220	0,109	1	17,64
102524	5,5	125	220	0,116	1	18,07
102526	6	125	220	0,111	1	18,07
102528	7	125	230	0,116	1	18,07
102530	8	125	230	0,119	1	19,10
102532	9	125	230	0,122	1	20,59
102534	10	125	230	0,125	1	20,78
102536	11	125	245	0,167	1	25,13
102538	12	125	245	0,165	1	26,68
102540	13	125	245	0,175	1	28,30

Socket wrenches set DIN 7445

Content:

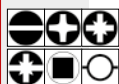
- 102522
- 102524
- 102528
- 102530
- 102534
- 102536
- 102540



Art. No.	set	kg	PU	EUR
102512	7	1,065	1	149,45

„Vario“ 1000 V replaceable blade system

„Vario“ 1000 V replaceable blade system **Vario**



Video 102000



Art. No.	Fo.	set	kg	PU	EUR
102000-1	PH	8	0,340	1	43,36
102000/PZ-1	PZ	8	0,334	1	43,36

„Vario“ nylon bag – empty



Art. No.	W	H	D	kg	PU	EUR
102042-1	215	290	30	0,088	1	11,33

Exchangeable „Vario“ 1000 V handle



Art. No.	Fo.	kg	PU	EUR
102040	HEX 120	0,058	1	7,70

„Vario“ screw cap



Art. No.	kg	PU	EUR
102044	10 0,002	1	1,04

„Vario“ replaceable blade – pozidrive blade/slotted



Art. No.	size	BL	kg	PU	EUR
102010	1	85 165	0,035	1	4,68
102012	2	85 165	0,045	1	4,68

„Vario“ replaceable blade – slotted blade



Art. No.	CW	KSt	BL	kg	PU	EUR
102014	2,5	0,4	85 165	0,013	1	3,14
102016	3	0,5	85 165	0,015	1	3,14
102017	3,5	0,6	85 165	0,080	1	3,76
102018	4	0,8	85 165	0,022	1	3,14
102020	5,5	1	85 165	0,034	1	3,14
102022	6,5	1,2	85 165	0,045	1	3,14

„Vario“ replaceable blade – Phillips blade



Art. No.	size	BL	kg	PU	EUR
102001	0	85 165	0,023	1	3,87
102002	1	85 165	0,035	1	3,87
102004	2	85 165	0,044	1	3,87

„Vario“ replaceable blade – pozidrive blade



Art. No.	size	BL	kg	PU	EUR
102005	0	85 165	0,023	1	3,87
102006	1	85 165	0,035	1	3,87
102008	2	85 165	0,045	1	3,87

„Vario“ replaceable blade – torx blade



Art. No.	size	BL	kg	PU	EUR
102060	8	85 165	0,016	1	3,87
102062	9	85 165	0,016	1	3,87
102064	10	85 165	0,016	1	3,87
102066	15	85 165	0,021	1	3,87
102068	20	85 165	0,021	1	3,87
102070	25	85 165	0,034	1	3,87
102072	30	85 165	0,041	1	3,87

„Vario“ switch cabinet key – Square



Art. No.	kg	PU	EUR
102030	6 0,010	1	1,65
102032	8 0,009	1	1,65

„Vario“ switch cabinet key – Triangular



Art. No.	kg	PU	EUR
102034	9 0,009	1	1,65

„Vario“ switch cabinet key – Double-bit



Art. No.	kg	PU	EUR
102036	5,3 0,009	1	1,65

„VarioPro“ 1000 V replaceable blade system

VarioPro



Placeholders for torque handle



Video 102050



Art. No.	set	W	H	D	kg	PU	EUR
102052	30	410	310	85	3,100	1	336,55

Tool case „ElektroCombo“



Art. No.	set	W	H	D	kg	PU	EUR
104090 *	78	490	375	100	6,240	1	583,25

Working under tension

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... convincing solutions

„VarioTQ“ 1000 V replaceable blade system

„VarioTQ“ 1000 V dynamometric screwdriver with replaceable blades - PH/PZ



Video 102700



Art. No.	Fo.	Nm	kg	PU	EUR
102700-1	PH	1 - 6	0,800	1	203,38
102701-1	PH	0,5 - 3,5	0,800	1	203,38
102700/PZ-1	PZ	1 - 6	0,800	1	203,38
102701/PZ-1	PZ	0,5 - 3,5	0,800	1	203,38

„VarioTQ“ 1000 V nylon bag - empty



Art. No.	W	H	D	kg	PU	EUR
102785-1	215	290	30	0,115	1	19,91

„VarioTQ“ 1000 V dynamometric screwdriver with replaceable blades - Tx/ Hex



Art. No.	Fo.	Nm	kg	PU	EUR
102702-1	TX	1 - 6	0,760	1	196,29
102703-1	TX	0,5 - 3,5	0,760	1	201,71
102706-1	TX+HEX	1 - 6	0,800	1	201,71
102707-1	TX+HEX	0,5 - 3,5	0,800	1	201,71

„VarioTQ“ 1000 V dynamometric screwdriver with replaceable blades - Hex



Art. No.	Fo.	Nm	kg	PU	EUR
102704-1	HEX	1 - 6	0,340	1	194,61
102705-1	HEX	0,5 - 3,5	0,340	1	201,71

Exchangeable „VarioTQ“ 1000 V handle



1000 V IEC 60900



Art. No.	Fo.	Nm	kg	PU	EUR
102790	122	1 - 6	0,050	1	96,88
102792	122	0,5 - 3,5	0,200	1	96,88

Square socket key



Art. No.	Fo.	BL	CW	kg	PU	EUR
102784	SQ	40	8	0,050	1	3,93

Exchangeable „Vario“ 1000 V handle



1000 V IEC 60900

Art. No.	Fo.	size	kg	PU	EUR
102040	HEX	120	0,058	1	7,70

„VarioTQ“ 1000 V replaceable blade - PZ/FL



1000 V IEC 60900

Art. No.	Fo.	size	kg	PU	EUR
102780	PZ/FL	1	195	0,050	7,20
102782	PZ/FL	2	195	0,050	7,20

„VarioTQ“ 1000 V replaceable blade - slotted blade



1000 V IEC 60900

Art. No.	Fo.	CW	KSt	kg	PU	EUR
102710	SL	2,5	0,4	195	0,050	7,09
102712	SL	3	0,5	195	0,050	7,09
102714	SL	4	0,8	195	0,050	7,20
102716	SL	5,5	1	195	0,050	7,20
102718	SL	6,5	1,2	195	0,050	7,20

„VarioTQ“ 1000 V replaceable blade - Phillips blade



1000 V IEC 60900

Art. No.	Fo.	size	kg	PU	EUR
102720	PH	0	195	0,050	5,98
102722	PH	1	195	0,050	5,98
102724	PH	2	195	0,050	5,98
102726	PH	3	195	0,050	5,98

„VarioTQ“ 1000 V replaceable blade - pozidrive blade



1000 V IEC 60900

Art. No.	Fo.	size	kg	PU	EUR
102730	PZ	0	195	0,050	5,98
102732	PZ	1	195	0,050	5,98
102734	PZ	2	195	0,050	5,98
102736	PZ	3	195	0,050	5,98

„VarioTQ“ 1000 V replaceable blade - torx blade



1000 V IEC 60900

Art. No.	Fo.	size	kg	PU	EUR
102740	TX	8	195	0,050	6,58
102742	TX	9	195	0,050	6,58
102744	TX	10	195	0,050	6,58
102746	TX	15	195	0,050	6,58
102748	TX	20	195	0,050	6,58
102750	TX	25	195	0,050	6,58
102752	TX	30	195	0,050	6,58

„VarioTQ“ 1000 V replaceable blade - hex blade



1000 V IEC 60900

Art. No.	Fo.	size	kg	PU	EUR
102760	HEX	2	195	0,050	6,87
102762	HEX	3	195	0,050	6,87
102764	HEX	3,5	195	0,050	6,87
102766	HEX	4	195	0,050	6,87
102768	HEX	4,5	195	0,050	6,87
102770	HEX	5	195	0,050	6,87
102772	HEX	5,5	195	0,050	6,87

VDE pliers, sheathed handles 1000 V

Combination pliers DIN ISO 5746 VDE

leveraged, perfected cutting force performance



Art. No.	Length	IEC	kg	PU	EUR
211198	160	IEC 60900	0,287	1	25,26
211200 *	180	VDE	0,287	1	26,16
211202	200	VDE	0,364	1	28,60

Side cutters DIN ISO 5749 VDE

leveraged, perfected cutting force performance



Art. No.	Length	IEC	kg	PU	EUR
211199	140	IEC 60900	0,237	1	25,71
211204 *	160	VDE	0,237	1	27,62
211206	180	VDE	0,296	1	30,45

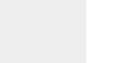
Side cutting pliers with stripping function 1000 V

art. 211207, leveraged, perfected cutting force performance



Art. No.	Length	IEC	kg	PU	EUR
211203	160	IEC 60900	0,296	1	38,16
211207	180	IEC 60900	0,296	1	49,86

Wire stripping pliers VDE



Art. No.	Length	Ø	VDE	kg	PU	EUR
211214 *	160	0,2-6	VDE	0,202	1	28,43

Installation pliers VDE



Art. No.	Length	VDE	kg	PU	EUR
211229	225	VDE	0,272	1	77,22

Heavy duty side cutters DIN ISO 5745 VDE

leveraged, perfected cutting force performance



Art. No.	Length	IEC	kg	PU	EUR
211211	160	IEC 60900	0,268	1	35,66
211217 *	170	VDE	0,268	1	36,51

Heavy duty side cutters DIN ISO 5749 VDE

leveraged, perfected cutting force performance



Art. No.	Length	VDE	kg	PU	EUR
211219 *	200	VDE	0,322	1	39,26

Long chain nose pliers DIN ISO 5745 VDE, straight

leveraged, perfected cutting force performance



Art. No.	Length	IEC	kg	PU	EUR
211213	160	IEC 60900	0,255	1	30,68
211208 *	200	VDE	0,255	1	31,44

Long chain nose pliers DIN ISO 5745 VDE, 45° angled nose

leveraged, perfected cutting force performance



Art. No.	Length	IEC	kg	PU	EUR
211209	160	IEC 60900	0,260	1	33,41
211210	200	VDE	0,260	1	34,46

Short flat nose pliers DIN ISO 5745 VDE



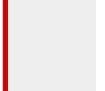
Art. No.	Length	VDE	kg	PU	EUR
211212	160	VDE	0,168	1	24,19

Short round nose pliers DIN ISO 5745 VDE



Art. No.	Length	VDE	kg	PU	EUR
211216	160	VDE	0,161	1	24,32

Water pump pliers DIN ISO 8976 VDE



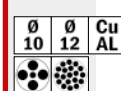
Art. No.	Length	VDE	kg	PU	EUR
211221	240	VDE	0,392	1	46,24

Pliers wrench VDE



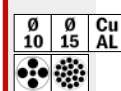
Art. No.	Length	Ø	VDE	kg	PU	EUR
211224	280	50	VDE	0,392	1	95,27

Cable cutters VDE



Art. No.	Length	Ø mm²	VDE	kg	PU	EUR
211225 *	160	10 16	VDE	0,215	1	28,35
211223	200	12 35	VDE	0,352	1	43,04

Cable cutters VDE with spring joint



Art. No.	Length	Ø mm²	VDE	kg	PU	EUR
211226	170	10 25	VDE	0,268	1	55,72
211228 *	230	15 70	VDE	0,457	1	66,70



High leverage | perfected cutting force performance

High leverage pliers offer power saving of up to 50%.

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... convincing solutions

Pliers set VDE, sheathed handles

Content:

- 211200
- 211204
- 211208
- 211214



Art. No.	set	kg	PU	EUR
220123 *	4	1,063	1	110,97

Fully insulating 1000 V PVC flat nose pliers



Art. No.	kg	PU	EUR
120051	190	0,109	1 76,94

Flat nose pliers 1000 V



Art. No.	kg	PU	EUR
120052	160	0,084	1 57,30

VDE-pliers, 2-coloured coating-insulation 1000 V

Combination pliers DIN ISO 5746 VDE



Art. No.	kg	PU	EUR
210056	180	0,300	1 49,92
210058	200	0,418	1 54,84

Side cutters DIN ISO 5749 VDE



Art. No.	kg	PU	EUR
210100	160	0,253	1 51,25
210102	180	0,303	1 61,98

Heavy duty side cutters DIN ISO 5749 VDE



Art. No.	kg	PU	EUR
210110	240	0,489	1 122,55
210117	180	0,274	1 50,10
210119	200	0,368	1 55,88

Front cutters 1000 V



Art. No.	kg	PU	EUR
210303	160	0,3282	1 62,19

Long chain nose pliers DIN ISO 5745 VDE



Art. No.	kg	PU	EUR
210388	200	0,270	1 56,27

Long chain nose pliers DIN ISO 5745 VDE, 45°



Art. No.	Fo.	kg	PU	EUR
210390	200 45°	0,256	1	59,57

Short round nose pliers DIN ISO 5745 VDE



Art. No.	kg	PU	EUR
210296	160	0,180	1 48,57

Short flat nose pliers DIN ISO 5745 VDE



Art. No.	kg	PU	EUR
210270	160	0,187	1 50,25

Wire stripping pliers VDE



Art. No.	kg	PU	EUR
210648	160	0,232	1 52,77

Water pump pliers DIN ISO 8976 1000 V



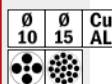
Art. No.	kg	PU	EUR
210588	260	0,590	1 104,87

Water pump pliers DIN ISO 8976 1000 V



Art. No.	kg	PU	EUR
210583	240	0,423	1 68,78

Cable cutters 1000 V with spring joint



Art. No.	kg	PU	EUR
200086/VDE	200	0,274	1 70,81
200088/VDE	230	0,479	1 75,15

Pliers set VDE, 2-coloured coating-insulation

Content:

- 210056
- 210100
- 210388
- 210648



Art. No.	set	kg	PU	EUR
220126	4	1,000	1	192,07

Tool case „Real“ 1000 V



Art. No.	set	kg	PU	EUR
220148	20	4,300	1	752,40

single wire

multi-wire

sector-shaped

fine wire

communication

wire rope

armoured steel cable (SWA)

ACSR

bolt

solid steel

solid Cu

VDE pliers, coating-insulated 1000 V, head insulated

Combination pliers DIN ISO 5746 1000 V



Art. No.	l=	kg	PU	EUR
210263	180	0,306	1	111,15
210264	200	0,372	1	119,28

Side cutters DIN ISO 5749 1000 V



Art. No.	l=	kg	PU	EUR
210301	160	0,270	1	125,33
210302	180	0,309	1	140,83

Long chain nose pliers DIN ISO 5745 1000 V



Art. No.	l=	kg	PU	EUR
210266	160	0,182	1	116,81
210267	200	0,236	1	122,87

Long chain nose pliers DIN ISO 5745 1000 V, 45°



Art. No.	l=	Fo.	kg	PU	EUR
210297	200	45°	0,228	1	131,13

Plan grip pliers 1000 V



Art. No.	l=	kg	PU	EUR
210298	200	0,215	1	198,98

Short flat nose pliers DIN ISO 5745 1000 V



Art. No.	l=	kg	PU	EUR
210299	160	0,216	1	105,67

Long chain nose pliers DIN ISO 5745 1000 V



Art. No.	l=	kg	PU	EUR
210300	160	0,191	1	102,85

Wire stripping pliers 1000 V



Art. No.	l=	Ø	kg	PU	EUR
210265	160	0,2-6	0,180	1	124,70

haupa®

... convincing solutions

Cable cutters, stripping pliers 1000 V

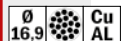
Cable cutter 1000 V



1000 V IEC 60900

Art. No.	l	Ø	mm ²	kg	PU	EUR
200127	160	15	50	0,289	1	80,82

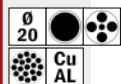
Cable cutter with a snap 1000 V



1000 V IEC 60900

Art. No.	l	Ø	mm ²	kg	PU	EUR
201002/VDE	180	16,9	70	0,247	1	72,05

Cable cutter 1000 V



1000 V IEC 60900

Art. No.	l	Ø	mm ²	kg	PU	EUR
200120	215	20	70	0,403	1	119,85

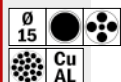
Double edged cable cutter 1000 V



1000 V IEC 60900

Art. No.	l	Ø	mm ²	kg	PU	EUR
200128	200	20	50	0,382	1	127,38

Cable cutter 1000 V



1000 V IEC 60900

Art. No.	l	Ø	mm ²	kg	PU	EUR
200129	240	15	50	0,484	1	127,27

Allround soft-grip scissors VDE

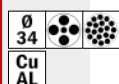


1000 V IEC 60900

Art. No.	l	mm ²	kg	PU	EUR
200201	160	70	0,083	1	39,96

Cable cutters 1000 V

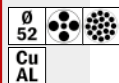
Ratchet cable cutter with cover 1000 V



1000 V IEC 60900

Art. No.	l	Ø	mm ²	kg	PU	EUR
200109	290	34	240	1,308	1	995,20

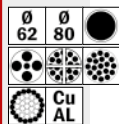
Ratchet cable cutter 1000 V



1000 V IEC 60900

Art. No.	Ø	mm ²	kg	PU	EUR
200198	52	400	0,942	1	755,67

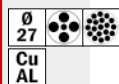
Ratchet cable cutter 1000 V



1000 V IEC 60900

Art. No.	Ø	mm ²	kg	PU	EUR
200193	62	840	2,200	1	1.993,42
200195	80	1000	3,150	1	2.583,12

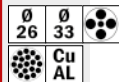
Cable cutter 1000 V



1000 V IEC 60900

Art. No.	l	Ø	mm ²	kg	PU	EUR
200123	500	27	150	1,389	1	273,16

Cable cutter Super light 1000 V

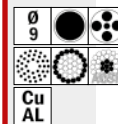


1000 V IEC 60900

Art. No.	l	Ø	mm ²	kg	PU	EUR
200110	600	26	150	2,327	1	410,42
200141	700	33	185	3,292	1	497,42

Wire cutters 1000 V

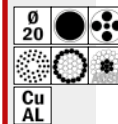
Wire rope and cable cutter 1000 V



1000 V IEC 60900

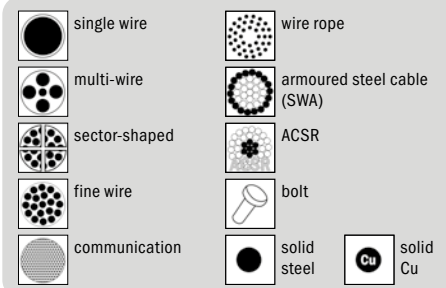
Art. No.	l	Ø	mm ²	kg	PU	EUR
200081	700	9	16	2,880	1	441,70
200081/MK				Spare cutting head	0,350	1 225,14

Wire rope and cable cutter 1000 V



1000 V IEC 60900

Art. No.	l	Ø	mm ²	kg	PU	EUR
200130	600	20	120	2,348	1	1.026,16
200132				Spare cutting head	0,340	1 643,65



Hacksaw frames 1000 V

Hacksaw frame 1000 V



1000 V IEC 60900

Art. No.	l	Sbl.	kg	PU	EUR
110558	200	150	0,248	1	76,61

Hacksaw frame 1000 V



1000 V IEC 60900

Art. No.	l	Sbl.	ST	kg	PU	EUR
110559	350	300	18 x 8	0,732	1	104,70

Cable sheath strippers 1000 V

Cable sheath cutter 1000 V

Video 110561_67



1000 V IEC 60900

Art. No.	Ø	kg	PU	EUR
110561	> 25	0,250	1	289,03
110569	Replacement blade	0,040	1	87,84

Stripping plier 1000 V



1000 V IEC 60900

Art. No.	Ø	kg	PU	EUR
200149	26 - 52	0,739	1	2.489,23

VDE cable knives 1000 V

Cable knife VDE

with strong, straight blade



1000 V IEC 60900

Art. No.	BL	kg	PU	EUR
200000	50	0,110	1	17,53

Cable knife VDE with sliding block

with hook blade, specially for slitting



1000 V IEC 60900

Art. No.	BL	kg	PU	EUR
200007	50	0,120	1	41,33

Cable knife VDE

with a hook-shaped blade



1000 V IEC 60900

Art. No.	BL	kg	PU	EUR
200002	35	0,093	1	18,99

Cable knife VDE

with a hook-shaped insulated blade



1000 V IEC 60900

Art. No.	BL	kg	PU	EUR
200003	35	0,074	1	27,27

Cable knife VDE

with a curved blade



1000 V IEC 60900

Art. No.	BL	kg	PU	EUR
200004	35	0,087	1	19,49

Cable knife VDE

with a straight, partially-insulated, strong blade

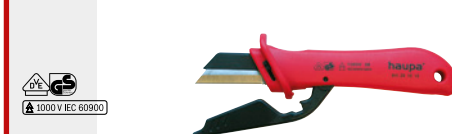


1000 V IEC 60900

Art. No.	BL	kg	PU	EUR
200005	40	0,106	1	25,20

Cable knife VDE

with straight, part insulated, strong blade, replaceable blades.

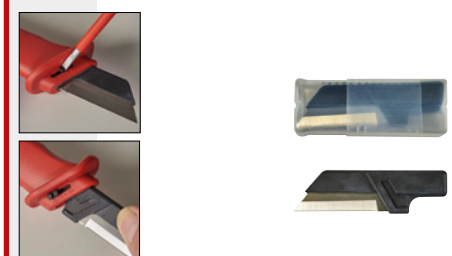


1000 V IEC 60900

Art. No.	BL	kg	PU	EUR
201010	50	0,067	1	18,58

Replacement blades, 4-pcs.

suitable for article 201010



Art. No.	BL	kg	PU	EUR
201012	50	0,087	1	24,81

Cable stripping knife VDE

with a straight, strong blade



1000 V IEC 60900

Art. No.	BL	kg	PU	EUR
200009	50	0,094	1	19,11

Cable stripping knife VDE

blade with a slim, straight blade for fine tasks



1000 V IEC 60900

Art. No.	BL	kg	PU	EUR
200013	50	0,094	1	19,60

Working under tension

haupa®

... convincing solutions

Allen keys, spanners 1000 V

T-Handle socket wrenches 1000 V

1000 V IEC 60900

Art. No.	Size	BL	hdl.	kg	PU	EUR
110000	10	200	160	0,300	1	59,96
110002	11	200	160	0,315	1	59,96
110004	12	200	160	0,320	1	59,96
110006	13	200	160	0,320	1	59,96
110008	14	200	160	0,426	1	60,96
110010	17	200	160	0,401	1	61,66
110012	19	200	160	0,430	1	63,88
110022	11	300	160	0,429	1	70,68
110024	12	300	160	0,375	1	70,74
110026	13	300	160	0,417	1	70,74
110028	14	300	160	0,425	1	70,74
110030	17	300	160	0,530	1	73,27
110032	19	300	160	0,556	1	75,21
110034	22	300	160	0,662	1	77,74
110036	24	300	160	0,990	1	77,74

Cross type socket wrenches 1000 V

1000 V IEC 60900

Art. No.	Size	BL	kg	PU	EUR
110070	10-11-14-17	200	0,451	1	111,15
110074	11-12-13-17	200	0,225	1	111,11
110076	10-13-14-17	200	0,455	1	111,15
110078	11-13-14-17	200	0,449	1	111,11
110080	13-17-19-22	200	0,502	1	111,15

Counter hold spanners 1000 V

1000 V IEC 60900

Art. No.	Size	BL	kg	PU	EUR
110081	10	200	0,118	1	77,81
110083	12	200	0,120	1	83,48
110084	13	200	0,171	1	84,44
110085	14	250	0,150	1	87,09
110087	16	260	0,249	1	91,98
110089	17	270	0,255	1	91,98
110091	18	265	0,250	1	91,98
110093	19	270	0,275	1	93,79
110095	20	275	0,300	1	100,42
110097	22	275	0,300	1	100,42
110099	24	270	0,350	1	106,81

Right angle allen keys 1000 V

1000 V IEC 60900

Art. No.	Size	kg	PU	EUR
110042	3	0,016	1	12,37
110044	4	0,029	1	12,86
110046	5	0,045	1	14,55
110048	6	0,051	1	16,83
110050	8	0,103	1	18,88
110052	10	0,222	1	23,17
110054	12	0,352	1	29,80

T-handle allen keys 1000 V

1000 V IEC 60900

Art. No.	Size	kg	PU	EUR
110060	5	0,222	1	41,43
110062	6	0,227	1	41,43
110064	8	0,224	1	42,45

Single ended spanners 1000 V

1000 V IEC 60900

Art. No.			ST	kg	PU	EUR
110260	6	75	3	0,021	1	23,34
110262	7	80	3,5	0,021	1	23,34
110264	8	85	3,5	0,032	1	23,34
110266	9	100	4	0,035	1	23,34
110268	10	120	5	0,037	1	25,94
110270	11	130	5,5	0,044	1	28,11
110272	12	140	5,5	0,064	1	28,34
110274	13	155	6	0,061	1	28,66
110276	14	170	6	0,084	1	31,48
110278	17	185	6,5	0,121	1	33,99
110280	19	210	7,5	0,140	1	35,70
110282	22	230	8,5	0,215	1	39,72
110284	24	250	9,5	0,247	1	45,53
110286	27	290	11,5	0,272	1	59,23
110288	30	345	13	0,390	1	60,25
110290	32	350	15	0,503	1	60,73

Single ended tool set acc. to VDE 1000 V

Content:

- WS: 10, 11, 12, 13, 14, 17, 19,

1000 V IEC 60900

Art. No.	set	empty	kg	PU	EUR
220017	8	220002	1,181	1	272,97

Ring spanners 1000 V

1000 V IEC 60900

Art. No.	Size	kg	PU	EUR
110300	6	0,058	1	30,76
110302	7	0,055	1	30,76
110304	8	0,070	1	30,76
110306	9	0,090	1	30,76
110308	10	0,089	1	32,21
110310	11	0,085	1	32,21
110312	12	0,120	1	33,43
110314	13	0,125	1	38,60
110316	14	0,152	1	42,30
110318	17	0,186	1	45,65
110320	19	0,267	1	49,15
110322	22	0,284	1	55,61
110324	24	0,382	1	63,26

Ratchet ring spanners 1000 V

1000 V IEC 60900

Art. No.	Size	kg	PU	EUR
110870	8	0,032	1	42,95
110872	9	0,040	1	42,95
110874	10	0,050	1	42,95
110876	11	0,059	1	42,95
110878	12	0,065	1	45,26
110880	13	0,076	1	45,95
110882	14	0,086	1	46,92
110884	15	0,105	1	47,52
110886	16	0,130	1	48,91
110888	17	0,161	1	48,91
110890	18	0,179	1	51,82
110892	19	0,215	1	51,82

Adjustable wrenches to DIN 3117 A 1000 V

1000 V IEC 60900

Art. No.	Size	kg	PU	EUR
110555	26	0,325	1	78,07
110556	31	0,512	1	91,00
110557	36	0,809	1	121,48

Reversible ratchets, torque wrenches, extensions, 1/4"

1/4"

Reversible ratchet VDE

1/4"



Art. No.	drive	l	kg	PU	EUR
220577	1/4"	150	0,300	1	67,75

Socket T-wrench VDE

1/4"



Art. No.	drive	l	kg	PU	EUR
220578	1/4"	125	0,241	1	51,72

Extensions VDE

1/4"



Art. No.	drive	l	kg	PU	EUR
220579	1/4"	100	0,150	1	29,77
220580	1/4"	150	0,250	1	33,45

Hexagon sockets VDE

1/4"



Art. No.	drive	l	kg	PU	EUR
220581	5 1/4"	40	0,027	1	8,27
220582	6 1/4"	40	0,027	1	8,27
220583	7 1/4"	40	0,029	1	8,27
220584	8 1/4"	40	0,032	1	8,27
220585	9 1/4"	40	0,035	1	8,27
220586	10 1/4"	40	0,047	1	8,27
220587	11 1/4"	40	0,051	1	8,49
220588	12 1/4"	40	0,063	1	8,57
220589	13 1/4"	40	0,036	1	8,67
220590	14 1/4"	40	0,040	1	8,87

Fittings for hexagon socket screws VDE

1/4"



Art. No.	drive	l	kg	PU	EUR
220591	3 1/4"	55	0,041	1	9,99
220592	4 1/4"	55	0,042	1	9,99
220593	5 1/4"	55	0,042	1	9,99
220594	6 1/4"	55	0,042	1	9,99

Tool case VDE 1/4"

1/4"



Video 220576



Art. No.	set	drive	kg	PU	EUR
220576 *	18	1/4"	1,250	1	356,12

Torque wrenches, extensions, hexagon sockets, 1/4"

1/4"

Reversible ratchet 1000 V

1/4"

1000 V IEC 60900



Art. No.	drive	l	kg	PU	EUR
110810	1/4"	135	0,122	1	170,69

Torque wrench 1000 V

TQ 1/4"

TQ



1000 V IEC 60900

Art. No.	drive	Nm	l	kg	PU	EUR
110812	1/4"	2-12	200	0,250	1	817,43
110813	1/4"	5-25	200	0,420	1	807,65

Socket T-wrench 1000 V

1/4"



1000 V IEC 60900

Art. No.	drive	l	kg	PU	EUR
110818	1/4"	115	0,156	1	44,41

Extensions 1000 V

1/4"

1000 V IEC 60900



Art. No.	drive	l	kg	PU	EUR
110814	1/4"	75	0,043	1	30,81
110816	1/4"	125	0,054	1	32,21

Extension with bit adapter 1000 V

1/4"



1000 V IEC 60900

Art. No.	Bit	drive	l	kg	PU	EUR
110860	1/4"	1/4"	40	0,023	1	30,27

Hexagon sockets 1000 V

1/4"



1000 V IEC 60900

Art. No.	drive	l	kg	PU	EUR
110820	5 1/4"	25	0,012	1	18,51
110822	6 1/4"	25	0,012	1	17,99
110824	7 1/4"	25	0,014	1	18,69
110826	8 1/4"	25	0,011	1	18,69
110828	9 1/4"	25	0,016	1	18,69
110830	10 1/4"	25	0,014	1	18,69
110832	11 1/4"	25	0,020	1	19,06
110834	12 1/4"	25	0,021	1	19,25
110836	13 1/4"	25	0,021	1	19,35
110838	14 1/4"	25	0,034	1	19,74

Inserts for hexagon socket screws 1000 V

1/4"



1000 V IEC 60900

Art. No.	drive	l	kg	PU	EUR
110840	3 1/4"	3	0,010	1	21,59
110842	4 1/4"	4	0,014	1	21,54
110844	5 1/4"	5	0,014	1	21,54
110846	6 1/4"	6	0,015	1	22,07
110848	8 1/4"	8	0,021	1	22,07

Handles with bit adapter 1000 V

1/4"



1000 V IEC 60900

Art. No.	Bit	drive	l	kg	PU	EUR
110864	1/4"	1/4"	120	0,160	1	46,02
110866	1/4"	1/4"	160	0,248	1	50,36
110868	1/4"	1/4"	250	0,310	1	52,78

Working under tension

haupa®

... convincing solutions

Tool case for household connections 1000 V

TQ 1/4"

Torque key 1000 V, 5 - 25 Nm

TQ

1000 V IEC 60900

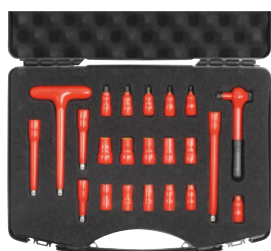


Art. No.	set	drive	kg	PU	EUR
110869	21	1/4"	1,000	1	1.103,10

Tool case 1000 V

1/4"

1000 V IEC 60900



Art. No.	set	drive	kg	PU	EUR
110871	22	1/4"	1,600	1	703,30

Reversible ratchets, torque wrenches, extensions, 3/8"

3/8"

Reversible ratchet VDE

3/8"



Art. No.	drive		kg	PU	EUR
220410	3/8"	200	0,300	1	106,32

Torque wrench 1000 V

TQ 3/8"



NEW

Art. No.	drive		Nm	kg	PU	EUR
220415	3/8"	390	10-50	0.950	1	572.83

Socket T-wrench VDE

3/8"



Art. No.	drive		kg	PU	EUR
220412	3/8"	200	0,241	1	84,52

Extensions VDE

3/8"



Art. No.	drive		kg	PU	EUR
220414	3/8"	125	0,150	1	56,29
220416	3/8"	250	0,250	1	68,42

Hexagon sockets VDE

3/8"



Art. No.	 drive		kg	PU	EUR
220418	8 3/8"	44,5	0,027	1	10,56
220420	10 3/8"	44,5	0,027	1	10,56
220422	12 3/8"	44,5	0,029	1	10,96
220424	13 3/8"	44,5	0,032	1	11,19
220426	14 3/8"	44,5	0,035	1	11,93
220428	17 3/8"	44,5	0,047	1	13,08
220430	19 3/8"	46	0,051	1	14,33
220432	22 3/8"	46	0,063	1	15,92

Hexagon sockets 1000 V, 80 mm

3/8"



NEW

Art. No.		drive		kg	PU	EUR
220418/80	8	3/8"	80	0,052	1	20,18
220420/80	10	3/8"	80	0,060	1	20,70
220422/80	12	3/8"	80	0,068	1	22,65
220424/80	13	3/8"	80	0,074	1	23,78
220426/80	14	3/8"	80	0,076	1	23,78
220428/80	17	3/8"	80	0,096	1	26,18
220430/80	19	3/8"	80	0,110	1	27,98

Fittings for hexagon socket screws VDE

3/8"



Art. No.	 drive 	kg	PU	EUR
220434	4 3/8" 60	0,036	1	12,34
220436	5 3/8" 60	0,040	1	12,34
220438	6 3/8" 60	0,041	1	12,57
220440	8 3/8" 60	0,042	1	14,33
220353	10 3/8" 60	0,052	1	22,05

Fittings for hexagon socket screws 1000 V, 122 mm

3/8"



Art. No.		drive		kg	PU	EUR
220434/122	4	3/8" 122	0,055	1	22,05	
220436/122	5	3/8" 122	0,056	1	22,05	
220438/122	6	3/8" 122	0,056	1	22,05	
220440/122	8	3/8" 122	0,072	1	22,05	
220353/122	10	3/8" 122	0,094	1	26,33	

VDE-sockets 3/8", XZN, 100 mm

3/8"



NEW

Art. No.		drive		kg	PU	EUR
220357/8	8	3/8"	100	0,087	1	24,98
220357/10	10	3/8"	100	0,091	1	24,98
220357/12	12	3/8"	100	0,101	1	26,55

Tool case VDE 3/8"

3/8"



Art. No.	set	drive	kg	PU	EUR
220402 *	16	3/8"	2,500	1	437,59

* Bestseller



Premium product

Torque wrenches, extensions, hexagon sockets, 3/8"



Reversible ratchet 1000 V



Art. No.	drive	l	kg	PU	EUR
110331/EN	3/8"	190	0,402	1	236,30

Locked torque wrench 1000 V



Torque must be specified when ordering!



1000 V IEC 60900

Art. No.	drive	Nm	l	kg	PU	EUR
300310/EN	3/8"	5-27	280	0,951	1	514,29

Torque wrenches 1000 V



1000 V IEC 60900

Art. No.	drive	l	Nm	kg	PU	EUR
110055/EN	3/8"	200	5-25	0,350	1	838,78
110056/EN	3/8"	280	5-25	0,920	1	841,01
110065/EN	3/8"	370	5-50	1,194	1	868,27

Torque T key 1000 V



1000 V IEC 60900

Art. No.	drive	Nm	l	kg	PU	EUR
110071	3/8"	12	150	0,540	1	319,23
110073	3/8"	18	150	0,540	1	319,23
110075	3/8"	25	150	0,540	1	319,23

Torque stoppers 1000 V



1000 V IEC 60900

Art. No.	drive	Nm	kg	PU	EUR
110456/EN	3/8"	12	0,220	1	257,01
110457/EN	3/8"	18	0,220	1	257,01
110458/EN	3/8"	25	0,224	1	257,01

Socket T-wrench 1000 V



Art. No.	drive	BL	hdl.	kg	PU	EUR
110039/EN	3/8"	200	160	0,369	1	56,51

Extensions 1000 V



Art. No.	drive	l	kg	PU	EUR
110337/EN	3/8"	125	0,292	1	64,24
110335/EN	3/8"	250	0,280	1	60,63

Extensions with bit adapter 1000 V



1000 V IEC 60900

Art. No.	Bit	drive	l	kg	PU	EUR
110861	1/4"	3/8"	125	0,137	1	60,73

Hexagon sockets 1000 V



Art. No.	drive	l	kg	PU	EUR
110363/EN	8 3/8"	40	0,035	1	30,05
110364/EN	9 3/8"	40	0,032	1	30,05
110365/EN	10 3/8"	40	0,031	1	30,09
110366/EN	11 3/8"	40	0,037	1	30,05
110367/EN	13 3/8"	40	0,032	1	30,09
110368/EN	17 3/8"	40	0,050	1	31,83
110369/EN	19 3/8"	40	0,060	1	31,97
110371/EN	14 3/8"	40	0,070	1	29,26
110700/EN	12 3/8"	40	0,070	1	30,89
110702/EN	22 3/8"	40	0,061	1	36,61

Hexagon sockets 1000 V, extra long



Art. No.	drive	l	kg	PU	EUR
110710	10 3/8"	125	1,051	1	90,49
110712	12 3/8"	125	1,051	1	90,49
110713	13 3/8"	125	1,051	1	90,49
110714	14 3/8"	125	1,051	1	90,49
110715	17 3/8"	125	1,051	1	92,05
110716	19 3/8"	125	1,051	1	92,48
110717	22 3/8"	125	0,035	1	95,78

Fittings for hexagon socket screws 1000 V



Art. No.	drive	l	kg	PU	EUR
300302/EN	4 3/8"	65	0,068	1	41,33
300296/EN	5 3/8"	65	0,065	1	41,33
300298/EN	6 3/8"	65	0,068	1	41,33
300299/EN	8 3/8"	65	0,070	1	41,61
300305/EN	10 3/8"	65	0,082	1	43,56

Tool case 1000 V



with locking system



Art. No.	set	drive	kg	PU	EUR
220147	17	3/8"	3,400	1	1.196,44

Tool case 1000 V



without locking system



Art. No.	set	drive	kg	PU	EUR
220212	13	3/8"	2,500	1	730,08

Tool case 1000 V



Torque key 1000 V, 5 - 50 Nm



Art. No.	set	drive	kg	PU	EUR
110873	14	3/8"	3,870	1	1.846,64

haupa®

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Reversible ratchets, torque wrenches, extensions, 1/2" 1/2"

Reversible ratchet VDE 1/2"



Art. No.	drive	l	kg	PU	EUR
220450	1/2"	250	0,550	1	139,79

Socket T-wrench VDE 1/2"



Art. No.	drive	l	kg	PU	EUR
220452	1/2"	200	0,330	1	88,84

Extensions VDE 1/2"



Art. No.	drive	l	kg	PU	EUR
220454	1/2"	125	0,208	1	59,92
220456	1/2"	250	0,411	1	74,23

Hexagon sockets VDE 1/2"



Art. No.	drive	l	kg	PU	EUR
220458	10 1/2"	55	0,055	1	13,69
220460	11 1/2"	55	0,055	1	13,69
220462	12 1/2"	55	0,058	1	13,69
220464	13 1/2"	55	0,058	1	13,69
220466	14 1/2"	55	0,061	1	13,83
220468	17 1/2"	55	0,069	1	14,70
220470	19 1/2"	57	0,072	1	15,41
220478	22 1/2"	57	0,087	1	18,07
220480	24 1/2"	57	0,095	1	18,66
220482	27 1/2"	57	0,125	1	23,26
220484	32 1/2"	57	0,170	1	28,52

Fittings for hexagon socket screws VDE 1/2"



Art. No.	drive	l	kg	PU	EUR
220486	4 1/2"	120	0,113	1	19,78
220488	5 1/2"	120	0,113	1	19,78
220490	6 1/2"	120	0,113	1	19,78
220492	8 1/2"	120	0,115	1	19,78
220494	10 1/2"	120	0,134	1	21,54

Tool case VDE 1/2" 1/2"



Art. No.	set	drive	kg	PU	EUR
220404 *	20	1/2"	4,000	1	577,33

SysCon S „VDE-Socket“ 1/2" 1/2"



Art. No.	set	empty	kg	PU	EUR
220612	20	220370	4,300	1	661,17

Torque wrenches, extensions, hexagon sockets, 1/2" 1/2"

Reversible ratchet 1000 V 1/2"



Art. No.	drive	l	kg	PU	EUR
110332/EN	1/2"	255	0,687	1	254,28

Locked torque wrench 1000 V TQ 1/2"

Torque must be specified when ordering!



Art. No.	drive	Nm	l	kg	PU	EUR
300312/EN	1/2"	5-27	280	1,052	1	514,29

Torque wrenches 1000 V TQ 1/2"



Art. No.	drive	Nm	l	kg	PU	EUR
110058/EN	1/2"	2 - 27	280	1,035	1	863,93
110066/EN	1/2"	5 - 50	370	1,121	1	868,27
110067/EN	1/2"	20 - 100	460	1,493	1	902,07
110068/EN	1/2"	60 - 220	530	1,300	1	983,60

Socket T-wrench 1000 V 1/2"



Art. No.	drive	BL	hdl.	kg	PU	EUR
110040/EN	12,5	200	160	0,452	1	58,58

Extensions 1000 V 1/2"



Art. No.	drive	l	kg	PU	EUR
110336/EN	1/2"	125	0,197	1	66,10
110338/EN	1/2"	250	0,389	1	60,50

Extensions with bit adapter 1000 V



1000 V IEC 60900

Art. No.	Bit	drive	↔	kg	PU	EUR
110862	1/4"	1/2"	250	0,165	1	64,18

Hexagon sockets 1000 V, 50 mm



1000 V IEC 60900

Art. No.	drive	↔	kg	PU	EUR
110339/EN	8 1/2"	50	0,080	1	25,17
110340/EN	10 1/2"	50	0,056	1	25,08
110342/EN	11 1/2"	50	0,062	1	25,08
110344/EN	12 1/2"	50	0,062	1	25,08
110346/EN	13 1/2"	50	0,066	1	25,08
110348/EN	14 1/2"	50	0,063	1	25,38
110350/EN	17 1/2"	50	0,076	1	25,63
110352/EN	19 1/2"	50	0,072	1	25,63
110354/EN	22 1/2"	50	0,104	1	29,03
110356/EN	24 1/2"	50	0,141	1	30,47
110358/EN	27 1/2"	50	0,191	1	31,48
110360/EN	30 1/2"	50	0,224	1	31,97
110362/EN	32 1/2"	50	0,268	1	32,55

Hexagon sockets DIN 7448, 1000 V, 80 mm



1000 V IEC 60900

Art. No.	drive	↔	kg	PU	EUR
110373/EN	10 1/2"	80	0,085	1	58,63
110374/EN	11 1/2"	80	0,110	1	58,63
110375/EN	13 1/2"	80	0,123	1	58,63
110376/EN	14 1/2"	80	0,119	1	59,13
110377/EN	17 1/2"	80	0,157	1	60,00
110378/EN	19 1/2"	80	0,168	1	60,00
110379/EN	22 1/2"	80	0,230	1	64,30

Hexagon sockets 1000 V, 125 mm



1000 V IEC 60900

Art. No.	drive	↔	kg	PU	EUR
110346/125	13 1/2"	125	0,250	1	81,84
110348/125	14 1/2"	125	0,260	1	81,84
110350/125	17 1/2"	125	0,280	1	82,26
110352/125	19 1/2"	125	0,295	1	82,26
110354/125	22 1/2"	125	0,310	1	85,19
110356/125	24 1/2"	125	0,330	1	85,94
110358/125	27 1/2"	125	0,350	1	87,84
110360/125	30 1/2"	125	0,380	1	88,75
110362/125	32 1/2"	125	0,410	1	89,13

Hexagon sockets 1000 V, 250 mm



1000 V IEC 60900

Art. No.	drive	↔	kg	PU	EUR
110346/250	13 1/2"	250	0,485	1	85,32
110348/250	14 1/2"	250	0,500	1	85,32
110350/250	17 1/2"	250	0,530	1	85,94
110352/250	19 1/2"	250	0,530	1	85,94
110354/250	22 1/2"	250	0,580	1	86,30
110356/250	24 1/2"	250	0,605	1	89,48
110358/250	27 1/2"	250	0,635	1	91,51
110360/250	30 1/2"	250	0,660	1	92,30
110362/250	32 1/2"	250	0,670	1	92,68

Fittings for hexagon socket screws 1000 V



Art. No.	drive	↔	kg	PU	EUR
300294/EN	4 1/2"	70	0,094	1	42,09
300297/EN	5 1/2"	70	0,096	1	42,22
300295/EN	6 1/2"	70	0,101	1	42,22
300303/EN	8 1/2"	70	0,100	1	41,72
300306/EN	10 1/2"	70	0,106	1	45,65

Tool case 1000 V



with locking system



Art. No.	set	drive	kg	PU	EUR
220205/EN	16	1/2"	4,080	1	1.010,62

Tool case „Biber“ 1000 V



with locking system



Art. No.	set	drive	kg	PU	EUR
220146	26	1/2"	5,000	1	1.128,37

Safety tools

Alignment tool for sector conductor 1000 V



Art. No.	mm²	kg	PU	EUR
110704	95 - 150	0,068	1	138,32
110705	185 - 240	0,088	1	211,14

Universal alignment tool for sector conductor 1000 V

50, 70, 95, 150, 185, 240 mm²



1000 V IEC 60900

Art. No.	kg	PU	EUR
110709	1,051	1	277,99

Counterholder 1000 V for Screw cable shoes



1000 V IEC 60900

Art. No.				kg	PU	EUR
120101	0	15	240	0,680	1	156,38
120103	15	40	220	0,424	1	181,85
120104	25	50	300	0,680	1	440,28

Plastic wedges 1000 V



1000 V IEC 60900

Art. No.	↔	W	kg	PU	EUR
120102	225	45	0,234	1	54,88

Plastic wedges 1000 V



1000 V IEC 60900

Art. No.	↔	W	kg	PU	EUR
120100	200	25	0,085	1	37,63

Plastic wedges 1000 V



1000 V IEC 60900

Art. No.		kg	PU	EUR
120094	without groove	0,051	1	22,62

Working under tension

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Cleaning brushes Safety Line

Art. No.	W	kg	PU	EUR
150036	420	25	0,053	1 17,66
150037	420	28	0,061	1 19,28
150038	420	50	0,100	1 21,26

Electrician's safety levels

Art. No.	kg	PU	EUR
240057	400	0,188	1 21,59
240058	600	0,274	1 20,06

PVC hammer 1000 V

Art. No.	Ø	kg	PU	EUR
180295	290	25	0,570	1 157,71
180297	290	35	0,825	1 175,02

Combined dowel and contact spanners

Art. No.	kg	PU	EUR
120002 *	105	0,046	1 13,24

Insulated tweezers VDE 1000 V

pointed

Art. No.	kg	PU	EUR
211060	130	0,029	1 30,47

Insulated tweezers VDE 1000 V

pointed round, bent

Art. No.	kg	PU	EUR
211062	150	0,031	1 31,61

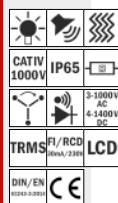
Insulated tweezers VDE 1000 V

wide round, flat

Art. No.	kg	PU	EUR
211064	145	0,042	1 29,80

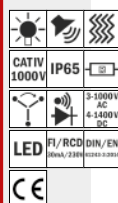
Voltage testers

Voltage tester "Profi LCDplus II"



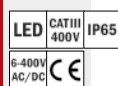
Art. No.	TMA	kg	PU	EUR
103826	3-1000	300	0,600	1 208,56

Voltage tester "Profi LEDplus II"



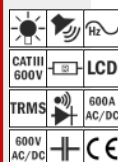
Art. No.	TMA	kg	PU	EUR
103824	6-1000	300	0,280	1 135,70

Voltage tester "Basic +"



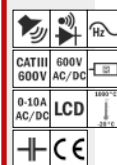
Art. No.	TMA	kg	PU	EUR
103800	6-400	120	0,097	1 47,35

"Multi Clamp II" - digital miniature clamp transducer AC/DC 600 V



Art. No.	kg	PU	EUR
103809	0,433	1	252,10

"Multi Check III" - digital high-capacity multimeter



Art. No.	kg	PU	EUR
103815	0,433	1	196,33

Voltage tester "TestPen Profi"



Art. No.	TMA	kg	PU	EUR
103817	12-1000	140	0,190	1 54,44

Voltage tester VDE/GS



Art. No.	TMA	kg	PU	EUR
100700 *	125-250	190	0,036	1 3,43

Personal protection equipment

HUPsafetyGloves - Insulating finger gloves according to DIN EN 60903

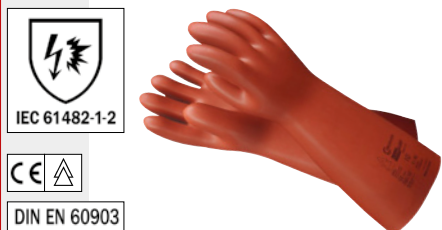
Note: The insulating gloves HUPsafetyGloves must be stored in their original packaging in order to avoid damage to the product.*



Art. No.	Class	ST size	kg	PU	EUR
120004	00	360 1,1	9 0,270	1	55,61
120005	00	360 1,1	10 0,293	1	55,61
120006 *	0	360 1,6	9 0,270	1	66,16
120007 *	0	360 1,6	10 0,280	1	66,16
120007/1	0	360 1,6	11 0,300	1	66,16
120006 561	1	360 2,1	10 0,646	1	101,09
120006 564 S	2	360 2,9	10 0,727	1	119,57
120006 587	3	360 3,5	10 0,947	1	140,42

HUPflashGloves - Insulating finger gloves according to DIN EN 60903, Arc flash tested

Note: The insulating gloves HUPflashGloves must be stored in their original packaging in order to avoid damage to the product.*



Art. No.	Class	ST size	kg	PU	EUR
121020/9	0	410 2,9	9 0,510	1	145,93
121020/10	0	410 2,9	10 0,520	1	145,93
121020/11	0	410 2,9	11 0,530	1	145,93
121021/10	1	410 3,4	10 0,670	1	179,60
121022/10	2	410 3,9	10 0,770	1	211,30
121023/10	3	410 4,2	10 0,800	1	273,82
121024/10	4	410 4,8	10 0,940	1	379,41

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

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	EUR
120109	0,800	1	608,23

Cotton gloves for putting underneath



Art. No.	kg	PU	EUR
120003	275 0,041	1	8,70

Heat protection gloves acc. to EN 407



Art. No.	kg	PU	EUR
120011	260 0,039	1	50,74

Outer gloves



Art. No.	size	ST	kg	PU	EUR
120028	L 10	300	0,8 0,070	1	78,63

Set with protective gloves EN 60903

Content:
120006*, 120028, 120003



Art. No.	set	kg	PU	EUR
120029	400 4	0,900	1	171,25

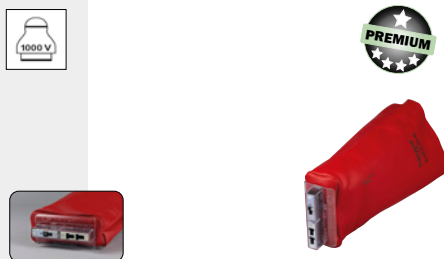
Set with protective gloves EN 60903 light

Content:
120006*, 120003



Art. No.	set	kg	PU	EUR
120037	400 3	0,640	1	92,56

Safety fuse grips



Art. No.	kg	PU	EUR
120012 *	0,563	1	83,40

Leather working glove



Art. No.	size	kg	PU	EUR
120310	L 10,5 250	0,106	12	3,66

PU textile glove



Art. No.	size	kg	PU	EUR
120300/6	XXS 6	250 0,027	12	1,49
120300/7	XS 7	250 0,027	12	1,49
120300/8	S 8	250 0,027	12	1,49
120300/9	M 9	250 0,027	12	1,49
120300/10	L 10	250 0,027	12	1,49
120300/11	XL 11	250 0,027	12	1,49

PU cut-protection glove, level 3



Art. No.	size	kg	PU	EUR
120302/9	M 9	260 0,049	1	8,53
120302/10	L 10	260 0,049	1	8,53
120302/11	XL 11	260 0,049	1	8,53

PU cut-protection glove, level 5



Art. No.	size	kg	PU	EUR
120304/9	M 9	260 0,069	1	9,26
120304/10	L 10	260 0,069	1	9,26
120304/11	XL 11	260 0,069	1	9,26

Electricians' protection helmets acc. to DIN EN 50365

⚡ 1000 V | Class 0



Art. No.	kg	PU	EUR
120008	0,558	1	29,52
120008 GELB	0,343	1	29,52
120008 ROT *	0,343	1	29,52
120008 WEISS	0,343	1	29,52

Electricians' protection helmets acc. to DIN EN 50365, Arc flash tested

⚡ 1000 V | Class 0



Art. No.	kg	PU	EUR
120041	0,370	1	64,36

Electricians' protection visor acc. to EN 166



Art. No.	kg	PU	EUR
150377	0,373	1	213,05

Electricians' safety face mask class II



Art. No.	kg	PU	EUR
120034	0,275	1	305,07

Electricians' protection visor acc. to EN 166



Art. No.	kg	PU	EUR
120010 *	0,275	1	86,67

Safety classes acc. to EN 166



Art. No.	kg	PU	EUR
120087 *	0,031	1	8,08

Safety classes acc. to EN 166



Art. No.	kg	PU	EUR
120088 *	0,029	1	9,01

Ear defenders acc. to EN 352



Art. No.	dB	kg	PU	EUR
120112	26	0,184	1	49,92

Ear defenders acc. to EN 352



Art. No.	dB	kg	PU	EUR
120111	23	0,143	1	28,42

Ear muffs for helmet

Ear muffs including helmet holder, SNR 23 for all currently available protective helmets.



Art. No.	dB	kg	PU	EUR
120116	23	0,184	1	49,92

Ear protection plugs



Art. No.	dB	kg	PU	EUR
120115	38	0,010	1	4,10

Dust masks



Art. No.	FFP	kg	PU	EUR
120120	FFP1	0,010	1	3,08
120122	FFP2	0,014	1	7,97

Electricians' boots acc. to EN 50321 Class 0



Art. No.	size	kg	PU	EUR
120014	42	2,160	1	193,67
120015	43	2,235	1	193,67
120016	44 - 45	2,400	1	193,67
120017	46	2,550	1	193,67
120018	47	2,160	1	193,67

Security bag, empty



Art. No.	H	W	D	kg	PU	EUR
300420	600	390	50	0,680	1	46,31

Safety-sets VDE/GS

Content:

- 300420
- 120007*
- 120008 ROT
- 120010
- 120012
- 120030



Art. No.	set	kg	PU	EUR
300228 *	6	6,860	1	375,88
300229	5 without mat	3,480	1	310,73

SysCon XL „SafetySet“

SysCon

Content:

- 220650
- 120007*
- 120008 ROT
- 120010
- 120012



Art. No.	set	empty	kg	PU	EUR
220652	5	220650	6,940	1	438,71

Climbing irons acc. to DIN 48 345

wide counter



Art. No.	kg	PU	EUR
150280	4,050	1	1.182,29

Safety belts acc. EN 358



Art. No.	kg	PU	EUR
150240	1,210	1	188,18

Fallstop acc. to EN 354



Art. No.	kg	PU	EUR
150274	1,090	1	157,53

Travelling safety device DIN 353-2, Type ASK 1



Art. No.	Ø	kg	PU	EUR
150275	12 5 m	1,953	1	390,24
150276	12 10 m	2,482	1	417,45
150277	12 15 m	3,062	1	511,32
150278	12 20 m	3,174	1	472,58
150279	12 25 m	3,675	1	494,02

Safety harness DIN EN 361



Art. No.	kg	PU	EUR
150270	1,614	1	186,17

Personal safety set



Art. No.	set	kg	PU	EUR
150258	4	4,961	1	662,91

Safety tools

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	W	ST	kg	PU	EUR
120030 *	17	1000	1000	3	3,754	1 92,16
120031	17	1000	1000	3	333,000	1 921,60
120033	36	1000	1000	4	5,42,000	1 1.116,68

Isolating magnetic rubber towels

1000V



Art. No.	W	ST	kg	PU	EUR
120160	300 500	1 6	0,037	1	417,68
120162	500 700	1 12	0,037	1	929,62
120164	300 700	1 8	0,037	1	529,73
120166	1100 1100	1 20	0,037	1	1.415,36

VDE magnet for rubber cloth

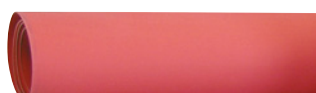
1000V



Art. No.	W	ST	kg	PU	EUR
120168	70 70	1 1	0,037	1	37,90

Rubber towels acc. to VDE 0680/1

1000V



Art. No.	W	ST	kg	PU	EUR
120040	120 120	1,6	0,037	1	9,71
120042	350 250	1,6	0,193	1	34,93
120044	600 600	1,6	1,000	1	130,35
120046 *	1000 1000	1,6	2,485	1	123,36
120048	1200 1200	1,6	3,200	1	433,67

Covering blankets transparent



Art. No.	W	ST	kg	PU	EUR
120200	50000 1300	0,5	41,500	1	6.350,96
150322	25000 1200	1	38,000	1	4.270,17

Covering blankets transparent



Art. No.	W	ST	kg	PU	EUR
150302	1000 600	1	0,750	1	288,31
150304	1000 600	0,5	0,332	1	280,45
150306	1000 400	1	0,520	1	234,01
150308	1000 400	0,5	0,260	1	223,77
150310	1000 300	1	0,380	1	213,49
150312	1000 300	0,5	0,190	1	210,50
150314	600 400	1	0,340	1	172,48
150316	600 400	0,5	0,171	1	164,65
150318	400 300	1	0,170	1	130,30
150320	400 300	0,5	0,100	1	123,65

Plastic clips 1000 V

1000V



Art. No.	kg	PU	EUR
120049	80 25	0,029	1 17,83
120050 *	160 40	0,069	1 18,34

Self adhesive PVC tape

1000V



Art. No.	kg	PU	EUR
120095	10000	0,192	1 44,32
120096	10000	0,190	1 44,32

Slip on bushes 1000 V

1000 V IEC 60900



Art. No.	Ø	No.	kg	PU	EUR
120060 *	80 10	1	0,008	1	1,80
120062	80 10	2	0,008	1	1,80
120064	80 10	3	0,008	1	1,80

Slip on bushes 1000 V

1000 V IEC 60900



Art. No.	Ø	kg	PU	EUR
120070	75 10	0,011	1	5,18
120072	100 20	0,024	1	5,84
120074	120 30	0,046	1	6,69
120071	135 40	0,372	1	9,77
120069	155 50	0,172	1	15,76
120073	150 60	0,144	1	19,74

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Insulator cover for gable insulators 1000 V

1000 V IEC 60900



Art. No.	W	kg	PU	EUR
120079	245 270	0,900	1	58,15

Insulator cover for gable insulators 1000 V

1000 V IEC 60900



Art. No.	W	kg	PU	EUR
120089	115 270	1,100	1	56,82

Insulating and protecting covers 1000 V

1000 V IEC 60900



Art. No.	W	kg	PU	EUR
120057	80	0,400	1	40,42
120059	300	0,775	1	48,43

NH-protecting caps 1000 V

1000 V IEC 60900



Art. No.	W	kg	PU	EUR
120058	315 170	0,390	1	42,88

NH-protecting caps 1000 V

1000 V IEC 60900



Art. No.	W	kg	PU	EUR
120077	170 140	0,155	1	39,22
120078	255 135	0,205	1	40,22

Sealing pliers and accessories

Sealing pliers



Art. No.	Ø	kg	PU	EUR
210700 *	125 8	0,243	1	133,42
210702	145 9	0,316	1	142,39
210704	165 10	0,448	1	158,74

Dies for sealing pliers



Art. No.	Ø	kg	PU	EUR
210710	8	0,004	1	5,26
210712	9	0,004	1	5,26
210714	10	0,006	1	5,14

Engraving for sealing pliers

Special engraving on request

Art. No.	PU	EUR
210731 up to 3 letters	1	35,52
210732 every further letter	1	11,84
210733 every border	1	35,40

Lead seals



Art. No.	Ø	Quant. per kg	kg	PU	EUR
150340	8	850	1,080	1	46,64
150342	9	600	1,110	1	42,04
150344	10	400	1,010	1	41,32

Plastic seals



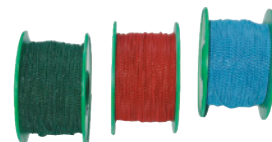
Art. No.	Ø	kg	PU	EUR
150343 *	9	0,00020	1000	56,76
150345	10	0,00030	1000	62,86

Seal wire



Art. No.	Ø1	Ø2	kg	PU	EUR
150360 *	115 m	0,5 0,5	0,532	1	21,72
150362	230 m	0,5 0,5	1,041	1	38,33
150364	190 m	0,5 0,3	0,530	1	25,24
150366	380 m	0,5 0,3	1,035	1	44,64
150368	300 m	0,3 0,3	0,533	1	35,05
150370	600 m	0,3 0,3	1,037	1	64,28

Plastic seal wire



Art. No.	Ø1	Ø2	kg	PU	EUR
150375 BLAU	100 m	0,5 0,6	0,199	1	25,69
150375 GRÜN	100 m	0,5 0,6	0,220	1	25,70
150375 ROT	100 m	0,5 0,6	0,207	1	25,70

Accessories

Parallel rope tension clamps



Art. No.	mm²	Ø	load	kg	PU	EUR
130064	6 - 35	3 - 8	1000	0,890	1	177,05
130066	16 - 70	4 - 12	1400	1,262	1	206,14
130068	50 - 100	8 - 16	2500	1,920	1	285,81

Tackle blocks



Art. No.	Ø	load	kg	PU	EUR
130004	50 8	200	1,820	1	215,94
130006	60 10	250	1,700	1	248,49

Hemp tackle block ropes



Art. No.	Ø	kg	PU	EUR
130042	20000 8	0,950	1	37,96
130044	20000 10	1,519	1	53,14

Screwdrivers

Electricians' screwdrivers Slot



Art. No.	SB	KSt	BL		kg	PU	EUR
101604 *	2,5	0,4	75	160	0,027	1	4,15
101606	4	0,8	100	195	0,051	1	4,88
101608	4	0,8	125	220	0,054	1	5,43
101610	5	1	150	245	0,067	1	7,12
101612	5	1	175	270	0,069	1	7,53
101614	5	1	200	295	0,074	1	7,95

Engineers' screwdrivers Slot



Art. No.	SB	KSt	BL	kg	PU	EUR	
101640	5	0,4	75	170	0,056	1	6,05
101642 *	6	1,2	100	205	0,090	1	8,21
101644	7	1,2	125	230	0,109	1	9,09
101646	8	1,2	150	270	0,160	1	11,78
101648	9	1,6	175	295	0,170	1	13,77
101650	10	1,6	200	320	0,238	1	14,21

Cross slotted screwdrivers Phillips



Art. No.	size	BL		kg	PU	EUR
101684	0	60	145	0,032	1	5,15
101686	1	80	175	0,055	1	6,35
101688 *	2	100	205	0,087	1	8,21
101690	3	150	270	0,161	1	11,88

Cross slotted screwdrivers Pozidriv



Art. No.	size	BL		kg	PU	EUR
102612	1	80	175	0,055	1	7,84
102614 *	2	100	205	0,088	1	9,69
102616	3	150	270	0,160	1	14,22

Screwdrivers Tx



Art. No.	size	BL		kg	PU	EUR
101229/6	6	100	185	0,036	1	8,11
101230	8	100	185	0,036	1	8,11
101200	9	100	185	0,036	1	10,11
101202	10	100	195	0,057	1	10,63
101204	15	100	195	0,054	1	10,63
101206	20	100	195	0,058	1	11,48
101208	25	125	195	0,064	1	11,56
101210	27	125	230	0,093	1	12,31
101211	30	150	255	0,093	1	13,71

Screwdrivers Square



Art. No.	size	BL		kg	PU	EUR
103130	0	60	145	0,032	1	4,39
103132	1	80	175	0,055	1	5,13
103134	2	100	205	0,087	1	6,10
103136	3	150	270	0,161	1	9,37

Screwdriver set Tx

Content:

- 101202
- 101204
- 101206
- 101208
- 101211



Art. No.	Fo.	set	kg	PU	EUR
101212/S *	TX	5	0,337	1	59,00

Screwdrivers - blade PCV covered

Electricians' screwdrivers Slot

blade PCV covered



Art. No.	SB KSt		BL		kg	PU	EUR
101520 *	2,5	0,4	75	160	0,027	1	4,65
101521	3	0,5	100	195	0,030	1	4,74
101522	4	0,8	100	195	0,051	1	5,80
101524	4	0,8	125	220	0,054	1	6,29
101526	5	1	150	245	0,068	1	8,11
101528	5	1	175	270	0,072	1	8,38
101530	5	1	200	295	0,078	1	9,30

Engineers' screwdrivers Slot

blade PCV covered



Art. No.	SB		KSt	BL	kg	PU	EUR
101532	5	1	75	170	0,057	1	6,62
101534	6	1,2	100	205	0,091	1	9,17
101536	7	1,2	125	230	0,114	1	9,86
101538	8	1,2	150	270	0,146	1	12,70
101540	9	1,6	175	295	0,210	1	15,04
101541	10	1,6	200	320	0,214	1	15,84

Cross slotted screwdrivers Phillips

blade PCV covered



Art. No.	size	BL		kg	PU	EUR
101542	0	60	145	0,032	1	6,01
101544	1	80	175	0,059	1	7,43
101546 *	2	100	205	0,091	1	9,01
101548	3	150	270	0,147	1	13,27

Cross slotted screwdrivers Pozidriv

blade PCV covered



Art. No.	size	BL		kg	PU	EUR
101550	1	80	175	0,056	1	8,27
101552 *	2	100	205	0,088	1	10,01
101554	3	150	270	0,146	1	15,84

Screwdriver set

blade PCV covered

Content:

- 101520
- 101524
- 101534
- 101536
- 101544
- 101547



Art. No.	Fo.	set	kg	PU	EUR
101560	PH	6	0,431	1	38,18

Screwdriver set

blade PCV covered

Content:

- 101520
- 101524
- 101534
- 101536
- 101550
- 101553



Art. No.	Fo.	set	kg	PU	EUR
101562	PZ	6	0,429	1	39,43

Screwdrivers

Stubby gasifier screwdrivers



Art. No.	SB	BL		kg	PU	EUR
103120	6	30	80	0,050	1	5,31
103122	8	40	90	0,051	1	5,76

Stubby gasifier cross slot screwdrivers Phillips



Art. No.	size	BL		kg	PU	EUR
103080	1	30	80	0,051	1	5,44
103082	2	40	90	0,051	1	5,92

Piercing awls



Art. No.	Fo.	Ø	BL	kg	PU	EUR
103470	○	6	100	0,083	1	6,11
103472	□	6	100	0,085	1	6,62

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Socket wrenches

Socket wrenches



Art. No.	size	BL	kg	PU	EUR
101484	5	125 220	0,105	1	10,21
101486	5,5	125 220	0,107	1	10,21
101488	6	125 220	0,110	1	10,21
101490	7	125 230	0,113	1	10,74
101492	8	125 230	0,115	1	11,14
101494	9	125 230	0,120	1	11,62
101496	10	125 230	0,124	1	12,01
103498	11	125 245	0,111	1	23,86
101500	12	125 245	0,165	1	14,77
101502	13	125 245	0,171	1	16,55

Socket wrenches set

Content:

- 101484
- 101486
- 101490
- 101492
- 101496
- 103498
- 101502



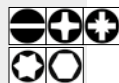
Art. No.	set	kg	PU	EUR
101510	7	0,898	1	90,20

HAUPA replaceable blade system

Industrial screwdriver set „Vario S2“ with replaceable dual blades.

Blade types:

- Slotted 3, 4, 5, 7
- Phillips 0, 1, 2, 3
- Pozidriv 0, 1, 2, 3
- Tx 10, 15, 20, 25
- Hexagonal 2, 3, 4, 5



Art. No.	set	kg	PU	EUR
104008-1	11	1,060	1	89,58

HAUPA replaceable blade system „VarioTQ“

„VarioTQ“ dynamometric screwdriver with replaceable blades

VarioTQ



Art. No.	Fo.	Nm	kg	PU	EUR
103000-1	Mix	1 - 6	0,835	1	154,91
103002-1	Mix	0,5 - 3,5	0,835	1	201,71

„VarioTQ“ nylon bag – empty



Art. No.	W	H	D	kg	PU	EUR
103034-1	250	135	30	0,080	1	17,93

Exchangeable „VarioTQ“ handle



Art. No.	size	Nm	kg	PU	EUR
103070	125	1 - 6	0,350	1	93,50
103072	125	0,5 - 3,5	0,350	1	93,50

Square socket key



Art. No.	Fo.	BL	CW	kg	PU	EUR
102784	SQ	40	8	0,050	1	3,93

Replaceable blade – slotted blade



Art. No.	size	BL	kg	PU	EUR
103010	SL 3 + 4	175	0,040	1	4,69
103012	SL 5,5 + 6,5	175	0,040	1	4,69

Replaceable blade – Phillips blade



Art. No.	size	BL	kg	PU	EUR
103014	PH 0 + 1	175	0,040	1	3,73

Replaceable blade – pozidrive blade



Art. No.	size	BL	kg	PU	EUR
103016	PZ 0 + 1	175	0,040	1	3,73

Replaceable blade – Phillips blade/pozidrive blade



Art. No.	size	BL	kg	PU	EUR
103018	PH + PZ 2 + 2	175	0,040	1	3,73

Replaceable blade – pozidrive blade/slotted



Art. No.	size	BL	kg	PU	EUR
103028	PZ/FL 1 + 2	175	0,040	1	4,40

Replaceable blade – torx blade



Art. No.	size	BL	kg	PU	EUR
103020	TX 10 + 15	175	0,040	1	3,93
103022	TX 20 + 25	175	0,040	1	3,93

Replaceable blade – hex blade



Art. No.	size	BL	kg	PU	EUR
103024	HEX 2 + 3	175	0,040	1	3,93
103026	HEX 4 + 5	175	0,040	1	3,93

Replaceable blade – Square



Art. No.	size	BL	kg	PU	EUR
103030	SQ 0 + 2	175	0,040	1	4,38
103032	SQ 1 + 3	175	0,040	1	4,38

Replacement blades suitable for the "VarioTQ" and "Vario S2" systems

Electronic screwdrivers

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, slotted



Art. No.	SB	KSt	BL	kg	PU	EUR
100704	0,8	0,2	60	150	0,023	1 4,87
100250	1	0,4	50	150	0,014	1 4,87
100704 A	1,2	0,2	60	150	0,021	1 4,87
100241	2,5	0,4	60	150	0,015	1 4,99
100243	3,5	0,5	100	150	0,018	1 4,87
100252	1,6	0,4	50	150	0,014	1 4,87
100257	2	0,5	50	150	0,015	1 4,87
100259	2,4	0,4	75	175	0,017	1 5,53
100261	3	0,4	100	200	0,020	1 5,70

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, Tx/S-Tx



Art. No.	Fo. size	BL	kg	PU	EUR
100741	TX 4	50	150	0,017	1 4,87
100742	TX 5	50	150	0,018	1 4,87
100718 A	TX 6	50	150	0,018	1 4,87
100720	S-TX 7	50	150	0,014	1 4,87
100721	S-TX 8	50	150	0,018	1 4,87
100712	S-TX 9	50	150	0,018	1 4,87
100713	S-TX 10	50	150	0,016	1 4,87
100723	S-TX 15	50	150	0,020	1 4,87
100734	S-TX 20	50	150	0,020	1 4,87

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, hexagonal



Art. No.	size	BL	kg	PU	EUR
100728	1,5	50	150	0,014	1 4,87
100729	2	50	150	0,015	1 4,87
100729 A	2,5	50	150	0,017	1 4,87
100736	3	50	150	0,020	1 4,87

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, cross recess (Phillips)



Art. No.	size	BL	kg	PU	EUR
100714	000	50	150	0,015	1 4,87
100715	00	50	150	0,022	1 4,87
100716	0	50	150	0,024	1 4,87
100249	1	50	150	0,017	1 4,87

ESD electronic screwdrivers

Blade made from chrome molybdenum vanadium steel, chromed with black tip, Tri-Wing



Art. No.	size	BL	kg	PU	EUR
100738	Tri 2,4	50	150	0,017	1 4,87

ESD electronic screwdriver set

Content: 1 ESD electronic screwdriver each
1.6 x 50, 2.0 x 50, 2.4 x 50, 3.0 x 50 and
1 Phillips size 1.0 and 00 x 50 each



Art. No.	set	kg	PU	EUR
104010	7	0,225	1	36,04

HAUPA Electronic screwdriver set standard

Content: 1 Electricians' screwdriver size 1.6 x 50, 2.0 x 50, 2.4 x 50, 3.0 x 50 and 1 Phillips size 1.0 and 00 x 50



Art. No.	set	kg	PU	EUR
104000 *	7	0,221	1	24,67

Electronic screwdriver set

Content: 4 x hex head 3, 4, 5, 6 and 8 exchangeable screwdriver blades (slot/Phillips/Tx/hex head)



Art. No.	set	kg	PU	EUR
104004	13	0,288	1	35,83

Electronic screwing bit set

Content: 1 bitholder, 2 nuts of 5 + 6 mm, 30 bits for slot/Phillips/Pozidriv/Tx/hex head:
4 Bits PH 000, 00, 0, 1
2 Bits PZ 0, 1
7 Bits Slot 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	EUR
104002 *	34	0,230	1	35,43

Precision screwdrivers

Claw retrievers



Art. No.	kg	PU	EUR
100366	525	0,060	1 4,83

Checking mirrors



Art. No.	kg	PU	EUR
100680	0,028	1	13,14

Magnetic retriever



Art. No.	kg	PU	EUR
100694	520	0,097	1 19,34

Allen keys

Allen keys set

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chrome plated, on key ring.

Content:

size 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. No.	size	set	kg	PU	EUR
100640 *	2,5-10	8	0,250	1	9,37

Allen keys set

chrome vanadium steel, (59 Cr-Mo-V 4), im metal clip, key bronzed, DIN 911.

Content:

Art. 100630: 2,5-3-4-5-6-8 mm

Art. 100633: 1,5-2,5-3-4-5-6 mm

Art. 100634: 2,5-3-4-5-6-8-10 mm



Art. No.	size	set	kg	PU	EUR
100630	2,5-8	6	0,249	1	13,28
100633	1,5-6	7	0,145	1	11,24
100634	2,5-10	7	0,335	1	16,17

Allen keys set

chrome vanadium steel, (59 Cr-Mo-V 4), im metal clip, key bronzed, DIN 911.

Content:

Art. 100632: 3/32-1/8-5/32-3/16-1/4-5/16" AF

Art. 100635: 1/16-5/64-3/32-1/8-5/32-3/16-7/32" AF

Art. 100636: 3/32-1/8-5/32-3/16-1/4-5/16-3/8" AF



Art. No.	size	set	kg	PU	EUR
100632	3/32"-5/16"	6	0,251	1	14,07
100635	1/16"-7/32"	7	0,135	1	12,42
100636	3/32"-3/8"	7	0,328	1	16,17

Ball point allen keys

chrome vanadium steel, (59 Cr-Mo-V 4), im metal clip, black keys, DIN 911

Content:

size 2,5 - 3 - 4 - 5 - 6 - 8 - 10



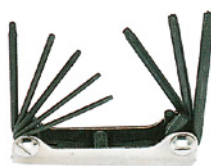
Art. No.	size	set	kg	PU	EUR
100917	2,5-10	7	0,334	1	26,32

Key set Tx

chrome vanadium steel, (59 Cr-Mo-V 4), in metal-clip, surface black, keys black.

Content:

TX 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40



Art. No.	size	set	kg	PU	EUR
100943	TX9 - 40	8	0,260	1	26,32

Allen keys set

Content: size 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. No.	size	set	kg	PU	EUR
100585	2-10	8	0,303	1	11,52

Ball point allen keys

Content: size 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. No.	size	set	kg	PU	EUR
100915	2-10	8	0,301	1	18,35

Allen keys set Tx

Content: TX 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40



Art. No.	size	set	kg	PU	EUR
100941	TX9 - 40	8	0,205	1	28,98

Hexagon screwdriver set T-handle, with spherical head

Content: size 2, 2.5, 3, 4, 5, 6, 8, 10



Art. No.	size	set	kg	PU	EUR
100961	2-10	8	0,860	1	66,83

Hexagon angle screwdriver set, with spherical head

Content: size 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10



Art. No.	size	set	kg	PU	EUR
100921 *	1,5-10	9	0,301	1	33,17

Hexagon angle screwdriver set, with spherical head

Content: Hex 1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10

Hex 1/16 - 5/64 - 3/32 - 1/8 - 5/32 - 3/16 -

1/4 - 5/16 - 3/8"



Art. No.	size	set	kg	PU	EUR
100965 *	1,5-10	9	0,303	1	24,03
100967	1/16"-3/8"	9	0,303	1	22,15

Hexagon angle screwdriver set, with spherical head

Content: Hex 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10



Art. No.	size	set	kg	PU	EUR
100927	1,5-10	9	0,301	1	17,00

Allen keys DIN 911

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chrome plated



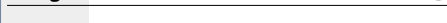
Art. No.	size	set	kg	PU	EUR
100590	1,5	45x14	0,008	1	0,15
100592	2	50x16	0,025	1	0,16
100594	2,5	56x18	0,034	1	0,18
100596	3	63x20	0,040	1	0,36
100598	4	70x25	0,080	1	0,44
100600	5	80x28	0,190	1	0,65
100602	6	90x32	0,280	1	0,88
100606	8	100x36	0,580	1	1,64
100610	10	112x40	0,990	1	2,73
100612	12	125x45	0,160	1	4,24
100614	13	132x50	2,020	1	5,72

Ball point allen keys

chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chrome plated



Art. No.	size	kg	PU	EUR
100902	2,5 56x18	0,003	1	1,40
100903	3 63x20	0,005	1	1,40
100904	4 70x25	0,011	1	1,93
100905	5 80x28	0,019	1	1,49
100906	6 90x32	0,029	1	1,94
100908	8 100x36	0,058	1	3,07
100909	10 112x40	0,102	1	3,95

Voltage testers**Voltage tester 120-250 V**

Art. No.	TMA	BL	size	kg	PU	EUR
100646	120 - 250	50x3	140	0,020	1	2,48
100647	120 - 250	50x3	140	0,016	1	1,78
100648	120 - 250	100x3,5	190	0,037	1	3,27
100649	120 - 250	100x3,5	190	0,032	1	2,62

Voltage tester

Art. No.	TMA	BL	size	kg	PU	EUR
100645	150 - 250	50x3	140	0,016	1	1,91

Voltage tester VDE/GS

Art. No.	TMA	size	kg	PU	EUR
100700	125 - 250	190	0,036	1	3,43

Ratchet screwdriver, bits**Screwdriver bits**

(1 box = 10 bits = 1 PU)



Art. No.	size	kg	PU	EUR
102110	0,6x4,5	50	0,104	10 9,76
102112	0,8x5,5	50	0,115	10 9,76

Screwdriver bits

Art. No.	size	kg	PU	EUR
102152	PH 1 25	0,062	10	5,83
102154	PH 2 25	0,067	10	5,83
102114	PH 1 50	0,105	10	9,76
102116	PH 2 50	0,124	10	9,76
102166	PH 2 90	0,097	10	23,86
102172	PH 1 150	0,251	10	28,60
102174	PH 2 150	0,358	10	28,60

Screwdriver bits, reduced

Art. No.	size	kg	PU	EUR
102155	2 25	0,064	10	5,83

Screwdriver bits

Art. No.	size	kg	PU	EUR
102176	PZ 1 25	0,062	10	5,83
102178	PZ 2 25	0,065	10	5,83
102118	PZ 1 50	0,107	10	9,76
102120	PZ 2 50	0,123	1	9,76
102188	PZ 1 90	0,179	1	22,01
102190	PZ 2 90	0,231	1	23,86
102198	PZ 2 150	0,360	1	28,55

Screwdriver bits Tx

Art. No.	size	kg	PU	EUR
102200	TX 15 25	0,061	1	5,83
102204	TX 25 25	0,065	1	5,83
102124	TX 20 50	0,110	1	9,76
102126	TX 25 50	0,112	1	9,76

Bits for PZ slot profile

Screwdriver bits (1 box = 2 bits = 1 PU)



Art. No.	size	kg	PU	EUR
101874	1 60	0,012	1	5,62
101876	2 60	0,013	1	5,62
101880	1 90	0,045	1	4,83
101882	2 90	0,046	1	4,83

Magnetic holder

Art. No.	size	kg	PU	EUR
102130	75	0,056	1	8,86

SDS magnetic holder

Art. No.	size	kg	PU	EUR
102131	55	0,045	1	22,38

Magnetic holder

Art. No.	size	kg	PU	EUR
102132	75	0,045	1	4,83
102134	60	0,040	1	4,49

„BitBox“, 25 mm, 17-pieces**BitBox****Content:**

Screwdriver bits, form E 6,3, shank 1/4", 25 mm;
 slotted 4,0 (0,5), 5,0 (0,8), 5,0 (1,0), 6,0 (1,0);
 PH 1, PH 2, PH 3;
 PZ 1, PZ 2, PZ 3;
 T 10, T 15, T 20, T 25;
 hexagon 4,0, 5,0, 6,0;
 Magnetic holder 60 mm



Art. No.	set	kg	PU	EUR
102210	17 Bit = 25 mm	0,170	1	13,20

„BitBox S“, 50 mm, 7-pieces**BitBox****Content:**

1 bit PH 1, 2
 1 bit PZ 1, 2
 1 bit PZ/FL 1, 2
 1 bit Slot 4



Art. No.	set	kg	PU	EUR
102216	7 Bit = 50 mm	0,105	1	9,66

haupa®**... convincing solutions**

HAUPA „BitBox+“

BitBox+

Content:

- 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



Art. No.	set	kg	PU	EUR
102212	32 Bit = 25 mm	0,540	1	27,27

Ratchet screwdriver „FlexPlus“, for all bits **FlexPlus**



Art. No.		kg	PU	EUR
104009	Bit > 25 mm	0,111	1	16,86

Ratchet screwdriver set „FlexBox“

FlexBox

Content:

- 1/4" 50 mm Power bits SL: 4, 6
- 1/4" 50 mm Power bits PZ: 1, 2
- 1/4" 50 mm Power bits PZ/FL 1 + 2
- 1/4" 50 mm Power bits Hex: H5, H6
- 1 pc of „FlexPlus“ ratcheting driver



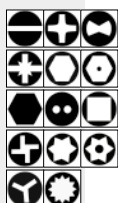
Art. No.	set	kg	PU	EUR
104030	9 Bit = 50 mm	0,410	1	45,25

Ratchet screwdriver set „Flex“

Flex

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 1/4" 25 mm and 1 adapter for 1/4" nut



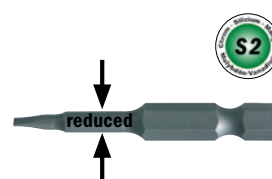
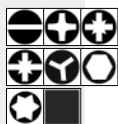
Art. No.	set	kg	PU	EUR
104006 *	58 Bit = 25 mm	0,810	1	50,36

Ratchet screwdriver set „FlexBag“ with 50 mm S2 bits and reduced shank

FlexBag

Content:

- 1/4" 50 mm Power bits Tx: T5, T6, T7, T8, T9, T10, T15, T20, T25, T30, T40
- 1/4" 50 mm Power bits Hex (hole): H2, H2.5, H3, H4, H5, H6
- 1/4" 50 mm Power bits PH: 0, 1, 2, 3
- 1/4" 50 mm Power bits PZ: 0, 1, 2, 3
- 1/4" 50 mm Power bits slot: 3, 4, 5, 6, 7, 8
- 1/4" 50 mm Power bits SQ: 0, 1, 2, 3
- 1/4" 50 mm Power bits Tri-Wing: 1, 2, 3
- 1/4" 50 mm Power bits PZ/FL 1, 2
- Above bits are in reduced shank except T40, H6, flat: 6, 7, 8 in full hex shank
- 2 pcs. Adapters: 1/4" 50 mm, 1/4" 80 mm
- 8 pcs. sockets: 5, 5.5, 6, 7, 8, 10, 12, 13
- 1 pc of „FlexPlus“ ratcheting driver



Art. No.	set	kg	PU	EUR
104020-1 *	51 Bit = 50 mm	0,810	1	82,77

Ratchet screwdriver set „FlexBagPro“

FlexBag

Content:

- 1/4" 50 mm torsion bits S-TX (hole), color coded: T10, T10, T15, T15, T20, T25, T27, T30, T40
- 1/4" 50 mm torsion bits Hex, color coded: H3, H4, H5, H6
- 1/4" 50 mm torsion bits PH, color coded: 1, 2, 2, 3
- 1/4" 50 mm torsion bits PZ, color coded: 1, 2, 2, 2
- 1/4" 50 mm torsion bits slot, color coded: 3, 4, 4, 5, 6
- 1/4" 50 mm torsion bits SQ, color coded: 1, 2, 3
- 1/4" 50 mm standard bits PZ/FL: 1, 1, 2, 2
- 1/4" 50 mm standard bits PH/FL: 1, 1, 2, 2
- 8 pcs. sockets: 5, 5.5, 6, 7, 8, 10, 12, 13
- 5 pcs. drills: 2, 3, 4, 5, 6
- 1 pc of „FlexPlus“ ratcheting driver



Art. No.	set	kg	PU	EUR
104022-1	51 Bit = 50 mm	0,810	1	122,39

Spanners

Double ended spanners acc. to DIN 3110

chrome plated



Art. No.	⌘	ST	mm	kg	PU	EUR
110090	6 - 7	3,2	120	0,021	1	2,95
110092	8 - 9	3,5	140	0,035	1	3,86
110094	10 - 11	4	157	0,050	1	4,46
110096	12 - 13	4,5	172	0,071	1	4,25
110100	14 - 15	5	190	0,100	1	5,66
110104	16 - 17	5,5	205	0,144	1	5,42
110108	18 - 19	6	223	0,182	1	8,34
110112	21 - 23	7	250	0,239	1	12,18
110114	24 - 26	7	250	0,273	1	11,20
110120	27 - 32	8,2	302	0,519	1	18,64

Double ended spanners set acc. to DIN 3110

chrome plated



Art. No.	⌘	set	kg	PU	EUR
110130	6 - 22	8	1,026	1	39,82
110132	6 - 32	12	2,353	1	95,13

Combination spanners similar to DIN 3113

chrome plated



Art. No.	⌘	mm	kg	PU	EUR
110180	6	100	0,018	1	2,11
110182	7	110	0,023	1	2,11
110184	8	120	0,030	1	2,79
110186	9	130	0,032	1	2,34
110188	10	140	0,041	1	3,18
110190	11	150	0,053	1	2,93
110192	12	160	0,068	1	4,00
110194	13	170	0,075	1	4,12
110196	14	180	0,089	1	3,72
110198	15	190	0,096	1	4,50
110202	17	210	0,142	1	5,46
110204	18	220	0,134	1	5,71
110206	19	230	0,185	1	7,86
110212	22	260	0,263	1	9,78
110216	24	280	0,333	1	13,27
110222	27	310	0,407	1	14,94

Combination spanners similar to DIN 3113

chrome plated



Art. No.	⌘	set	kg	PU	EUR
110250 *	6 - 22	12	1,271	1	44,81

Combination spanners similar to DIN 3113

chrome plated



Art. No.	⌘	set	kg	PU	EUR
110252	6 - 27	16	1,948	1	82,32

Double ended ring spanners to DIN 838

chrome plated



Art. No.	⌘	mm	kg	PU	EUR
110140	6 - 7	170	0,035	1	3,57
110142	8 - 9	185	0,066	1	4,25
110144	10 - 11	205	0,075	1	5,55
110146	12 - 13	220	0,107	1	6,33
110148	14 - 15	240	0,154	1	6,02
110152	16 - 17	265	0,175	1	7,86
110154	18 - 19	280	0,297	1	10,25
110160	24 - 26	335	0,468	1	17,14
110164	27 - 32	370	0,611	1	28,00

Double ended ring spanner sets DIN 838

chrome plated



Art. No.	⌘	set	kg	PU	EUR
110170	6 - 22	8	1,289	1	58,64
110172	6 - 32	12	3,575	1	136,43

Open-jawed ring wrench with ratch function

wrench size 8 - 9 - 10 - 12 - 13 - 14 - 17 - 19 mm



Art. No.	⌘	set	kg	PU	EUR
110900 *	8 - 19	8	1,255	1	113,21

Open-jawed ring wrench with ratch function

chrome plated



Art. No.	⌘	mm	kg	PU	EUR
110900/8	134	8	0,034	1	13,24
110900/9	152	9	0,056	1	13,66
110900/10	157	10	0,060	1	13,66
110900/12	167	12	0,079	1	14,84
110900/13	175	13	0,096	1	15,37
110900/14	190	14	0,120	1	16,46
110900/17	223	17	0,183	1	20,86
110900/19	245	19	0,200	1	23,28

Ratchet wrench 4 in 1

Sizes: 8 x 10 mm and 12 x 13 mm | 10 x 13 mm and 17 x 19 mm



Art. No.	⌘	mm	kg	PU	EUR
110780	8 - 13	150	0,060	1	31,71
110782	10 - 19	200	0,060	1	37,25

„Flex“ hinged ratchet combination wrench set

WS: 8 - 9 - 10 - 12 - 13 - 14 - 17 - 19 mm



Art. No.	⌘	set	kg	PU	EUR
110902	8 - 19	8	1,255	1	144,50

„Flex“ hinged ratchet combination wrench

chrome plated



Art. No.	⌘	mm	kg	PU	EUR
110902/8	8	140	0,183	1	23,35
110902/9	9	148	0,183	1	24,06
110902/10	10	162	0,183	1	24,72
110902/12	12	175	0,183	1	26,41
110902/13	13	178	0,183	1	27,71
110902/14	14	190	0,414	1	29,72
110902/17	17	227	0,183	1	33,69
110902/19	19	246	0,183	1	36,68

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Adjustable single-head wrench



Art. No.	⌀	l	kg	PU	EUR
110590	6 - 19	150	0,410	1	25,48
110592 *	9 - 24	200	0,342	1	32,30
110594	10 - 29	240	0,410	1	41,60
110596	10 - 34	300	0,111	1	53,44

Adjustable single-head wrench with ratch function



Art. No.	⌀	l	kg	PU	EUR
110583	6 - 19	150	0,160	1	31,93
110585	9 - 24	200	0,342	1	38,17

Express wrench M10



Art. No.	⌀	l	kg	PU	EUR
110798	17 - 19	223	0,111	1	18,48

Socket sets

Socket set



Art. No.	set	drive	kg	PU	EUR
110674 *	33	1/4"	1,051	1	87,70

Reversible ratchet 1/4"



Art. No.	drive	l	kg	PU	EUR
110674/K	1/4"	140	0,118	1	23,34

Extension 1/4"



Art. No.	l	drive	kg	PU	EUR
110700	50	1/4"	0,024	1	1,77
110701	100	1/4"	0,063	1	2,61

Flexible extension bar 1/4"



Art. No.	l	drive	kg	PU	EUR
110702	100	1/4"	0,059	1	5,31

Sockets 1/4"



Art. No.	⌀	kg	PU	EUR
110703/4	4	0,010	1	0,98
110703/45	4,5	0,010	1	0,98
110703/5	5	0,010	1	0,98
110703/55	5,5	0,011	1	0,98
110703/6	6	0,011	1	0,98
110703/7	7	0,014	1	0,98
110703/8	8	0,012	1	1,02
110703/9	9	0,016	1	1,14
110703/10	10	0,016	1	1,16
110703/11	11	0,024	1	1,27
110703/12	12	0,024	1	1,32
110703/13	13	0,028	1	1,40

Sliding adapter 3/8" x 1/4"



Art. No.	kg	PU	EUR
110706	0,029	1	3,01

Spinner handle for screwdriver 1/4"



Art. No.	drive	kg	PU	EUR
110725	1/4"	0,064	1	5,37

Universal joint 1/4"



Art. No.	kg	PU	EUR
110726	0,024	1	5,46

Insert bit sockets PH 1/4"



Art. No.	size	kg	PU	EUR
110711	1	0,015	1	1,18
110727	2	0,015	1	1,18
110728	3	0,016	1	1,18

Insert bit sockets HEX 1/4"



Art. No.	⌀	kg	PU	EUR
110729	3	0,015	1	1,18
110747	4	0,015	1	1,18
110749	5	0,016	1	1,18
110754	6	0,017	1	1,18
110718	8	0,018	1	1,33

Insert bit sockets TX 1/4"



Art. No.	size	kg	PU	EUR
110719	10	0,013	1	1,33
110720	15	0,015	1	1,33
110721	20	0,015	1	1,33
110722	25	0,015	1	1,33
110723	27	0,015	1	1,33
110724	30	0,015	1	1,33

Insert bit sockets slot 1/4"



Art. No.	CW	kg	PU	EUR
110759	5,5	0,015	1	1,18
110760	4	0,014	1	1,18

Socket sets

Socket set



Art. No.	set	drive	kg	PU	EUR
110676	26	3/8"	2,309	1	94,99

Reversible ratchet 3/8"



Art. No.	l	drive	kg	PU	EUR
110676/K	185	3/8"	0,260	1	30,95

Extension 3/8"



Art. No.	l	drive	kg	PU	EUR
110731	20	3/8"	0,045	1	2,33
110733	75	3/8"	0,075	1	3,05
110735	150	3/8"	0,143	1	4,93

Sockets 3/8"



Art. No.	⌀	kg	PU	EUR
110737/6	6	0,019	1	1,37
110737/7	7	0,020	1	1,37
110737/8	8	0,021	1	1,37
110737/9	9	0,023	1	1,37
110737/10	10	0,023	1	1,37
110737/11	11	0,024	1	1,37
110737/12	12	0,024	1	1,37
110737/13	13	0,024	1	1,41
110737/14	14	0,031	1	1,59
110737/15	15	0,040	1	1,83
110737/16	16	0,035	1	1,83
110737/17	17	0,046	1	2,12
110737/18	18	0,061	1	2,37
110737/19	19	0,056	1	2,37
110737/20	20	0,066	1	3,11
110737/21	21	0,060	1	3,11
110737/22	22	0,078	1	3,20
110737/24	24	0,085	1	3,92

Spark plug sockets 3/8"

3/8"

Art. No.	Ø	kg	PU	EUR
110738	16	0,092	1	3,67
110739	21	0,139	1	5,00

Sliding adapter 1/2" x 3/8"

1/2" 3/8"

Art. No.	kg	PU	EUR
110741	0,070	1	4,14

Universal joint 3/8"

3/8"

Art. No.	kg	PU	EUR
110745	0,067	1	7,14

3/8" internal hexagonal bolt set

3/8"

Sizes: 3 - 4 - 5 - 6 - 7 - 8 - 10, extra long 150 mm

Art. No.	set	kg	PU	EUR
111737	7	0,019	1	38,22

Socket sets

1/2"

Socket set

1/2"

Art. No.	set	drive	kg	PU	EUR
110677	25	1/2"	4,739	1	142,16

Reversible ratchet 1/2"

1/2"

Art. No.	drive	kg	PU	EUR
110677/K	260 1/2"	0,560	1	35,15

Extension 1/2"

1/2"

Art. No.	drive	kg	PU	EUR
110751	75 1/2"	0,137	1	4,76
110752	125 1/2"	0,200	1	6,01
110753	250 1/2"	0,388	1	11,45

Sockets 1/2"

1/2"

Art. No.	Ø	kg	PU	EUR
110754/10	10	0,046	1	2,36
110754/11	11	0,051	1	2,36
110754/12	12	0,052	1	2,36
110754/13	13	0,053	1	2,36
110754/14	14	0,055	1	2,28
110754/15	15	0,052	1	2,28
110754/16	16	0,052	1	2,28
110754/17	17	0,060	1	2,71
110754/18	18	0,060	1	2,97
110754/19	19	0,066	1	2,97
110754/20	20	0,066	1	3,61
110754/21	21	0,080	1	3,61
110754/22	22	0,094	1	4,05
110754/24	24	0,100	1	4,75
110754/26	26	0,120	1	6,64
110754/27	27	0,150	1	6,64
110754/28	28	0,165	1	7,65
110754/30	30	0,177	1	8,26
110754/32	32	0,206	1	8,74

Spark plug sockets 1/2"

1/2"

Art. No.	Ø	kg	PU	EUR
110755	16	0,092	1	3,82
110756	21	0,141	1	5,18

Sliding adapter 3/8" x 1/2"

3/8" 1/2"

Art. No.	kg	PU	EUR
110757	0,069	1	5,18

Universal joint 1/2"

1/2"

Art. No.	kg	PU	EUR
110758	0,152	1	10,34

Socket sets

„SocketFlex“ socket wrench box

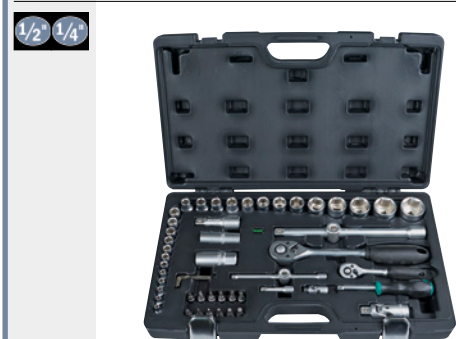
1/4" 1/2"



Art. No.	set	drive	kg	PU	EUR
110672	59	1/4"+1/2"	4,500	1	186,85

Socket set

1/4" 1/2"



Art. No.	set	drive	kg	PU	EUR
110678 *	53	1/4"+1/2"	4,385	1	205,04

SysCon

„SocketMax“ 1/2", 1/4"

SysCon

PREMIUM

1/2" 1/4" FlexPlus



Art. No.	set	empty	kg	PU	EUR
220600	55	220370	4,300	1	339,39

Standard program

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Torque wrenches

Torque wrenches

1/4" TQ



Art. No.	drive	Nm	kg	PU	EUR
110607 *	1/4"	5-25	1,000	1	121,35

Torque wrenches

3/8" TQ



Art. No.	drive	Nm	kg	PU	EUR
110605	3/8"	5-50	1,000	1	106,26

Torque wrenches

3/8" TQ



Art. No.	drive	Nm	kg	PU	EUR
110608	3/8"	20-120	0,900	1	106,35

Torque wrenches

1/2" TQ



Art. No.	drive	Nm	kg	PU	EUR
110610	1/2"	20-120	1,500	1	111,04

Torque wrenches

1/2" TQ



Art. No.	drive	Nm	kg	PU	EUR
110609	1/2"	42-210	1,750	1	153,73

SysCon socket wrench set "Torque" 1/4"

inclusive torque wrenches 1/4", 5 - 25 Nm

1/4" TQ

FlexPlus



Art. No.	set	empty	kg	PU	EUR
220640	51	220370	4,300	1	474,30

SysCon socket wrench set "Torque" 1/2"

inclusive torque wrenches 1/2", 20 - 120 Nm

1/2" TQ

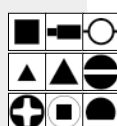


Art. No.	set	empty	kg	PU	EUR
220642	32	220370	7,950	1	505,98

Switch cabinet keys

Switch cabinet key, „HUPkey“ with converting bit

Not available in GB and FR!



Art. No.	kg	PU	EUR
110692	0,059	1	26,37

Switch cabinet key, „HUPkey“



Art. No.	kg	PU	EUR
110691	0,059	1	19,51

Converting bit for bleeding

Not available in GB and FR!



Art. No.	kg	PU	EUR
110693	0,059	1	6,22

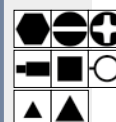
Universal switch cabinet key with crescent, „HUPkey“



Art. No.	kg	PU	EUR
110697	0,111	1	21,46

Spanners for switch cabinet key, „HUPkey Uni“

Not available in GB and FR!

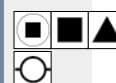


Video 110698



Art. No.	kg	PU	EUR
110698	0,059	1	34,40

Spanners for switch-cabinets, „HUPkey“



Art. No.	size	kg	PU	EUR
110696 *	72 x 72	0,059	1	17,15

Pliers Black Line

Combination pliers DIN ISO 5746

leveraged, perfected cutting force performance



Art. No.	l	soft	hard	kg	PU	EUR
210052	160	4	2	0,197	1	24,13
210053 *	180	4	2,2	0,286	1	25,58
210054	200	4,2	2,5	0,410	1	25,67

Side cutters DIN ISO 5749

leveraged, perfected cutting force performance



Art. No.	l	soft	hard	kg	PU	EUR
210067	140	4	1,8	0,172	1	23,25
210068 *	160	4	2	0,237	1	25,32
210069	180	4	2	0,237	1	29,21

Heavy duty side cutters DIN ISO 5749

leveraged, perfected cutting force performance



Art. No.	l	soft	hard	kg	PU	EUR
210156	160	4	2,7	0,264	1	32,14
210157	180	4	2,7	0,264	1	33,41

Heavy duty side cutters DIN ISO 5749

leveraged, perfected cutting force performance



Art. No.	l	soft	hard	kg	PU	EUR
210158 *	200	4,2	3	0,326	1	35,01

Long flat nose pliers DIN ISO 5745



Art. No.	l	kg	PU	EUR
210313	160	0,155	1	19,07

Long round nose pliers DIN ISO 5745



Art. No.	l	kg	PU	EUR
210350	160	0,153	1	20,17

Long chain nose pliers DIN ISO 5745

leveraged, perfected cutting force performance



Art. No.	l	kg	PU	EUR
210394	170	0,154	1	26,54
210396 *	200	0,253	1	27,71

Long chain nose pliers DIN ISO 5745

leveraged, perfected cutting force performance



Art. No.	l	Fo.	kg	PU	EUR
210397	160	45°	0,251	1	23,60
210398 *	200	45°	0,251	1	30,16

Wire stripping pliers



Art. No.	l	mm²	kg	PU	EUR
210644	175	0,2-6	0,196	1	24,69

Installation pliers



Art. No.	l	mm²	kg	PU	EUR
201090	225	1,5-2,5	0,246	1	49,74

Water pump pliers DIN ISO 8976



Art. No.	l	kg	PU	EUR
210584	240	0,368	1	31,54

Water pump pliers DIN ISO 8976



Art. No.	l	kg	PU	EUR
210616	170	0,185	1	30,89
210617 *	240	0,330	1	33,91
210618	300	0,545	1	50,18

Pliers wrench



Art. No.	l	l	kg	PU	EUR
210615	180	36	0,111	1	61,26
210619	260	50	0,368	1	69,05

Pliers set

Content:

- 210053
- 210068
- 210396
- 210644



Art. No.	set	kg	PU	EUR
220128	4	1,044	1	97,01

Pliers set

Content:

- 210053
- 210157
- 210396
- 210644



Art. No.	set	kg	PU	EUR
220129	4	1,082	1	105,15



High leverage | perfected cutting force performance

High leverage pliers offer power saving of up to 50%.

haupa®

... convincing solutions

Special pliers

Grip pliers



Art. No.	Length	Tube	kg	PU	EUR
210556	250	0-40	0,518	1	49,64

Grip pliers



Art. No.	Length	Tube	kg	PU	EUR
210562	250	0-40	0,565	1	34,30

Pipe wrenches



Art. No.	Length	Tube	kg	PU	EUR
210592	320	0-45 1"	0,798	1	45,39
210594	435	0-59 1 1/2"	0,800	1	67,66
210596	560	0-76 2"	2,460	1	104,30

Riveting pliers



Art. No.	Length	kg	PU	EUR
210770	250	0,552	1	12,70

Riveting tool set



Art. No.	Length	kg	PU	EUR
210776	250	0,840	1	27,00

Electronic pliers

Tweezers



Art. No.	Length	kg	PU	EUR
211080	130	0,017	1	26,07

Microelectronic side cutters

without cutting-facet, clearance angle: 50°,
with clip, for soft wires up to 0,8 mm²



Art. No.	Length	kg	PU	EUR
211708	118	0,069	1	23,11

Microelectronic side cutters

without cutting-facet, clearance angle: 21°,
with clip, for soft wires up to 1,3 mm²



Art. No.	Length	kg	PU	EUR
211720 *	132	0,086	1	23,56
211722	158	0,087	1	27,98

ESD electronic pliers

ESD Electronic needle nose pliers

with wire cutter, special tool steel



Art. No.	Length	kg	PU	EUR
211850	130	0,091	1	17,15

ESD Electronic needle nose pliers, 45° angle

with wire cutter, special tool steel



Art. No.	Length	Fo.	kg	PU	EUR
211852	130	45°	0,089	1	18,28

ESD Electronic needle nose pliers

straight construction, special tool steel



Art. No.	Length	kg	PU	EUR
211854	130	0,082	1	17,15

ESD Electronic needle nose pliers, 45° angle

45° angle, special tool steel



Art. No.	Length	Fo.	kg	PU	EUR
211856	130	45°	0,081	1	18,28

ESD Electronic thin needle nose pliers

straight construction, special tool steel



Art. No.	Length	kg	PU	EUR
211858	140	0,083	1	18,28

ESD Electronic thin needle nose pliers, 45° angle

45° angle, special tool steel



Art. No.	l	Fo.	kg	PU	EUR
211860	140	45°	0,084	1	19,35

ESD Electronic thin needle nose pliers

straight construction, special tool steel



Art. No.	l	kg	PU	EUR
211862	150	0,087	1	17,71

ESD Electronic thin needle nose pliers, 45° angle

45° angle, special tool steel



Art. No.	l	Fo.	kg	PU	EUR
211864	150	45°	0,087	1	18,83

ESD Electronic flat nose pliers

special tool steel



Art. No.	l	kg	PU	EUR
211866	130	0,090	1	16,60

ESD Electronic round nose pliers

straight construction, special tool steel



Art. No.	l	kg	PU	EUR
211868	130	0,091	1	19,35

ESD Electronic side cutter

normal construction, head width 14 mm, special tool steel



Art. No.	l	kg	PU	EUR
211870 *	115	0,078	1	17,71

ESD Electronic side cutters

slim construction, head width 10 mm, special tool steel



Art. No.	l	kg	PU	EUR
211872	110	0,075	1	17,71

ESD Electronic side cutter without cutting-facet

normal construction, head width 14 mm without chamfer, special tool steel



Art. No.	l	kg	PU	EUR
211875 *	115	0,075	1	19,10

ESD Electronic front cutter

special tool steel



Art. No.	l	kg	PU	EUR
211874	115	0,093	1	18,28

ESD Electronic combination pliers

with wire cutter, special tool steel



Art. No.	l	kg	PU	EUR
211876	115	0,077	1	17,15

ESD Electronic pliers set

special tool steel

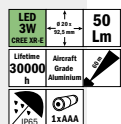
Content: art. 211862, 211870, 211874, 211876



Art. No.	set	kg	PU	EUR
211880	4	0,585	1	72,08

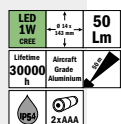
LED lamps/torches

LED „Mini Torch“



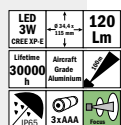
Art. No.	Ø	W	H	D	kg	PU	EUR
130310	20	92,5	0,080	1			31,25

LED „Pen Torch“



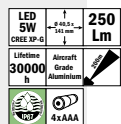
Art. No.	Ø	W	H	D	kg	PU	EUR
130328 *	14	143	0,200	1			24,81

LED „Focus Torch“



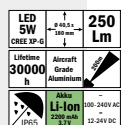
Art. No.	Ø	W	H	D	kg	PU	EUR
130312 *	34,4	115	0,200	1			40,19

LED „IP67 Torch“



Art. No.	Ø	W	H	D	kg	PU	EUR
130314	40,5	141	0,440	1			78,75

LED „RC Torch“



Art. No.	Ø	W	H	D	kg	PU	EUR
130316	40,5	180	0,440	1			123,59



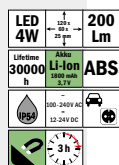
Holster for LED torches

Suitable for item numbers: 130312, 130314



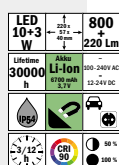
Art. No.	W	H	D	kg	PU	EUR
130322	30	100	10	0,180	1	13,28

Mini working light „HUPlight4“



Art. No.	W	H	D	kg	PU	EUR
130336 *	25	120	60	0,260	1	51,01

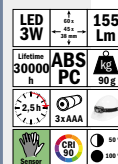
LED working light „HUPlight10+3“



Art. No.	W	H	D	kg	PU	EUR
130348	57	40	220	0,380	1	82,16

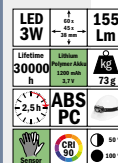
LED Headlamps

LED „HUPflash155“ headlamp



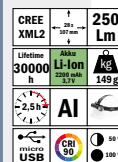
Art. No.	W	H	D	kg	PU	EUR
130319	45	38	60	0,250	1	54,97

LED „HUPflash155+“ headlamp



Art. No.	W	H	D	kg	PU	EUR
130321	45	38	60	0,073	1	66,43

LED „HUPflash250“ headlamp



Art. No.	W	H	D	kg	PU	EUR
130323	28	107	0,149	1		135,14

Compact floodlight

Compact floodlight „HUPlight10pro“

LED 10W

Lifetime 30000 h

IP54

3h

CR 90

220-240V AC

Akku Li-Ion 6600 mAh 7,4 V

13-24V DC

220-240V AC

50/60 Hz

2x 30°

90°

180°

900 Lm

360°

130344



Art. No.	W	H		kg	PU	EUR
130344	121	43	170	1,000	1	63,22

Compact floodlight „HUPlight20pro“

LED 20W

Lifetime 30000 h

IP54

3h

CR 90

220-240V AC

Akku Li-Ion 6600 mAh 7,4 V

13-24V DC

220-240V AC

50/60 Hz

2x 30°

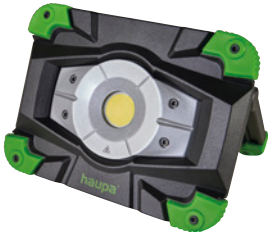
90°

180°

1800 Lm

360°

130346



Art. No.	W	H		kg	PU	EUR
130346	135	43	185	1,320	1	116,61

Compact floodlight „HUPlight30pro“

LED 30W

Lifetime 30000 h

IP54

3h

CR 90

220-240V AC

Akku Li-Ion 6600 mAh 7,4 V

13-24V DC

220-240V AC

50/60 Hz

2x 30°

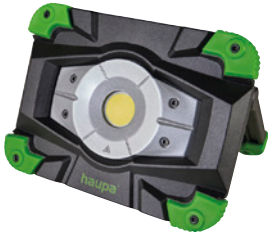
90°

180°

2500 Lm

360°

130352



Art. No.	W	H		kg	PU	EUR
130352	135	43	185	1,320	1	148,90

Magnetic lamp holder



Art. No.	W	H		kg	PU	EUR
130343	85	85	40	0,470	1	13,75

Domed luminaire “HUPlight50combi”

LED 50W

Lifetime 30000 h

IP54

3h

CR 90

220-240V AC

Akku Li-Ion 6600 mAh 7,4 V

13-24V DC

220-240V AC

50/60 Hz

2x 30°

90°

180°

4000 Lm

360°

130360



Akku Li-Ion 6600 mAh 7,4 V



Art. No.	W	H	kg	PU	EUR
130360	280	260	3,400	1	226,77

Stand for “HUPlight50combi”



Art. No.	W	H		kg	PU	EUR
130361	1150	3000	1150	7,660	1	135,14

HUPlightpro Crashtest



LED Light Strips

LED light strip “HUPlightStripe15”

LED 180W

Lifetime 30000 h

IP65

3h

CR 90

220-240V AC

Akku Li-Ion 6600 mAh 7,4 V

13-24V DC

220-240V AC

50/60 Hz

2x 30°

90°

180°

19500 Lm

360°

130364



Art. No.	W	H		kg	PU	EUR
130364	16	8	15000	4,400	1	287,26

LED light strip “HUPlightStripe25”

LED 300W

Lifetime 30000 h

IP65

3h

CR 90

220-240V AC

Akku Li-Ion 6600 mAh 7,4 V

13-24V DC

220-240V AC

50/60 Hz

2x 30°

90°

180°

32500 Lm

360°

130366



Art. No.	W	H		kg	PU	EUR
130366	16	8	25000	6,500	1	481,62

Measuring tools

Folding rules



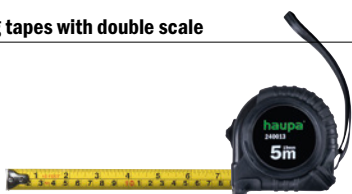
Art. No.	Typ		W	kg	PU	EUR
240002 *	wood	2 m	16	0,100	1	5,88
240005	fibre glass	2 m	16	0,138	1	8,38

Measuring tapes



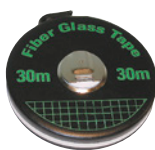
Art. No.		W	kg	PU	EUR
240011	3 m	13	0,104	1	4,53
240012 	5 m	16	0.179	1	8.12

Measuring tapes with double scale



Art. No.		W	kg	PU	EUR
240013	5 m	16	0,179	1	8.12

Measuring tapes



Art. No.		W	kg	PU	EUR
240018	20 m	16	0,432	1	26,36
240020	25 m	16	0,544	1	30,42
240022	30 m	16	0,586	1	33,82
240024	50 m	16	0,857	1	49,71

Aluminium spirit levels



Art. No.	 Spirit level	kg	PU	EUR
240041	300	2 0,168	1	28,90
240042 *	400	2 0,198	1	30,60
240044	600	2 0,282	1	37,40
240046	800	2 0,406	1	40,80
240048	1000	2 0,534	1	45,90

Electrician's safety levels



Art. No.		Spirit level	kg	PU	EUR
240057	400	2	0,188	1	21,59
240058	600	2	0.274	1	20.06

Cabinet levels



Art. No.		Spirit level	kg	PU	EUR
240059 	200	3	0.078	1	24.49

Acrylic „HUPmini“ spirit level



Art. No.		Spirit level	kg	PU	EUR
240061	100	2	0,085	1	14,85

Precision pocket vernier calipers „Stainless“



Art. No.	TMA	kg	PU	EUR
240071	232 0-150	0,157	1	53,09

Precision pocket vernier calipers „digital“



Art. No.	TMA	kg	PU	EUR
240073	235 0-150	0,150	1	81,34

Engineers' squares



Art. No.		W	kg	PU	EUR
240132	150x100	20	0,181	1	10,82
240134	200x130	20	0,237	1	11,62
240136	250x160	25	0,378	1	13,44
240138	300x180	25	0,445	1	15,31

Engineers' squares



Art. No.		W	kg	PU	EUR
240152	150x100	20	0,170	1	15,39
240154	200x130	20	0,340	1	18,53
240156	250x160	25	0,511	1	23,77
240158	300x180	25	0,440	1	29,55
240160	400x230	30	0,783	1	32,62

Steel point scribes



Art. No.		kg	PU	EUR
240234	250	0,046	1	6,37

Carpenters' pencils



Art. No.		kg	PU	EUR
150090	150	0,007	12	0,44

Multigraph, black, refill 7B, triangular



Art. No.		kg	PU	EUR
150041	240	0.017	1	3.51

Deep hole marker



Art. No.		kg	PU	EUR
150025	160	0,020	1	33,03
150027	spare lead 10 pc	0.291	1	22,03

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



Art. No.		kg	PU	EUR
150044	155	0,022	1	21,42
150045	spare lead 6 pc	0.021	1	on request

Marking chalk

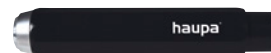
12 items per packaging unit



Art. No.	kg	PU	EUR
150015 B *	0,017	1	1,01
150015 G	0,017	1	1,01
150015 R	0,016	1	1,01

Holder for marking chalk

suitable for marking chalk art. 150015



Art. No.	kg	PU	EUR
150015/1	0,034	1	21,99

Chalk line roller Squid, 15 m



Art. No.			kg	PU	EUR
150019 *	15	Squid	0,291	1	21.00

Chalk

in plastic bottles, 250 g



Art. No.	Content g	kg	PU	EUR
140510	50	0,284	1	5,65
140520 *	50	0,276	1	5,65
140530	50	0,279	1	5,65

Maintenance / Workshop equipment

Hand brush „Prestige“ short

- Soft Elaston PET bristles
- Unvarnished wooden body
- 29 cm
- Handle with hole for hanging up



Art. No.		kg	PU	EUR
393000 *	290	0,180	1	5,38

Hand brush „Prestige“ short

- Soft coconut bristles
- Unvarnished wooden body
- 29 cm
- Handle with hole for hanging up



Art. No.		kg	PU	EUR
393038	290	0,180	1	2,75

Hand brush „Prestige“ long

- Soft Elaston PET bristles
- Unvarnished wooden body
- 43 cm
- Handle with hole for hanging up



Art. No.		kg	PU	EUR
393002	430	0,240	1	7,72

Hand brush „Prestige“ long

- Soft coconut bristles
- Unvarnished wooden body
- 43 cm
- Handle with hole for hanging up



Art. No.		kg	PU	EUR
393040	430	0,180	1	5,68

Street broom

- Elaston
- 40 cm
- 6/15 rows



Art. No.		kg	PU	EUR
393008	400	0,269	1	9,67

Broom, for rough dirt

- Elaston
- 40 cm
- For coarse dirt
- Made from wooden corbel
- With hole for handle



Art. No.		kg	PU	EUR
393012	400	0,269	1	10,19

Broom, for rough dirt

- Soft coconut bristles
- 40 cm / 60 cm
- For coarse dirt
- Made from wooden corbel
- With hole for handle



Art. No.		kg	PU	EUR
393034	400	0,269	1	9,15
393036	600	0,269	1	12,78

Broom, for smooth ground

- 40 cm
- For smooth floors and fine dirt
- Made from wooden corbel
- With hole for handle



Art. No.		kg	PU	EUR
393010	400	0,269	1	10,14

Metal dustpan with wooden handle

- Made from metal
- Wooden handle with hole for hanging up
- Robust version
- 450 x 230 mm



Art. No.		W	kg	PU	EUR
393006 *	450	230	0,269	1	8,04

Bucket

- Made from plastic
- 12 l / 20 l
- With carry handle



Art. No.	L	kg	PU	EUR
300102 *	12	0,450	1	6,46
300115	20	1,300	1	11,89

Broomstick

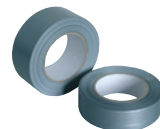
- Sanded cleanly
- Rounded head
- 1400 mm



Art. No.		kg	PU	EUR
393004	1400	0,269	1	5,84

Textile tape

- 50 m



Art. No.	W		kg	PU	EUR
393016	50	50 m	0,269	1	20,22

Tarpaulin premium

- 12 my
- 4 x 12,5 m



Art. No.		W	kg	PU	EUR
393026	12500	4000	0,269	1	11,69

Tarpaulin, strong

- 30 my
- 4 x 5 m



Art. No.		W	kg	PU	EUR
393022	5000	4000	0,520	1	10,44

haupa®

... convincing solutions

Tarpaulin, strong

- 30 my
- 4 x 12,5 m



Art. No.	W	H	kg	PU	EUR
393024	12500	4000	1,280	1	25,32

Dust protection door, multi-fleece



Art. No.	W	H	kg	PU	EUR
393032	1200	2200	0,269	1	21,47

Builders waste sack

- LDPE
- Roll containing 5 sacks
- 75 l
- 100 my
- 575 x 1000 mm



Art. No.	W	L	kg	PU	EUR
393018	1000	575	75	0,269	9,93

Waste sack, extra

- LDPE
- Roll containing 10 sacks
- 120 l
- 50 my
- 700 x 1100 mm



Art. No.	W	L	kg	PU	EUR
393020 *	1100	700	120	0,020	10,12

Construction foil „Profi“

- 3 x 10 m
- 200g/m²



Art. No.	W	H	kg	PU	EUR
393030	10000	3000	5,500	1	65,04

Multi-fleece

- 1 x 10 m



Art. No.	W	H	kg	PU	EUR
393028 *	10000	1000	2,200	1	31,32

Maintenance set with bucket



Art. No.	set	kg	PU	EUR
393107	6	0,800	1	41,28

Wire brushes



Art. No.	W	kg	PU	EUR
150002	300	0,131	1	2,99

Water brushes



Art. No.	W	kg	PU	EUR
150004	24	0,036	1	6,28

Plaster cups



Art. No.	Ø	D	kg	PU	EUR
150006 *	125	90	0,105	1	1,81

Plaster pan

with wooden handle



Art. No.	Ø	D	kg	PU	EUR
150008	160	40	0,341	1	13,27
150010	180	60	0,369	1	16,24

Paint scrapers



Art. No.	W	H	kg	PU	EUR
150024	185	40	0,043	1	2,48
150026 *	205	50	0,051	1	2,64
150028	205	60	0,047	1	2,76

Trowel

high quality stainless steel, rustproof, with red lacquered handle, 3 point rib welding



Art. No.	W	H	kg	PU	EUR
150012	160		0,341	1	15,50
150029	180		0,341	1	16,43

Trowel „Profi“

Trowel blade and handle forged from a blank, guaranteed not welded, blade hardened, conical ground



Art. No.	W	H	kg	PU	EUR
150033	160		0,341	1	31,28
150039	180		0,341	1	32,87

Warning sign, plastic „Caution, Wet floor“, yellow

Only for German- and English-speaking countries.



Art. No.	kg	PU	EUR
300117	3,850	1	67,93

Lashing belts

DIN lashing belt 400 daN, one-piece



Art. No.	l	W	kN	kg	PU	EUR
393150	8000	25	4	0,350	1	12,35

DIN lashing belt 400 daN, two-piece with hook



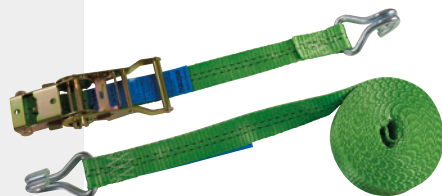
Art. No.	l	W	kN	kg	PU	EUR
393152	8000	25	4	0,450	1	20,12

DIN lashing belt 1000 daN, one-piece



Art. No.	l	W	kN	kg	PU	EUR
393154	8000	35	10	1,000	1	21,77

DIN lashing belt 1000 daN, two-piece with hook



Art. No.	l	W	kN	kg	PU	EUR
393156	8000	35	10	1,400	1	30,51

Telescoping ladders



Aluminium telescoping stepladder

Rungs: 6+2
Retracted: 0,74 m



Art. No.	l	W	kg	PU	EUR
392804	2.3	690	14,500	1	942,02

Aluminium telescoping stepladder

Rungs: 8+2
Retracted: 0,79 m



Art. No.	l	W	kg	PU	EUR
392806	3	760	20,000	1	1.189,92

Aluminium telescoping single-ladder

Rungs: 9
Retracted: 0,72 m



Art. No.	l	W	kg	PU	EUR
392800	2.6	490	8,100	1	609,84

Aluminium telescoping single-ladder

Rungs: 13
Retracted: 0,86 m



Art. No.	l	W	kg	PU	EUR
392802	3.8	880	15,000	1	842,86

Chisels, centre punches



Flat chisels to DIN 6453 A, flat oval shank



Art. No.	↔	CW	Mat/S	Mat/S	kg	PU	EUR
180008		200	28	23	13	0,392	1 13,98
180010		250	28	23	13	0,490	1 15,27
180012		300	32	26	13	0,606	1 16,77

Stone chisels, flat oval shank



Art. No.	↔	CW	Mat/S	Mat/S	kg	PU	EUR
180042		250	28	20	12	0,394	1 13,39
180044	*	300	32	23	13	0,584	1 15,27

Stone chisels, octagonal shank



Art. No.	↔	CW	Mat/S	Mat/S	kg	PU	EUR
180062		250	28	16	16	0,387	1 13,85
180064		300	30	18	18	0,595	1 16,03

Jointing chisel



Art. No.	↔	CW	Mat/S	Mat/S	kg	PU	EUR
180076	*	250	26	26	7	0,302	1 14,05

Stone chisels, octagonal shank



Art. No.	↔	CW	Mat/S	Mat/S	kg	PU	EUR
180082		250	14	14	14	0,358	1 13,85
180084		300	16	16	16	0,573	1 15,76

Electricians' chisels



Art. No.	↔	CW	Mat/S	Mat/S	kg	PU	EUR
180090		200	8	6	6	0,052	1 8,26
180092	*	250	10	8	8	0,119	1 8,70
180094		250	12	8	8	0,121	1 9,45

Centre punch to DIN 7250



Art. No.	↔	Ø1	kg	PU	EUR
180120		120	12	0,091	1 5,63

Rubber hand guard

for chisels flat oval shank



Art. No.	size	Mat/S	Mat/S	kg	PU	EUR
180110	3	23	13	0,125	1	8,81

Firmer chisels DIN 5139



Art. No.	↔	CW	BL	kg	PU	EUR
180464		280	14	150	0,120	1 43,47
180466		280	16	150	0,132	1 42,30
180468		280	18	150	0,161	1 48,66
180470		280	20	150	0,170	1 48,66
180474		280	24	150	0,193	1 55,29

Pin punch set



Art. No.	Ø	kg	PU	EUR
180170	3/4/5/6/8/10	0,502	1	54,94

Hatchets, hammers

Household hatchet, DIN 5131



Art. No.	kg	PU	EUR
180173	0,600	1	22,32

Claw hammer

wood handle



Art. No.	Oz	kg	PU	EUR
180321	16	0,621	1	9,20

Claw hammer

fibre glass handle



Art. No.	Oz	kg	PU	EUR
180323	16	0,748	1	12,13

Engineers' hammer DIN 1041

with polished hickory handle



Art. No.	HG	kg	PU	EUR
180182	200	0,288	1	8,56
180184	*	300	0,462	1 10,88
180186		400	0,561	1 11,39
180188		500	0,684	1 12,21

Engineers' hammer DIN 1041



Art. No.	HG	kg	PU	EUR
180200	300	0,552	1	16,77
180202	500	0,740	1	17,71

Engineers' hammer DIN 1041



Art. No.	HG	kg	PU	EUR
180232	300	0,410	1	43,56

Fitter's hammer with 3-component handle



Art. No.	HG	↔	kg	PU	EUR
180214	300	320	0,533	1	51,59
180218	500	320	0,733	1	62,04
180222	1000	320	1,233	1	86,13

Engineers' hammer



Art. No.	HG	HG lbs	kg	PU	EUR
180274	340	3/4	0,416	1	5,71
180276	450	1	0,485	1	7,58

Hammers

Sledge hammer to DIN 6475



Art. No.	HG	kg	PU	EUR
180290	1000	1,210	1	24,12
180292	1250	1,504	1	26,81

Sledge hammer to DIN 6475



Art. No.	HG	kg	PU	EUR
180300 *	1000	1,093	1	15,04
180302	1250	1,375	1	18,62

Soft-head hammer



Art. No.	Ø1	kg	PU	EUR
180334	32	0,328	1	19,91
180346	replacement heads	0,460	1	6,09

Soft-faced hammer with 3-component handle



NEW

Art. No.	Ø1	kg	PU	EUR
180336	32	0,690	1	75,57
180337	replacement heads	0,017	1	on request
180338	40	0,710	1	106,76
180339	replacement heads	0,035	1	on request

Steel stamps

Steel stamp, figures (0 - 9) DIN 1451



Art. No.	size	set	kg	PU	EUR
130200	3	0-9	0,160	1	12,66
130201	4	0-9	0,243	1	14,19
130202	5	0-9	0,300	1	15,71
130203	6	0-9	0,450	1	19,93
130204	8	0-9	0,650	1	26,01
130206	10	0-9	0,800	1	35,69

Steel stamp, letters (A - Z), DIN 1451



Art. No.	size	set	kg	PU	EUR
130208	3	A-Z	0,461	1	41,70
130209	4	A-Z	0,650	1	44,78
130210	5	A-Z	0,850	1	47,86
130211	6	A-Z	1,200	1	59,90
130212	8	A-Z	1,950	1	71,98
130214	10	A-Z	2,479	1	111,79

Files

Contact files



Art. No.	set	kg	PU	EUR
190126	130 6	0,078	1	8,89

File assortments

190130 | bastard cut 1
190132 | smooth cut 3



Art. No.	set	kg	PU	EUR
190130	100 5	0,784	1	36,51
190132 *	200 5	0,799	1	42,29

Cable stripping knives

Cable stripping or lead tube knives

Art. No.	BL	pcs	kg	PU	EUR
200008	40	1	0,047	1	6,93

Cable stripping knives

Art. No.	BL	pcs	kg	PU	EUR
200010	60	1	0,073	1	8,01

Cable stripping knives

Art. No.	BL	pcs	kg	PU	EUR
200011 *	60	1	0,082	1	22,81

Cable stripping knives

Art. No.	BL	pcs	kg	PU	EUR
200012	60	1	0,079	1	9,19

Cable stripping knives

Art. No.	BL	pcs	kg	PU	EUR
200014	60	2	0,078	1	18,06

Cable stripping knives

Art. No.	BL	pcs	kg	PU	EUR
200016	60	3	0,089	1	20,74

Cable stripping knives

Art. No.	BL	pcs	kg	PU	EUR
200018	60	4	0,092	1	22,23

Utility knives

Utility metal knives

Art. No.	KB	kg	PU	EUR
200025	9	0,072	1	5,28

Snap blades

10-pieces, suitable for article 200025

Art. No.	KB	kg	PU	EUR
200025/KL	9	0,050	1	1,69

Utility metal knives

Art. No.	KB	kg	PU	EUR
200027 *	18	0,150	1	9,55

Safety knife

Art. No.	BL	kg	PU	EUR
200209	18	0,150	1	11,80

Utility knives „EXTRA“ with spare blades

Art. No.	KB	kg	PU	EUR
200051	18	0,022	1	9,33

Snap blades

10-pieces, suitable for article 200027 + 200209 + 200051

Art. No.	KB	kg	PU	PrU	EUR
200032	18	0,054	1	1	2,01

HAUPA Black Blades

Cutter blades, 10-part, suitable for Art. 200209

Art. No.	KB	kg	PU	EUR
200006	18	0,111	1	8,17

„Safety“ safety knife

					
Art. No.		KB	kg	PU	EUR
200021	148	20	0.111	1	8.94

Loose knife, hooked blade

10-pieces, suitable for article 200021 + 200059

Art. No.	kg	PU	PrU	EUR
200028	0,0038	1	1	7,17

Loose knife, trapezoidal blade

10-pieces, suitable for article 200021 + 200059

Art. No.	kg	PU	PrU	EUR
200030	0,0046	10	1	0,92

Utility knife professional HUPblackSeries9

							
							
Art. No.		BL	W	ØBL	kg	PU	EUR
200220	145	80	9	0.38	0.111	1	7.58

Blade dispenser HUPblades9

suitable for Art. No. 200220

								
								
Art. No.		BL	W	ØBL	kg	PU	PrU	EUR
200221	80	80	9	0.38	0.111	10	1	7.58

Utility knife professional HUPblackSeries18

Art. No.		BL	W	ØBL	kg	PU	EUR
200222	167	100	18	0.6	0.111	1	11.13

Blade dispenser HUPblades18

suitable for Art. No. 200222

														
														
Art. No.	BL	W	ØBL	kg	PU	PrU	EUR							
200223	167	100	18	0,6	0,111	10	1	9,43						

Tin snips, tube cutters

Hole-cutting tin snips

large radii



Art. No.	l	kg	PU	EUR
200140	250	0,523	1	39,31

Small tube cutter



Art. No.	Ø	kg	PU	EUR
200190	3-16	0,107	1	34,62
200192	loose spare wheels	0,025	1	7,88

Tube cutter



Art. No.	Ø	kg	PU	EUR
200194	3-35	0,401	1	35,90
200196	loose spare wheels	0,006	1	7,88

Saws, saw blades

Junior hacksaw

type: metal



Art. No.	Sbl.	kg	PU	EUR
200280	150	0,149	1	13,39

Junior hacksaw DIN 6473 C

type: metal



Art. No.	Sbl.	kg	PU	EUR
200284	150	0,069	1	1,31

Junior hacksaw

type: metal



Art. No.	Sbl.	kg	PU	EUR
200285	150	0,164	1	17,48

Junior hacksaw

type: metal



Art. No.	Sbl.	kg	PU	EUR
200287	150	0,164	1	16,06

Hand saw „PUK“

type: metal



Art. No.	Sbl.	kg	PU	EUR
200290 *	150	0,100	1	11,44

Hand saw „PUK“

type: metal



Art. No.	Sbl.	kg	PU	EUR
200292	150	0,119	1	21,88

„PUK“ saw

type: metal



Art. No.	Sbl.	kg	PU	EUR
200282	300	0,100	1	29,00

Hacksaw blades „PUK“

DIN 6494C – for Art. No. 200292, 200280, 200290, 200284, 200285, 110558

type: wood/plastic



Art. No.	Sbl.	kg	PU	PrU	EUR
200286	150	0,0036	12	1	0,93

Hacksaw blades „PUK“

DIN 6494C – for Art. No. 200292, 200280, 200290, 200284, 200285, 110558

type: metal/universal



Art. No.	Sbl.	kg	PU	PrU	EUR
200288	150	0,0036	12	1	0,98

Hacksaw frame

type: metal



Art. No.	Sbl.	kg	PU	EUR
200304 *	300	0,408	1	15,51

Hacksaw blades to DIN 6494

type A, single sided blade HSS-Bi-metal

type: metal



Art. No.	Sbl.	kg	PU	EUR
200310	300	0,016	1	2,55

Twist drills, ground

Twist drills DIN 338/HSS type N

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.	Øc-hole	SL		kg	PU	EUR	
230010	0,5	6	22	0,004	1	1,43	
230020	1	12	34	0,003	1	1,51	
230020/CO	1	12	34	0,004	1	1,16	
230030	1,5	18	40	0,003	1	1,81	
230030/CO	1,5	18	40	0,004	1	1,30	
230032	1,6	M2	20	43	0,003	1	1,81
230032/CO	1,6	M2	20	43	0,004	1	2,02
230040	2	24	49	0,005	1	1,81	
230040/CO	2	24	49	0,004	1	2,02	
230050	2,5	M3	30	57	0,054	1	1,96
230050/CO	2,5	M3	30	57	0,090	1	2,58
230060	3	33	61	0,005	1	2,64	
230060/CO	3	33	61	0,004	1	3,83	
230064	3,2	36	65	0,005	1	2,25	
230064/CO	3,2	36	65	0,004	1	1,77	
230066	3,3	M4	36	65	0,006	1	2,11
230066/CO	3,3	M4	36	65	0,011	1	2,38
230070	3,5	39	70	0,007	1	2,11	
230070/CO	3,5	39	70	0,004	1	2,38	
230080	4	43	75	0,008	1	2,29	
230080/CO	4	43	75	0,004	1	2,81	
230084	4,2	M5	43	75	0,008	1	2,55
230084/CO	4,2	M5	43	75	0,011	1	3,20
230090	4,5	47	80	0,010	1	2,55	
230090/CO	4,5	47	80	0,004	1	3,72	
230100	5	M6	52	86	0,010	1	3,60
230100/CO	5	M6	52	86	0,011	1	4,75
230110	5,5	57	93	0,015	1	3,93	
230110/CO	5,5	57	93	0,004	1	5,55	
230120	6	M7	57	93	0,018	1	4,37
230120/CO	6	M7	57	93	0,004	1	6,86
230130	6,5	63	101	0,022	1	2,29	
230130/CO	6,5	63	101	0,004	1	7,70	
230136	6,8	M8	69	101	0,026	1	8,91
230136/CO	6,8	M8	69	101	0,029	1	9,27
230140	7	69	109	0,027	1	2,89	
230140/CO	7	69	109	0,004	1	8,91	
230160	8	75	117	0,036	1	4,01	
230160/CO	8	75	117	0,004	1	12,34	
230170	8,5	M10	75	117	0,040	1	4,30
230170/CO	8,5	M10	75	117	0,044	1	13,08
230180	9	81	125	0,048	1	5,14	
230180/CO	9	81	125	0,004	1	15,27	
230190	9,5	81	125	0,054	1	5,55	
230190/CO	9,5	81	125	0,004	1	14,59	
230200	10	87	133	0,060	1	8,12	
230200/CO	10	87	133	0,004	1	18,36	
230204	10,2	M12	87	133	0,067	1	8,12
230204/CO	10,2	M12	87	133	0,069	1	20,15
230210	10,5	87	133	0,070	1	8,12	
230210/CO	10,5	87	133	0,004	1	19,11	
230220	11	87	133	0,078	1	8,12	
230220/CO	11	87	133	0,004	1	22,01	
230230	11,5	94	142	0,086	1	8,56	
230230/CO	11,5	94	142	0,004	1	22,01	
230240	12	M14	101	151	0,103	1	10,14
230240/CO	12	M14	101	151	0,004	1	26,58
230244	12,5	101	151	0,109	1	10,40	
230244/CO	12,5	101	151	0,004	1	27,35	
230250	13	101	151	0,100	1	11,91	
230250/CO	13	101	151	0,004	1	29,32	

Twist drills DIN 338/HSS type N



Art. No.	set	Ø	kg	PU	EUR
230312	19	1 - 10	0,540	1	37,58
230312/R	19	1 - 10	0,284	1	27,49
230312/TIN	19	1 - 10	0,345	1	44,87
230314	25	1 - 13	1,270	1	72,64
230314/R	25	1 - 13	1,213	1	52,58
230314/TIN	25	1 - 13	1,290	1	86,43

Bulk storage chest for twist drills



Art. No.	set	kg	PU	EUR
230301/TIN	170	4,550	1	290,75

Drills

Auger bit, type Lewis



Art. No.	mm	Ø	kg	PU	EUR
231502	460	6	0,005	1	6,66
231508	235	10	0,098	1	9,18
231516	235	14	0,160	1	12,35
231524	235	18	0,200	1	17,08
231526	460	18	0,468	1	30,17
231528	235	20	0,005	1	18,24
231530	460	20	0,005	1	30,62
231532	235	22	0,300	1	17,30
231540	235	26	0,005	1	21,88
231544	235	28	0,005	1	22,19
231546	460	28	0,005	1	48,29

Drill type machine bits for wood



Art. No.	mm	Ø	kg	PU	EUR
230616	70	3	0,005	1	0,56
230618	80	4	0,008	1	0,59
230620	90	5	0,011	1	0,67
230622	100	6	0,015	1	0,70
230626	120	8	0,031	1	1,03
230628	130	9	0,039	1	1,02
230630	137	10	0,047	1	1,54
230634	150	12	0,075	1	1,81
230636	170	13	0,088	1	5,35

Flat bits



Art. No.	Ø 			kg	PU	EUR
230732	10	150	6	0,049	1	2,16
230734	12	150	6	0,045	1	2,49
230736	14	150	6	0,047	1	2,70
230738	16	150	6	0,051	1	2,70
230740	18	150	6	0,047	1	3,06
230742	20	150	6	0,045	1	3,24
230746	24	150	6	0,045	1	3,69

Casing drill



Art. No.	mm	Ø	kg	PU	EUR
231750	400	6	0,100	1	13,16
231752	400	8	0,005	1	13,25
231754	400	10	0,160	1	14,84
231756	400	12	0,200	1	15,31
231758	400	13	0,200	1	19,37
231760	400	17	0,005	1	30,89
231766	400	22	0,200	1	46,96

Masonry drills

Masonry drills DIN 8039



Art. No.	mm	Ø	SL	kg	PU	EUR
230330	70	3	40	0,011	1	1,40
230331	75	3,5	45	0,056	1	1,73
230332	80	4	45	0,008	1	2,99
230334	85	4,5	50	0,008	1	1,51
230338	95	5,5	55	0,012	1	1,72
230340	100	6	60	0,018	1	1,81
230342	105	6,5	65	0,018	1	1,96
230344	110	7	65	0,018	1	1,96
230346	120	8	70	0,027	1	2,40
230352	140	10	90	0,035	1	2,97
230354	150	11	95	0,082	1	1,96
230356	160	12	105	0,090	1	4,01
230358	170	13	110	0,100	1	5,06
230360	180	14	115	0,120	1	5,06
230362	190	15	125	0,165	1	2,76
230364	190	16	125	0,091	1	6,02

Masonry drills DIN 8039



Art. No.	mm	Ø	SL	kg	PU	EUR
230370	400	8	300	0,130	1	3,63
230372	400	10	300	0,124	1	4,30
230376	400	14	300	0,316	1	6,18
230378	400	16	300	0,232	1	7,08
230380	400	18	300	0,460	1	7,85
230382	400	20	300	0,608	1	9,67
230400	600	8	500	0,222	1	13,11
230402	600	10	500	0,222	1	15,77
230404	600	12	500	0,330	1	18,89
230406	600	14	500	0,463	1	21,32
230408	600	16	500	0,568	1	36,98
230410	600	18	500	0,715	1	29,93
230412	600	20	500	0,896	1	35,31
230414	600	22	500	1,164	1	41,81

Masonry drill bit

Art. No.	↔	Ø	kg	PU	EUR
231700	70	3	0,007	1	1,01
231702	85	4	0,010	1	1,07
231704	95	5	0,016	1	1,12
231706	100	6	0,018	1	1,44
231708	100	7	0,020	1	1,33
231710	120	8	0,027	1	2,18
231712	120	9	0,030	1	2,38
231714	120	10	0,035	1	2,81
231716	150	11	0,090	1	3,93
231718	150	12	0,100	1	4,15

SDS hammer drill bits

Art. No.	↔	Ø	SL	kg	PU	EUR
230430	110	5	50	0,037	1	4,83
230431	160	5	100	0,042	1	5,62
230432	110	5,5	50	0,037	1	4,83
230433	160	5,5	100	0,045	1	5,83
230434	110	6	50	0,039	1	4,86
230436	160	6	100	0,045	1	5,22
230438	110	6,5	50	0,038	1	4,96
230438/A	160	7	100	0,050	1	6,09
230440	110	7	50	0,041	1	5,27
230442	110	8	50	0,046	1	5,70
230442/A	160	8	100	0,056	1	6,23
230444	210	8	150	0,064	1	8,89
230444/A	460	8	400	0,150	1	20,33
230448	160	10	100	0,065	1	8,50
230450	210	10	150	0,087	1	8,38
230450/A	260	10	150	0,118	1	10,19
230451	460	10	400	0,192	1	24,05
230453	210	12	150	0,107	1	10,10
230454	160	12	100	0,097	1	9,67
230456	260	12	200	0,159	1	12,10
230457	460	12	400	0,263	1	20,33
230458	160	13	85	0,111	1	14,47
230459	600	12	540	0,286	1	35,96
230460	160	14	100	0,087	1	10,82
230460/A	260	14	200	0,179	1	15,07
230461	460	14	400	0,257	1	21,43
230464	210	16	150	0,197	1	18,74
230466	460	16	400	0,418	1	26,63
230467	600	14	540	0,339	1	37,81
230473	600	16	540	0,561	1	42,34
230474	210	20	150	0,246	1	28,89
230475	460	18	400	0,475	1	39,60
230478/1	600	10	540	0,270	1	33,99
230395	460	20	400	0,585	1	50,12
230396	600	20	540	0,737	1	61,40
230397	460	22	400	0,669	1	74,13
230398	460	25	400	0,998	1	58,63

SDS-Nut-hammer drill sets

5, 6, 8 x 110 / 6, 8, 10, 12 x 160



Art. No.	set	kg	PU	EUR
230479	7	0,679	1	73,06

SDS-hammer drill sets

5, 6 x 110 / 6, 8, 10 x 160



Art. No.	set	kg	PU	EUR
230979	5	0,261	1	14,68

SDS hammer drill bits

Art. No.	↔	Ø	SL	kg	PU	EUR
230900 *	110	5	50	0,036	1	2,25
230902	160	5	100	0,042	1	2,47
230904	110	5,5	50	0,036	1	2,38
230906/1	160	5,5	100	0,043	1	2,50
230908 *	110	6	50	0,040	1	2,31
230910 *	160	6	100	0,045	1	2,63
230912	110	6,5	50	0,041	1	2,48
230914	160	6,5	100	0,045	1	2,66
230916 *	110	7	50	0,040	1	2,73
230918	160	7	100	0,045	1	2,81
230920	110	8	50	0,045	1	2,67
230922 *	160	8	100	0,055	1	3,04
230924	210	8	150	0,067	1	3,69
230926 *	160	10	100	0,068	1	3,51
230928	210	10	150	0,095	1	4,26
230930/1	260	10	150	0,107	1	4,07
230932	450	10	400	0,155	1	8,21
230934	600	10	540	0,365	1	9,45
230936	260	11	210	0,070	1	6,30
230938	160	12	100	0,077	1	3,45
230940	210	12	150	0,106	1	4,76
230942	310	12	260	0,120	1	4,69
230944	460	12	400	0,250	1	8,21
230946	600	12	540	0,315	1	9,63
230948	160	13	100	0,085	1	4,21
230950	160	14	100	0,200	1	5,68
230952	260	14	210	0,250	1	7,74
230954/1	460	14	400	0,300	1	9,15
230956	600	14	540	0,365	1	11,17
230958	160	15	100	0,120	1	6,23
230960	210	16	150	0,195	1	9,76
230962/1	460	16	400	0,346	1	11,57
230964	600	16	540	0,418	1	13,48
230966	200	18	140	0,180	1	10,31
230968	460	18	400	0,395	1	16,44
230970	210	20	150	0,221	1	8,38
230972	310	20	250	0,383	1	10,40
230974	460	20	400	0,503	1	14,97
230976	460	22	400	0,583	1	21,71
230978	460	25	400	0,753	1	22,19

Step drills**Combination step drills/HSS**

Art. No.	c-hole	Ø min.	Ø max.	kg	PU	EUR
231319 *	10.5-38,5	8,5	40,5	0,269	1	149,00

Step drills /HSS

Art. No.	Ø min.	Ø max.	kg	PU	EUR
231324	8,5	40,5	0,199	1	153,02

Step drills /HSS

Art. No.	Ø min.	Ø max.	kg	PU	EUR
231326	8,5	30,5	0,208	1	142,50

Step drills /HSS

Art. No.	Ø min.	Ø max.	kg	PU	EUR
231320	7	40	0,237	1	154,95
231322	7	30	0,151	1	129,59

Step drills /HSS

Art. No.	Ø min.	Ø max.	⌀	kg	PU	EUR
231336	4	12	6	0,027	1	41,12
231338	12	20	10	0,079	1	67,91
231340	20	30	12	0,203	1	119,54
231342	30	40	12	0,371	1	207,54
231350	4	12	6	0,027	1	49,74
231352	4	20	8	0,059	1	56,44
231354	6	30	10	0,162	1	84,64

Step drills assortment/HSS**Content:**

Ø 4 - 12 mm, Ø 12 - 20 mm, Ø 20 - 30 mm



Art. No.	set	Ø	kg	PU	EUR
231327	3	4 - 30	0,597	1	260,13

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Cone drills

Cone drills/Aerial drills/HSS



Art. No.	Ø min.	Ø max.		kg	PU	EUR
231300	3	14	6	0,027	1	31,08
231301	6	20	8	0,055	1	36,83
231330	6	22,5	8	0,085	1	52,58
231302	16	30	10	0,139	1	64,55
231304	26	40	12	0,265	1	129,59
231305 *	6	30	10	0,166	1	72,69
231306	36	50	12	0,350	1	217,60
231307	46	60	13	0,551	1	319,92

Set of cone drills/HSS

Content: 1 piece each No. 1, 2, 3 (Ø 3 - 30 mm)



Art. No.	Ø	set	kg	PU	EUR
231312	3 - 30	3	0,510	1	144,90

Screw punches

Screw punches



Art. No.	screws	kg	PU	EUR
180513	ISO 16 180530	0,101	1	49,99
180515	ISO 20 180530	0,115	1	55,19
180517	ISO 25 180530	0,154	1	59,28
180519	ISO 32 180532	0,320	1	82,52
180521	ISO 40 180532	0,950	1	125,20
180523	ISO 50 180534	0,636	1	162,18
180525	ISO 63 180534	0,974	1	191,01
180500	PG9 180530	0,097	1	50,25
180502	PG11 180530	0,106	1	54,27
180504	PG13,5 180530	0,115	1	55,85
180506	PG16 180530	0,100	1	56,92
180508	PG21 180530	0,176	1	66,22
180510	PG29 180532	0,400	1	105,71
180512	Ø 30,5 180534	0,202	1	73,12
180514	PG36 180534	0,590	1	157,68
180516	PG42 180534	1,250	1	183,71
180518	PG48 180534	0,319	1	204,40
180520	Ø 28,6 180530	0,250	1	66,22

Spare screws

metric



Art. No.	size	kg	PU	EUR
180530	10 x 1,0	0,048	1	6,80
180532	12 x 1,5	0,070	1	7,66
180534	16 x 1,5	0,139	1	9,24

Diamond hollow core cutters

Diamond hollow core cutters



Art. No.	Ø	kg	PU	EUR
230676	68	0,453	1	91,71
230677	82	0,590	1	101,90

Diamond hollow core cutters



Art. No.	Ø	kg	PU	EUR
230676/K	68 SDS-plus	0,672	1	138,08
230677/K	82 SDS-plus	0,764	1	148,27

Diamond hollow core cutter special

laser-welded



Art. No.	Ø	kg	PU	EUR
230885/K	68 SDS-plus	0,450	1	257,07
230886/K	82 SDS-plus	0,787	1	209,41

Drill for Diamond hollow core cutters



Art. No.	Ø	kg	PU	EUR
230679	120 9	0,044	1	11,20

Shank for hollow core cutters, SDS-Plus



Art. No.		kg	PU	EUR
230681/K	100 SDS-plus	0,150	1	35,15

Cutting discs

Diamond cutting disk „Spezial“

These HAUPA discs can cut everything but stone!



LONG LIFE

Video 230727



Art. No.	Ø	kg	PU	EUR
230727	115	0,120	1	67,25
230731 *	125	0,140	1	68,78

Diamond cutting blades



Art. No.	Ø	kg	PU	EUR
230689	115	0,100	1	28,02
230691	125	0,149	1	33,13
230720	135	0,193	1	106,54
230721	140	0,219	1	152,64
230704	150	0,245	1	58,59
230705	180	0,317	1	120,14
230706	230	0,700	1	76,42
230711	300	1,256	1	220,02

Diamond cutting blades



Art. No.	Ø	kg	PU	EUR
230701	115	0,132	1	20,43
230702	125	0,169	1	13,77
230708	180	0,339	1	81,08
230709	230	0,681	1	39,74

Diamond cutting blades, TBM Turbo



Art. No.	Ø	kg	PU	EUR
230722	115	0,120	1	41,68
230723	125	0,134	1	50,95
230725	230	0,706	1	113,51

Hollow saws

T.C.T. Hole Saw



Art. No.	Ø	ST	Ø	kg	PU	EUR
392100	16	12	6,5	0,046	1	60,73
392102	20	31	6,5	0,046	1	60,73
392104	22	31	6,5	0,046	1	61,81
392106	22,5	31	6,5	0,097	1	61,81
392108	25	31	6,5	0,046	1	62,97
392110	30	31	6,5	0,046	1	70,86
392112	32	31	6,5	0,046	1	78,11
392114	35	31	6,5	0,046	1	82,08
392116	40	31	6,5	0,046	1	94,16
392118	50	31	6,5	0,046	1	114,43
392120	60	31	6,5	0,046	1	159,94

T.C.T. center drill for hole saw arbors



Art. No.		Ø	kg	PU	EUR
392122	100	6,5	0,089	1	12,54

Spring for hole saw arbors



Art. No.	kg	PU	EUR
392124	0,046	1	1,21

T.C.T. Hole Saw Fastcut



Art. No.	Ø Inch	Ø	ST	Ø	kg	PU	EUR
231942	3/4	19	50	6,35	0,047	1	16,22
231944	7/8	22	50	6,35	0,062	1	16,75
231946	1	25	50	6,35	0,077	1	16,75
231950	1 3/16	30	50	6,35	0,115	1	18,12
231952	1 1/4	32	50	6,35	0,122	1	18,59
231954	1 3/8	35	50	6,35	0,133	1	18,59
231956	1 9/16	40	50	6,35	0,123	1	19,34
231958	1 3/4	44	50	6,35	0,144	1	19,34
231960	2	51	50	6,35	0,179	1	24,25
231962	2 1/8	54	50	6,35	0,198	1	24,76
231964	2 3/8	60	50	6,35	0,206	1	26,47
231966	2 1/2	64	50	6,35	0,267	1	30,41
231968	2 9/16	65	50	6,35	0,279	1	30,41
231970	2 11/16	68	50	6,35	0,275	1	32,12
231972	2 3/4	70	50	6,35	0,316	1	32,59
231974	3	76	50	6,35	0,298	1	34,51
231976	3 1/8	79	50	6,35	0,379	1	38,06
231978	3 1/4	83	50	6,35	0,428	1	39,07
231980	4	102	50	6,35	0,591	1	47,80
231982	4 1/2	114	50	6,35	0,773	1	50,71

Bi-Metal Hole Saws 10 tpi
8% Cobalt

Art. No.	Ø	ST	Ø	kg	PU	EUR
392050	16	31	6,5	0,046	1	14,43
392052	19	31	6,5	0,046	1	14,43
392054	20	31	6,5	0,046	1	14,95
392056	21	31	6,5	0,046	1	15,27
392058	22	31	6,5	0,046	1	15,27
392060	24	31	6,5	0,046	1	16,22
392062	25	31	6,5	0,046	1	16,22
392064	29	31	6,5	0,046	1	17,42
392066	30	31	6,5	0,046	1	17,42
392070	38	31	6,5	0,046	1	18,84
392072	40	31	6,5	0,046	1	19,60

Bi-Metal Hole Saws 4 - 6 tpi
8% Cobalt

Art. No.	Ø Inch	Ø	ST	Ø	kg	PU	EUR
231803	9/16	14	30	6,35	0,036	1	12,62
231900	3/4	19	35	6,35	0,036	1	13,98
231901/21		21	30	6,5	0,046	1	13,85
231902	7/8	22	35	6,35	0,046	1	14,47
231904	1	25	35	6,35	0,071	1	14,95
231904/29		29	30	6,5	0,046	1	15,33
231906	1 1/6	27	35	6,35	0,075	1	15,21
231908	1 3/16	30	35	6,35	0,079	1	15,91
231910	1 1/4	32	35	6,35	0,085	1	16,61
231912	1 3/8	35	35	6,35	0,092	1	17,19
231912/38		38	30	6,5	0,046	1	16,83
231914 *	1 9/16	40	35	6,35	0,086	1	17,56
231914/46		46	30	6,5	0,046	1	18,28
231916	1 3/4	44	35	6,35	0,105	1	18,30
231918 *	2	51	35	6,35	0,133	1	18,88
231920	2 1/8	54	35	6,35	0,145	1	20,38
231922	2 3/8	60	35	6,35	0,168	1	20,86
231924	2 1/2	64	35	6,35	0,192	1	22,98
231926	2 9/16	65	35	6,35	0,198	1	23,24
231928 *	2 11/16	68	35	6,35	0,214	1	23,59
231930	2 3/4	70	35	6,35	0,223	1	24,73
231931 *	2 7/8	73	35	6,35	0,236	1	25,47
231932	3	76	35	6,35	0,253	1	26,11
231934	3 1/8	79	35	6,35	0,275	1	27,32
231936 *	3 1/4	83	35	6,35	0,304	1	28,53
231938	4	102	35	6,35	0,429	1	40,70
231939/111		111	30	6,5	0,046	1	46,43
231940	4 1/2	114	35	6,35	0,549	1	47,52
231940/127		127	30	6,5	0,046	1	51,71
231940/152		152	30	6,5	0,046	1	70,33
231940/210		210	30	6,5	0,046	1	115,24

Hole saw with edge countersink
and board ejector

Art. No.	Ø Inch	Ø	ST	Ø	kg	PU	EUR
231929	2 11/16	68	35	6,35	0,036	1	71,64

Adapter for hollow saws

Quick change holder for hole saws
„RE-LOAD“

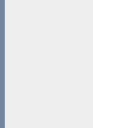
RE-LOAD



Art. No.	Ø Shank	Ø	kg	PU	EUR
392010	14-210	9,5	0,046	1	51,21

Adapter assortment for holder „RE-LOAD“

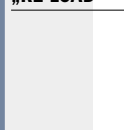
RE-LOAD



Art. No.	Ø Shank	Ø	kg	PU	EUR
392012	14-30	9,5	0,046	1	44,57
392014	32-210	9,5	0,046	1	49,72
392016	14-210	9,5	0,046	1	46,32

Adapter assortment for hole enlarger
„RE-LOAD“

RE-LOAD



Art. No.	Ø Shank	Ø	kg	PU	EUR
392018	14-210	9,5	0,046	1	56,35

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Centre drill for holder „RE-LOAD“

RE-LOAD



Art. No.	l	Ø	kg	PU	EUR
392020	100	6,5	0,046	1	7,52

Centre drill for holder 392024 | 392026 | 392028



Art. No.	l	Ø	kg	PU	EUR
392022	100	6,5	0,046	1	15,10

Hex shank with plug ejection



Art. No.	Ø	Shank Ø	kg	PU	EUR
392028	32-210	9,5	0,046	1	95,54

SDS-shank



Art. No.	Ø	Shank Ø	kg	PU	EUR
392024	14-30	11	0,046	1	17,91

SDS-shank



Art. No.	Ø	Shank Ø	kg	PU	EUR
392026	32-210	11	0,046	1	19,39

Adapter „QuickLock“



Art. No.	Ø	Shank Ø	kg	PU	EUR
231998	14-30	8	0,067	1	20,59
231999 *	32-210	11	0,107	1	27,50

Centre drills for 231998 / 231999



Art. No.	l	Ø	kg	PU	EUR
232007	120	9	0,020	1	8,83

Hollow saws

Compass saw set bi-metal

Set in black plastic case, dimensions: 255 x 210 x 72 mm

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.	set	kg	PU	EUR
232011	9	1,850	1	268,17

Bi-metal hole saw set

RE-LOAD

Set in black plastic case, dimensions: 255 x 210 x 72 mm

Content:

- Hole saws bi-metal 35 mm
- Hole saws bi-metal 68 mm
- Hole saws bi-metal 76 mm
- Quick change holder for hole saws "RE-LOAD"
- 3 adapters for holder "RE-LOAD" 32 - 210 mm



Art. No.	set	kg	PU	EUR
231984	6	0,900	1	159,02

Bi-metal hole saw set „QuickChange“

Set in black plastic case, dimensions: 255 x 210 x 72 mm

Content:

- Hole saws bi-metal 35 mm
- Hole saws bi-metal 40 mm
- Hole saws bi-metal 51 mm
- Hole saws bi-metal 68 mm
- Hole saws bi-metal 73 mm
- Hole saws bi-metal 83 mm
- Adapter „QuickLock“



Art. No.	set	kg	PU	EUR
230002	7	1,785	1	201,35

Threading bits, taps

HSS taps "Direct cutter"



Art. No.	Ø	l	kg	PU	EUR
230982	4	4,5	0,008	1	7,90
230984	5	6	0,014	1	8,12
230986	6	6	0,017	1	8,12
230988	8	6	0,012	1	10,06

Taps for armoured steel conduits, metric thread



Art. No.	Ø	kg	PU	EUR
140236	16	0,040	1	29,03
140238	20	0,060	1	33,97
140240	25	0,206	1	51,36
140242	32	0,359	1	70,24
140244	40	0,648	1	110,84
140246	50	0,230	1	240,02
140248	63	1,688	1	332,52

Adjustable tap wrenches



Art. No.	thd.	tap wrench	kg	PU	EUR
140180	M 7-25	PG 7-21	0,850	1	315,62

Adjustable tap wrenches DIN 1814



Art. No.	thd.	tap wrench	kg	PU	EUR
231050	M1 - 8	0	0,050	1	7,34
231052	M1 - 10	1	0,099	1	7,60
231054	M1 - 12	1,5	0,097	1	7,60
231056	M4 - 12	2	0,285	1	12,82
231058	M5 - 21	3	0,700	1	22,47
231060	M9 - 27	4	1,270	1	34,48
231062	M12 - 33	5	1,630	1	62,18
231064	M19 - 38	6	4,520	1	115,74

Nipple threading dies



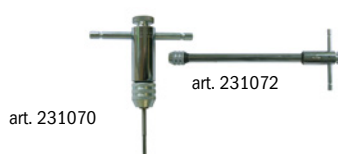
Art. No.	thd.	kg	PU	EUR
140190	M 10	0,100	1	61,98
140192	M 13	0,130	1	67,39

Nipple threading dies



Art. No.	thd.	kg	PU	EUR
140210	M 10, M 13	0,210	1	138,16

Ratchet wrenches



Art. No.	thd.	WS	kg	PU	EUR
231070	85 M3 - 10	2,4 - 5,5	0,174	1	15,31
231072	100 M5 - 12	4,5 - 8,0	0,271	1	18,17
231074	250 M3 - 10	2,4 - 5,5	0,026	1	23,90
231076	300 M5 - 12	4,5 - 8,0	0,420	1	31,08

Complete stocks, metric thread



Art. No.	thd.	kg	PU	EUR
140214	M 16, M 20, M 25	1,000	1	174,31
140216	M 20, M 25	1,350	1	138,89

Complete stocks, metric thread



Art. No.	thd.	kg	PU	EUR
140218	M 32, M 40	2,850	1	291,09
140220	M 50, M 63	3,500	1	623,80

Dies, metric thread



Art. No.	thd.	kg	PU	EUR
140222	M16	0,175	1	32,25
140224	M20	0,138	1	31,62
140226	M25	0,145	1	31,62
140228	M32	0,477	1	89,53
140230	M 40	0,130	1	87,66
140232	M 50	0,980	1	159,69
140234	M 63	0,791	1	155,89

Guides, metric



Art. No.	Ø	kg	PU	EUR
140250	16	0,037	1	7,45
140252	20	0,040	1	7,45
140254	25	0,035	1	8,52
140256	32	0,030	1	12,35
140258	40	0,060	1	12,24
140260	50	0,070	1	21,05
140262	63	0,134	1	19,33

Screw extractor set



Art. No.	size	set	kg	PU	EUR
230682	1-5/M3-18	5	0,111	1	16,44
230683	1-6/M3-24	6	0,231	1	25,13

Hand taps DIN 352, type N/HSS



Art. No.	Ø	l	kg	PU	EUR
230800	1	2,5	0,010	1	30,42
230802	1,4	2,5	0,010	1	33,09
230804	1,6	2,5	0,002	1	30,42
230806	1,8	2,5	0,002	1	64,70
230808	2	2,8	0,002	1	33,09
230810	2,2	2,8	0,002	1	27,45
230812	2,5	2,8	0,002	1	25,92
230814	3	3,5	0,033	1	10,99
230816	3,5	4	0,004	1	25,50
230818	4	4,5	0,017	1	10,99
230820	4,5	5,5	0,005	1	35,28
230822	5	6	0,034	1	10,99
230824	6	6	0,035	1	10,99
230826	7	6	0,039	1	21,58
230828	8	6	0,046	1	13,39
230830	9	7	0,065	1	31,38
230832	10	7	0,071	1	17,68
230834	11	8	0,025	1	38,25
230836	12	9	0,115	1	21,05
230838	14	11	0,052	1	28,69
230840	16	12	0,062	1	28,69
230842	18	14	0,102	1	41,60
230844	20	16	0,125	1	45,42
230846	22	18	0,182	1	52,58
230848	24	18	0,205	1	71,73
230850	27	20	0,260	1	137,25
230852	30	22	0,395	1	176,44
230854	33	25	0,480	1	215,66
230856	36	28	0,645	1	294,09
230858	39	32	2,400	1	343,12
230860	42	32	0,930	1	392,13
230862	45	36	1,140	1	490,15
230864	48	36	1,370	1	725,42
230866	52	40	1,650	1	831,29
230868	56	45	2,800	1	1.223,42
230870	60	45	2,900	1	1.646,91

HSS taps set

with taps to DIN 352, in metal box

Contents:

M 3, M 4, M 5, M 6, M 8, M 10, M 12



Art. No.	set	kg	PU	EUR
231080	7	0,696	1	98,03

Combi, threading bit set, made of HSSG SGE-Bit (DBGM)

Contents: M 3, M 4, M 5, M 6, M 8, M 10



Art. No.	set	kg	PU	EUR
231082	7	0,188	1	105,20

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



Art. No.	set	kg	PU	EUR
231280	37	2,520	1	266,50

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



Art. No.	set	kg	PU	EUR
231282	55	8,200	1	636,00

Wood screws

Universal countersunk screw

Chipboard screw, galvanised, counter-sunk head, Pozidriv



Art. No.		Ø	drive	PU	PrU	EUR	
790005	15	3	PZ	2	200	100	1,83
790006	25	3	PZ	2	200	100	2,08
790008	40	3	PZ	2	200	100	2,81
790015	20	3,5	PZ	2	200	100	2,17
790016	25	3,5	PZ	2	200	100	2,35
790017	30	3,5	PZ	2	200	100	2,18
790018	35	3,5	PZ	2	200	100	2,68
790079	40	3,5	PZ	2	200	100	3,00
790027	30	4	PZ	2	200	100	2,88
790029 *	40	4	PZ	2	200	100	3,50
790030	45	4	PZ	2	200	100	3,86
790031	50	4	PZ	2	200	100	3,87
790040	35	4,5	PZ	2	200	100	4,08
790041 *	40	4,5	PZ	2	200	100	4,34
790043	50	4,5	PZ	2	200	100	4,95
790051	30	5	PZ	2	100	100	4,25
790053	40	5	PZ	2	100	100	4,96
790054	50	5	PZ	2	100	100	6,63
790055	60	5	PZ	2	100	100	6,98
790056	80	5	PZ	2	100	100	9,27
790063	50	6	PZ	3	100	100	8,80
790064	60	6	PZ	3	50	100	10,59
790065	80	6	PZ	3	50	100	13,91

Universal pan head screw

Fibreboard screws, galvanised, pan head Pozidriv



Art. No.		Ø	drive	PU	PrU	EUR	
790090	25	3,5	PZ	2	200	100	2,69
790091	30	3,5	PZ	2	200	100	3,01
790093	40	3,5	PZ	2	200	100	3,59
790100	30	4	PZ	2	200	100	3,48
790101	35	4	PZ	2	200	100	3,80
790102	40	4	PZ	2	200	100	4,02
790103	45	4	PZ	2	200	100	4,55
790104	50	4	PZ	2	200	100	4,95
790111	40	4,5	PZ	2	200	100	5,50
790112	45	4,5	PZ	2	200	100	5,26
790113	50	4,5	PZ	2	200	100	6,33
790118	30	5	PZ	2	200	100	4,96
790120	40	5	PZ	2	200	100	5,88
790121	50	5	PZ	2	200	100	9,00

Hexagonal wood screws, hot zinc dipped

in accordance with DIN 571, hot zinc dipped, general requirements according to DIN 267 Part 1



Art. No.	↔	Ø	drive	PU	PrU	EUR
790212/V	80	6	10	25	100	61,94
790223/V	60	8	13	25	100	64,86
790224/V	80	8	13	25	100	98,34
790235/V	60	10	17	10	100	130,38

Dry wall screws

galvanised, counter-sunk head, Tx



Art. No.		Ø	drive	PU	PrU	EUR
790920	32	3,9	TX	20	200	100
790922	41	3,9	TX	20	200	100

Chipboard screw countersunk „TwinSpeed“

Chipboard screw, galvanised, counter-sunk head, Tx, double helix thread, considerably shortened screw-in times when compared to traditional screws thanks to the double start thread. Uses: Wood, plywood, plasterboard, rawlplugs



Art. No.		Ø	drive	PU	PrU	EUR	
793005	15	2,9	TX	10	200	100	2,44
793006	25	2,9	TX	10	100	100	2,79
793007	30	2,9	TX	10	100	100	3,07
793008	40	2,9	TX	10	100	100	3,07
793027	30	3,9	TX	15	100	100	3,97
793029	40	3,9	TX	15	100	100	4,47
793030	45	3,9	TX	15	100	100	5,12
793031	50	3,9	TX	15	100	100	5,80
793040	35	4,2	TX	20	100	100	4,43
793041	40	4,2	TX	20	100	100	7,69
793043	50	4,2	TX	20	100	100	5,13
793051	30	4,8	TX	25	100	100	6,80
793053	40	4,8	TX	25	100	100	6,29
793054	50	4,8	TX	25	100	100	7,37
793055	60	4,8	TX	25	100	100	9,78
793064	60	6,3	TX	30	50	100	17,42
793065	80	6,3	TX	30	50	100	17,42

Chipboard screw pan head „TwinSpeed“

Chipboard screw, galvanised, pan head, Tx, double helix thread, considerably shortened screw-in times when compared to traditional screws thanks to the double start thread. Uses: Wood, plywood, plasterboard, rawlplugs



Art. No.		Ø	drive	PU	PrU	EUR	
793099	20	3,9	TX	15	100	100	3,54
793100	32	3,9	TX	15	100	100	4,63
793101	35	3,9	TX	15	100	100	4,95
793102	38	3,9	TX	15	100	100	5,08
793103	45	3,9	TX	15	100	100	5,73
793104	50	3,9	TX	15	100	100	6,41
793111	38	4,2	TX	20	100	100	5,75
793112	45	4,2	TX	20	100	100	6,29
793113	50	4,2	TX	20	100	100	7,09
793118	32	4,8	TX	25	100	100	6,10
793120	38	4,8	TX	25	100	100	7,02
793121	50	4,8	TX	25	100	100	8,61
793125	60	6,3	TX	30	50	100	19,07

Hexagonal wood screws

in accordance with DIN 571, galvanised, general requirements according to DIN 267 Part 1



Art. No.	↔	Ø	drive	PU	PrU	EUR
790210	40	6	10	50	100	9,92
790211	60	6	10	25	100	16,33
790212	80	6	10	25	100	20,34
790222	50	8	13	25	100	20,94
790223	60	8	13	25	100	24,78
790224	80	8	13	25	100	32,06
790225	100	8	13	25	100	38,50
790235	60	10	17	10	100	45,82
790236	80	10	17	10	100	55,78
790237	100	10	17	10	100	64,37

Hooks

galvanised



Art. No.	Ø	SftL	PU	PrU	EUR
790900	4,2	50 mm	50	100	15,25
790902	5,8	80 mm	10	100	51,32

Tin screws, assembly screws

TwinSpeed self tapping screw

galvanised, pan head, Phillips cross-head and double helix thread, considerably shortened screw-in times when compared to traditional screws thanks to the double start thread. Uses: Wood, plywood, plasterboard, rawlplugs



Art. No.		Ø	drive	PU	PrU	EUR	
790303	19	3,5	PH	2	100	100	3,47
790311	32	3,5	PH	2	100	100	3,65
790325	13	4,2	PH	2	100	100	3,07
790326	16	4,2	PH	2	100	100	3,34
790327	19	4,2	PH	2	100	100	3,56
790329	25	4,2	PH	2	100	100	4,25
790332	31	4,2	PH	2	100	100	5,26
790333	38	4,2	PH	2	100	100	5,42
790334	45	4,2	PH	2	100	100	5,96
790335	65	4,2	PH	2	100	100	8,35

Plate screw DIN 7504

in accordance with DIN 7504M (formerly N), self-tapping, hardened steel, galvanised, pan head with Phillips slot, plate screw thread according to DIN 7970



Art. No.		Ø	drive	PU	PrU	EUR	
790411	13	3,5	PH	2	200	100	2,15
790413	19	3,5	PH	2	200	100	2,58
790416	13	3,9	PH	2	200	100	2,73
790417	16	3,9	PH	2	200	100	2,83
790419	25	3,9	PH	2	200	100	4,03
790422	13	4,2	PH	2	200	100	2,87
790423	16	4,2	PH	2	200	100	3,40
790424	19	4,2	PH	2	200	100	3,56
790426	25	4,2	PH	2	200	100	3,96
790428	32	4,2	PH	2	200	100	4,43
790432	13	4,8	PH	2	200	100	4,09
790433	16	4,8	PH	2	200	100	4,42
790434	19	4,8	PH	2	200	100	5,75
790436	25	4,8	PH	2	200	100	5,58

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Plate screw DIN 7504, Tx

in accordance with DIN 7504M (formerly N), self-tapping, hardened steel, galvanised, Tx, plate screw thread according to DIN 7970



Art. No.		Ø	drive	PU	PrU	EUR	
790510	13	4,2	TX	20	100	100	3,76
790512	16	4,2	TX	20	100	100	4,12
790514	19	4,2	TX	20	100	100	5,38
790516	25	4,2	TX	20	100	100	4,95

Mounting screws

galvanised with washer, Philips cross-head, self-cutting



Art. No.		Ø	drive	PU	PrU	EUR	
790450	13	4,2	PH	2	100	100	4,73
790452	25	4,2	PH	2	100	100	3,49
790454	31	4,2	PH	2	100	100	4,25
790456	45	4,2	PH	2	100	100	5,41

Mounting screws

self-cutting and self-boring, galvanised with washer, Tx



Art. No.		Ø	drive	PU	PrU	EUR
790500	13	4,2	TX	20	100	100
790502	19	4,2	TX	20	100	100
790504	25	4,2	TX	20	100	100

Mounting screws

self-cutting and self-boring, galvanised with washer, Philips cross-head

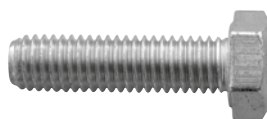


Art. No.		Ø	drive	PU	PrU	EUR
790470	13	4,2	PH	2	100	100
						4,35

Machinery screws, cylinder screws

Hexagonal machine screws

according to DIN 933, continuous thread, galvanised, 8.8 quality



Art. No.	TL	Ø	drive	PU	PrU	EUR
790540	20	6	10	100	100	8,91
790542	25	6	10	100	100	10,01
790544	30	6	10	100	100	11,84
790562	20	8	10	100	100	14,84
790564	25	8	10	100	100	16,50
790566	30	8	10	100	100	17,93
790588	20	10	10	100	100	24,46
790592	30	10	10	100	100	29,57
790616	30	12	10	50	100	43,72
790618	40	12	10	50	100	51,80

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	PU	PrU	EUR
790806	16	3	5,5x0,8	200	100	2,22
790808	20	3	5,5x0,8	200	100	2,47
790832	16	4	7,0x1,2	200	100	3,48
790834	20	4	7,0x1,2	200	100	3,93
790837	30	4	7,0x1,2	200	100	5,03
790862	16	5	8,5x1,2	200	100	5,47
790864	20	5	8,5x1,2	200	100	6,18
790867	30	5	8,5x1,2	200	100	7,95
790882	16	6	10,0x1,6	200	100	8,31
790884	20	6	10,0x1,6	200	100	9,30
790888	30	6	10,0x1,6	200	100	11,85

Machine screw counter sunk

continuous thread, zinc-plated, pan headed Pozidriv



Art. No.		Ø	drive	PU	PrU	EUR	
790700	20	3	PZ	2	100	100	2,14
790702	30	3	PZ	2	100	100	2,74
790704	40	3	PZ	2	100	100	3,33
790706	50	3	PZ	2	100	100	4,54
790710	20	4	PZ	2	100	100	4,39
790712	30	4	PZ	2	100	100	3,87
790714	40	4	PZ	2	100	100	4,67
790716	50	4	PZ	2	100	100	6,63
790721	25	5	PZ	2	100	100	4,79
790722	30	5	PZ	2	100	100	6,44
790724	40	5	PZ	2	100	100	6,73
790726	50	5	PZ	2	100	100	7,95

Hexagonal nuts, washers

Hexagonal nut DIN 934

in accordance with ISO 4032, EN 24032 or DIN 934, steel galvanised, 8 quality



Art. No.		M	PU	PrU	EUR
792000	5,5	M3	200	100	1,27
792001	7	M4	200	100	1,64
792002	8	M5	200	100	1,98
792003	10	M6	200	100	3,62
792005	13	M8	200	100	8,21
792006	17	M10	200	100	15,71
792008	19	M12	100	100	19,09

Washers DIN 125

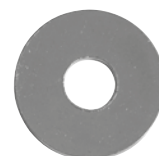
in accordance with ISO 7089, EN 27089 or DIN 125, Form A without chamfer, steel galvanised



Art. No.	M	d1	d4	PU	PrU	EUR
792600	M3	3,2	7	200	100	1,38
792602	M4	4,3	9	200	100	1,63
792603	M5	5,3	10	200	100	1,96
792604	M6	6,4	12	200	100	2,18
792606	M8	8,4	16	200	100	3,34
792607	M10	10,5	20	200	100	6,32

Washers

in accordance with ISO 7093, DIN 9021N, zinc-plated steel



Art. No.	M	d1	d4	ST	PU	PrU	EUR
792650	M4	4,3	12	1	100	100	5,79
792651	M5	5,3	15	1,6	100	100	7,74
792652	M6	6,4	20	2	100	100	8,30
792654	M8	8,4	25	2	100	100	12,23
792656	M10	10,5	40	2	100	100	30,55
792658	M12	13	40	2	100	100	27,71

Spring washers

according to DIN 127, form A, curved, zinc-plate steel



Art. No.	M	d1	d4	ST	PU	PrU	EUR
792756	M6	6,4	11,8	2	100	100	2,07
792758	M8	8,4	14,8	2	100	100	2,81
792760	M10	10,5	18,1	2	100	100	4,01
792762	M12	13	21,1	2	100	100	5,91

Screws assortments

"Mix" Screws assortment box

Content: 1.425 screws, in plastic bulk storage chest 415 x 335 x 90 mm



Art. No.	Cont.	empty	kg	PU	EUR
792802	1425	221131	5,022	1	106,56

"Pan head" Screws assortment box

Content: 1.700 screws, 1 Bit-Box 17-pcs., incl. holder (art. 102210) in plastic bulk storage chest 415 x 335 x 90 mm



Art. No.	Cont.	empty	kg	PU	EUR
792804	1700	221131	6,000	1	127,29

"Countersunk" Screws assortment box

Content: 1.800 screws, 1 Bit-Box 17-pcs., incl. holder (art. 102210) in plastic bulk storage chest 415 x 335 x 90 mm



Art. No.	Cont.	empty	kg	PU	EUR
792806	1800	220131	5,000	1	128,58

"Countersunk" Screws assortment box

Content: 1.800 screws, 1 Bit-Box 17-pcs., incl. holder (art. 102210) in plastic bulk storage chest 415 x 335 x 90 mm



Art. No.	Cont.	empty	kg	PU	EUR
792810	1800	221131	5,760	1	111,40

"Mix Tx" Screws assortment box

Content: 1.475 screws, in plastic bulk storage chest 415 x 335 x 90 mm



Art. No.	Cont.	empty	kg	PU	EUR
792816	1475	221131	5,022	1	159,58

Screws and dowel assortment box „Mix“

Content: 700 screws, 425 dowel in plastic bulk storage chest 415 x 335 x 90 mm



Art. No.	Cont.	empty	kg	PU	EUR
792821	1125	221131	6,000	1	136,23

SysCon screws assortments

SysCon universal countersunk screws



Content: 1650 universal countersunk screws



Art. No.	Cont.	empty	kg	PU	EUR
220389	1650	220370	7,000	1	211,15

SysCon plate screws



Content: 2000 universal screws



Art. No.	Cont.	empty	kg	PU	EUR
220398	2000	220370	2,600	1	171,98

Dowel assortment

Push-through expansion dowel

- 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



Art. No.	Ø	Ø screws	D	PU	PrU	EUR
794002	6	30 3.5 - 5.0	40	100	100	4,67
794004	8	40 4.5 - 6.0	50	100	100	8,22

Expansion dowel sleeve

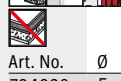
- For all concrete and masonry building materials, with limitations for cavity building materials
- For fixing all items which can be attached using wood and chipboard screws



Art. No.	Ø	Ø screws	D	PU	PrU	EUR
794012	5	25 2.5 - 4.0	35	100	100	4,62
794014	6	30 3.5 - 5.0	40	100	100	4,93
794016	8	40 4.5 - 6.0	50	50	100	11,18
794018	10	50 6.0 - 8.0	65	25	100	20,78

Countersunk nail dowel

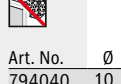
- For concrete, solid brick, with limitations for aerated concrete and hollow concrete blocks



Art. No.	Ø	screws	ST	PU	PrU	EUR
794020	5	30 PZ	5	100	100	7,85
794022	5	50 PZ	25	100	100	10,03
794024	6	40 PZ	10	50	100	10,45
794026	6	60 PZ	30	50	100	13,15
794028	6	80 PZ	50	50	100	17,24
794030	8	60 PZ	20	50	100	24,70

Aerated concrete dowel with setting tool

- For porous concrete (aerated concrete)



Art. No.	Ø	Ø screws	D	PU	PrU	EUR
794040	10	50 4.0 - 6.0	60	50	100	67,60

Universal metal dowel

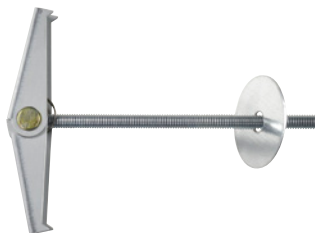
- Concrete, solid brick, porous concrete, limitations for perforated bricks and hollow concrete blocks



Art. No.	Ø	Ø screws	D	PU	PrU	EUR
794050	8	32 5.0 - 6.0	40	200	100	12,66
794052	11	60 6.0 - 8.0	70	100	100	27,62

Spring toggle

- Plasterboard and gypsum fibreboard, chipboard, fibre cement board, cavity brick covers, hollow body covers



Art. No.	Ø	Ø screws	D	D	PU	PrU	EUR
794060	4	100 14 35	80	25	100		70,50
794062	5	100 16 45	80	20	100		99,12

Plasterboard dowel with setting tool

- Plasterboard, limitations for full plasterboard and porous concrete



Art. No.	Ø screws	D	D	PU	PrU	EUR
794070	24 4.0 - 6.0	35	80	50	100	34,66

Concrete	
Natural stone	
Full bricks	
Porous concrete (aerated concrete)	
Full plasterboard panels	
Perforated bricks	
Hollow concrete blocks	
Plasterboard panels	
Boards/panels	

Nylonbags

HAUPA "ToolPouch"



Art. No.	W	H	D	kg	PU	EUR
220103	150	260	30	0,102	1	13,07

HAUPA "ToolBelt"



Art. No.	W	H	D	kg	PU	EUR
220105	200	300	100	0,326	1	32,88

Tool belts

Tool belt



Art. No.	W	H	D	kg	PU	EUR
220224	880	280	30	0,350	1	42,28

Tool Jackets

HAUPA "Tool Jacket", empty



Art. No.	W	H	kg	PU	EUR
220053	500	580	0,764	1	70,93

Backpacks

HAUPA "Backpack"



Art. No.	W	H	D	kg	PU	EUR
220265	440	500	220	1,990	1	185,95

Nylonbags

HAUPA "ToolBag"



Art. No.	W	H	D	kg	PU	EUR
220061 *	320	280	190	1,507	1	92,42

HAUPA "ToolBag XL"



Art. No.	W	H	D	kg	PU	EUR
220366	420	310	220	1,507	1	109,10

HAUPA "BigBox"



Art. No.	W	H	D	kg	PU	EUR
220095	410	320	240	1,937	1	134,84

HAUPA "ProBag"



Art. No.	W	H	D	kg	PU	EUR
220368	420	430	300	1,500	1	223,02

"Supply" service bag



Art. No.	W	H	D	kg	PU	EUR
220292	510	335	220	3,600	1	172,02

HAUPA "SquareBag"



Art. No.	W	H	D	kg	PU	EUR
220703 *	260	260	230	1,500	1	82,33

HAUPA „ToolContainer“



Art. No.	W	H	D	kg	PU	EUR
220704	510	320	250	1,500	1	139,00

Tool sets

Tool wallets



Art. No.	W	D	kg	PU	EUR
220006	600	310	0,452	1	34,40

VDE/GS - Tool wallets "Rebell"



Art. No.	W	H	D	kg	PU	EUR
220016	300	230	50	0,814	1	104,34

Tool holder for construction buckets

Supplied without buckets!



Art. No.	W	H	D	kg	PU	EUR
220313 *	305	357	80	0,560	1	36,59

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... convincing solutions

Nylonbags

HAUPA "ToolPouch"



Art. No.	set	empty	kg	PU	EUR
220506	5	220103	0,789	1	64,99

HAUPA "ToolBelt Standard"



Art. No.	set	empty	kg	PU	EUR
220213	8	220105	2,222	1	141,43

HAUPA "ToolBelt VDE" 1000 V



Art. No.	set	empty	kg	PU	EUR
220211 *	7	220105	1,723	1	199,98

Tool belts 1000 V

Tool belt "Basic"



Art. No.	set	empty	kg	PU	EUR
220280	10	220224	2,120	1	164,78

Tool belt "VDE Plus" 1000 V



Art. No.	set	empty	kg	PU	EUR
220281 *	16	220224	2,740	1	321,76

Tool belt "VDE" 1000 V



Art. No.	set	empty	kg	PU	EUR
220282	8	220224	2,020	1	200,18

Jackets

HAUPA "Tool Jacket"



Art. No.	set	empty	kg	PU	EUR
220560	10	220053	2,700	1	296,07

Backpacks 1000 V

BackpackPro "Basic 1000 V"

221277 | 360°



Art. No.	set	empty	kg	PU	EUR
221277	11	220265	3,710	1	365,20

BackpackPro "Start 1000 V"

221280 | 360°



Art. No.	set	empty	kg	PU	EUR
221280	20	220265	5,200	1	425,14

BackpackPro "Basic plus 1000 V"

221278 | 360°



Art. No.	set	empty	kg	PU	EUR
221278	19	220265	4,650	1	463,82

BackpackPro "Operator 1000 V"

221279 | 360°



Art. No.	set	empty	kg	PU	EUR
221279	22	220265	5,570	1	849,05

Tool bag 1000 V

HAUPA "ToolBag"



Art. No.	set	empty	kg	PU	EUR
220500	23	220061	6,350	1	316,37

HAUPA "ToolBag" 1000 V



Art. No.	set	empty	kg	PU	EUR
220510 *	13	220061	3,919	1	370,63

HAUPA "ToolBag XL Classic"



Art. No.	set	empty	kg	PU	EUR
220802	22	220366	6,080	1	346,03

HAUPA "ToolBag XL Go"



Art. No.	set	empty	kg	PU	EUR
220804 *	14	220366	4,400	1	328,80

HAUPA "ToolBag XL 1000 V"



Art. No.	set	empty	kg	PU	EUR
220800	13	220366	4,600	1	339,60

HAUPA "TrendBox Plus"



Art. No.	set	empty	kg	PU	EUR
220556 *	25	220095	6,430	1	550,64

HAUPA "TrendBox"



Art. No.	set	empty	kg	PU	EUR
220550	20	220095	5,540	1	374,84

HAUPA "ProBag Max"



Art. No.	set	empty	kg	PU	EUR
220810	29	220368	9,180	1	1.195,97

HAUPA "ProBag Start VDE"



Art. No.	set	empty	kg	PU	EUR
220814	20	220368	9,180	1	427,64

HAUPA "ProBag Go 1000 V"



Art. No.	set	empty	kg	PU	EUR
220812 *	14	220368	6,400	1	446,45

Service bags

Service bag "HUPsmartHome"



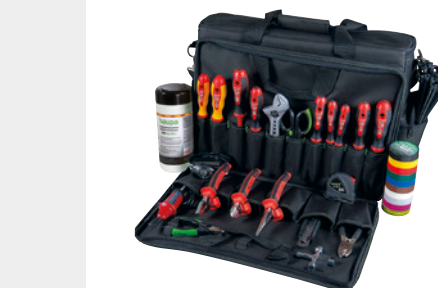
Art. No.	set	empty	kg	PU	EUR
220805	30	220292	7,550	1	912,51

"Supply Max" service bag



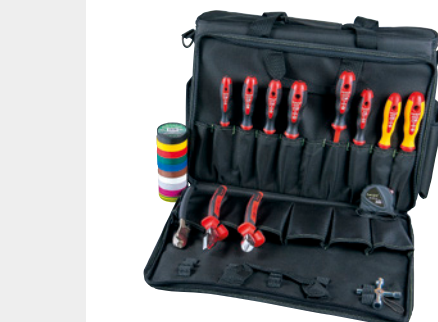
Art. No.	set	empty	kg	PU	EUR
220293	30	220292	6,350	1	1.125,78

"Supply Plus" service bag



Art. No.	set	empty	kg	PU	EUR
220294 *	24	220292	6,350	1	533,95

"Supply Basic" service bag



Art. No.	set	empty	kg	PU	EUR
220298	14	220292	6,350	1	320,17

HAUPA „SquareBag Basic 1000 V“



Art. No.	set	empty	kg	PU	EUR
220706	11	220703	3,800	1	270,30

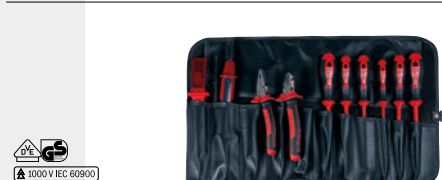
HAUPA „ToolContainer Work“



Art. No.	set	empty	kg	PU	EUR
220705	29	220704	4,000	1	657,90

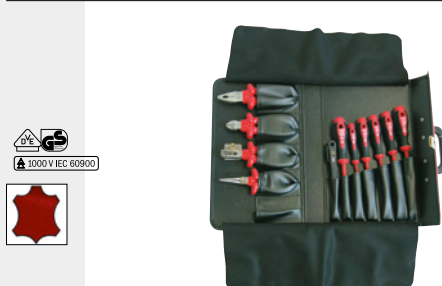
Tool sets 1000 V

VDE security set 1000 V



Art. No.	set	empty	kg	PU	EUR
220014	10	220004	1,688	1	231,15

VDE/GS - Tool sets 1000 V



Art. No.	set	empty	kg	PU	EUR
220130	11	220016	2,216	1	307,14

Leather tool cases

Tool case "Tradition"



Art. No.	W	H	D	kg	PU	EUR
220022	340	170	110	0,821	1	114,31

Tool case "Favorit - Admiral - Profi"

220060: Favorit
220064: Admiral
220066: Profi



Art. No.	W	H	D	kg	PU	EUR
220060	365	250	150	2,126	1	225,67
220064	470	315	145	2,990	1	277,10
220066	420	250	150	2,378	1	246,68

Tool case "Comet"



Art. No.	W	H	D	kg	PU	EUR
220070	420	320	165	3,939	1	329,29

Tool case "Magister"



Art. No.	W	H	D	kg	PU	EUR
220142	440	260	165	2,700	1	350,49

Brass padlocks



Art. No.	size	kg	PU	EUR
220110	30	0,085	1	5,76
220112	40	0,135	1	7,02

Carrying belts



Art. No.	kg	PU	EUR
220054	0,114	1	20,51

Leather tool cases

Tool case "Phoenix"



Art. No.	set	empty	kg	PU	EUR
220156	39	220070	9,900	1	1.038,24

Tool case "Saphir"



Art. No.	set	empty	kg	PU	EUR
220154	31	220070	8,150	1	803,80

Tool case "Novelle 1"



Art. No.	set	empty	kg	PU	EUR
220152/1	26	220066	6,500	1	734,95

Tool case "Alpha"



Art. No.	set	empty	kg	PU	EUR
220169	19	220060	5,200	1	492,26

Tool case "Start"



Art. No.	set	empty	kg	PU	EUR
220168 *	20	220060	6,100	1	433,06

Tool case "Start VDE"



Art. No.	set	empty	kg	PU	EUR
220168/VDE	20	220060	6,700	1	459,08

Tool case "Delux" 1000 V



Art. No.	set	empty	kg	PU	EUR
220135	54	220142	9,460	1	1.825,58

Tool case "Rotor" 1000 V



Art. No.	set	empty	kg	PU	EUR
220140	46	220142	6,400	1	962,79

Hard-top tool cases

Tool case "Start-up S"

ABS



Art. No.	W	H	D	kg	PU	EUR
220028	460	180	310	4,500	1	216,30

Tool case "Start-up Profi"

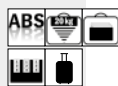
ABS



Art. No.	W	H	D	kg	PU	EUR
220031 *	500	210	430	6,740	1	247,36

Tool case trolley "Start-up Profi"

ABS



Art. No.	W	H	D	kg	PU	EUR
220023 *	470	360	220	8,400	1	312,27

ABS



Art. No.	W	H	D	kg	PU	EUR
220042	470	360	200	6,500	1	548,05

Tool case trolley "OmegaMax Trolley"

ABS+



Art. No.	W	H	D	kg	PU	EUR
220048 *	470	360	220	7,000	1	684,60

Tool case "Aktion"

ABS+



Art. No.	W	H	D	kg	PU	EUR
220038	460	310	160	4,580	1	335,84

Tool case "Omega"

ABS+



Art. No.	W	H	D	kg	PU	EUR
220068	460	310	180	5,039	1	438,45

Tool case trolley "Fly"

HDPEfly



Art. No.	W	H	D	kg	PU	EUR
220248	470	220	360	6,900	1	928,83

Tool case "Pendant"

ABS+



Art. No.	W	H	D	kg	PU	EUR
220076	460	310	180	5,107	1	444,86

Installation case "Extreme"

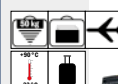
PPsafe



Art. No.	W	H	D	kg	PU	EUR
220311	581	455	381	6,900	1	1.113,20

Tool case trolley "Extreme"

PPsafe



Art. No.	W	H	D	kg	PU	EUR
220299	517	277	217	7,500	1	656,26

ABS	ABS hard shell	With document compartment
20 kg	Maximum case payload 20 kg	With number lock
25 kg	Maximum case payload 25 kg	Flight-suitable
40 kg	Maximum case payload 40 kg	TSA lock

Hard-top tool cases

Tool case „ElektroCombo“



Art. No.	set	W	H	D	kg	PU	EUR
104090 *	78	490	375	100	6,240	1	583,25

Tool case “Start-up Light”



Art. No.	set	empty	kg	PU	EUR
220269	14	220028	9,180	1	391,14

Tool case “Start-up Go”



Art. No.	set	empty	kg	PU	EUR
220267	18	220028	9,180	1	464,52

Tool case “Jobstarter Plus”



Art. No.	set	empty	kg	PU	EUR
220027	24	220028	10,000	1	481,60

Tool case „HUPactive“

ABS



Art. No.	set	empty	kg	PU	EUR
220255	24	220030	9,620	1	500,00

Tool case “Start-up Max”

ABS



Art. No.	set	empty	kg	PU	EUR
220268 *	24	220028	9,180	1	725,49

Tool case “Start-up”

ABS



Art. No.	set	empty	kg	PU	EUR
220221	20	220031	9,180	1	459,01

Tool case “Start-up VDE”

ABS



Art. No.	set	empty	kg	PU	EUR
220235 *	19	220031	9,300	1	474,55

Tool case “EXTRA”

ABS



Art. No.	set	empty	kg	PU	EUR
220309	33	220031	8,680	1	1.106,87

Tool case “Profi VDE” 1000 V

ABS



Art. No.	set	empty	kg	PU	EUR
220232	35	220031	12,920	1	985,48

Tool case trolley “Profi mobil”

ABS



Art. No.	set	empty	kg	PU	EUR
220273	51	220023	14,700	1	920,64

Standard program

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Tool case trolley "Start-up"

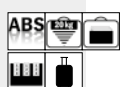
ABS



Art. No.	set	empty	kg	PU	EUR
220252	19	220023	10,940	1	538,42

Tool case trolley "Master"

ABS



Art. No.	set	empty	kg	PU	EUR
220254 *	38	220023	14,700	1	1.171,15

Tool case trolley "Master Mobil HUPslim" 1000 V

ABS



Art. No.	set	empty	kg	PU	EUR
220329	38	220023	14,700	1	1.318,90

Tool case trolley "EXTRA"

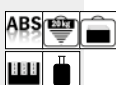
ABS



Art. No.	set	empty	kg	PU	EUR
220307	33	220023	15,000	1	1.167,07

Service trolley „HUPeMobility“

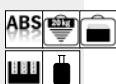
ABS



Art. No.	set	empty	kg	PU	EUR
220171	40	220023	19,800	1	1.640,04

Service trolley „HUPeMobility eco“

ABS



Art. No.	set	empty	kg	PU	EUR
220327	42	220023	19,000	1	1.335,21

Tool case trolley "Secure mobil" 1000 V

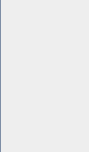
ABS



Art. No.	set	empty	kg	PU	EUR
220272	57	220023	14,700	1	1.421,48

Tool case "Panther"

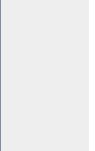
ABS+



Art. No.	set	empty	kg	PU	EUR
220040	21	220038	7,460	1	648,25

Tool case "2 component"

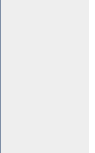
ABS+



Art. No.	set	empty	kg	PU	EUR
220170	19	220038	7,000	1	534,99

Network service case

ABS+



Art. No.	set	empty	kg	PU	EUR
220141	21	220038	8,800	1	985,54

Tool case "Compact"

ABS+ 



Art. No.	set	empty	kg	PU	EUR
220229	47	220038	7,700	1	773,39

Tool case "Basic"

ABS+ 



Art. No.	set	empty	kg	PU	EUR
220153 *	19	220038	6,600	1	545,24

Tool case "Basic VDE"

ABS+ 



Art. No.	set	empty	kg	PU	EUR
220244	19	220038	7,140	1	575,09

Tool case "Inspektor"

ABS+ 



Art. No.	set	empty	kg	PU	EUR
220176	25	220068	8,980	1	821,18

Tool case "Akkurat"

ABS+ 



Art. No.	set	empty	kg	PU	EUR
220179	32	220068	8,180	1	1.064,91

Tool case "Diamant"

ABS+ 



Art. No.	set	empty	kg	PU	EUR
220192	23	220068	8,500	1	891,70

The ideal tool assortment

ABS+ 



Art. No.	set	empty	kg	PU	EUR
220177 *	32	220068	10,260	1	1.075,67

 ABS hard shell	 With document compartment
 Maximum case payload 20 kg	 With number lock
 Maximum case payload 25 kg	 Flight-suitable
 Maximum case payload 40 kg	 TSA lock

Tool case "OmegaMax Start VDE"

ABS+ 



Art. No.	set	empty	kg	PU	EUR
220043	19	220042	11,000	1	765,60

Tool case trolley "OmegaMax Trolley Start VDE"

ABS+ 



Art. No.	set	empty	kg	PU	EUR
220137	19	220048	11,500	1	925,33

Tool case "Delux Plus" 1000 V



Art. No.	set	empty	kg	PU	EUR
220239 *	54	220076	11,780	1	1.990,33

Standard program

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Tool case "Leopard" 1000 V

ABS+



Art. No.	set	empty	kg	PU	EUR
220136	32	220076	9,400	1	1.382,26

Tool case "Power Pack" 1000 V

ABS+



Art. No.	set	empty	kg	PU	EUR
220303	21	220076	8,680	1	1.065,53

Tool case "Venus Plus" 1000 V

ABSfly



Art. No.	set	empty	kg	PU	EUR
220033	32	220032	10,160	1	1.426,80

Laser marking for your individual tool case



Art. No.	kg	PU	EUR
220193	Label	0,002	1 48,26

Tool case "HAUPA - Lifesaver" 1000 V



Art. No.	set	W	H	D	kg	PU	EUR
220400	54	830	550	300	37,000	1	4.698,34
220079	empty	830	550	300	18,600	1	2.143,81

Tool case "Start-up Sanitär"

ABS



Art. No.	set	empty	kg	PU	EUR
220263	23	220031	9,300	1	594,56

Tool case "Start-up SHK"

ABS

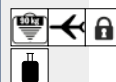


Art. No.	set	empty	kg	PU	EUR
220264	24	220031	14,700	1	756,60

Installation case

Installation case „Extreme“

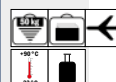
PPsafe



Art. No.	set	empty	kg	PU	EUR
220319	38	220311	14,700	1	2.608,96

Tool case trolley „Extreme“ 1000 V

PPsafe



Art. No.	set	empty	kg	PU	EUR
220323	22	220299	14,700	1	1.802,82

Assortment boxes

Assortment boxes with metal catch and 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.	W	H	D	kg	PU	EUR
221131 *	415	90	335	1,630	1	52,43
221133	empty	415	90	335	1,200	1 28,92

Systemcontainer

ABS plastic box „SysCon S“

SysCon



Art. No.	W	H	D	kg	PU	EUR
220370	400	80	300	2,200	1	109,21

ABS plastic box „SysCon M“

SysCon



Art. No.	W	H	D	kg	PU	EUR
220372	400	150	300	3,340	1	121,98

ABS plastic box „SysCon XL“

SysCon



Art. No.	W	H	D	kg	PU	EUR
220650	400	312	300	2,800	1	157,19

SysCon transport system

SysCon

Max. load: 200 kg



Art. No.	W	H	D	kg	PU	EUR
220653	470	240	105	3,300	1	146,65



SysCon S for assortment inserts empty

SysCon



Art. No.	W	H	D	kg	PU	EUR
220620	400	80	300	3,440	1	101,29

SysCon S for assortment inserts, empty

SysCon



Art. No.	W	H	D	kg	PU	EUR
220628	400	80	300	4,300	1	98,77

SysCon M for assortment inserts empty

SysCon



Art. No.	W	H	D	kg	PU	EUR
220770	400	150	300	4,300	1	115,02

SysCon M tool box empty

SysCon



Art. No.	W	H	D	kg	PU	EUR
220622	400	150	300	3,640	1	131,34

SysCon S tool box empty

SysCon



Art. No.	W	H	D	kg	PU	EUR
220626	400	80	300	4,300	1	127,92

ABS plastic box „SysCon XL“ variable

SysCon



Art. No.	W	H	D	kg	PU	EUR
220654	400	312	300	3,640	1	225,32

Standard program

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... convincing solutions

Tool plate

SysCon



Art. No.	W	H	kg	PU	EUR
220655	275	285	0,200	1	36,18

Tool plate SysCon

SysCon

11 compartments



Art. No.	W	H	D	kg	PU	EUR
220379	400	20	300	0,200	1	37,52

Tools insert SysCon

SysCon

Polypropylen, 5 compartments



Art. No.	W	H	D	kg	PU	EUR
220374	400	80	300	0,200	1	17,58

Tools insert SysCon

SysCon

Polypropylen, 10 compartments



Art. No.	W	H	D	kg	PU	EUR
220375	400	80	300	0,200	1	17,58

Tools insert SysCon

SysCon

Polypropylen, 18 compartments



Art. No.	W	H	D	kg	PU	EUR
220355	400	80	300	0,230	1	15,96

Tools insert SysCon

SysCon

Polypropylen, with 12 adjustable compartments



Art. No.	W	H	D	kg	PU	EUR
220356	400	80	300	0,320	1	19,31

Box S

SysCon

ABS, conical design for stacking with snap on base plate



Art. No.	W	H	D	kg	PU	EUR
221134	49	72	49	0,012	1	0,85

Box M

SysCon

ABS, conical design for stacking with snap on base plate



Art. No.	W	H	D	kg	PU	EUR
221135	98	72	49	0,012	1	1,21

Box L

SysCon

ABS, conical design for stacking with snap on base plate



Art. No.	W	H	D	kg	PU	EUR
221136	98	72	98	0,050	1	2,05

Box XL

SysCon

ABS, conical design for stacking with snap on base plate

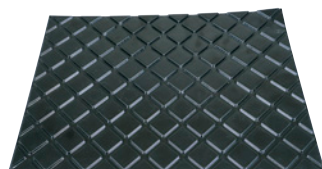


Art. No.	W	H	D	kg	PU	EUR
221137	148	72	98	0,060	1	2,61

Baseplate for fixing

SysCon

Polypropylene, grids for even better non-slip grip



Art. No.	W	D	kg	PU	EUR
221138	400	300	1,200	1	7,21

Foam insert SysCon

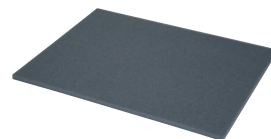
SysCon



Art. No.	W	H	D	kg	PU	EUR
220376	395	15	300	0,030	1	2,34

Foam insert SysCon

SysCon



Art. No.	W	H	D	kg	PU	EUR
220399	395	10	300	0,020	1	1,65

Foam insert SysCon

SysCon



Art. No.	W	H	D	kg	PU	EUR
220377	395	20	300	0,055	1	10,54

Foam insert SysCon

SysCon



Art. No.	W	H	D	kg	PU	EUR
220378	395	65	300	0,200	1	25,52

SysCon hand truck

SysCon

- up to 60 kg
- sturdy aluminum frame
- Hand truck shovel: 390 x 280 mm



Art. No.	max. kg	kg	PU	EUR
220602	60	3,230	1	80,81

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.	W	H	D	kg	PU	EUR
220644	475	1080	360	5,000	1	730,26

SysCon tool case set

SysCon



Art. No.	set	empty	kg	PU	EUR
220392	17	220372	4,300	1	336,21

SysCon tool case set „Start VDE“

SysCon



Art. No.	set	empty	kg	PU	EUR
220608	22	220372	4,300	1	477,36

SysCon „HUPeMobility“

SysCon



Art. No.	set	empty	kg	PU	EUR
220610	52	220650	19,500	1	2.160,00

HUPchemie - Adhesion+Sealing

Construction Glue HUPfix+

- Extrem High Initial Adhesion
- Bond Cabel-Trunks, Distriubution-Boxes and Cables to Walls, Wood and Metal
- No Retaining of the to be Bonded Parts at Overhead and Vertical Places
- Paintable



Art. No.		kg	PU	EUR
170206 *	310 ml	0,530	1	23,83

MS-Polymer HUPfix

- High-Standard Glue and Sealant based on MS-Polymer
- UV-, Weather-, Sea-Water- and Chlorine-Resistant
- Food grade certificate
- Paintable



Art. No.		kg	PU	EUR
170216	310 ml	0,390	1	24,13
170210	310 ml	0,390	1	23,24
170212	310 ml	0,390	1	23,24
170214	310 ml	0,390	1	23,24

HUPsilicon

- Suitable for Internal and External Expansion Grooves
- In Accordance to DIN 18545 Part 2
- Aging-, Weather- and UV-Resistant, Permanent Elastic



Art. No.		kg	PU	EUR
170200	310 ml	0,450	1	13,88
170202	310 ml	0,450	1	15,38

High temperature silicon HUPsilicon

- High temperature resistance
- Oil and grease resistant
- Ageing, weather, and UV-resistant, permanently elastic



Art. No.		kg	PU	EUR
170250	310 ml	0,450	1	32,25

Cartridge tip



Art. No.		kg	PU	EUR
300116		0,003	12	0,68

Cartridge gun „Profi“

- for 310 ml cartridges
- for processing silicone and polymer cartridges



Art. No.		kg	PU	EUR
170254		0,450	1	43,37

2 Component High-Performance-Adhesive HUPmega

- High-Tensile Two Component Adhesive with automatic Mixer
- Excellent Impact-, Peeling- and Sheer-Strength
- For Plasic, Wood, Glass, Steel, Stainless-Steel and Aluminium



Art. No.		kg	PU	EUR
170220	25 ml	0,075	1	15,27

Mixing nozzle

- for 2-component adhesive



Art. No.		kg	PU	EUR
170234		0,009	1	3,60

2 Component-epoxyd glue HUPepoxyd

- Reach extrem strength
- Sealing compound
- Universal use



Art. No.		kg	PU	EUR
170222	25 ml	0,051	1	9,77

2 Component liquid metal HUPfastMetal

- Repair of steel and castings
- Repair of dry holes
- Fast curing



Art. No.		kg	PU	EUR
170224	25 ml	0,059	1	10,97

HUPsuperglue

- Super-Glue from Cyanoacrylate
- For High-Strength Bonding of Metals and Plastic Combinations
- Low-Viscosity



Art. No.		kg	PU	EUR
170226 *	20 ml	0,028	1	9,37

Fine droplet tip

- for superglue



Art. No.		kg	PU	EUR
170236		0,003	1	1,18

Double-Sided Acryl Tape HUPtapeDouble

- Double-Sided Transparent Acryl-Tape
- Extreme Strong Adhesive on smooth Surfaces
- Moisture-Resistant, Does not Damage Surfaces



Art. No.	kg	PU	EUR
170232	0,053	1	12,54

Screw-Locking Medium-Strength HUPlockM

- Medium Strength Highly-Viscous, Srew-Locking up to M36
- Removable
- Temperature-Resistant form -55°C up to +150°C
- Pump dosing feeder



Art. No.		kg	PU	EUR
170238	50 ml	0.083	1	24.01

Screw-Locking High-Strength HUPlockH

- High Strength Medium-Viscous, Srew-Locking up to M20
- For Heavily Vibration and Impact Stressed Threads
- Temperature-Resistant form -55°C up to +150°C
- Pump dosing feeder



Art. No.		kg	PU	EUR
170240	50 ml	0.083	1	24,01

HUPchemie - Coating+Lubrication

Anti-Friction-Coating HUPcable

- Easy Pulling of Cables into Hoses
- Extreme Friction Reduction
- Save up to 50% of Time and Force



Art. No.		kg	PU	EUR
170174 *	400 ml	0,360	1	11,15

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	EUR
143344	500 ml	0,572	1	10,77
143345	1000 ml	1,100	1	13,37

Dispenser for plastic bottle



Art. No.	kg	PU	EUR
143346	0,016	1	3,40

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	EUR
143348	400 ml	0.457	1	15.39

Aluminium-Spray HUPalu

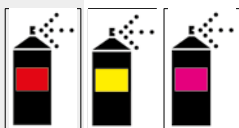
- Pure Aluminium Spray 99,5%
- High-Temperature-Resistant up to 900°C
- Scratch-, Brushing-, Abrasion- and Weather-Resistant



Art. No.		kg	PU	EUR
170154	400 ml	0,450	1	14,17

Marking Paint HUPmark

- High luminosity and opacity
- Work in any position
- Fast-drying, abrasion- and weather-resistant



Art. No.		kg	PU	EUR
170140	500 ml	0,600	1	17,29
170141	500 ml	0,600	1	17,29
170142	500 ml	0,600	1	17,29

Zinc-Spray HUPzinc

- Heat-Resistant, Weather-Resistant and Quick-Drying
- Forms a Water-Insoluble Zinc-Oxide Layer



Art. No.		kg	PU	EUR
170150	400 ml	0,450	1	14,17
170152 *	400 ml	0,450	1	12,95

Zinc spray 550 HUPzincKorro

- Protects Surfaces after Welding, Repair and Damages
- Heat-Resistant, Weather-Resistant and Quick-Drying
- Forms a Water-Insoluble Zinc-Oxide Layer



Art. No.		kg	PU	EUR
170153	400 ml	0,450	1	14,16

Stainless-Steel-Spray HUPinox

- Stainless Steel Coating with alloy of Cr, Ni, Mn
- Heat Resistant up to 300°C
- Weather Resistant



Art. No.		kg	PU	EUR
170156	400 ml	0,450	1	15,38

Silicone-Spray HUPsil

- Universal Lubricant based on Silicone
- Water- and Temperature-Resistant from -30°C up to +200°C
- Antistatic, Anti-Corrosive and Waterproof



Art. No.		kg	PU	EUR
170162	400 ml	0,450	1	9,37

Universal-Lubricant HUP40

- Silicone-Free Oil Based Lubricant
- Loosens all kind of Mechanical Connection due to Rust
- Effective against Surface Moisture and Creepage Current, Lubricate and Maintain



Art. No.		kg	PU	EUR
170166	400 ml	0,450	1	11,15

PTFE-Spray HUPptfe

- Oil-free Universal Lubrication for all kind of Materials
- High-Temperature Resistant from -60°C up to +250°C
- Quick Drying, Highly-Adhesive, Grease-Free and Colorless



Art. No.		kg	PU	EUR
170158	400 ml	0,450	1	15,97

Allround PTFE-Spray HUPptfeSynt

- Lubricant for Precision and Pressure-Loaded Parts
- Long lasting Lubrication under very strong Pressure
- Releases jammed Screws



Art. No.		kg	PU	EUR
170160	400 ml	0,450	1	15,97

Polymer-Spray HUPpolymer

- Universal Lubricant based on Polymer
- Long-term care for Rubber, EPDM, PP, PVC
- Coefficients of Friction are reduced up to 40%



Art. No.		kg	PU	EUR
170170	400 ml	0,450	1	31,67

Cutting-Oil HUPdrill

- Alloyed Oil with EP-Additives and Polar Substances
- Very Economical and Efficient
- Suitable for Steel and Non-Ferrous Metals



Art. No.		kg	PU	EUR
170172	400 ml	0.450	1	12.95

Anti-Rust-Spray HUPrustEX

- Penetrates and dissolves extremely effective rust
- Protects against new rust attack
- Releases jammed Screws



Art. No.		kg	PU	EUR
170164	400 ml	0,450	1	8,80

Contact spray HUPwetBlock

- Protection of all kind of Electrical Contacts against moisture
- Blocks Wet
- Long Time Elimination of Creeping Current and Oxidation

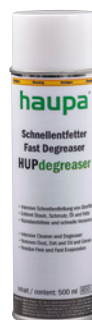


Art. No.		kg	PU	EUR
170180 *	400 ml	0,4166	1	29,21

HUPchemie - Cleaning

Fast degreaser HUPdegreaser

- Intensive Cleaner and Degreaser
- Removes Dust, Dirt, Oil and Grease
- Residue-Free and Fast Evaporation



Art. No.		kg	PU	EUR
170102 *	500 ml	0,600	1	8.75

Electric-Engine-Cleaner HUPelectroClean

- Cleans Relays, Wires, Coils, Contacts and Engines
- Removes Dust, Dirt, Grease und Coal Dust
- Evaporates without Residue



Art. No.		kg	PU	EUR
170114 *	400 ml	0.550	1	9.37

Multi Cleaner HUPcleanMulti

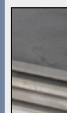
- Multifunctional Cleaner
- Best Cleanliness by Oil, Grease and Wax
- Buildings, Vehicles and Machines



Art. No.		kg	PU	EUR
170104	500 ml	0.550	1	11.15

Metal Degreaser HUPmetalClean

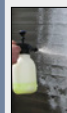
- Intensive Cleaner and Degreaser
- Removes Dust, Dirt, Oil and Grease
- Residue-Free and Fast Evaporation



Art. No.		kg	PU	EUR
170103	500 ml	0,600	1	11,44

Foam Cleaner HUPclean

- Intensive Foam-Cleaner for Windows, Monitors and Plastic Surfaces
- Streak-Free and Spotless Cleaning
- Highly Concentrated and Skin-Sensitive



Art. No.		kg	PU	EUR
170100	500 ml	0,550	1	12,95
170101	1000 ml	1,000	1	17,77

Label-Remover HUPableEx

- Residue-Free removal of Adhesive Residues and Labels.
- Removes Bitumen and fresh PU Foam
- Powerful and Gentle on the Material



Art. No.		kg	PU	EUR
170112	400 ml	0,450	1	14,77

Compressed Air HUPair

- Removes Dust, Dirt and other Deposits
- For Cooling and Debugging of overheated Parts



Art. No.		kg	PU	EUR
170106 *	400 ml	0,450	1	15,38

Compressed Air non-flammable HUPairXtra

- Cleaning of electrical Contacts, Devices and Parts
- Removes Dust and Dirt in Cabinets and Instrumentation and Control Units
- Cleaning of ITC Devices and Moduls



Art. No.		kg	PU	EUR
170108	400 ml	0,450	1	51,21

Dosage cap „Target Control System“

- Not for sprays art: 170106, 170150, 170152, 170400



Art. No.	kg	PU	EUR
170406	0,015	1	4,25

HUPskinProtect

- Protects the Skin by a Protective Film
- Avoids Contact with Oil, Grease, Tar, Paint and other Dirt
- Skin remains breathable and does not dry out



Art. No.		kg	PU	EUR
170116	250 ml	0.300	1	29.85

Cleaning Wipes HUPwipe

- Cleans Machines, Devices and Plastic Surfaces
- Removes Rust, Grease, Edding Lines and Nicotine
- For heaviest Soiling in Industrial and Craft



Art. No.	kg	PU	EUR
170118	0,200	1	59,40

Hand cleaning cream HUPsoap, 500 ml

- with inlaid, fine scrubbers on PU-flour-base
- pore-deep and gentle cleaning
- refatting
- economical
- good biodegradability



Art. No.		kg	PU	EUR
170126	500 ml	0,500	1	23,79
170127	3000 ml	3,000	1	41,89
170128	10000 ml	10,000	1	117,51

Dispenser for hand cleaning cream HUPsoap, 3l

- compatible for art. 170127
- Stainless steel tube



Art. No.	kg	PU	EUR
170129	0,800	1	88,67

Industrial cleaning wipes HUPwipeMini

- Effortlessly removes: Grease, Paint, Oil, Tar, Ink, Silicone, Glue and more...
- Suitable for hand cleaning



Art. No.	W	kg	PU	EUR
150601	170 250	0,135	1	12,49

HUPchemie - Testing

Freeze-Spray HUPcool

- Fault-Finding in electronics
- Shock-Freezing down to -50°C
- Frees from Bonding



Art. No.		kg	PU	EUR
170400	400 ml	0.455	1	15.38

Freeze-Spray HUPcoolXtra

- Fault-Finding in Electronics
- Blowing Gas and active Substance non Flammable
- Shock-Freezing down to -50°C



Art. No.		kg	PU	EUR
170402	400 ml	0.455	1	55.59

Smoke-Detector-Test-Spray HUPdetect

- Simulated Fire Smoke
- About 150 to 200 Test Operations
- Fast and Reliable



Art. No.		kg	PU	EUR
170404	250 ml	0,180	1	23,83

Soldering accessoires

Soldering irons



Art. No.	 Ø	Volt	Watt	kg	PU	EUR	
160142	265	5	220	60	0,322	1	52,41
160144	315	3	220	80	0,319	1	58,86
160146	320	5	220	100	0,324	1	55,54

Soldering irons



Art. No.		Ø	Volt	Watt	kg	PU	EUR
160150	250	1,5	220	30	0,264	1	44,41

Soldering irons



Art. No.		Ø	Volt	Watt	kg	PU	EUR
160190	200	2,5	220	15	0,257	1	50,49

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.

Video 262098



Art. No.	set	kg	PU	EUR
262098	12	0,670	1	130,21



Solder in triangular sticks DIN 1707

Art. No.	Sn%	kg	PU	EUR
160112	30	0,275	1	14,55
160114	40	0,247	1	16,72

Soldering stone



Art. No.	size	kg	PU	EUR
160130	65 x 45 x 20	0,070	1	5,10

Soldering paste acc. to DIN 8511-F-SW 26



Art. No.	kg	PU	EUR
160090	0,073	1	7,48

Soldering fluid acc. to DIN 8511-F-SW 32



Art. No.	size	kg	PU	EUR
160092	50 ml	0,054	1	7,48

Grease for soft-soldering acc. to DIN 8511-F-SW 21



Art. No.	size	kg	PU	EUR
160094	50 ml	0,072	1	4,52
160096	100 ml	0,132	1	6,29

Soldering grease for fittings acc. to DIN 8511-F-W 22



Art. No.	size	kg	PU	EUR
160100	70 ml	0,080	1	9,40

Soldering fluid acc. to DIN 8511-F-W 21



Art. No.	size	kg	PU	EUR
160102	50 ml	0,065	1	4,76

Solder for electronic work

Solder for electronic work acc. to DIN EN 29453



Art. No.	Sn%	Ø	kg	PU	EUR
160020	60	1	0,104	1	14,82
160022	60	1	0,253	1	35,29
160024	60	1	0,529	1	69,87
160026	60	1	1,008	1	138,04
160028	60	1,5	0,016	1	2,01
160030	60	1,5	0,106	1	14,69
160042	60	1,5	0,247	1	34,95
160044	60	1,5	0,528	1	69,19
160046	60	1,5	1,022	1	112,27
160050	60	2	0,108	1	14,62
160052	60	2	0,250	1	34,95
160054	60	2	0,529	1	56,44

Solder for electronic work acc. to DIN EN 29453



Art. No.	Sn%	Ø	kg	PU	EUR
160000	60	1	0,009	1	1,64
160002	60	1	0,106	1	14,82
160004	60	1	0,259	1	35,29
160006	60	1	0,528	1	57,78
160008	60	1	1,015	1	138,04
160012	60	1,5	0,102	1	14,69
160014	60	1,5	0,255	1	34,95
160016	60	1,5	0,523	1	69,19
160018	60	1,5	1,024	1	114,08

Solder for electronic work acc. to DIN EN 29453



Art. No.	Sn%	Ø	kg	PU	EUR
160060	40	2	0,106	1	10,31
160062	40	2	0,257	1	23,40

Fittings' solder acc. to DIN EN 29453



Art. No.	Sn%	Ø	kg	PU	EUR
160070	40	1,5	0,018	1	1,66
160072	40	2	0,103	1	11,63
160074	40	2	0,258	1	23,36

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... convincing solutions

Solder lead-free (RoHS-directive)

Solder wire according to DIN EN 29453



Art. No.	Sn%	Ø	kg	PU	EUR
160420	99	1	0,114	1	23,29
160422	99	1	0,262	1	56,44
160424	99	1	0,536	1	112,20
160426	99	1	1,000	1	198,52
160430	99	1,5	0,112	1	23,29
160442	99	1,5	0,266	1	56,10
160444	99	1,5	0,500	1	99,64
160446	99	1,5	1,000	1	222,70
160450	99	2	0,109	1	23,09
160452	99	2	0,257	1	56,10
160454	99	2	0,527	1	98,90

Solder wire according to Din EN 29453



Art. No.	Sn%	Ø	kg	PU	EUR
160402	99	1	0,114	1	23,29
160404	99	1	0,250	1	50,61
160406	99	1	0,500	1	112,20
160408	99	1	1,000	1	198,52
160414	99	1,5	0,258	1	50,18
160416	99	1,5	0,535	1	99,64
160418	99	1,5	1,000	1	199,52

Pipe Pliers

Pipe pliers 45°

forged, finger pinch protection



Art. No.	↔	⌀	⌀"	kg	PU	EUR
618/1	310	49	1	0,725	1	76,50
618/11/2	425	65	1 1/2	1,572	1	98,73
618/2	540	84	2	2,648	1	154,43
618/3	685	120	3	4,100	1	283,93
618/4	815	135	4	5,650	1	386,46

Corner pipe pliers

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



Art. No.	↔	⌀	⌀"	kg	PU	EUR
619/1/2	245	39	1/2	0,443	1	68,90
619/1 *	320	49	1	0,821	1	55,97
619/11/2 *	440	68	1 1/2	1,416	1	73,60
619/2	560	85	2	2,380	1	126,54
619/3	675	120	3	2,700	1	224,70

Pipe pliers set

Consisting of:

- 1 corner pipe pliers 1"
- 1 corner pipe pliers 1 1/2"
- 1 water pump pliers 240 mm
- 1 corner pipe pliers 1 1/2"
- 1 water pump pliers 240 mm



Art. No.	set	kg	PU	EUR
9001	3	2,581	1	127,36

Water Pump Pliers

Water pump pliers

heavy duty, high quality finish, with 7 position box joint, finger pinch protection



Art. No.	↔	⌀	⌀"	kg	PU	EUR
685/175	175	32	33 1/2	0,152	1	34,90
685/240	240	39	40 1/4	0,308	1	38,18
685/300	300	52	53	2,0528	1	50,17

Water pump pliers

special hardened teeth for extra long life, inox push button & spin, finger pinch protection, 11 times grid precision adjustment



Art. No.		kg	PU	EUR
687/150	150 30 32 1 1/4	0,135	1	42,35
687/180 *	180 36 36 1 1/2	0,191	1	42,38
687/250 *	250 46 50 2	0,326	1	52,51
687/300 *	300 60 70 2 3/4	0,550	1	65,68

Water pump pliers „BRlpowerXL“

Grip surfaces are hardened inductively, INOX pushbutton and spring, Self-clamping to tubes and nuts, With finger clamp protection, 27-level fine adjustment



NEW

Art. No.	↔	⌀	⌀"	kg	PU	EUR
687/400	400	100	104 3 1/2	1,376	1	152,51

Water pump pliers | automatic

special hardened teeth, burner hole, finger pinch protection, patented technology



Art. No.	↔	⌀	⌀"	kg	PU	EUR
682/250	250	42	46 1 1/2	0,361	1	54,54

Fittings pliers | Key pliers

automatic jaw width adjustment, with push-button single hand adjustor, finger pinch protection, replaces open-end wrench set



Art. No.	↔	⌀	⌀"	kg	PU	EUR
689/180	180	36	1 7/16	0,350	1	69,54
689/240	240	50	2	0,375	1	68,10

Instrument Keys

Quick release wrench

Chrome vanadium steel



Art. No.	↔	⌀	kg	PU	EUR
21/250 *	250	65	0,735	1	120,28

Instrument key

Chrome vanadium steel, inner roller



Art. No.	↔	⌀	kg	PU	EUR
22-1/300	300	80	0,867	1	100,37

Instrument key

Chrome vanadium steel, inner roller, protective jaws made of plastic



Art. No.	↔	⌀	kg	PU	EUR
27/300	300	80	0,832	1	97,99

More Pliers

Folding pliers

forged steel, straight shape



Art. No.	↔	Width	kg	PU	EUR
1608/60	260	60	0,575	1	87,10

Folding pliers

forged steel, 45° angled shape



Art. No.	↔	Width	kg	PU	EUR
1609/60	260	60	0,600	1	93,06

Folding pliers

forged steel, 90° angled shape



Art. No.	↔	Width	kg	PU	EUR
1609-1/60	260	60	0,602	1	121,55

Gutter brackets bending pliers

with feed roller, also suitable for plastic-coated gutter brackets



Art. No.	↔	kg	PU	EUR
1616/620	620	3,200	1	273,82

Siphon pliers

chrome-plated, 4 adjustment options



Art. No.	l	Ø	kg	PU	EUR
663	240	80	0,280	1	19,05

Revolving punch pliers

special sheet steel, with 6 pipes



Art. No.	l	Hole Ø	kg	PU	EUR
516/220	220	4,5	0,336	1	33,92

Blind riveting pliers

for rivets



Art. No.	l	Ø	kg	PU	EUR
522	200	5	0,625	1	109,38

Schaffner control pliers

polished, nickel-plated, 3 mm round mandrel



Art. No.	l	Ø	kg	PU	EUR
543/120	120	3	0,173	1	181,74

Sealing pliers

polished, nickel-plated, with a stamp



Art. No.	l	Ø	kg	PU	EUR
546/130	130	8	0,246	1	154,12
546/150	150	9	0,330	1	165,01
546/170	170	10	0,484	1	187,25

Sealing Tools

Sealing stamp

signatures according to customer request



Art. No.	Ø	kg	PU	EUR
546-1/8	8	0,003	1	9,27
546-1/9	9	0,003	1	9,27
546-1/10	10	0,003	1	9,27

Sealing stamp



Art. No.	Digits	kg	PU	EUR
546-10	1	0,000	1	19,38
546-20	2	0,000	1	33,24
546-30	3	0,000	1	49,74
546-40	4	0,000	1	66,58
546-50	5	0,000	1	83,15
546-60	6	0,000	1	96,69

Lead seal



Art. No.	Ø	kg	PU	EUR
548/8	8	1,005	1	47,36
548/9	9	1,012	1	47,36
548/10	10	1,016	1	49,99
548/12	12	1,018	1	53,04

Seal wire

grouped together 1000 units



Art. No.	l	kg	PU	EUR
550/180	180	0,484	1	31,03

Seal wire



Art. No.	l m	kg	PU	EUR
551/500	115	0,578	1	35,38

More Pipe Pliers

Lead pipe sizing pliers

pipes Ø 1 1/2"



Art. No.	l	Ø	kg	PU	EUR
696/240	240	40	0,434	1	63,70

Chain pipe wrench

pipes 3/4 - 4"



Art. No.	l	Ø	kg	PU	EUR
623/3/4-4	320	30-200	4	0,940	158,18

Replacement chain



Art. No.	l	Ø	kg	PU	EUR
623-1/3/4-4	320	30-200	4	0,359	68,71

Strap wrench



Art. No.	W	Ø	kg	PU	EUR
660	20	170	0,233	1	33,70

Open-End & Point Ring Wrenches

Ratchet wrenches 4 in 1

4 in 1

The ratchet wrench handles 4 different nut sizes



Art. No.	l	span w.	span w.	kg	PU	EUR
83 *	200	10	19	0,283	1	43,38

Open-end wrench

long, slimline shape, very high strength



Art. No.	span w.	span w.	kg	PU	EUR
56/8x9	8	9	0,096	1	4,66
56/10x11	10	11	0,133	1	5,16
56/10x13 *	10	13	0,049	1	5,28
56/12x13	12	13	0,061	1	5,46
56/14x15	14	15	0,082	1	7,26
56/14x17	14	17	0,110	1	7,71
56/16x17	16	17	0,114	1	8,75
56/17x19 *	17	19	0,180	1	9,76
56/18x19	18	19	0,151	1	9,59
56/20x22	20	22	0,203	1	12,91
56/21x23	21	23	0,230	1	11,73
56/22x24	22	24	0,248	1	12,66
56/24x27 *	24	27	0,302	1	16,03
56/25x28	25	28	0,400	1	16,64
56/30x32	30	32	0,498	1	21,60
56/36x41	36	41	1,014	1	46,58
56/41x46	41	46	1,625	1	78,03
56/46x50	46	50	1,570	1	91,47

Combination wrench

long, slimline shape, very high strength, ring end at 15° angle



Art. No.	span width	kg	PU	EUR
64/10 *	10	0,043	1	7,08
64/13 *	13	0,790	1	8,50
64/17 *	17	0,163	1	12,05
64/19	19	0,208	1	13,84
64/24	24	0,350	1	20,61

Open-end wrench set

long, slimline shape, very high strength



Art. No.	set	span w.	kg	PU	EUR
58-1/8	8	6 - 22	0,797	1	56,40
58-1/10 *	10	6 - 27	1,363	1	90,04
58-1/12	12	6 - 32	2,300	1	113,17

Combination wrench set

long, slimline shape, very high strength



Art. No.	set	span w.	kg	PU	EUR
66-1/8	7	6 - 19	0,890	1	64,80
66-1/10 *	10	8 - 22	1,112	1	104,31

Twelve-point ring wrench set

width across flats 6 x 7 - 24 x 27 mm

long, slimline shape, very high strength, at 75° angle



Art. No.	set	span w.	kg	PU	EUR
81-1/10	10	6 - 27	2,196	1	163,32

Adjustable wrench

opening 22° angled, adjustable



Art. No.	span w.	kg	PU	EUR
49/250	250	0,421	1	20,86
49/310	310	0,657	1	28,42

Plumbing Wrenches

Plumbing installation wrench

for attaching washbasins and angle valves



Art. No.	span w.	kg	PU	EUR
105/10 *	215	0,242	1	33,15

Plumbing four-way socket wrench

for valve extensions up to 100 mm:

3/8", 1/2", 3/4", 1"



Art. No.	span width	kg	PU	EUR
106	10 - 22	0,570	1	67,47

Plumbing four-way socket wrench

for valve extensions up to 80 mm: 3/8", 1/2", 3/4", 1"



Art. No.	span width	kg	PU	EUR
106-2	10 - 22	0,540	1	37,41

Socket Wrenches & Inserts

Hanger bolt nut

for fast and effortless screwing and unscrewing of stay bolts, express and hanger bolts without damaging the thread



Art. No.	Ø	kg	PU	EUR
101/10	10	0,188	1	18,59

Hanger bolt driver

Multidirectional hanger bolt driver, with hexagonal driver for power tools



Art. No.	Ø	kg	PU	EUR
102/8 *	8	0,084	1	15,62
102/10 *	10	0,114	1	15,62

Hanger bolt wrench

with adjustable chuck, for M6, M8, M10, M12 thread



Art. No.	kg	PU	EUR
103	0,288	1	52,53

Sleeve extractor set

For the extraction of threaded pipe connections, sleeves and nipples



Art. No.	set	kg	PU	EUR
1088 *	5	1,426	1	176,01

Sleeve extractor

For the extraction of threaded pipe connections, sleeves and nipples



Art. No.	Ø"	kg	PU	EUR
1087/5	3/8	0,096	1	26,28
1087/7	1/2 - 3/4	0,262	1	48,58

BRINKO
powered by **haupa**

Socket wrench set "BRImultiLock" | 87 pieces 1/2" 1/4"

Troubleshooter!
BRINKO „BRImultiLock“ for damaged, contorted Hex-Bolts
1/2" reversible ratchet with internal and external hexagon, 12-tooth profile, 1/2" and 1/4" drive, long sockets, sockets, 32 bit inserts and other accessories



Art. No.	set	kg	PU	EUR
127-1	87	5,931	1	236,75

Socket wrench set "BRImultiLock" | 55 pieces 1/4"

Troubleshooter!
BRINKO „BRImultiLock“ for damaged, contorted Hex-Bolts,
27 Bit-Einsätze und weiteres Zubehör, Supplied in a plastic case, 55 pieces, twelve-tooth profile, 1/4" drive



Art. No.	set	kg	PU	EUR
122	55	1,836	1	92,71

Reversible ratchet Plumbing 1/2"

1/2" drive, with square socket and square drive bit



Art. No.	span width	kg	PU	EUR
129-3/250	250	0,520	1	72,19

Reversible ratchet 1/4"

1/4" drive, with connecting square



Art. No.	span width	kg	PU	EUR
123-1/110	110	0,140	1	42,57

Universal screw insert 1/2"

the steel pins automatically adjust to every shape from Ø 9 - 21 mm



Art. No.	span width	kg	PU	EUR
128	22	0,138	1	53,30

"BRImultiLock" insert 1/2"

hexagon, 1/2" drive, also for loosening rounded and damaged Hex-Bolts



Art. No.	span width	kg	PU	EUR
129-12/10	10	0,046	1	6,68
129-12/11	11	0,058	1	8,11
129-12/13	13	0,050	1	6,68
129-12/14	14	0,063	1	8,11
129-12/17	17	0,061	1	6,68
129-12/19	19	0,065	1	7,82
129-12/22	22	0,085	1	7,99
129-12/24	24	0,104	1	8,72
129-12/26	26	0,116	1	14,18
129-12/29	29	0,167	1	10,12
129-12/32	32	0,215	1	11,33

Reversible ratchet 1/2"

with 1/2" square drive



Art. No.	span width	kg	PU	EUR
672/265	265	0,459	1	46,18

Step wrench set 1/2"

1 reversible ratchet, 1 step wrench 105 mm



Art. No.	span width	kg	PU	EUR
674 *	105	0,679	1	81,07

Step wrench set 1/2"

1 reversible ratchet, 1 step wrench 86 mm



Art. No.	span width	kg	PU	EUR
675 *	86	0,556	1	71,12

Torque wrench 1/4"

automatic with advance setting, reversible ratchet with 1/4" drive, 3 inserts: 6, 8, 10 mm



Art. No.	span width	Nm	kg	PU	EUR
129-30	300	6 - 30	0,935	1	192,12

Hexagonal insert 1/4"

1/4" drive



Art. No.	WS	kg	PU	EUR
123-7/6	6	0,011	1	7,79
123-7/8	8	0,012	1	7,79
123-7/10	10	0,014	1	7,79
123-7/13	13	0,024	1	5,99

Hexagonal insert XL 1/2"

1/2" drive, extra long design for problem-free assembly of inside wall installation rails



Art. No.	span w.	kg	PU	EUR
129-13/13	75 13	0,110	1	6,21

Allen insert 1/2"

allen key 6 mm, 1/2" drive



Art. No.	WS	kg	PU	EUR
129-14/6	6	0,065	1	21,11

Adaptor 3/4" 1/2"

square socket 3/4", square bit drive 1/2"



Art. No.	kg	PU	EUR
129-100	0,171	1	47,25

Extension | bendy 1/4"

1/4" drive



Art. No.	span width	kg	PU	EUR
127-2	150	0,068	1	12,04

Extension 1/2"

1/2" drive



Art. No.	span width	kg	PU	EUR
129-7/125	125	0,192	1	13,15

Connecting square 1/2"

1/2" drive



Art. No.	kg	PU	EUR
129-9/1/2	0,044	1	15,96

Socket wrench

precision steel pipe (DIN 896B), drawn seamlessly, chrome-plated



Art. No.	span w.	span w.	kg	PU	EUR
92/6x7	6	7	0,026	1	4,81
92/8x9	8	9	0,042	1	5,43
92/10x11	10	11	0,052	1	5,16
92/12x13	12	13	0,071	1	5,91
92/14x15	14	15	0,090	1	6,23
92/17x19	17	19	0,155	1	9,25
92/19x22	19	22	0,248	1	11,39
92/20x22	20	22	0,248	1	12,39
92/22x24	22	24	0,276	1	14,34
92/24x27	24	27	0,296	1	16,09
92/30x32	30	32	0,416	1	21,99
92/32x36	32	36	0,539	1	36,79

Socket wrench set

6 pieces, precision steel pipe (DIN 896B), drawn seamlessly, chrome-plated



Art. No.	set	kg	PU	EUR
92-1	6	1,140	1	70,24

Socket wrench

Precision hexagonal steel pipe, chrome-plated



Art. No.	span width	kg	PU	EUR
94/10	10	0,080	1	8,11
94/13	13	0,860	1	9,12
94/17	17	0,809	1	13,62
94/19	19	0,914	1	15,76
94/22	22	1,190	1	19,31
94/36	36	1,366	1	46,38

Hexagon socket wrench

for installing mixers and taps on washbasins, as well as for door opening at elevators



Art. No.	span w.	kg	PU	EUR
90/9	400 9	0,224	1	11,13
90/10	400 10	0,224	1	11,13
90/11	400 11	0,250	1	12,13
90/12	400 12	0,250	1	12,13
90/13	400 13	0,250	1	12,13

Triangular socket wrench

for explosion-endangered lighting systems, junction boxes as well as for door opening at elevators



Art. No.	span w.	kg	PU	EUR
104/3	90 3	0,025	1	6,29
104/4	90 4	0,028	1	6,29
104/5	100 5	0,030	1	6,91
104/6	112 6	0,060	1	8,24
104/8	125 8	0,083	1	9,32
104/10	140 10	0,159	1	12,28

Step Wrenches

Step wrench for radiator

for radiator screw connections, with square bit drive 18 mm



Art. No.	kg	PU	EUR
670/170	170 0,237	1	23,71

Turning tool

square drive 18 mm



Art. No.	kg	PU	EUR
671/240	240 0,280	1	22,12

Step wrench for radiator and water

for radiator screw connections and short valve extensions, with 1/2" square drive



Art. No.	WS	kg	PU	EUR
673/86 *	86 9,5 - 17	0,097	1	28,01

Step wrench for radiator and water

for radiator screw connections and short valve extensions, with 1/2" square drive



Art. No.	WS	kg	PU	EUR
673/105 *	105 8 - 22	0,136	1	37,92

Step wrench for gas

for gas tap connection fittings



Art. No.	WS	kg	PU	EUR
673-1/1	86 12 - 15	0,138	1	48,60

Step wrench for gas

for gas tap connection fittings



Art. No.	span w. span w.			kg	PU	EUR
673-1/2	86	19	24	0,175	1	58,89

Step wrench for gas and water

combined use for tap extensions and gas tap connection fittings



Art. No.	WS	kg	PU	EUR
673-2/2	86 15 - 24	0,181	1	64,83

Step wrench

small design for valve nipples



Art. No.	WS	kg	PU	EUR
666/1	9,5 - 17	0,106	1	20,02

Step wrench

small design for valve nipples



Art. No.	WS	kg	PU	EUR
666/2	10 - 17	0,195	1	20,65

Hex Keys

Hex key set

long design, even easy to reach greatly recessed screws



Art. No.	set	size	kg	PU	EUR
110	9	10 - 50	0,418	1	29,50

Hex key set

hex/ball-end combined, the ball-end allows you to screw up to a 30° angle



Art. No.	set	size	kg	PU	EUR
114	9	1,5 - 10	0,422	1	26,80

Hex key set

practical removable handle to work comfortably - as T- or angled handle or screwdriver



T-HANDLE

SCREWDRIVER-HNADLE



ANGLED HANDLE



Art. No.	set	size	kg	PU	EUR
115/2	9	1,5 - 10	0,513	1	48,34

Tap extension wrench

socket wrench for tap extensions and pipe plugs



Art. No.	WS	kg	PU	EUR
109/1	3/8 x 3/4" 3/8"	0,219	1	17,03
109/2	1/2 x 3/4" 3/8"	0,252	1	17,82

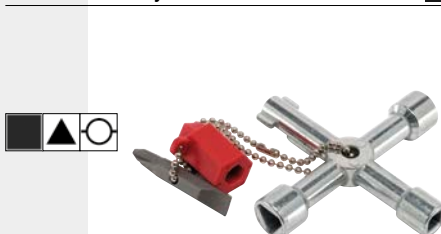
Hex key

Chrome vanadium steel, bright nickel-plated



Art. No.	span width	kg	PU	EUR
112/1,5	1,5	0,090	1	0,65
112/2	2	0,100	1	0,65
112/2,5	2,5	0,003	1	0,70
112/3	3	0,005	1	0,70
112/4	4	0,010	1	0,94
112/5	5	0,016	1	1,01
112/6	6	0,028	1	1,28
112/7	7	0,035	1	1,88
112/8	8	0,050	1	2,15
112/9	9	0,075	1	2,81
112/10	10	0,120	1	4,73
112/11	11	0,130	1	4,01
112/12	12	0,150	1	7,04
112/13	13	0,203	1	5,37
112/14	14	0,283	1	6,71
112/15	15	0,307	1	8,04
112/17	17	0,466	1	11,66
112/19	19	0,660	1	16,09
112/22	22	0,950	1	36,04
112/24	24	1,200	1	59,16

Switch cabinet key



Art. No.	kg	PU	EUR
119	0,085	1 on request	

Screwing tools

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



Roll repressive



Art. No.	set	kg	PU	EUR
2122 *	6	0,430	1	55,78

Workshop screwdriver

matt chrome-plated blade, 2-component handle with a hole



Art. No.	BL	CW	kg	PU	EUR
2070/125	125	6	0,087	1	12,47
2070/150	150	8	0,120	1	17,05

Screwdriver

matt chrome-plated blade, 2-component handle with a hole



Art. No.	BL	CW	kg	PU	EUR
2066/80	80	3	0,022	1	8,44
2066/100	100	3,5	0,026	1	8,69

Screwdriver | PZ

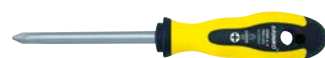
matt chrome-plated blade, 2-component handle with a hole



Art. No.	BL size		kg	PU	EUR
2080/1	80	1	0,049	1	13,27
2080/2	100	2	0,081	1	14,87

Screwdriver | PH

matt chrome-plated blade, 2-component handle with a hole



Art. No.	BL size		kg	PU	EUR
2080-1/1	80	1	0,048	1	11,58
2080-1/2	100	2	0,076	1	13,97

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)

1000 V IEC 60900



Roll repressive



Art. No.	set	kg	PU	EUR
2126/7 *	7	0,514	1	64,45

Screwdriver 1000 V

1000 V, matt chrome-plated blade with protective insulation, individually tested to IEC 60900

1000 V IEC 60900



Art. No.	BL	CW	kg	PU	EUR
2073-8/75	75	2,5	0,035	1	8,52
2073-8/100	100	4	0,056	1	9,96
2073-8/125	125	5,5	0,088	1	11,25
2073-8/150	150	6,5	0,110	1	13,18

Screwdriver 1000 V | PZ



1000 V, matt chrome-plated blade with protective insulation, 2-component handle with a hole, individually tested to IEC 60900

1000 V IEC 60900



Art. No.	BL	size	kg	PU	EUR
2079-18/1	80	1	0,060	1	12,70
2079-18/2	100	2	0,090	1	15,25

Screwdriver 1000 V | PH



1000 V, matt chrome-plated blade with protective insulation, 2-component handle with a hole, individually tested to IEC 60900

1000 V IEC 60900



Art. No.	BL	size	kg	PU	EUR
2079-8/1	80	1	0,059	1	10,86
2079-8/2	100	2	0,090	1	13,67

Safety voltage tester



for 120 - 250 Volt, with clip



Art. No.	↔	CW	kg	PU	EUR
2088/145	145	4	0,016	1	2,68

Voltage tester set



for 120 - 250 Volt, with clip



Art. No.	↔	set	kg	PU	EUR
2088-1/145	145	12	0,018	1	36,98

Screwdriver set with striking cap



Screwdriver set with striking cap

- 2 K impact screwdrivers
- Slot-head and cross-head PH with hexagonal shaft
- 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 striking cap



Roll repressive



Art. No.	set	kg	PU	EUR
2128	6	0,887	1	89,25

TX-Screwdriver-Set



6 pieces:

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

- black tips



Art. No.	set	kg	PU	EUR
2036 *	6	0,569	1	75,82

Claw-typee gripper magnetic

flexible claw-type gripper, length 60 cm, ideal for gripping screws, nuts etc. that are difficult to reach



Art. No.	↔	kg	PU	EUR
1830	600	0,124	1	27,27

Bit tools

Bit holder



with magnet and circlip



Art. No.	↔	kg	PU	EUR
2142	350	0,170	1	29,47

Bit holder



with magnet and circlip



Art. No.	↔	kg	PU	EUR
2142-1	100	0,107	1	11,54

Wheel ratchet for bits

Easy to handle in tight spaces



LOOSEN



TIGHTEN



Art. No.	Ø	H	kg	PU	EUR
2139	40	20	0,099	1	30,24

Bit set | 32 pieces | colour-coded



32 pieces:

1 bit holder with quick release

1 adaptor for 1/4"

30 bits



Art. No.	set	kg	PU	EUR
2145	32	0,247	1	33,96

Special Tools

Bath installation set "deluxe" | 16 pieces

16-part set
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	EUR
677-1 *	16	3,200	1	396,64

Bath installation set "basic" | 6 pieces

6-part set
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	EUR
677 *	6	3,794	1	225,59

WC seat installation wrench

simple to install and remove WC seats, universal bung wrench with more than 19 possible applications suitable for virtually all fastening systems



Art. No.	kg	PU	EUR
661 *	0,060	1	34,71

Toilet seat & sanitary installation wrench BRImultiKey 19 in 1

Toilet seat & sanitary installation wrench 'BRImultiKey' for screw connections
on toilet seats or adapters on water taps and fittings



Art. No.	kg	PU	EUR
662	0,100	1	31,47

Combination washbasin tap wrench

for all fittings up to 14 mm, size 32 mm



Art. No.	set	kg	PU	EUR
655 *	6	0,527	1	63,22

Washbasin tap wrench insert



Art. No.	span width	kg	PU	EUR
655-1/9	9	0,011	1	12,22
655-1/10	10	0,011	1	12,22
655-1/11	11	0,016	1	12,22
655-1/12	12	0,016	1	12,22
655-1/14	14	0,018	1	12,22
655-1/32		0,151	1	25,57

Washbasin tap wrench

for fixing nuts up to size 32 mm



Art. No.	span width	kg	PU	EUR
665/235	235 8-32	0.495	1	53.46

S-connection assembly set

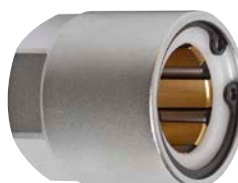
Consisting of:
1 reversible ratchet, CV steel, with 1/2" drive, with connecting square
1 S-connection assembly tool



Art. No.	set	kg	PU	EUR
676-1 *	2	0,873	1	94,20

S-connection assembly tool

inserting and removing tool, turns to left and right



Art. No.	kg	PU	EUR
676	0,267	1	44,62

Angle valve screw-in aid

to screw angle vales in and out without causing any damage, also suitable for places which are difficult to access



Art. No.	span width	kg	PU	EUR
659	32	0,230	1	38,43

Valve holder

to lock eccentric and standard valves in place, when installing siphons and drains, on washbasins and sinks etc.



Art. No.	span width	kg	PU	EUR
725 *	120	0,195	1	39,66

Assembly Connection Gauge

dimensional and spatial alignment of all common installation inside dimensions 1/2" in bare brickwork



Art. No.	kg	PU	EUR
2845	1,245	1	163,62

Valve extension cutter with chip collection

for trimming 1/2" valve extensions made of red brass



Art. No.	kg	PU	EUR
705/1/2	0,112	1	91,73

Cartridge gun

integrated needle to clean the tip of the cartridge



Art. No.	Ø	max. L	kg	PU	EUR
1362 *	51	340	0,555	1	18,87

Cartridge gun

wear-free, hardened and specially chrome-plated drives V=4 mm/stroke, thrust 1000 N



Art. No.	Ø	max. L	kg	PU	EUR
1365	51	340	0,985	1	136,27

Tap reseating tool

with two compression springs



Art. No.	size	kg	PU	EUR
714/1	1	0,350	1	80,73
714/2	2	0,338	1	80,73

Replacement milling cutters



Art. No.	Inch	kg	PU	EUR
718/3/8	3/8"	0,006	1	9,25
718/1/2	1/2"	0,010	1	9,58
718/3/4	3/4"	0,021	1	10,12
718/1	1"	0,030	1	10,66

Tap reseating tool

supplied in a metal case:

1 tap reseating tool, cylindrical shape, with two compressed springs



Art. No.	set	kg	PU	EUR
715/2	5	0,877	1	130,84

Pipe cutter

Carbon steel, stainless steel pipe cutter

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



NEW

Art. No.	Ø	kg	PU	EUR
633-71/35 *	3 - 35	0,335	1	94,20

Replacement parts for INOX pipe cutter 633-71/35

633-75A	Cutting wheel with needle bearing Stainless steel, carbon steel	1	27,84
633-76	Guide roller set	1	45,14
633-2	Deburrer	1	10,06
633-4	Roller bolts	1	6,71

Ratchet cut | stainless steel, carbon steel

Problem-solver for pipes that are already installed



Art. No.	Ø	kg	PU	EUR
622/28	8 - 28	0,479	1	148,74

Replacement parts for ratchet cut 622/28

622-1	Cutting wheel Stainless steel, carbon steel	1	17,11
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Mini pipe cutter

For stainless steel, copper and brass pipes Ø 3 - 16 mm, 1/8 - 5/8"



Art. No.	Ø	kg	PU	EUR
631 *	3 - 16	0,138	1	23,84

Replacement parts for mini pipe cutter 631

632-1	Cutting wheel Stainless steel, copper, brass	1	5,96
632-11	Cutting wheel Copper, brass	1	5,96
631-2	Roller	1	6,18
631-3	Roller bolts	1	3,08
631-4	Wheel bolt	1	4,37

Miniature pipe cutter

For stainless steel, copper and brass pipes



Art. No.	Ø	kg	PU	EUR
631-5	3 - 25	0,188	1	28,76

Replacement parts for miniature pipe cutter 631-5

632-1	Cutting wheel Stainless steel, copper, brass	1	5,96
632-11	Cutting wheel Copper, brass	1	5,96
631-52	Roller	1	6,18
631-53	Roller bolts	1	3,08
631-54	Wheel bolt	1	4,37

Compact pipe cutter

For pipes Ø 3 - 30 mm, 1/8 - 1 1/8"



Art. No.	Ø	kg	PU	EUR
631-10	3 - 30	0,230	1	40,41

Replacement parts for compact pipe cutter 631-10

632-1	Cutting wheel Stainless steel, copper, brass	1	5,96
632-11	Cutting wheel Copper, brass	1	5,96
631-12	Roller	1	6,18
631-13	Roller bolts	1	3,08
631-14	Wheel bolt	1	4,37

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

With extra strong fast running spindle



Art. No.	Ø	kg	PU	EUR
633/35 *	3 - 32	0,336	1	53,70
633/45	9 - 45	0,620	1	61,97

Replacement parts for pipe cutter with deburrer 633

633-1	Cutting wheel Plastic, composite	1	9,06
632-1	Cutting wheel Stainless steel, copper, brass	1	5,96
632-11	Cutting wheel Copper, brass	1	5,96
633-2	Deburrer	1	10,06
633-3	Roller	1	6,18
633-4	Roller bolts	1	6,71

Combination pipe cutter

For pipes Ø 6 - 67 mm, 1/4 - 2 1/2"



Art. No.	Ø	kg	PU	EUR
627	6 - 76	0,540	1	130,15

Replacement parts for combination pipe cutter 627

627-1	Cutting wheel Plastic, composite (up to 6 mm)	1	8,91
627-2	Cutting wheel Stainless steel, copper, brass, steel	1	8,14
627-4	Wheel bolt	1	5,63

Pipe cutter

For steel pipes with up to 2 mm wall thickness, in particular for galvanised pipes



Art. No.	Ø	kg	PU	EUR
629/2	10 - 60	2,173	1	157,60
629/4	32 - 115	5,300	1	518,33

Replacement parts for pipe cutter 629-2

629-1/2	Cutting wheel Steel	1	13,28
629-2/2	Roller	1	13,94
629-3/2	Roller bolts	1	6,71
629-4/2	Wheel bolt	1	5,96

Replacement parts for pipe cutter 629-4

629-1/4	Cutting wheel Steel	1	37,64
629-2/4	Roller	1	22,12
629-3/4	Roller bolts	1	7,38
629-4/4	Wheel bolt	1	22,12

Plastic pipe cutter

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



Art. No.	Ø	kg	PU	EUR
628/140	50 - 140	1,480	1	225,80

Replacement parts for plastic pipe cutter 628/140

628-1	Cutting wheel Plastic, multi-layer composite	1	53,76
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Cutting wheel

Cutting wheel | Plastic

for plastic and composite



Art. No.	Outer Ø	Inner Ø	ST	kg	PU	EUR
627-1	26	5	6	0,005	1	8,91

Cutting wheel | Stainless steel

for stainless steel, copper, brass, steel



Art. No.	Outer Ø	Inner Ø	ST	kg	PU	EUR
627-2	20	5	6	0,006	1	8,14

Cutting wheel | Stainless steel, carbon steel, copper

- replacement cutting wheel suitable for stainless steel and carbon steel
- suitable for:

Art. no. 622/28



Art. No.	Outer Ø	Inner Ø	ST	kg	PU	EUR
622-1	19	6	3	0,003	1	17,11

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	ST	kg	PU	EUR
633-75A	19	5	5	0,005	1	27,84

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	Inner Ø	ST	kg	PU	EUR
633-75	19	5	8	0,011	1	19,59

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	ST	kg	PU	EUR
632-1	20	5	5	0,005	1	5,96

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	ST	kg	PU	EUR
632-11	20	5	5	0,055	1	5,96

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	ST	kg	PU	EUR
633-1	12	5	5	0,005	1	9,06

Cutting wheel | Steel

- suitable for:

Art. no. 629



Art. No.	Outer Ø	Inner Ø	ST	kg	PU	EUR
629-1/2	31	9	19	0,029	1	13,28
629-1/4	41,5	9	19	0,054	1	37,64

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	ST	kg	PU	EUR
628-1	53	8	11	0,026	1	53,76

Pipe Deburrer

Pipe deburrer plastic pipes

for internal and external deburring of hard and thick-walled plastic pipes, Ø 25 - 63 mm



Art. No.	Ø	kg	PU	EUR
647/63	25 - 63	0,378	1	96,41

Pipe deburrer

for internal and external deburring of copper, aluminium and plastic pipes Ø 4 - 35 mm



Art. No.	Ø	kg	PU	EUR
646	4 - 35	0,033	1	17,11

Pipe deburrer

for internal and external deburring of stainless steel, brass, aluminium and plastic pipes



Art. No.	Ø	kg	PU	EUR
648/35	8 - 35	0,193	1	80,56
648/54	10 - 54	0,480	1	91,73

Calibration tool

calibrator and punch, for copper pipes without true size



Art. No.	kg	PU	EUR
638/15	0,170	1	101,45
638/18	0,214	1	116,73
638/12	0,085	1	79,62
638/22	0,298	1	127,63

Plastic Pipe Shears

Plastic pipe scissors

For one-hand operation with automatic blade retraction for Ø 6 - 35 mm



Art. No.	Ø	kg	PU	EUR
634/35	6 - 35	0,500	1	66,94

Replacement blade | Plastic pipe scissors



Art. No.	kg	PU	EUR
634-1/35	0,094	1	37,13

Automatic plastic tube shears

with lever transmission, for tubes in PVC, PE, PD, PEX, PVDF with a wall thickness of up to 2 mm and composite tubes



NEW

Art. No.	Ø	kg	PU	EUR
635/35 *	35	0,407	1	66,94
635/42	42	0,360	1	74,37

Replacement blade | Plastic pipe scissors



Art. No.	Ø	kg	PU	EUR
635-10/35	35	0,083	1	32,31
635-10/42	42	0,093	1	34,10

Pipe Bending Tools

Hydraulic pipe bending set | Basic metal

Supplied in a strong plastic case:

- 1 hydraulic hand pipe bending tool
- 5 bending segments, die-cast aluminium, 10, 12, 15, 18, 22 mm
- 3 dollies



Art. No.	set	Ø	kg	PU	EUR
637	9	10 - 22	5,620	1	825,51

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 dollies



Art. No.	set	Ø	kg	PU	EUR
637-10	15	10 - 32	8,404	1	1.177,53

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



Art. No.	set	Ø	kg	PU	EUR
637-20	9	16 - 32	7,433	1	1.041,18

Dollies



Art. No.	Ø	kg	PU	EUR
637-6/1	10 - 12	0,334	1	118,90
637-6/2	14 - 17	0,363	1	118,90
637-6/3	18 - 22	0,452	1	144,76
637-6/4	26	0,452	1	158,98
637-6/5	32	0,452	1	401,98
637-2	replacement nuts	0,010	1	4,28
637-4	replacement screws	2,295	1	16,50

Bending segment pipes

bending radius 4x diameter



Art. No.	Ø	kg	PU	EUR
637-1/10	10	0,099	1	96,94
637-1/12	12	0,112	1	96,94
637-1/14	14	0,125	1	96,94
637-1/15	15	0,127	1	96,94
637-1/16	16	0,140	1	96,94
637-1/17	17	0,142	1	96,94
637-1/18	18	0,187	1	100,82
637-1/20	20	0,190	1	100,82
637-1/22	22	0,200	1	100,82
637-1/26	26	0,099	1	161,57
637-1/32	32	0,099	1	268,85

Copper pipe bending pliers

for soft copper pipes and chrome-plated copper pipes



Art. No.	Ø	kg	PU	EUR
636-1/10	10	0,799	1	41,67
636-1/12	12	0,828	1	47,46

Copper pipe bending springs

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



Art. No.	Ø	l	kg	PU	EUR
701/8	8	250	0,107	1	4,33
701/10	10	250	0,123	1	5,02
701/12	12	300	0,170	1	6,53
701/15	15	300	0,268	1	7,35
701/16	16	300	0,272	1	7,90

Pipe Cleaning

Pipe cleaning pump

Suction and pressure cleaner for blocked pipes



Art. No.	kg	PU	EUR
3722 *	1,700	1	185,56

Pipe cleaning tool

Cleaning tool for manual and machine operation, for pipes Ø 30 - 50 mm



Art. No.	l	Ø	kg	PU	EUR
3720	7,5 m	30 - 50	3,500	1	261,81

Replacement shaft



Art. No.	l	Ø	kg	PU	EUR
3720-1	7,5 m	30 - 50	2,000	1	106,64

Quick release chuck



Art. No.	Ø	kg	PU	EUR
3720-2	30-50	0,177	1	53,66

Pressure testing pump

for safe tightness testing on water pipes, brass piston, 1/2" hose connection



Art. No.	bar	kg	PU	EUR
7640	60	7,800	1	278,89
7640-1	manometer	0,070	1	88,28
7640-2	pressure hose Ø 1/2"	0,727	1	116,36

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



Art. No.	bar	kg	PU	EUR
7641	60	6,400	1	446,22
7641-1	manometer	0,070	1	103,85

Pipe cleaning shaft

single layer, for household use and simple work



Art. No.	 Shank Ø		kg	PU	EUR
3700/3 *	3 m	5	0,279	1	13,62
3700/5	5 m	5	0,652	1 on request	

Pipe cleaning shaft

single layer, for simple work



Art. No.	Shank Ø		kg	PU	EUR
3701/3	3 m	9	1,085	1	41,13
3701/5	5 m	9	1,398	1	44,04
3701/10	10 m	9	3.472	1	61.83

Pipe cleaning shaft

3/8" Whitworth thread



Art. No.	 Shank Ø	kg	PU	EUR
3714/5	5 m 10	1,700	1	92,31
3714/10	5 m 8	3.200	1	154,75

Pipe cleaning shaft

double layer, adjustable handle



Art. No.	 Shank Ø		kg	PU	EUR
3702/5 *	5 m	7	1,250	1	75,44
3702/8	8 m	7	1,897	1	135.73

Pipe cleaning shaft

1/2" Whitworth thread, claw and crank can be replaced



Art. No.	l	Ø	kg	PU	EUR
3712/5x10	5 m	10	2,750	1	140,91
3712/5x15	5 m	15	3,740	1	307,66
3712/10x12	10 m	12	7,200	1	219,43
3712/10x15	10 m	15	11,300	1	390,73

Pipe cleaning shaft

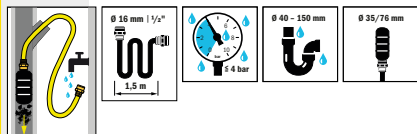
1/2" Whitworth thread



Art. No.	l	Ø	kg	PU	EUR
3713/5x10	5 m	10	2,750	1	88,70
3713/5x12	5 m	12	3,400	1	102,11
3713/10x10	10 m	10	4,700	1	190,52
3713/10x12	10 m	12	6,500	1	177,32

Water pressure drain cleaner

Ingenuously removes blockages in drainpipes with high pressure water



Art. No.	Balloon Ø	Ø	kg	PU	EUR
3730/1	35	40 - 80	0,370	1	106,60
3730/2	76	80 - 150	0,627	1	205,02

Sealing balloon

pneumatic sealing system for various pipe diameters



Art. No.	TL	Ø	kg	PU	EUR
3800-1/1	140	30 - 50	0,137	1	207,49
3800-1/2	135	50 - 80	0,210	1	235,26
3800-1/3	120	70 - 100	0,276	1	283,35
3800-1/4	230	90 - 150	0,722	1	612,07

Compressed air hose

Extension hose for sealing bubbles



Art. No.	l	kg	PU	EUR
3800-2	3 m	0,330	1	123,96

Air pump with manometer



Art. No.	kg	PU	EUR
3800-3	1,554	1	225,09

Plug for inner pipe

for unpressurized lines, seals only in the inner tube, can be placed as required



Art. No.	Ø	kg	PU	EUR
3806/1	96 - 103	0,237	1	81,64
3806/2	147 - 154	0,802	1	161,00
3806/3	196 - 204	1,002	1	289,29

Plug for end pipe

for unpressurized lines, seals only at the pipe end, does not fall into the inner pipe



Art. No.	Ø	kg	PU	EUR
3805/1	39 - 42	0,075	1	39,79
3805/2	49 - 55	0,100	1	46,88
3805/3	71 - 79	0,229	1	60,83
3805/4	96 - 103	0,295	1	81,64
3805/5	147 - 154	0,812	1	161,00

Piston brazing

Propane soldering iron

Consisting of: handle, hose connection, iron stand, soldering torch, wind protection, copper piece



Art. No.	set	kg	PU	EUR
4426	5	0,296	1	191,43

Propan handle

hose connection G 3/8" LH



Art. No.	kg	PU	EUR
4427	0,302	1	94,92

Soldering torch



Art. No.	kg	PU	EUR
4429	0,059	1	30,63

Soft solder insert



Art. No.	Ø	kg	PU	EUR
4429-1/5	5	0,087	1	49,08

Iron stand



Art. No.	kg	PU	EUR
4428	0,082	1	32,27

Wind protection



Art. No.	kg	PU	EUR
4430	0,087	1	20,40

Copper piece

angled hammer shape



Art. No.	kg	PU	EUR
4435/250	0,296	1	28,78
4435/350	0,388	1	40,80

Copper piece

pointed shape



Art. No.	kg	PU	EUR
4436/250	0,298	1	57,22
4436/350	0,388	1	64,53

Soft and hard soldering

Propane handle

hose connection G 3/8" LH



Art. No.	kg	PU	EUR
4400	0,352	1	107,36

Soft solder insert

with union nut M14 x 1



Art. No.	Ø	CU pipe Ø	kg	PU	EUR
4405/5	5	15 - 22	0,103	1	67,63
4405/7	7	22 - 28	0,170	1	66,42

Propane hard solder insert

gas outlet Ø 16 mm, for Cu pipes up to Ø 18 mm



Art. No.	CU pipe Ø	Ø	kg	PU	EUR
4406	0 - 18	16	0,096	1	54,79
4407	0 - 22	19	0,103	1	57,34
4408	0 - 28	22	0,247	1	60,38

Accessories For Pressure Bottles

Miniature propane bottle

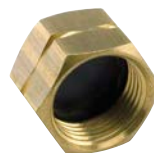
connection G 3/8" LH



Art. No.	kg	PU	EUR
4443	2,500	1	174,38

Sealing cap

legally required as transport safeguard



Art. No.	kg	PU	EUR
4443-1	0,014	1	9,83

Protective bracket



Art. No.	kg	PU	EUR
4443-2	0,482	1	24,88

Miniature propane bottle valve

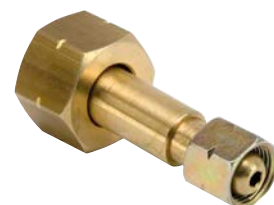
connection G 3/8" LH, outer Ø 1/2"



Art. No.	kg	PU	EUR
4444	0,253	1	59,91

Propane filler pipe

large connection W 21.8 x 1/14" LH, small connection G 3/8" LH



Art. No.	kg	PU	EUR
4446	0,149	1	32,64

Propane medium pressure regulator

outlet outer thread G 3/8" LH, for miniature bottles



Art. No.	kg	PU	EUR
4447-0	0,340	1	61,55

Propane medium pressure regulator

outlet outer thread G 3/8" LH



Art. No.	kg	PU	EUR
4447	0,260	1	57,03

Propane medium pressure regulator

outlet outer thread G 3/8" LH, with manometer



Art. No.	kg	PU	EUR
4447-1	0,310	1	84,78

Propane working manometer



Art. No.	kg	PU	EUR
4447-11	0,042	1	63,19

High pressure hose

connections G 3/8"LH



Art. No.	l	m	kg	PU	EUR
4452/1,5	1,5		0,280	1	25,33
4452/2	2		0,364	1	45,42
4452/3	3		0,660	1	50,17
4452/5	5		0,774	1	63,95

Solder Sets & Blowtorches

Propane soft solder set

Consisting of:

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



Art. No.	set	kg	PU	EUR
4399	4	3,549	1	342,46

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.	set	kg	PU	EUR
4394	6	5,500	1	475,85

Propane soft solder set

Consisting of:

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



Art. No.	set	kg	PU	EUR
4398	3	3,456	1	398,47

Propane soft solder set

Consisting of:

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



Art. No.	set	kg	PU	EUR
4395	7	6,300	1	566,34

Soldering tool

with automatic Piezo ignition, temperature 1800 °C



Art. No.	°C	kg	PU	EUR
5000 *	1800	0,488	1	105,01

Gas cartridge

mixed gas (butane/propane) 330 g | 600 ml



Art. No.	kg	PU	EUR
5100/350 *	0,488	1	10,69

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Blowtorch

Piezo ignition, temperature up to 1200 °C



Art. No.	°C	kg	PU	EUR
5205	1200	0,277	1	95,65

Blowtorch

temperature up to 1750 °C



Art. No.	°C	kg	PU	EUR
5200 *	1750	0,277	1	48,13

Mixed gas cartridge

mixed gas filling (butane/propane), 190 g



Art. No.	kg	PU	EUR
5210 *	0,277	1	3,54

Solder Accessories

Ammonia stone



Art. No.	kg	PU	EUR
1649	0,100	1	3,77

Flame protection mat

high quality, non melting fibre fleece, asbestos-free



Art. No.	W	kg	PU	EUR
8080	500 330	0,330	1	50,33

Magnetic control mirror

with permanent magnet, holding surface flat and prismatic, flexible metal hose with ball joint



Art. No.	ST	W	H	kg	PU	EUR
8030/1,0	1	70	80	0,466	1	39,09
8030/1,5	1,5	70	80	0,450	1	39,75

Steel mirror



Art. No.	ST	W	H	kg	PU	EUR
8061/1,0	1	70	80	0,066	1	4,63
8061/1,5	1,5	70	80	0,066	1	5,16

Solder water brush

with sheet metal sheath and natural bristles



Art. No.	kg	PU	EUR
2999	0,002	1	0,74

Gas lighting tongs



Art. No.	kg	PU	EUR
4200	0,051	1	7,88

Solder wire



Art. No.		Sn %	Ø	kg	PU	EUR
1644/250	10	40	2	0,259	1	24,03
1644/500	20	40	2	0,518	1	48,17

Resin quick solder

special solder wire (radio solder) for electrical engineering, with prepared resin core



Art. No.	Sn %	Ø	kg	PU	EUR
1645/20	40	2	0,021	1	4,83

Resin quick solder

special solder wire (radio solder) for electrical engineering, with prepared resin core



Art. No.	↔ m	Sn %	Ø	kg	PU	EUR
1646/500	20	40	2	0,530	1	64,58

Resin quick solder

special solder wire (radio solder) for electrical engineering, with prepared resin core



Art. No.	 Sn %	Ø	kg	PU	EUR
1646-1/250-1,0	10 60	1	0,259	1	41,30
1646-1/500-1,0	20 60	1	0,529	1	65,44
1646-1/500-1.5	15 60	1.5	0,528	1	65,21

Solder water bottle

made of unbreakable, acid and chemical-resistant polyethylene



Art. No.	L	kg	PU	EUR
1638/150	150	0,037	1	18,01

Hydrochloric acid bottle

made of unbreakable, acid and chemical-resistant polyethylene



Art. No.	L	kg	PU	EUR
1640/150	150	0,040	1	18,01

Oxyacetylene welding

Pressure relief valve | Oxygen

for oxygen



Art. No.	kg	PU	EUR
4080	1,330	1 on request	

Working manometer

for oxygen



Art. No.	kg	PU	EUR
4081	0,136	1 on request	

Content manometer

for oxygen



Art. No.	kg	PU	EUR
4082	0,138	1 on request	

Pressure relief valve | Acetylene

for fuel gas (acetylene)



Art. No.	kg	PU	EUR
4090	1,630	1	192,01

Working manometer

for fuel gas (acetylene)



Art. No.	kg	PU	EUR
4091	0,133	1 on request	

Content manometer

for fuel gas (acetylene)



Art. No.	kg	PU	EUR
4092	0,141	1 on request	

Double oxyacetylene hose

installed connections: G 3/8" LH, red for fuel gas (acetylene), G 1/4", blue for oxygen



Art. No.	l m	kg	PU	EUR
4073/10	10	3,500	1	305,44
4073/20	20	6,900	1	494,87

Handle

valve handwheel for single handed use



Art. No.	kg	PU	EUR
3902	0,639	1	334,09

Connection nut



Art. No.	kg	PU	EUR
3902-3	0,049	1	31,72

Explosion protection safeguard

for oxygen



Art. No.	kg	PU	EUR
4070	0,250	1	100,36

Explosion protection safeguard

for fuel gas (acetylene)



Art. No.	kg	PU	EUR
4071	0,250	1	100,36

Nozzle cleaning drill set

for cutting nozzles and welding inserts



Art. No.	kg	PU	EUR
4005	0,030	1	35,01

Welding insert

welding range 1 - 2 mm



Art. No.	WR	kg	PU	EUR
3922/1-2	1 - 2	0,116	1 on request	
3923/2-4	2 - 4	0,133	1 on request	
3924/4-6	4 - 6	0,142	1 on request	
3925/6-9	6 - 9	0,215	1 on request	
3926/9-14	9 - 14	0,230	1 on request	

Pipe welding insert

welding range 1 - 2 mm



Art. No.	WR	kg	PU	EUR
3936/1-2	1 - 2	0,080	1 on request	
3938/4-6	4 - 6	0,080	1 on request	
3939/6-9	6 - 9	0,079	1 on request	
3937/2-4	2 - 4	0,081	1	173,01

Replacement tip

welding range 1 - 2 mm



Art. No.	WR	kg	PU	EUR
3946/1-2	1 - 2	0,038	1	52,80
3947/2-4	2 - 4	0,039	1	52,80
3948/4-6	4 - 6	0,039	1	52,80
3949/6-9	6 - 9	0,043	1	55,46

Sealing accessories

Hemp dispenser



Art. No.	kg	PU	EUR
3820	0,104	1	13,04

Hemp coil



Art. No.	kg	PU	EUR
3825	0,090	1	7,70

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Drills & Sets

Twist drill

HSS, DIN 338, fully ground, split point



Art. No.	Ø	kg	PU	EUR
1044/1,0	1	0,005	10	0,94
1044/1,5	1,5	0,008	10	0,94
1044/2,0	2	0,011	10	0,94
1044/2,5	2,5	0,018	10	0,94
1044/3,0	3	0,03	10	1,01
1044/3,5	3,5	0,04	10	1,31
1044/4,0	4	0,05	10	1,64
1044/4,5	4,5	0,07	10	1,86
1044/5,0	5	0,09	10	2,07
1044/5,5	5,5	0,11	10	2,23
1044/6,0	6	0,14	10	2,46
1044/7,0	7	0,21	10	3,49
1044/6,5	6,5	0,17	10	2,92
1044/7,5	7,5	0,24	10	3,93
1044/8,0	8	0,29	10	4,91
1044/8,5	8,5	0,33	10	5,22
1044/9,0	9	0,42	10	5,78
1044/9,5	9,5	0,46	10	6,22
1044/10,0	10	0,51	10	6,93
1044/10,5	10,5	0,60	5	7,69
1044/11,0	11	0,70	5	8,40
1044/11,5	11,5	0,76	5	9,27
1044/12,0	12	0,82	5	10,36
1044/12,5	12,5	0,96	5	10,63
1044/13,0	13	1,02	5	11,99

Twist drill set

HSS twist drills, DIN 338



Art. No.	set	Ø	kg	PU	EUR
1060/2	19	1 - 10	0,694	1	64,81
1060/3	25	1 - 13	1,307	1	119,32

Twist drill set

HSS twist drills, DIN 338



Art. No.	set	Ø	kg	PU	EUR
1065	19	1 - 10	0,449	1	53,21

T.C.T. stone drill

HSS, DIN 338, milled and ground special design, particularly strong carbide small plate



Art. No.	l	Ø	kg	PU	EUR
1366-2/6	120	6	0,019	10	7,93
1366-2/8	130	8	0,032	10	9,97
1366-2/10	140	10	0,052	10	12,29
1366-2/14	155	14	0,120	5	17,82

T.C.T. hammer drill

crosshead, 4 edges: long tool life, easy, quick work, avoids drill bit tilting, effective drilling dust removal



Art. No.	l	Ø	kg	PU	EUR
1374/110x6 *	110	6	0,033	10	5,63
1374/160x5	160	5	0,045	10	5,16
1374/160x6 *	160	6	0,048	10	5,37
1374/160x8 *	160	8	0,053	10	5,83
1374/160x10 *	160	10	0,070	10	7,11
1374/160x12 *	160	12	0,083	5	8,18
1374/160x14	160	14	0,114	5	9,32
1374/160x15	160	15	0,114	5	10,80
1374/210x8	210	8	0,074	5	7,38
1374/210x10	210	10	0,090	5	7,91
1374/210x12 *	210	12	0,110	5	8,99
1374/210x14	210	14	0,126	5	9,66
1374/210x16	210	16	0,164	5	12,28
1374/210x18 *	210	18	0,192	5	14,68
1374/460x10 *	460	10	0,195	1	13,04
1374/460x12	460	12	0,242	1	14,02
1374/460x14 *	460	14	0,316	1	17,03
1374/460x16	460	16	0,383	1	19,90
1374/460x18	460	18	0,512	1	22,12
1374/460x20	460	20	0,574	1	25,75
1374/460x24 *	460	24	0,790	1	35,99
1374/600x12	600	12	0,260	1	27,27
1374/600x16	600	16	0,506	1	43,70

Double-ended drill bit

HSS, for predrilling, e.g. aluminium rivets and copper rivets



Art. No.	Ø	kg	PU	EUR
1045/3,2	3,2	0,004	10	2,28

Glass tile drill

pointed chisel edge enables precision drilling, can be re-sharpened, 1/4" hexagonal shaft



Art. No.	Ø	kg	PU	EUR
1368-1/5	5	0,009	1	12,77
1368-1/6 *	6	0,011	1	13,41
1368-1/8 *	8	0,015	1	18,59
1368-1/10 *	10	0,258	1	24,79
1368-1/13	13	0,300	1	28,51
1368-1/14	14	0,350	1	33,46

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



Art. No.	set	Ø	kg	PU	EUR
1368 *	5	6 - 10	0,126	1	84,28

DIAMOND core drills

DIAMOND core drills "BRIdiamondDrill"

drilling without a centring aid, connector M14 to be used with the angle grinder



Art. No.	Ø	kg	PU	EUR
1381-1/6 *	6	0,044	1	20,30
1381-1/8 *	8	0,047	1	21,13
1381-1/10 *	10	0,054	1	22,69
1381-1/12	12	0,055	1	23,92
1381-1/14	14	0,062	1	24,19
1381-1/18	18	0,100	1	56,76
1381-1/20	20	0,100	1	58,79
1381-1/25	25	0,120	1	68,92
1381-1/32	32	0,150	1	77,03
1381-1/35	35	0,160	1	92,68
1381-1/40	40	0,190	1	177,65
1381-1/45	45	0,250	1	103,38
1381-1/50	50	0,290	1	212,38
1381-1/55	55	0,300	1	113,52
1381-1/60	60	0,281	1	137,77
1381-1/68	68	0,339	1	154,39
1381-1/75	75	0,407	1	137,84
1381-1/82	82	0,474	1	145,95
1381-1/110	110	0,900	1	459,45

DIAMOND core drills set "BRIdiamondDrill"

drilling without a centring aid, 7-pieces: Ø 2 x 6, 2 x 8, 10, 12, 14 mm



Art. No.	set	Ø	kg	PU	EUR
1381	7	6 - 14	0,442	1	164,11

DIAMOND core drills set "BRIdiamondDrill"

drilling without a centring aid, 7-pieces: Ø 3 x 6, 3 x 8, 10 mm



Art. No.	set	Ø	kg	PU	EUR
1381-7	7	6 - 10	0,625	1	207,24

DIAMOND core drills set "BRIdiamondDrill"

7-pieces: Ø 2 x 6, 8, 10, 12, 14 mm, 1 Centering Guide stainless 5 - 40 mm



Art. No.	set	Ø	kg	PU	EUR
1381-6	7	6 - 14	0,836	1	240,46

DIAMOND core drills set "BRIdiamondDrill"

drilling without a centring aid, 4-pieces: Ø 2 x 6, 8, 10 mm



Art. No.	set	Ø	kg	PU	EUR
1381-4	4	6 - 10	0,257	1	112,18

DIAMOND core drills "BRIdiamondDrill"

precise positioning, minimum risk of slipping off, Safety, Fast, Efficiency & Sophisticated design



Art. No.	Ø	kg	PU	EUR
1379-3/5	67	5	0,012	1 39,66
1379-3/6 *	67	6	0,013	1 23,08
1379-3/8 *	80	8	0,018	1 23,08
1379-3/10 *	80	10	0,027	1 25,46
1379-3/12	80	12	0,034	1 29,34

DIAMOND core drills set "BRIdiamondDrill"

drilling without a centring aid; 4-pieces: Ø 2 x 6, 8, 10 mm



Art. No.	set	Ø	kg	PU	EUR
1379-4	4	6 - 10	0,117	1	112,18

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



Art. No.	set	Ø	kg	PU	EUR
1379-6	7	6 - 14	0,658	1	192,78

Centering Guide stainless "BRIdiamondDrill"

Stainless steel Centering guide for diamond core drills, Suitable for Diamond tools with a diameter of 5 - 40 mm



Art. No.	kg	PU	EUR
1385-6	0,122	1	56,82

DIAMOND tile drill

diamond encrusted, durable blades, for pinpoint accuracy and sharp-edged bores in hard and valuable materials



Art. No.	Ø	kg	PU	EUR
1385-1/5	5	0,009	1	46,57
1385-1/6	6	0,010	1	49,06
1385-1/8	8	0,011	1	52,40
1385-1/10	10	0,011	1	56,51
1385-1/12	12	0,013	1	61,12
1385-1/14	14	0,015	1	65,20

DIAMOND Core bit

SDS-plus chuck adaptor, internal thread M16, diamond-encrusted cutting



Art. No.	Ø	kg	PU	EUR
1386/68	68	0,625	1	180,11
1386/82	82	0,820	1	216,36

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Sheet metal punch and drill

Sheet metal punch

for punching sheet metal made of Nirosta, aluminium, copper, brass, iron etc. as well as plastics



Art. No.	Hole Ø	kg	PU	EUR
912/15	15	0,100	1	45,99
912/16	16	0,102	1	48,14
912/17	17	0,102	1	48,14
912/18	18	0,104	1	48,14
912/19	19	0,104	1	52,44
912/20	20	0,115	1	52,44
912/21	21	0,128	1	52,44
912/22	22	0,138	1	56,40
912/23	23	0,136	1	56,40
912/24	24	0,145	1	56,40
912/25	25	0,153	1	64,54
912/26	26	0,153	1	64,54
912/27	27	0,165	1	64,54
912/28	28	0,173	1	64,54
912/30	30	0,193	1	71,59
912/31	31	0,193	1	71,59
912/33	33	0,218	1	80,86
912/34	34	0,235	1	81,63
912/36	36	0,317	1	69,14
912/38	38	0,311	1	91,67
912/39	39	0,311	1	109,43
912/40	40	0,373	1	109,43
912/41	41	0,373	1	109,43
912/42	42	0,415	1	124,32
912/43	43	0,420	1	126,84
912/44	44	0,476	1	126,84
912/45	45	0,598	1	130,30
912/46	46	0,598	1	130,30
912/48	48	0,601	1	143,48
912/49	49	0,620	1	143,48
912/50	50	0,650	1	149,45
912/51	51	0,678	1	158,11
912/52	52	0,699	1	158,11
912/53	53	0,707	1	162,51
912/55	55	0,725	1	170,56

Sheet metal punch | Plumbing

for sanitary installations



Art. No.	Hole Ø	kg	PU	EUR
910/11/8	28,5	0,192	1	54,74
910/11/4	31,7	0,249	1	56,28

Sheet metal punch | Electric

for punching sheet metal made of Nirosta, aluminium, copper, brass, iron etc. as well as plastics



Art. No.	Hole Ø	PG	kg	PU	EUR
900/9	15,2	PG9	0,096	1	44,85
900/11	18,6	PG11	0,150	1	53,21
900/13,5	20,4	PG13,5	0,126	1	55,46
900/16	22,5	PG16	0,128	1	57,58
900/21	28,3	PG21	0,122	1	54,60
900/29	37	PG29	0,189	1	88,04
900/36	47	PG36	0,587	1	131,71
900/42	53,9	PG42	0,682	1	165,45
900/48	60	PG48	0,959	1	199,03

Sheet metal punch | Electric

for electric through-holes



Art. No.	Hole Ø	kg	PU	EUR
905/16,5	16,5	0,112	1	49,18
905/20,5	20,5	0,117	1	58,15
905/25,5	25,5	0,120	1	71,45
905/32,5	32,5	0,217	1	82,35
905/40,5	40,5	0,372	1	118,90
905/50,5	50,5	0,626	1	161,98
905/63,5	63,5	0,753	1	225,26

Replacement screw



Art. No.	Hole Ø	kg	PU	EUR
913/10x1	10	0,041	1	8,18
913/12x1,5	12	0,067	1	10,80
913/16x1,5	16	0,151	1	13,95

Thread cutting

Screw remover

twist drill



Art. No.		Ø	kg	PU	EUR
1085/1	50,8	3,6	0,003	1	2,54
1085/2	60,3	6,8	0,006	1	2,42
1085/3	68,3	8,11	0,012	1	2,54

Screw remover set

twist drill



Art. No.	set	size	kg	PU	EUR
1086/1-5	5	1 - 5	0,107	1	18,55
1086/1-6	6	1 - 6	0,224	1	27,27
1086/1-8	8	1 - 8	0,723	1	67,63

Hole Saws

HSS-bi-metal hole saw set | Plumbing standard

For sanitary work, 6 pieces:
5 HSS-bi-metal hole saws Ø 44, 57, 68, 75, 114 mm,
1 SDS chuck adaptor with HSS drill



Art. No.	set	kg	PU	EUR
1384 *	6	3,665	1	183,45

HSS-bi-metal hole saw set | Electro

For electrical work, 8 pieces:
6 HSS-bi-metal hole saws Ø 22, 29, 35, 44, 51, 64 mm,
1 SDS chuck adaptor with HSS drill 14 - 30 mm,
1 SDS chuck adaptor with HSS drill 32 - 152 mm



Art. No.	set	kg	PU	EUR
1382	8	0,933	1	219,65

HSS-bi-metal hole saw

with variable teething, 4 - 6 tpi



Art. No.	Ø	kg	PU	EUR
1380/22	22	0,054	1	16,76
1380/25	25	0,052	1	17,01
1380/29	29	0,084	1	29,14
1380/32	32	0,085	1	19,14
1380/35	35	0,099	1	19,15
1380/38	38	0,093	1	19,62
1380/44 *	44	0,112	1	20,66
1380/51	51	0,117	1	26,58
1380/57 *	57	0,146	1	22,44
1380/64	64	0,148	1	33,53
1380/68 *	68	0,198	1	25,51
1380/75	75	0,239	1	26,95
1380/114 *	114	0,415	1	61,93
1380/121	121	0,538	1	77,09

HSS guide drill



Art. No.	Ø	kg	PU	EUR
1380-1/70	70	0,014	1	10,07
1380-1/105	105	0,020	1	16,11

SDS chuck adaptor with drill

with HSS guide drill



Art. No.	Ø	kg	PU	EUR
1380-2/1	14 - 30	0,086	1	33,53
1380-2/2	32 - 152	0,240	1	35,66

Hexagonal chuck with drill

with HSS guide drill



Art. No.	Ø	kg	PU	EUR
1380-3/1	14 - 30	0,077	1	24,73
1380-3/2	32 - 152	0,190	1	39,09

Hole Saws

Metal saw bow

with quick dowel pin



Art. No.	Sbl.	kg	PU	EUR
1724/300	300	0,750	1	18,69

Universal bow saw

with all-purpose saw blade



Art. No.	Sbl.	kg	PU	EUR
1726/146	146	0,168	1	17,65

Universal bow saw

with all-purpose saw blade



Art. No.	Sbl.	kg	PU	EUR
1728/146	146	0,095	1	10,35

Universal bow saw | fold-down

with all-purpose saw blade



Art. No.	Sbl.	kg	PU	EUR
1729/146	146	0,133	1	19,78

Hand saw blades

Saw blade Universal

for universal, precise sawing work



Art. No.	Ø	TPI	kg	PU	EUR
1730/146 *	146	24	0,002	1	1,08

Saw blade Metal

for high quality sawn edges



Art. No.	Ø	TPI	kg	PU	EUR
1732/146	146	32	0,002	1	1,08

Saw blade Wood

for effortless sawing work in wood



Art. No.	Ø	TPI	kg	PU	EUR
1731/146	146	14	0,029	1	1,02

Metal cutting saw blade HSS

HSS, flexible, for plastics and metal



Art. No.	Ø	TPI	kg	PU	EUR
1738/300	300	24	0,017	1	2,95

Metal cutting saw blade HSS-Bi-metal

HSS-Bi-metal, flexible



Art. No.	Ø	TPI	kg	PU	EUR
1739/300 *	300	24	0,017	1	3,05

Metal cutting saw blade

Spring steel (C 75), double-sided serration 24 teeth for metal and 32 teeth for plastics



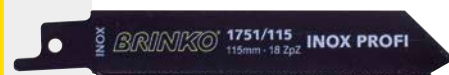
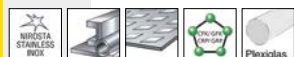
Art. No.	Ø	TPI	kg	PU	EUR
1740/300 *	300	24/32	0,044	1	2,42

Sabre saw blade

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



Art. No.	tooth	L	TPI	kg		PU	EUR
1751/115	115	95	18	0,025	1	1	32,28

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



Art. No.		toothL	TPI	kg		PU	EUR
1745/150 *	150	130	14	0,015	25	5	4,82
1745/200 *	200	180	14	0,022	25	5	6,21
1745/300 *	300	280	10	0,033	25	5	9,29

Sabre saw blade Metal

Without stroke action

Topseller - Standard saw blade for steel and stainless steel (1.5 - 4.0 mm)



Art. No.	 tooth	L	TPI	kg 	PU	EUR
1746/100 	100	80	18	0,009	25	1 4,82
1746/150 	150	130	18	0.016	25	1 5.49

Sabre saw blades Metal POWER CURVE

Without stroke action

Flexible all-round blade for steel and stainless steel from 1.5 - 2.5 mm



Art. No.	tooth	L	TPI	kg	PU	EUR
1761/150	150	130	18	0,026	25	5 5,49
1761/225	225	205	18	0.039	25	5 6.95

Sabre saw blades Metal POWER CURVE

Without stroke action

Flexible all-round blade for steel and stainless steel from 2,0 - 8,0 mm and non-ferrous metals

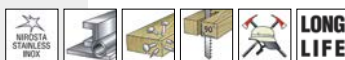


Art. No.	tooth	L	TPI	kg		PU	EUR
1762/150	150	130	14	0,026	25	5	5,49
1762/225	225	205	14	0.039	25	5	6.95

Sabre saw blades Metal DEMOLITION

Without stroke action

Especially for dismantling, rescue and salvage, for fast and straight cuts in steel thicker than 3 mm and all types of wood with metal residues



Art. No.	 toothL	TPI	kg		PU	EUR
1757/150	150 130	10	0,027	15	3	11,92
1757/225	225 205	10	0,061	15	3	15,22
1757/300	300 280	10	0.084	15	3	19,91

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



Art. No.	 tooth	L	TPI	kg		PU	EUR
1759/150	150	130	10	0,026	25	5	6,00
1759/225	225	205	10	0,040	25	5	7,83
1759/280	280	260	10	0,034	25	5	10,03

Sabre saw blade Universal SHARK

Without stroke action

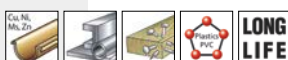
Considerably longer durability by a better heat dissipation due to the cooling slots



Art. No.	tooth	L	TPI	kg		PU	EUR
1755/150	150	130	9	0.024	25	1	6.73

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



Art. No.		toothL	TPI	kg		PU	EUR
1750/150 	150	130	8	0,020	25	5	8,21
1750/200 	200	180	8	0.025	25	5	9.35

Sabre saw blade HM CAST SPECIAL

Without stroke action

Hard-metal toothing, Especially suitable for difficult-to-cut metals, e.g. cast steel pipes (black pipes), cast, iron (red SML)



Art. No.	tooth	L	TPI	kg		PU	EUR
1754/225	225	205	8	0.063	1	1	58.75

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

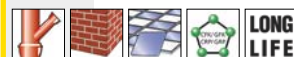


Art. No.		kg		PU	EUR
1753/200 *	200	0,040	1	1	29,50

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	EUR
1752/200 *	200	0.040	10	2	19.25

Sabre saw blade Wood

With/without stroke action

Standard blade for wood, but now new cross-grinding toothing

For quick, straight cuts on all types of wood, plastic and drywall (6 - 100 mm)



Art. No.		toothL	TPI	kg		PU	EUR
1747/225 *	225	205	6	0,031	20	5	5,54

Sabre saw blades HM SPECIAL

Premium reciprocating saw blade in craftsman quality with standard 1/2" mount and carbide toothing.

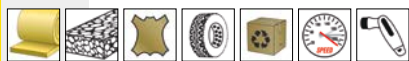
The large recesses in the saw blade body ensure a quiet, low-vibration and straight cut. At the same time, the chipped material is quickly removed so that a consistently high cutting speed is guaranteed during the cut.



Art. No.		toothL	TPI	kg		PU	EUR
1763/305	305	250	2	0,095	25	1	67,38
1763/455	455	410	2	0.165	25	1	95.93

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



NEW

Art. No.	toothL	kg	PU	EUR
1764/300	300 280	0,047	25 2	66,41

Sabre saw blade

Sabre saw blades (U-shank)

For pipes, steel, stainless steel, nonferrous metals, cast iron, hard plastic



Art. No.	toothL	TPI	kg	PU	EUR
1743/150	150 130	14	0,021	1	7,96
1743/200	200 180	14	0,032	1	9,54

Jigsaw blade Wood

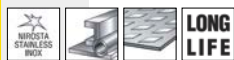
Fast cut in all wood types (5.0 - 50 mm)



Art. No.	toothL	TPI	kg	PU	EUR
1756/75	100 75	6,35	0,020	1	4,46

Jigsaw blade Metal

Flexible blade for steel and stainless steel (1.2 - 3.0 mm)



Art. No.	toothL	TPI	kg	PU	EUR
1758/55	76,5 55	21	0,005	1	4,95
1758/105	126,5 100	21	0,010	1	4,95

Knives

Universal knife

"Das Original" BRINKO cutter knife
blade feed with automatic locking device



"Das Original"
BRINKO cutter knife

Art. No.	kg	PU	EUR
2980 *	0,103	1	12,47

Blade dispenser „Black Blades“

"Original" BRINKO "Black Blades"
super sharp, maximum service life due to fire hardening



10 x



"Original"
BRINKO „Black Blades“

Art. No.	kg	PU	EUR
2982 *	0,081	1	9,92

Cable knife



Art. No.	kg	PU	EUR
3525	0,083	1	18,70

Cable knife



Art. No.	kg	PU	EUR
3526	0,057	1	18,70

Cable stripping knife

cast steel blade with scraper



Art. No.	BL	kg	PU	EUR
3520	111	0,071	1	10,92

Universal knife

blade depot for 5 blades



Art. No.	kg	PU	EUR
2991	0,170	1	12,87

Blade dispenser trapezoidal

10 x



Art. No.	kg	PU	EUR
2992	0,025	1	3,76

Blade dispenser hook

10 x



Art. No.	kg	PU	EUR
2993	0,031	1	8,18

Shears

Ideal scissors



Art. No.	Ø	kg	PU	EUR
762/260 *	260	0,581	1	61,72

Ideal scissors



Art. No.	Ø	kg	PU	EUR
786/260	260	0,609	1	49,77

Punching scissors



Art. No.	Ø	kg	PU	EUR
792/250	250	0,500	1	32,37

Punching scissors



Art. No.	Ø	kg	PU	EUR
793/250	250	0,514	1	32,37

Shaped punching scissors



Art. No.	Ø	kg	PU	EUR
794/250	250	0,470	1	32,88

Straight cutting scissors



Art. No.	Ø	kg	PU	EUR
798/300	300	0,726	1	51,05

Cutting Discs

Cut-off disk | Steel

for separating steel and other metals



Art. No.	Ø	kg	PU	EUR
6200/115 *	115	0,074	1	3,01
6200/125 *	125	0,087	1	3,21
6200/178	178	0,180	1	3,75
6200/230 *	230	0,305	1	5,73

Cut-off disk | INOX

for cutting stainless steel, steel and other metals



Art. No.	Ø	kg	PU	EUR
6215/115 *	115	0,025	1	2,86
6215/125 *	125	0,030	1	3,17
6215/150 *	150	0,030	1	3,99
6215/230 *	230	0,200	1	8,04

Diamond cutting and chamfering disc

Diamond coating, for cutting and chamfering all plastic pipes in one work process



Art. No.	Ø	kg	PU	EUR
6219/125	125	0,400	1	185,93

Diamond cutting disc

universal use for wet and dry cutting of almost all materials



Art. No.	Ø	kg	PU	EUR
6240/115 *	115	0,112	1	25,52
6240/125 *	125	0,142	1	32,17
6240/180	180	0,364	1	68,06
6240/230	230	0,637	1	99,86

Brushes

Wire brush



Art. No.	Ø	Rows	kg	PU	EUR
1708/3	295	3	0,103	1	3,37
1708/4 *	295	4	0,151	1	3,85
1708/5	295	5	0,145	1	4,33

Wire brush



Art. No.	Ø	Rows	kg	PU	EUR
1708-1/3	295	3	0,116	1	10,51
1708-1/4	295	4	0,137	1	11,96

Burner brush

wooden body



Art. No.	Ø	Rows	kg	PU	EUR
1709-1/80 *	200	2	0,027	1	7,24

Burner brush

with plastic handle



Art. No.	Ø	Rows	kg	PU	EUR
1710	225	2 x 13	0,130	1	19,63

Fitting brush

for cleaning the inside of pipe ends



Art. No.	Ø	Rows	kg	PU	EUR
1706/12	12	3/8	0,027	1	12,04
1706/15 *	15	1/2	0,025	1	11,75
1706/18	18	5/8	0,027	1	11,75
1706/22	22	3/4	0,028	1	11,75
1706/28	28	1	0,038	1	11,75

Fitting brush

for cleaning the inside of pipe ends



Art. No.	Ø	Rows	kg	PU	EUR
1706-1/15	15	1/2	0,055	1	19,80
1706-1/18	18	5/8	0,055	1	19,80
1706-1/22	22	3/4	0,060	1	19,80

Fitting brush

for cleaning the outside of copper pipe ends



Art. No.	Length	Ø	kg	PU	EUR
1705/12	12	3/8	0,021	1	21,60
1705/15	15	1/2	0,026	1	37,25
1705/18	18	5/8	0,034	1	37,25
1705/22	22	3/4	0,032	1	34,06
1705/28	28	1	0,040	1	34,06

Brass brush

in three rows



Art. No.	Length	Rows	kg	PU	EUR
1709/40x20 *	175	3	0,023	1	3,02

Files

Engineer's file half round



Art. No.	BL	CW	kg	PU	EUR
1654-1/250	250	7	0,290	1	22,53

Engineer's file round



Art. No.	BL	CW	kg	PU	EUR
1653-1/250	250	10	0,165	1	14,20

Installation rasp



Art. No.	BL	CW	kg	PU	EUR
1658-1/250	250	7	0,262	1	49,47

Engineer's file flat



Art. No.	BL	CW	kg	PU	EUR
1655-1/250	250	6,3	0,339	1	15,67

Wood rasp



Art. No.	BL	CW	kg	PU	EUR
1666-1/250	250	23,8	0,247	1	27,43

File rasp



Art. No.	BL	CW	kg	PU	EUR
1664/200	200	23,5	0,170	1	14,07

Hammers

Club hammer

with hickory handle



Art. No.	Length	HG	kg	PU	EUR
1409/1000	260	1000	1,128	1	25,55
1409/1250	260	1250	1,388	1	27,99
1409/1500	280	1500	1,650	1	30,33

Cross peen hammer

with hickory handle



Art. No.	Length	HG	kg	PU	EUR
1470/300	300	300	0,373	1	19,63
1470/500	320	500	0,601	1	20,17

Aluminium support brackets



Art. No.	W	kg	PU	EUR
231/135	135	0,158	1	20,47
231/150	150	0,183	1	20,47

Chisels

Chisel



Art. No.	SW	kg	PU	EUR
2174/26	26	0,203	1	27,82

Sharp chisel SDS-Plus



Art. No.	Length	kg	PU	EUR
1340/250	250	0,171	1	29,85

Flat chisel SDS Plus



Art. No.	Length	SW	kg	PU	EUR
1341/250 *	250	20	0,253	1	29,32

Spade chisel SDS Plus



Art. No.	Length	SW	kg	PU	EUR
1342/200 *	200	40	0,264	1	46,81

Nail setter



Art. No.	Length	kg	PU	EUR
1391/6	6	0,162	1	9,92

Pointed punch



Art. No.	Length	Thickness	kg	PU	EUR
1315/120-10	120	10	0,062	1	3,75
1315/120-12	120	12	0,089	1	4,01

Pencils & Marker

DRY Profi

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



Art. No.	kg	PU	EUR
2513	0,018	1	19,40

DRY Profi LED

Integrated LED lamp for precise markings in poorly-lit areas



Art. No.	kg	PU	EUR
2514	0,029	1	30,12

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



NEW

Art. No.	kg	PU	EUR
2528	0,021	1	26,02

Duo marker sanitary

made of high-quality lime wood this soft hardwood can be sharpened very well and offers an optimal combination of stability and flexibility), for marking different measuring points, hot and cold water pipes or for corrections



NEW

Art. No.	kg	PU	EUR
2510	0,012	1	4,80

DRY construction marker

integrated tip, ideal single hand operation



Art. No.	kg	PU	EUR
2511	0,028	1	16,61

DRY leads | Graphite



Art. No.	set	kg	PU	EUR
2511-1	12	0,029	1	14,06

DRY leads | Basic

graphite, red, yellow



Art. No.	set	kg	PU	EUR
2511-2	12	0,028	1	14,06

DRY leads | Special

white, green, blue



Art. No.	set	kg	PU	EUR
2511-3	12	0,026	1	14,06

INK deep hole marker black



Art. No.	kg	PU	EUR
2515/1	0,019	1	12,77

INK deep hole marker red



Art. No.	kg	PU	EUR
2515/2	0,019	1	12,77

INK deep hole marker blue



Art. No.	kg	PU	EUR
2515/3	0,019	1	12,77

All-purpose pencil

also writes on greasy or damp surfaces



Art. No.	kg	PU	EUR
2524/235	0,014	1	3,85

Carpenter's pencil



Art. No.	kg	PU	EUR
2523/240	0,012	1	2,68

Sharpener



Art. No.	kg	PU	EUR
2522	0,010	1	6,50

Marking chalk red



Art. No.	kg	PU	EUR
2525	0,010	1	1,58

Marking chalk yellow



Art. No.	kg	PU	EUR
2525-1	0,010	1	1,58

Marking chalk blue



Art. No.	kg	PU	EUR
2525-2	0,010	1	1,58

Soapstone crayon



Art. No.	kg	PU	EUR
2526/100	0,026	1	1,33

Set of numbers

normal quality, to be hammered into steel and iron
3 mm, 7 mm, 70 mm



Art. No.	size	set	kg	PU	EUR
3552/3	3	9	0,266	1	24,36
3552/4	4	9	0,320	1	21,52
3552/6	6	9	0,555	1	27,68
3552/8	8	9	0,869	1	36,47

Letter set



Art. No.	size	set	kg	PU	EUR
3562/6	6	27	1,615	1	78,76

Spirit Levels

Lightweight metal spirit level



Art. No.	length	kg	PU	EUR
2836/300	300	0,180	1	41,54
2836/400	400	0,267	1	42,99
2836/600	600	0,378	1	49,59
2836/800	800	0,505	1	51,87
2836/1000	1000	0,646	1	55,59

Magnetic spirit level

with extra strong magnets for a secure hold on pipes, metal
in inside walls, installations and other steel components



Art. No.	length	kg	PU	EUR
2836-1/400	400	0,299	1	55,49
2836-1/600	600	0,451	1	79,03
2836-1/800	800	0,560	1	89,83
2836-1/1000	1000	0,670	1	97,36

Brackets

Bracket



Art. No.	TL long	TL short	kg	PU	EUR
2550/700	700	300	0,448	1	54,38

Bracket



Art. No.	TL long	TL short	kg	PU	EUR
2562/1000	1000	500	2,214	1	281,42

Measuring Tools

Feeler gauge



Art. No.	TL	TMA	kg	PU	EUR
2814/20	100	0.05 - 1	0,089	1	9,98

Plumblines



Art. No.	Ø	l = m	kg	PU	EUR
2861/50	1	50	0,040	1	5,22

Plumblines



Art. No.	Ø	l = m	kg	PU	EUR
2862/50	1,7	50	0,046	1	6,63

Brushes

Water brush



Art. No.	Ø	kg	PU	EUR
2998	30	0,026	1	5,03

Flat brush



Art. No.	Width	kg	PU	EUR
2999-1/25	25	0,016	1	2,92
2999-1/50	50	0,031	1	4,74

Radiator brush



Art. No.	Width	kg	PU	EUR
2997/25	25	0,021	1	4,24
2997/40	40	0,021	1	5,42

Plaster's Tools

Plaster ladle



Art. No.	Ø	kg	PU	EUR
2994/160	160	0,340	1	27,34

Plaster cup



Art. No.	Ø	kg	PU	EUR
2996/135	135	0,161	1	7,07

Painter's spatula



Art. No.	W	kg	PU	EUR
2952/30	30	0,050	1	4,01
2952/40	40	0,058	1	4,23
2952/50	50	0,060	1	4,91
2952/70	70	0,080	1	5,14

Plasterer's spatula



Art. No.	W	kg	PU	EUR
2900/60	60	0,075	1	10,49

Trowel



Art. No.	l = m	kg	PU	EUR
2904/140	140	0,166	1	10,63

Tongue trowel



Art. No.	l = m	kg	PU	EUR
2908/160	160	0,139	1	16,36

Brushes

Wire Grips | Insulated

Wire Grips for bundle assembled aerial cables (single or more core), aerial bundled conductors



Art. No.	Ø	Load kg	kg	PU	EUR
3466/1	8 - 25	1.250	0,950	1	365,98
3466/2	16 - 34	3.000	2,190	1	549,52
3466/3	28 - 45	4.500	3,200	1	826,48

Wire Grips | Universal

Wire Grips for profile bar, flat bar and rail systems



Art. No.	Ø	Load kg	kg	PU	EUR
3467/1	1 - 9	2.500	0,850	1	204,61
3467/3	1 - 18	7.000	1,850	1	361,64

Wire Grips | Copper and Steel

Wire Grips for copper and steel cables



Art. No.	Ø	Load kg	kg	PU	EUR
3468/0	1 - 5	1.250	0,260	1	135,28
3468/1	3 - 9	2.500	0,845	1	212,59
3468/2	4 - 12	4.500	1,255	1	247,33
3468/3	6 - 18	7.000	1,665	1	353,60
3468/4	10 - 28	8.000	4,000	1	658,68
3468/5	20 - 40	9.000	6,000	1	1.171,07

Wire Grips | Aluminium

Wire Grips for aluminium cables with and without a steel core



Art. No.	Ø	Load kg	kg	PU	EUR
3469/1	5.4 - 8.5	2.000	0,830	1	219,48
3469/2	5 - 12	3.400	1,270	1	256,15
3469/3	8 - 18	6.000	1,800	1	360,23
3469/4	15 - 28	7.000	4,000	1	673,68
3469/5	20 - 40	9.000	6,000	1	1.021,59

Wire stretcher

Wire stretcher for tensioning clamping ropes, wire and rods



Art. No.	Ø	Load kg	kg	PU	EUR
3462/1-3	1 - 3	400	0,110	1	39,01
3462/1-4	1 - 4	500	0,260	1	54,22
3462/1-6	1 - 6	800	0,480	1	41,87
3462/1-8	1 - 8	1.200	0,620	1	70,48
3462/1-12	1 - 12	1.800	1,000	1	101,19
3462/10-25	10 - 25	3.000	2,620	1	503,47

Hand pulley rope

21 m x 10 mm



Art. No.	→ m	ST	kg	PU	EUR
3495/10	10	10	1,271	1	76,30

Tool cases

Tool case "plumbing"

ABS

Hard-top case

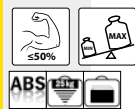


Art. No.	W	H	D	kg	PU	EUR
7410	480	370	225	6,600	1	396,64

Tool case "BRIactive"

ABS

Hard-top case, black, fitted with 23 special tools



Art. No.	set	empty	kg	PU	EUR
7419	23	7410	11,700	1	801,65

Tool case "Plumbing CLASSIC"

ABS

Hard-top case, black, fitted with 22 special tools



Art. No.	set	empty	kg	PU	EUR
7418	22	7410	11,809	1	721,39

Tool case "Plumbing EXCLUSIVE"

ABS

Hard-top case, black, fitted with 37 special tools



Art. No.	set	empty	kg	PU	EUR
7438	37	7410	16,489	1	1.162,66

Tool case "Plumbing Swimming pool EXCLUSIVE"

ABS

Hard-top case, black, fitted with 35 special tools



Art. No.	set	empty	kg	PU	EUR
7530	35	7410	14,963	1	1.425,43

"Skater" tool trolley

HDPE

Hardshell case made of PP plastic



Art. No.	W	H	D	kg	PU	EUR
7413	470	360	220	6,900	1	779,26

Apprentice case „BRlbasic“

ABS

Hard case, black, fitted with 14 special tools



NEW

Art. No.	set	empty	kg	PU	EUR
7416	14	220030	5,500	1	426,12

Tool bags

Folding tool boards

Folding tool boards – Easy to take away!



Art. No.	W	H	D	kg	PU	EUR
7420/1	460	310	100	1,650	1	273,68
7420/2	470	310	100	2,100	1	290,34

Tool wallet



Art. No.	W	H	kg	PU	EUR
7000/5	250	300	0,126	1	26,07
7000/15	680	330	0,260	1	36,48

HDPE tool case extra deep

Tool case made of a combination of cowhide and ABS plastic



Art. No.	W	H	D	kg	PU	EUR
7360	450	340	190	3,800	1	529,34

Cowhide & ABS tool case Premium “Plumbing EXCLUSIVE”

Tool case made of a combination of cowhide and ABS plastic



Art. No.	set	empty	kg	PU	EUR
7362	45	7360	11,815	1	1.281,65

Service bag

Strong tool bag made of hard-wearing 600D Polyester



Art. No.	W	H	D	kg	PU	EUR
7515	450	350	190	2,157	1	96,68

Service bag “Plumbing CLASSIC”

Strong tool bag made of hard-wearing 600D Polyester, fitted with 22 special tools



Art. No.	set	empty	kg	PU	EUR
7516	22	7515	7,366	1	471,01

Plumbing program

Gloves

Breathable protective gloves

very comfortable to wear, hands remain cool and dry



Art. No.	size	size	kg	PU	EUR
3454/9	9	L	0,043	1	6,51
3454/10	10	XL	0,043	1	6,51
3454/11	11	XXL	0,043	1	6,51

Work gloves

latex-coated glove palm, repels liquid



Art. No.	size	size	kg	PU	EUR
3458/9	9	L	0,105	1	4,47
3458/10	10	XL	0,063	1	4,47

Work gloves

PU-coating



Art. No.	size	size	kg	PU	EUR
3459/10	10	XL	0,105	1	3,47

Cut-protection gloves

excellent grip, comfortable, close fit and elastic, excellent protection (Cat. 5) when working with sharp-edged objects



Art. No.	size	size	kg	PU	EUR
3451/10	10	XL	0,105	1	24,79

Safety Glasses

Safety glasses

especially for spectacle wearers, according to EN 166



Art. No.	kg	PU	EUR
4255	0,062	1	10,61

Safety glasses

3M reflective strips at edge of glasses, according to EN 166



Art. No.	kg	PU	EUR
4258	0,045	1	15,62

Safety glasses

3M reflective strips at edge of glasses, according to EN 166, tinted lenses



Art. No.	kg	PU	EUR
4259	0,030	1	17,35

Safety glasses

with length and height adjustable arms, according to EN 166



Art. No.	kg	PU	EUR
4265	0,034	1	12,87

Safety glasses

attractive, according to EN 166



Art. No.	kg	PU	EUR
4266	0,060	1	17,98

Safety glasses

attractive design, according to EN 166, tinted lenses



Art. No.	Col.	kg	PU	EUR
4278-1	silver	0,023	1	11,26
4278-3	blue	0,023	1	11,26

Welder's Goggles

Welder's tightly fitting safety goggles

bead made of PVC



Art. No.	kg	PU	EUR
4250	0,077	1	15,76

Welder's goggles

with fold-out, well ventilated side protection meshes



Art. No.	kg	PU	EUR
4260	0,049	1	18,05

Replacement lenses

suitable for safety goggles Art. No. 4250



Art. No.	kg	PU	EUR
4262	0,034	1	6,37

Replacement lenses

suitable for safety goggles Art. No. 4260



Art. No.	kg	PU	EUR
4263	0,031	1	16,22

Protection

Ear muffs

according to EN 322



Art. No.	dB	kg	PU	EUR
4210	24	0,170	1	11,51

Ear plugs



Art. No.	dB	kg	PU	EUR
4207	25	0,011	1	3,20

Siphon

Guaranteed the right siphon for your application with the highest degree of security



Art. No.	kN	kg	PU	EUR
1180	0,39	0,600	1	68,17

Tension cable | 8 mm, length 1 m

versatile and practical



Art. No.		ST	kg	PU	EUR
1140/8	1000	8	0,695	10	5,05

Pressing tools

Pressing Tool EFP203

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



Art. No.	∅ set	kg	PU	EUR
625-2PG/EFP203	400 12-110	1	8,482	1 2.845,50
625-2SE/EFP203	400 12-110	4	14,193	1 3.958,23

Case EFP203



Art. No.	kg	PU	EUR
625-2K0/EFP203	3,378	1	270,12

Pressing Tool EC0203

Comfort Line EC0203 - a new generation of pressing technology
Supplied in case: pressing unit, storage space for up to 6 press jaws PB2



Art. No.	∅ set	kg	PU	EUR
625-4PG/EC0203	400 12-110	1	7,300	1 3.361,56
625-4SE/EC0203	400 12-110	4	14,114	1 4.474,29

Case EC0203



Art. No.	kg	PU	EUR
625-4K0/EC0203	3,348	1	302,38

Cordless Pressing Tool AC0103 BT | 4.0 Ah

Comfort Line AC0102 - 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



Art. No.	∅ set	kg	PU	EUR
625-1PM/AC0103	320 12-40	3	5,261	1 3.131,13
625-1SE/AC0103	320 12-40	6	9,149	1 4.107,08

12 V rechargeable battery 4.0

Extremely high performance 12 V 4.0 Ah Red Li-Ion rechargeable battery for pressing tool AC0103



Art. No.	kg	PU	EUR
625-1AK/AC0103	0,415	1	428,84

12 V charger

about AC0103



Art. No.	kg	PU	EUR
625-1LA/AC0103	0,513	1	320,37

Case AC0103



Art. No.	kg	PU	EUR
625-1K0/AC0103	2,414	1	236,32

Cordless Pressing Tool AC0203 BT | 5.0 Ah

Comfort Line AC0203 - 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



Art. No.	∅ set	kg	PU	EUR
625-5PM/AC0203	390 12-110	3	8,300	1 3.869,77
625-5SE/AC0203	390 12-110	6	12,000	1 5.309,07

Case AC0203



Art. No.	kg	PU	EUR
625-5KO/AC0203	2,100	1	302,38
625-5KO/AC0XL	4,000	1	302,38

Cordless Pressing Tool AC0203XL BT | 5.0 Ah

Comfort Line AC0203XL - 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



Art. No.	l	Ø set	kg	PU	EUR
625-5XL/AC0203	460	12 - 110	4	12,000	5.547,64

18 V rechargeable battery 5.0

about AC0203 | AC0203XL | AC0403



Art. No.	kg	PU	EUR
625-5AK/AC0203	0,650	1	878,47

12 - 18 V charger

about AC0203 | AC0203XL | AC0403



Art. No.	kg	PU	EUR
625-5LA/AC0203	0,683	1 on request	

Cordless Pressing Tool AC0403 BT | 5.0 Ah

Comfort Line AC0403 - 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



Art. No.	l	Ø set	kg	PU	EUR
625-8PG/AC0403	650	76,1 - 168,3	4	12,800	9.084,56

Case

Case PB1

pressing jaws 12 - 35 mm



Art. No.	kg	PU	EUR
625-KO/PB1	6,119	1	227,00

Case PB2

pressing jaws 12 - 40 mm



Art. No.	kg	PU	EUR
625-KO/PB2	6,119	1	254,31

Case PS2

press collars 42 + 54 mm



Art. No.	kg	PU	EUR
625-KO/PS2	2,100	1	276,05

Case PS3 | small

for press collars and press jaws



Art. No.	kg	PU	EUR
625-7KO/PS323	2,100	1	304,92

Case PS3 | large

for press collars and press jaws



Art. No.	kg	PU	EUR
625-7K0/PS324	2,100	1	304,92

Case ZB2XL

221XL + 222XL



Art. No.	kg	PU	EUR
625-K0/ZBXL	1,650	1	304,92

Press Jaws

Press Jaws PB1 type V

for all pressing contours type V 12 - 35 mm



Art. No.	Ø	kg	PU	EUR
625-20/PB1V12	12	1,282	1	325,29
625-20/PB1V15	15	1,272	1	325,29
625-20/PB1V18	18	1,277	1	325,29
625-20/PB1V22	22	1,328	1	325,29
625-20/PB1V28	28	1,359	1	325,29
625-20/PB1V35	35	1,282	1	387,65

Press Jaws PB1 type M

for all pressing contours type M 12 - 35 mm



Art. No.	Ø	kg	PU	EUR
625-23/PB1M12	12	1,280	1	325,29
625-23/PB1M15	15	1,281	1	325,29
625-23/PB1M18	18	1,265	1	325,29
625-23/PB1M22	22	1,326	1	325,29
625-23/PB1M28	28	1,375	1	325,29
625-23/PB1M35	35	1,282	1	387,65

Press Jaws PB1 type TH

for all pressing contours type TH 16 - 40 mm



Art. No.	Ø	kg	PU	EUR
625-24/PB1T16	16	1,096	1	320,80
625-24/PB1T20	20	1,156	1	320,80
625-24/PB1T26	26	1,245	1	301,22
625-24/PB1T32	32	1,476	1	320,80
625-24/PB1T40	40	1,551	1	412,34

Press Jaws PB1 type U

for all pressing contours type U 16 - 40 mm



Art. No.	Ø	kg	PU	EUR
625-25/PB1U16	16	1,247	1	320,80
625-25/PB1U20	20	1,250	1	320,80
625-25/PB1U25	26	1,229	1	320,80
625-25/PB1U32	32	1,412	1	320,80
625-25/PB1U40	40	1,601	1	412,34

Press Jaws PB2 type V

for all pressing contours type V 12 - 54 mm



Art. No.	Ø	kg	PU	EUR
625-30/PB2V12	12	1,888	1	369,96
625-30/PB2V15	15	1,935	1	369,96
625-30/PB2V18	18	1,935	1	369,96
625-30/PB2V22	22	2,032	1	372,87
625-30/PB2V28	28	1,912	1	372,87
625-30/PB2V42	35	3,335	1	957,85
625-30/PB2V54	42	4,537	1	1.038,82
625-30/PB2V35	54	1,959	1	376,70

Press Jaws PB2 type M

for all pressing contours type M 12 - 35 mm



Art. No.	Ø	kg	PU	EUR
625-33/PB2M12	12	1,270	1	369,96
625-33/PB2M15	15	1,879	1	369,96
625-33/PB2M18	18	1,882	1	369,96
625-33/PB2M22	22	1,975	1	372,83
625-33/PB2M28	28	1,935	1	372,87
625-33/PB2M35	35	2,031	1	376,70

Press Jaws PB2 type TH

for all pressing contours type TH 16 - 32 mm



Art. No.	Ø	kg	PU	EUR
625-34/PB2T16	16	1,880	1	369,96
625-34/PB2T20	20	1,931	1	372,87
625-34/PB2T26	26	1,955	1	372,87
625-34/PB2T32	32	2,083	1	376,70

Press Jaws PB2 type

for all pressing contours type U 16 - 32 mm



Art. No.	Ø	kg	PU	EUR
625-35/PB2U16	16	1,899	1	393,15
625-35/PB2U20	20	1,885	1	393,15
625-35/PB2U25	25	1,971	1	393,15
625-35/PB2U32	32	2,089	1	393,15

Press Collars

Press Collars PS2 type V

press collars with „snap-on“ technology, for pressing contours type V 42 – 54 mm



Art. No.	Ø	kg	PU	EUR
625-40/PS2V42	42	1,297	1	1.545,26
625-40/PS2V54	54	1,578	1	1.545,26

Press Collars PS2 type M

press collars with „snap-on“ technology, for pressing contours type M 42 – 54 mm



Art. No.	Ø	kg	PU	EUR
625-43/PS2M42	42	1,335	1	1.545,26
625-43/PS2M54	54	1,570	1	1.545,26

Press Collars PS2 type TH

press collars with „snap-on“ technology, for pressing contours type TH 40 – 63 mm



Art. No.	Ø	kg	PU	EUR
625-44/PS2T40	40	2,080	1	1.399,05
625-44/PS2T50	50	2,560	1	1.399,05
625-44/PS2T63	63	3,040	1	1.791,46

Press Collars PS3 type M

press collars with „snap-on“ technology, for pressing contours type M 42 – 108 mm



Art. No.	Ø	kg	PU	EUR
625-53/PS3M42	42	1,345	1	1.545,26
625-53/PS3M54	54	3,600	1	1.545,26
625-53/PS3M64	64	3,820	1	2.255,07
625-53/PS3M76	76.1	4,425	1	2.015,13
625-53/PS3M88	88.9	4,340	1	2.209,44
625-53/PS3M08	108	5,560	1	2.950,43

Press Collars PS2 type U

press collars with „snap-on“ technology, for pressing contours type U 40 – 63 mm



Art. No.	Ø	kg	PU	EUR
625-45/PS2U40	40	2,080	1	1.616,50
625-45/PS2U50	50	2,560	1	1.616,50
625-45/PS2U63	63	3,040	1	1.706,28

Press Collars PS4 type HP

press collars with „snap-on“ technology, for pressing contours type HP 76,1 mm, 88,9 mm, 108 mm



Art. No.	Ø	kg	PU	EUR
625-63/PS4H76	76.1	7,400	1	2.783,81
625-63/PS4H88	88.9	8,000	1	2.848,82
625-63/PS4H08	108	9,100	1	3.572,97

Adaptor Jaws

Adaptor Jaw ZB204

high quality intermediate jaw for novopress PS3 press collars



Art. No.	Ø	kg	PU	EUR
625-ZB/PS203	40 – 63	2,032	1	487,11

Adaptor Jaw ZB2XL

high quality intermediate jaws especially for pressing units ACO202XL | 203XL, suitable for the Novopress press collars PS3



Art. No.	Ø	kg	PU	EUR
625-ZB/221XL	64 – 108	4,400	1	1.379,63
625-ZB/222XL	108	4,600	1	1.379,63
625-ZB/SETXL	64 – 108	10,800	1	3.056,95

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100243	83	2	1	4,87	101496	82	2	1	12,01	102010	63	1	1	4,68	102722	64	1	1	5,98
100249	83	2	1	4,87	101500	82	2	1	14,77	102012	63	1	1	4,68	102724	64	1	1	5,98
100250	83	2	1	4,87	101502	82	2	1	16,55	102014	63	1	1	3,14	102726	64	1	1	5,98
100252	83	2	1	4,87	101510	82	2	1	90,20	102016	63	1	1	3,14	102730	64	1	1	5,98
100257	83	2	1	4,87	101520	81	2	1	4,65	102017	63	1	1	3,76	102732	64	1	1	5,98
100259	83	2	1	5,53	101521	81	2	1	4,74	102018	63	1	1	3,14	102734	64	1	1	5,98
100261	83	2	1	5,70	101522	81	2	1	5,80	102020	63	1	1	3,14	102736	64	1	1	5,98
100366	83	2	1	4,83	101524	81	2	1	6,29	102022	63	1	1	3,14	102740	64	1	1	6,58
100585	84	2	1	11,52	101526	81	2	1	8,11	102030	63	1	1	1,65	102742	64	1	1	6,58
100590	84	2	1	0,15	101528	81	2	1	8,38	102032	63	1	1	1,65	102744	64	1	1	6,58
100592	84	2	1	0,16	101530	81	2	1	9,30	102034	63	1	1	1,65	102746	64	1	1	6,58
100594	84	2	1	0,18	101532	81	2	1	6,62	102036	63	1	1	1,65	102748	64	1	1	6,58
100596	84	2	1	0,36	101534	81	2	1	9,17	102040	63,64	1	1	7,70	102750	64	1	1	6,58
100598	84	2	1	0,44	101536	81	2	1	9,86	102042-1	63	1	1	11,33	102752	64	1	1	6,58
100600	84	2	1	0,65	101538	81	2	1	12,70	102044	63	1	1	1,04	102760	64	1	1	6,87
100602	84	2	1	0,88	101540	81	2	1	15,04	102052	63	1	1	336,55	102762	64	1	1	6,87
100606	84	2	1	1,64	101541	81	2	1	15,84	102060	63	1	1	3,87	102764	64	1	1	6,87
100610	84	2	1	2,73	101542	81	2	1	6,01	102062	63	1	1	3,87	102766	64	1	1	6,87
100612	84	2	1	4,24	101544	81	2	1	7,43	102064	63	1	1	3,87	102768	64	1	1	6,87
100614	84	2	1	5,72	101546	81	2	1	9,01	102066	63	1	1	3,87	102770	64	1	1	6,87
100630	84	2	1	13,28	101548	81	2	1	13,27	102068	63	1	1	3,87	102772	64	1	1	6,87
100632	84	2	1	14,07	101550	81	2	1	8,27	102070	63	1	1	3,87	102780	64	1	1	7,20
100633	84	2	1	11,24	101552	81	2	1	10,01	102072	63	1	1	3,87	102782	64	1	1	7,20
100634	84	2	1	16,17	101554	81	2	1	15,84	102110	85	2	1	9,76	102784	64,82	1	1	3,93
100635	84	2	1	12,42	101560	81	2	1	38,18	102112	85	2	1	9,76	102785-1	64	1	1	19,91
100636	84	2	1	16,17	101562	81	2	1	39,43	102114	85	2	1	9,76	102790	64	1	1	96,88
100640	84	2	1	9,37	101604	81	2	1	4,15	102116	85	2	1	9,76	102792	64	1	1	96,88
100645	85	2	1	1,91	101606	81	2	1	4,88	102118	85	2	1	9,76	102870	61	1	1	10,49
100646	85	2	1	2,48	101608	81	2	1	5,43	102120	85	2	1	9,76	102872	61	1	1	13,13
100647	85	2	1	1,78	101610	81	2	1	7,12	102124	85	2	1	9,76	102879	61	1	1	18,30
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100700	76,85	2	1	3,43	101644	81	2	1	9,09	102134	85	2	1	4,49	102920	61	1	1	10,51
100704	83	2	1	4,87	101646	81	2	1	11,78	102152	85	2	1	5,83	102942	61	1	1	7,34
100704 A	83	2	1	4,87	101648	81	2	1	13,77	102154	85	2	1	5,83	102944	61	1	1	10,40
100712	83	2	1	4,87	101650	81	2	1	14,21	102155	85	2	1	5,83	102952	61	1	1	8,70
100713	83	2	1	4,87	101684	81	2	1	5,15	102166	85	2	1	23,86	102954	61	1	1	11,44
100714	83	2	1	4,87	101686	81	2	1	6,35	102172	85	2	1	28,60	102980	61	1	1	98,72
100715	83	2	1	4,87	101688	81	2	1	8,21	102174	85	2	1	28,60	102999	61	1	1	40,72
100716	83	2	1	4,87	101690	81	2	1	11,88	102176	85	2	1	5,83	102999/PZ	61	1	1	41,24
100718 A	83	2	1	4,87	101850	62	1	1	9,97	102178	85	2	1	5,83	103000-1	82	2	1	154,91
100720	83	2	1	4,87	101852	62	1	1	9,97	102188	85	2	1	22,01	103002-1	82	2	1	201,71
100721	83	2	1	4,87	101854	62	1	1	10,20	102190	85	2	1	23,86	103010	82	2	1	4,69
100723	83	2	1	4,87	101856	62	1	1	10,45	102198	85	2	1	28,55	103012	82	2	1	4,69
100728	83	2	1	4,87	101858	62	1	1	11,05	102200	85	2	1	5,83	103014	82	2	1	3,73
100729	83	2	1	4,87	101860	62	1	1	11,58	102204	85	2	1	5,83	103016	82	2	1	3,73
100729 A	83	2	1	4,87	101862	62	1	1	12,94	102210	85	2	1	13,20	103018	82	2	1	3,73
100734	83	2	1	4,87	101864	62	1	1	14,14	102212	86	2	1	27,27	103020	82	2	1	3,93
100736	83	2	1	4,87	101866	62	1	1	17,34	102216	85	2	1	9,66	103022	82	2	1	3,93
100738	83	2	1	4,87	101870	61	1	1	9,32	102512	62	1	1	149,45	103024	82	2	1	3,93
100741	83	2	1	4,87	101872	61	1	1	11,64	102520	62	1	1	17,64	103026	82	2	1	3,93
100742	83	2	1	4,87	101874	85	1	1	5,62	102522	62	1	1	17,64	103028	82	2	1	4,40
100902	85	2	1	1,40	101876	85	1	1	5,62	102524	62	1	1	18,07	103030	82	2	1	4,38
100903	85	2	1	1,40	101879	61	1	1	14,97	102526	62	1	1	18,07	103032	82	2	1	4,38
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100917	84	2	1	26,32	101917	61	1	1	5,29	102540	62	1	1	28,30	103122	81	2	1	5,76
100921	84	2	1	33,17	101918	61	1	1	7,12	102550	62	1	1	4,94	103130	81	2	1	4,39
100927	84	2	1	17,00	101920	61	1	1	9,43	102552	62	1	1	5,80	103132	81	2	1	5,13
100941	84	2	1	28,98	101922	61	1	1	12,60	102554	62	1	1	7,09	103134	81	2	1	6,10
100943	84	2	1	26,32	101924	61	1	1	15,63	102556	62	1	1	10,88	103136	81	2	1	9,37
100961	84	2	1	66,83	101940	61	1	1	5,92	102612	81	2	1	7,84	103470	81	2	1	6,11
100965	84	2	1	24,03	101942	61	1	1	6,62	102614	81	2	1	9,69	103472	81	2	1	6,62
100967	84	2	1	22,15	101944	61	1	1	9,63	102616	81	2	1	14,22	103498	82	2	1	23,86
101200	81	2	1	10,11	101946	61	1	1	13,34	102700-1	64	1	1	203,38	103800	76	1	1	47,35
101202	81	2	1	10,63	101950	62	1	1	6,86	102700/PZ-1	64	1	1	203,38	103809	76	1	1	252,10
101204	81	2	1	10,63	101952	62	1	1	7,84	102701-1	64	1	1	203,38	103815	76	1	1	196,33
101206	81	2	1	11,48	101954	62	1	1	10,59</										

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104030	86	2	1	45,25	110196	87	2	1	3,72	110375/EN	75	1	1	58,63	110737/11	88	2	1	1,37
104090	63,121	1	1	583,25	110198	87	2	1	4,50	110376/EN	75	1	1	59,13	110737/12	88	2	1	1,37
110000	70	1	1	59,96	110202	87	2	1	5,46	110377/EN	75	1	1	60,00	110737/13	88	2	1	1,41
110002	70	1	1	59,96	110204	87	2	1	5,71	110378/EN	75	1	1	60,00	110737/14	88	2	1	1,59
110004	70	1	1	59,96	110206	87	2	1	7,86	110379/EN	75	1	1	64,30	110737/15	88	2	1	1,83
110006	70	1	1	59,96	110212	87	2	1	9,78	110456/EN	73	1	1	257,01	110737/16	88	2	1	1,83
110008	70	1	1	60,96	110216	87	2	1	13,27	110457/EN	73	1	1	257,01	110737/17	88	2	1	2,12
110010	70	1	1	61,66	110222	87	2	1	14,94	110458/EN	73	1	1	257,01	110737/18	88	2	1	2,37
110012	70	1	1	63,88	110250	87	2	1	44,81	110555	70	1	1	78,07	110737/19	88	2	1	2,37
110022	70	1	1	70,68	110252	87	2	1	82,32	110556	70	1	1	91,00	110737/20	88	2	1	3,11
110024	70	1	1	70,74	110260	70	1	1	23,34	110557	70	1	1	121,48	110737/21	88	2	1	3,11
110026	70	1	1	70,74	110262	70	1	1	23,34	110558	69	1	1	76,61	110737/22	88	2	1	3,20
110028	70	1	1	70,74	110264	70	1	1	23,34	110559	69	1	1	104,70	110737/24	88	2	1	3,92
110030	70	1	1	73,27	110266	70	1	1	23,34	110561	69	1	1	289,03	110737/6	88	2	1	1,37
110032	70	1	1	75,21	110268	70	1	1	25,94	110569	69	3	1	87,84	110737/7	88	2	1	1,37
110034	70	1	1	77,74	110270	70	1	1	28,11	110581	9	3	1	161,14	110737/8	88	2	1	1,37
110036	70	1	1	77,74	110272	70	1	1	28,34	110583	88	2	1	31,93	110737/9	88	2	1	1,37
110039/EN	73	1	1	56,51	110274	70	1	1	28,66	110585	88	2	1	38,17	110738	89	2	1	3,67
110040/EN	74	1	1	58,58	110276	70	1	1	31,48	110590	88	2	1	25,48	110739	89	2	1	5,00
110042	70	1	1	12,37	110278	70	1	1	33,99	110592	88	2	1	32,30	110741	89	2	1	4,14
110044	70	1	1	12,86	110280	70	1	1	35,70	110594	88	2	1	41,60	110745	89	2	1	7,14
110046	70	1	1	14,55	110282	70	1	1	39,72	110596	88	2	1	53,44	110747	88	2	1	1,18
110048	70	1	1	16,83	110284	70	1	1	45,53	110605	90	2	1	106,26	110749	88	2	1	1,18
110050	70	1	1	18,88	110286	70	1	1	59,23	110607	90	2	1	121,35	110751	89	2	1	4,76
110052	70	1	1	23,17	110288	70	1	1	60,25	110608	90	2	1	106,35	110752	89	2	1	6,01
110054	70	1	1	29,80	110290	70	1	1	60,73	110609	90	2	1	153,73	110753	89	2	1	11,45
110055/EN	73	1	1	838,78	110300	70	1	1	30,76	110610	90	2	1	111,04	110754	88	2	1	1,18
110056/EN	73	1	1	841,01	110302	70	1	1	30,76	110672	89	1	1	186,85	110754/10	89	2	1	2,36
110058/EN	74	1	1	863,93	110304	70	1	1	30,76	110674	88	2	1	87,70	110754/11	89	2	1	2,36
110060	70	1	1	41,43	110306	70	1	1	30,76	110674/K	88	2	1	23,34	110754/12	89	2	1	2,36
110062	70	1	1	41,43	110308	70	1	1	32,21	110676	88	2	1	94,99	110754/13	89	2	1	2,36
110064	70	1	1	42,45	110310	70	1	1	32,21	110676/K	88	2	1	30,95	110754/14	89	2	1	2,28
110065/EN	73	1	1	868,27	110312	70	1	1	33,43	110677	89	2	1	142,16	110754/15	89	2	1	2,28
110066/EN	74	1	1	868,27	110314	70	1	1	38,60	110677/K	89	2	1	35,15	110754/16	89	2	1	2,28
110067/EN	74	1	1	902,07	110316	70	1	1	42,30	110678	89	2	1	205,04	110754/17	89	2	1	2,71
110068/EN	74	1	1	983,60	110318	70	1	1	45,65	110691	90	2	1	19,51	110754/18	89	2	1	2,97
110070	70	1	1	111,15	110320	70	1	1	49,15	110692	90	2	1	26,37	110754/19	89	2	1	2,97
110071	73	1	1	319,23	110322	70	1	1	55,61	110693	90	2	1	6,22	110754/20	89	2	1	3,61
110073	73	1	1	319,23	110324	70	1	1	63,26	110696	90	2	1	17,15	110754/21	89	2	1	3,61
110074	70	1	1	111,11	110331/EN	73	1	1	236,30	110697	90	2	1	21,46	110754/22	89	2	1	4,05
110075	73	1	1	319,23	110332/EN	74	1	1	254,28	110698	90	2	1	34,40	110754/24	89	2	1	4,75
110076	70	1	1	111,15	110335/EN	73	1	1	60,63	110700	88	2	1	1,77	110754/26	89	2	1	6,64
110078	70	1	1	111,11	110336/EN	74	1	1	66,10	110700/EN	73	1	1	30,89	110754/27	89	2	1	6,64
110080	70	1	1	111,15	110337/EN	73	1	1	64,24	110701	88	2	1	2,61	110754/28	89	2	1	7,65
110081	70	1	1	77,81	110338/EN	74	1	1	60,50	110702	88	2	1	5,31	110754/30	89	2	1	8,26
110083	70	1	1	83,48	110339/EN	75	1	1	25,17	110702/EN	73	1	1	36,61	110754/32	89	2	1	8,74
110084	70	1	1	84,44	110340/EN	75	1	1	25,08	110703/10	88	2	1	1,16	110755	89	2	1	3,82
110085	70	1	1	87,09	110342/EN	75	1	1	25,08	110703/11	88	2	1	1,27	110756	89	2	1	5,18
110087	70	1	1	91,98	110344/EN	75	1	1	25,08	110703/12	88	2	1	1,32	110757	89	2	1	5,18
110089	70	1	1	91,98	110346/125	75	1	1	81,84	110703/13	88	2	1	1,40	110758	89	2	1	10,34
110090	87	2	1	2,95	110346/250	75	1	1	85,32	110703/4	88	2	1	0,98	110759	88	2	1	1,18
110091	70	1	1	91,98	110346/EN	75	1	1	25,08	110703/45	88	2	1	0,98	110760	88	2	1	1,18
110092	87	2	1	3,86	110348/125	75	1	1	81,84	110703/5	88	2	1	0,98	110780	87	2	1	31,71
110093	70	1	1	93,79	110348/250	75	1	1	85,32	110703/55	88	2	1	0,98	110782	87	2	1	37,25
110094	87	2	1	4,46	110348/EN	75	1	1	25,38	110703/6	88	2	1	0,98	110798	88	2	1	18,48
110095	70	1	1	100,42	110350/125	75	1	1	82,26	110703/7	88	2	1	0,98	110806	10	3	1	12,38
110096	87	2	1	4,25	110350/250	75	1	1	85,94	110703/8	88	2	1	1,02	110810	71	1	1	170,69
110097	70	1	1	100,42	110350/EN	75	1	1	25,63	110703/9	88	2	1	1,14	110812	71	1	1	817,43
110099	70	1	1	106,81	110352/125	75	1	1	82,26	110704	53,75	1	1	138,32	110813	71	1	1	807,65
110100	87	2	1	5,66	110352/250	75	1	1	85,94	110705	53,75	1	1	211,14	110814	71	1	1	30,81
110104	87	2	1	5,42	110352/EN	75	1	1	25,63	110706	88	2	1	3,01	110816	71	1	1	32,21
110108	87	2	1	8,34	110354/125	75	1	1	85,19	110709	53,75	2	1	277,99	110818	71	1	1	44,41
110112	87	2	1	12,18	110354/250	75	1	1	86,30	110710	73	2	1	90,49	110820	71	1	1	18,51
110114	87	2	1	11,20	110354/EN	75	1	1	29,03	110711	88	2	1	1,18	110822	71	1	1	17,99
110120	87	2	1	18,64	110356/125	75	1	1	85,94	110712	73	2	1	90,49	110824	71	1	1	18,69
110130	87	2	1	39,82	110356/250	75	1	1	89,48	110713	73	2	1	90,					

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110872	70	1	1	42,95	120088	78	1	1	9,01	140216	109	2	1	138,89	143170	33	3	1	323,99
110873	73	1	1	1.846,64	120089	80	1	1	56,82	140218	109	2	1	291,09	143172	33	3	1	448,23
110874	70	1	1	42,95	120094	75	1	1	22,62	140220	109	2	1	623,80	143174	33	3	1	572,46
110876	70	1	1	42,95	120095	79	1	1	44,32	140222	109	2	1	32,25	143176	33	3	1	696,62
110878	70	1	1	45,26	120096	79	1	1	44,32	140224	109	2	1	31,62	143178	33	3	1	781,94
110880	70	1	1	45,95	120100	75	1	1	37,63	140226	109	2	1	31,62	143180	33,34	3	1	40,50
110882	70	1	1	46,92	120101	53,75	1	1	156,38	140228	109	2	1	89,53	143182	33,34	3	1	58,79
110884	70	1	1	47,52	120102	75	1	1	54,88	140230	109	2	1	87,66	143184	33,34	3	1	42,85
110886	70	1	1	48,91	120103	53,75	1	1	181,85	140232	109	2	1	159,69	143185	34	3	1	16,05
110888	70	1	1	48,91	120104	53,75	1	1	440,28	140234	109	2	1	155,89	143186	33	3	1	16,05
110890	70	1	1	51,82	120109	77	1	1	608,23	140236	109	2	1	29,03	143187	33	3	1	16,09
110892	70	1	1	51,82	120111	78	1	1	28,42	140238	109	2	1	33,97	143188	34	3	1	16,09
110900	87	2	1	113,21	120112	78	1	1	49,92	140240	109	2	1	51,36	143190	33,34	3	1	76,88
110900/10	87	2	1	13,66	120115	78	1	1	4,10	140242	109	2	1	70,24	143200	33,34	3	1	182,98
110900/12	87	2	1	14,84	120116	78	1	1	49,92	140244	109	2	1	110,84	143202	33,34	3	1	187,93
110900/13	87	2	1	15,37	120120	78	1	1	3,08	140246	109	2	1	240,02	143204	33,34	3	1	192,79
110900/14	87	2	1	16,46	120122	78	1	1	7,97	140248	109	2	1	332,52	143210	33	3	1	945,87
110900/17	87	2	1	20,86	120160	79	1	1	417,68	140250	109	2	1	7,45	143212	33	3	1	1.112,57
110900/19	87	2	1	23,28	120162	79	1	1	929,62	140252	109	2	1	7,45	143214	33	3	1	1.279,79
110900/8	87	2	1	13,24	120164	79	1	1	529,73	140254	109	2	1	8,52	143216	33	3	1	1.565,17
110900/9	87	2	1	13,66	120166	79	1	1	1.415,36	140256	109	2	1	12,35	143218	33	3	1	1.687,61
110902	87	2	1	144,50	120168	79	1	1	37,90	140258	109	2	1	12,24	143220	33	3	1	1.982,45
110902/10	87	2	1	24,72	120200	79	1	1	6.350,96	140260	109	2	1	21,05	143222	33	3	1	387,18
110902/12	87	2	1	26,41	120300/10	77	1	1	1,49	140262	109	2	1	19,33	143224	33	3	1	538,52
110902/13	87	2	1	27,71	120300/11	77	1	1	1,49	140510	96	2	1	5,65	143226	33	3	1	690,18
110902/14	87	2	1	29,72	120300/6	77	1	1	1,49	140520	96	2	1	5,65	143228	33	3	1	837,16
110902/17	87	2	1	33,69	120300/7	77	1	1	1,49	140530	96	2	1	5,65	143230	33	3	1	993,59
110902/19	87	2	1	36,68	120300/8	77	1	1	1,49	143000	31	3	1	190,60	143232	33	3	1	1.124,23
110902/8	87	2	1	23,35	120300/9	77	1	1	1,49	143002	31	3	1	213,19	143250	33	3	1	1.912,40
110902/9	87	2	1	24,06	120302/10	77	1	1	8,53	143002/ECO	31	3	1	191,74	143252	33	3	1	2.328,39
111737	89	2	1	38,22	120302/11	77	1	1	8,53	143004	31	3	1	73,21	143254	33	3	1	2.744,41
120002	76	1	1	13,24	120302/9	77	1	1	8,53	143006	31	3	1	96,86	143256	33	3	1	3.160,38
120003	77	1	1	8,70	120304/10	77	1	1	9,26	143008	31	3	1	3,85	143258	33	3	1	1.329,24
120004	77	1	1	55,61	120304/11	77	1	1	9,26	143010	31	3	1	8,10	143260	33	3	1	1.744,37
120005	77	1	1	55,61	120304/9	77	1	1	9,26	143012	31,32	3	1	8,13	143262	33	3	1	2.159,54
120006	77	1	1	66,16	120310	77	1	1	3,66	143014	31,32	3	1	8,35	143264	33	3	1	2.572,08
120006 561	77	1	1	101,09	121020/10	77	1	1	145,93	143016	31	3	1	3,85	143266	34	3	1	16,09
120006 564 S	77	1	1	119,57	121020/11	77	1	1	145,93	143018	31	3	1	3,80	143270	34	3	1	3.797,30
120006 587	77	1	1	140,42	121020/9	77	1	1	145,93	143020	31	3	1	21,96	143272	34	3	1	4.974,84
120007	77	1	1	66,16	121021/10	77	1	1	179,60	143024	31	3	1	7,20	143274	34	3	1	5.947,37
120007/1	77	1	1	66,16	121022/10	77	1	1	211,30	143026	31	3	1	12,03	143276	34	3	1	6.919,94
120008	78	1	1	29,52	121023/10	77	1	1	273,82	143028	31	3	1	58,86	143278	34	3	1	7.892,46
120008 GELB	78	1	1	29,52	121024/10	77	1	1	379,41	143030	31,32	3	1	8,54	143280	34	3	1	8.864,55
120008 ROT	78	1	1	29,52	130004	80	2	1	215,94	143050	32	3	1	388,92	143300	34	3	1	21,99
120008 WEISS	78	1	1	29,52	130006	80	2	1	248,49	143052	32	3	1	472,33	143302	34	3	1	24,71
120010	78	1	1	86,67	130042	80	2	1	37,96	143054	32	3	1	512,59	143304	34	3	1	32,94
120011	77	1	1	50,74	130044	80	2	1	53,14	143056	32	3	1	186,90	143306	34	3	1	36,15
120012	77	1	1	83,40	130064	80	2	1	177,05	143058	32	3	1	269,86	143308	34	3	1	40,18
120014	78	1	1	193,67	130066	80	2	1	206,14	143060	32	3	1	352,83	143310	34	3	1	41,30
120015	78	1	1	193,67	130068	80	2	1	285,81	143062	32	3	1	11,37	143312	34	3	1	43,96
120016	78	1	1	193,67	130200	101	2	1	12,66	143064	32	3	1	15,23	143314	34	3	1	84,45
120017	78	1	1	193,67	130201	101	2	1	14,19	143066	32	3	1	21,43	143316	34	3	1	97,94
120018	78	1	1	193,67	130202	101	2	1	15,71	143068	32	3	1	29,01	143318	34	3	1	92,93
120028	77	1	1	78,63	130203	101	2	1	19,93	143070	32	3	1	6,11	143320	34	3	1	106,54
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120030	79	1	1	92,16	130206	101	2	1	35,69	143100	32	3	1	485,61	143324	34	3	1	116,27
120031	79	1	1	921,60	130208	101	2	1	41,70	143102	32	3	1	598,15	143326	34	3	1	110,06
120033	79	1	1	1.116,68	130209	101	2	1	44,78	143104	32	3	1	735,31	143328	34	3	1	123,64
120034	78	1	1	305,07	130210	101	2	1	47,86	143105	32	3	1	858,58	143330	34	3	1	119,90
120037	77	1	1	92,56	130211	101	2	1	59,90	143106	32	3	1	504,15	143332	34	3	1	127,03
120040	79	1	1	9,71	130212	101	2	1	71,98	143108	32	3	1	629,19	143334	34	3	1	135,78
120041	78	1	1	64,36	130214	101	2	1	111,79	143110	32	3	1	753,77	143336	34	3	1	126,95
120042	79	1	1	34,93	130310	94	2	1	31,25	143111	32	3	1	878,43	143338	34	3	1	135,76
120044	79	1	1	130,35	130312	94	2	1	40,19	143112	32	3	1	540,19	143340	34	3	1	144,81
120046	79	1	1	123,36	130314	94	2	1	78,75	143114	32	3	1	664,83	143342	34	3	1	153,45
120048	79	1	1	433,67	130316	94	2	1	123,59	143116	32	3	1	789,88	143344	129	3	1	10,77
120049	79	1	1	17,83	130319	94	2	1	54,97	143117	32	3	1	914,48	143345	129	3	1	13,37
120050	79	1	1	18,34	130321	94	2	1	66,43	143118	32	3	1	249,25	143346	129	3	1	3,40
120051	66	1	1	76,94	130322	94	2	1	13,28	143120	32	3	1	373,86	143348	129	3	1	15,39
120052	66	1	1	57,30	130323	94	2	1	135,14	143122	32	3	1	498,07	143398	34	3	1	152,29
120057	80	1	1	40,42	130328	94	2	1	24,81	143124	32	3	1	622,74	143400	34	3	1	338,14
120058	80	1	1	42,88	130336	94	2	1	51,01	1431									

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143501	31	3	1	145,67	150364	80	2	1	25,24	170103	131	2	1	11,44	180321	100	2	1	9,20
143502	31	3	1	258,18	150366	80	2	1	44,64	170104	131	2	1	11,15	180323	100	2	1	12,13
143503	31	3	1	198,91	150368	80	2	1	35,05	170106	132	2	1	15,38	180334	101	2	1	19,91
143505	31	3	1	187,68	150370	80	2	1	64,28	170108	132	2	1	51,21	180336	101	2	1	75,57
143506	31	3	1	287,82	150375 BLAU	80	2	1	25,69	170112	131	2	1	14,77	180337	101	2	1	on request
143507	31	3	1	240,93	150375 GRÜN	80	2	1	25,70	170114	131	2	1	9,37	180338	101	2	1	106,76
143508	31	3	1	9,42	150375 ROT	80	2	1	25,70	170116	132	2	1	29,85	180339	101	2	1	on request
143509	31	3	1	9,42	150377	78	1	1	213,05	170118	132	2	1	59,40	180346	101	2	1	6,09
150002	98	2	1	2,99	150450	30	3	1	3,80	170126	132	2	1	23,79	180464	100	2	1	43,47
150004	98	2	1	6,28	150452	30	3	1	5,37	170127	132	2	1	41,89	180466	100	2	1	42,30
150006	98	2	1	1,81	150454	30	3	1	7,01	170128	132	2	1	117,51	180468	100	2	1	48,66
150008	98	2	1	13,27	150456	30	3	1	8,02	170129	132	2	1	88,67	180470	100	2	1	48,66
150010	98	2	1	16,24	150458	30	3	1	9,28	170140	130	2	1	17,29	180474	100	2	1	55,29
150012	98	2	1	15,50	150462	30	3	1	4,90	170141	130	2	1	17,29	180500	106	2	1	50,25
150015 B	96	2	1	1,01	150464	30	3	1	6,69	170142	130	2	1	17,29	180502	106	2	1	54,27
150015 G	96	2	1	1,01	150466	30	3	1	8,50	170150	130	2	1	14,17	180504	106	2	1	55,85
150015 R	96	2	1	1,01	150468	30	3	1	10,48	170152	130	2	1	12,95	180506	106	2	1	56,92
150015/1	96	2	1	21,99	150470	30	3	1	12,77	170153	130	2	1	14,16	180508	106	2	1	66,22
150019	96	2	1	21,00	150476	30	3	1	7,30	170154	129	2	1	14,17	180510	106	2	1	105,71
150024	98	2	1	2,48	150478	30	3	1	9,47	170156	130	2	1	15,38	180512	106	2	1	73,12
150025	96	2	1	33,03	150480	30	3	1	11,09	170158	130	2	1	15,97	180513	106	2	1	49,99
150026	98	2	1	2,64	150482	30	3	1	13,28	170160	130	2	1	15,97	180514	106	2	1	157,68
150027	96	2	1	22,03	150560	30	3	1	135,62	170162	130	2	1	9,37	180515	106	2	1	55,19
150028	98	2	1	2,76	150562	30	3	1	186,50	170164	131	2	1	8,80	180516	106	2	1	183,71
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150037	76	1	1	19,28	160004	133	2	1	35,29	170174	129	2	1	11,15	180520	106	2	1	66,22
150038	76	1	1	21,26	160006	133	2	1	57,78	170180	131	2	1	29,21	180521	106	2	1	125,20
150039	98	2	1	32,87	160008	133	2	1	138,04	170200	128	2	1	13,88	180523	106	2	1	162,18
150041	96	2	1	3,51	160012	133	2	1	14,69	170202	128	2	1	15,38	180525	106	2	1	191,01
150044	96	2	1	21,42	160014	133	2	1	34,95	170206	128	2	1	23,83	180530	106	2	1	6,80
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150152	30	3	1	10,59	160018	133	2	1	114,08	170212	128	2	1	23,24	180534	106	2	1	9,24
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150158	30	3	1	14,64	160024	133	2	1	69,87	170220	128	2	1	15,27	190132	101	2	1	42,29
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150202	30	3	1	14,91	160028	133	2	1	2,01	170224	128	2	1	10,97	200002	69	1	1	18,99
150204	30	3	1	20,50	160030	133	2	1	14,69	170226	128	2	1	9,37	200003	69	1	1	27,27
150206	30	3	1	25,89	160042	133	2	1	34,95	170232	129	2	1	12,54	200004	69	1	1	19,49
150208	30	3	1	30,55	160044	133	2	1	69,19	170234	128	2	1	3,60	200005	69	1	1	25,20
150210	30	3	1	36,87	160046	133	2	1	112,27	170236	128	2	1	1,18	200006	102	2	1	8,17
150220	30	3	1	3,97	160050	133	2	1	14,62	170238	129	2	1	24,01	200007	69	1	1	41,33
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150224	30	3	1	7,17	160054	133	2	1	56,44	170250	128	2	1	32,25	200009	69	1	1	19,11
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150238	30	3	1	12,77	160092	133	2	1	7,48	180010	100	2	1	15,27	200018	102	2	1	22,23
150239	30	3	1	15,71	160094	133	2	1	4,52	180012	100	2	1	16,77	200021	102	2	1	8,94
150240	79	1	1	188,18	160096	133	2	1	6,29	180042	100	2	1	13,39	200022	7	3	1	64,99
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150245	30	3	1	10,81	160112	133	2	1	14,55	180064	100	2	1	16,03	200024	7	3	1	17,68
150247	30	3	1	15,20	160114	133	2	1	16,72	180076	100	2	1	14,05	200025	102	2	1	5,28
150258	79	1	1	662,91	160130	133	2	1	5,10	180082	100	2	1	13,85	200025/KL	102	2	1	1,69
150270	79	1	1	186,17	160142	133	2	1	52,41	180084	100	2	1	15,76	200027	102	2	1	9,55
150274	79	1	1	157,53	160144	133	2	1	58,86	180090	100	2	1	8,26	200028	102	2	1	7,17
150275	79	1	1	390,24	160146	133	2	1	55,54	180092	100	2	1	8,70	200030	102	2	1	0,92
150276	79	1	1	417,45	160150	133	2	1	44,41	180094	100	2	1	9,45	200031	7	3	1	19,63
150277	79	1	1	511,32	160190	133	2	1	50,49	180110	100	2	1	8,81	200032	102	2	1	2,01
150278	79	1	1	472,58	160402	134	2	1	23,29	180120	100	2	1	5,63	200033	8	3	1	45,45
150279	79	1	1	494,02	160404	134	2	1	50,61	180170	100	2	1	54,94	200036	7	3	1	25,73
150280	79	1	1	1.182,29	160406	134	2	1	112,20	180173	100	2	1	22,32	200037	7	3	1	25,73
150302	79	1	1	288,31	160408	134	2	1	198,52	180182	100	2	1	8,56	200038	7	3	1	18,16
150304	79	1	1	280,45	160414	134	2	1	50,18	180184	100	2	1	10,88	200039	8	3	1	68,68
150306	79	1	1	234,01	160416	134	2	1	99,64	180186	100	2	1	11,39	200040	7	3	1	18,16
150308	79	1	1	223,77	160418	134	2	1	199,52	180188	100	2	1	12,21	200042	7	3	1	21,65
150310	79	1	1	213,49	160420	134	2	1	23,29	180200	100								

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200087	3	3	1	155,96	200522	10	3	1	3.331,38	210624	8	3	1	15,25	210979/B	11	3	1	281,67
200088	3	3	1	60,04	200524	9	3	1	1.523,87	210644	91	2	1	24,69	211060	76	1	1	30,47
200088/VDE	66	1	1	75,15	200524/1	9	3	1	126,42	210648	66	1	1	52,77	211062	76	1	1	31,61
200089	4	3	1	292,55	200526	9	3	1	446,07	210682	11	3	1	582,65	211064	76	1	1	29,80
200095	3	3	1	125,87	200528	9	3	1	632,21	210684	8	3	1	91,02	211080	92	2	1	26,07
200095/MK	3	3	1	81,29	200630	7	3	1	67,09	210685	8	3	1	133,67	211198	65	1	1	25,26
200099	3	3	1	186,40	200632	7	3	1	67,09	210686	8	3	1	100,63	211199	65	1	1	25,71
200099/MK	3	3	1	119,54	200634	7	3	1	67,09	210691	8	3	1	32,55	211200	65	1	1	26,16
200100	3	3	1	484,42	200636	7	3	1	23,23	210692	8	3	1	32,65	211202	65	1	1	28,60
200104	3	3	1	315,68	200637	8	3	1	43,20	210693	9	3	1	209,46	211203	65	1	1	38,16
200105	3	3	1	69,81	200638	8	3	1	68,82	210693/1	9	3	1	91,33	211204	65	1	1	27,62
200109	68	1	1	995,20	201000	3	3	1	104,30	210695	8	3	1	37,17	211206	65	1	1	30,45
200110	68	1	1	410,42	201002	3	3	1	28,66	210695/E	8	3	1	11,13	211207	65	1	1	49,86
200111	4	3	1	337,95	201002/VDE	68	1	1	72,05	210696	8	3	1	55,83	211208	65	1	1	31,44
200112	4	3	1	420,78	201010	69	1	1	18,58	210696/2	8	3	1	17,69	211209	65	1	1	33,41
200113	4	3	1	428,91	201012	69	1	1	24,81	210697	9	3	1	106,64	211210	65	1	1	34,46
200114	4	3	1	610,77	201040	7	3	1	66,69	210698	8	1	1	61,07	211211	65	1	1	35,66
200115	4	3	1	1.178,96	201042	7	3	1	18,95	210699	9	3	1	106,64	211212	65	1	1	24,19
200116	4	3	1	783,67	201044	7	3	1	18,95	210700	80	2	1	133,42	211213	65	1	1	30,68
200119	4	3	1	1.496,25	201045	7	3	1	33,57	210702	80	2	1	142,39	211214	65	1	1	28,43
200120	68	1	1	119,85	201046	7	3	1	22,30	210704	80	2	1	158,74	211216	65	1	1	24,32
200123	68	1	1	273,16	201048	7	3	1	22,30	210710	80	2	1	5,26	211217	65	1	1	36,51
200124	5	3	1	394,31	201050	7	3	1	22,30	210712	80	2	1	5,26	211219	65	1	1	39,26
200126	5	3	1	504,27	201052	7	3	1	16,31	210714	80	2	1	5,14	211221	65	1	1	46,24
200127	68	1	1	80,82	201054	7	3	1	171,26	210729	9	3	1	147,53	211223	65	1	1	43,04
200128	68	1	1	127,38	201058	7	3	1	28,22	210730	9	3	1	146,67	211224	65	1	1	95,27
200129	68	1	1	127,27	201059	7	3	1	3,36	210731	80	2	1	35,52	211225	65	1	1	28,35
200130	68	1	1	1.026,16	201060	8	3	1	59,85	210732	80	2	1	11,84	211226	65	1	1	55,72
200131	5	3	1	813,95	201085	3	3	1	17,79	210733	80	2	1	35,40	211228	65	1	1	66,70
200132	68	1	1	643,65	201086	3	3	1	34,27	210761	12	3	1	59,51	211229	65	1	1	77,22
200140	103	2	1	39,31	201087	3	3	1	19,99	210761/E	15	3	1	26,69	211650	11	3	1	76,43
200141	68	1	1	497,42	201088	3	3	1	36,72	210762	12	3	1	83,57	211652	11	3	1	76,43
200149	69	1	1	2.489,23	201090	91	2	1	49,74	210762/E	15	3	1	28,34	211656	12	3	1	76,43
200151	5	3	1	1.570,30	210052	91	2	1	24,13	210763	11	3	1	59,51	211657	10	3	1	75,77
200155	3	2	1	15,53	210053	91	2	1	25,58	210763/E	15	3	1	26,69	211657/E	15	3	1	26,69
200170	3	2	1	34,50	210054	91	2	1	25,67	210764	13	3	1	69,43	211658	12	3	1	76,43
200173	3	3	1	17,21	210056	66	1	1	49,92	210764/E	15	3	1	26,69	211659	10	3	1	74,63
200175	4	3	1	66,96	210058	66	1	1	54,84	210765	11	3	1	59,51	211659/E	15	3	1	26,69
200177	4	3	1	511,67	210067	91	2	1	23,25	210765/E	15	3	1	26,69	211660	12	3	1	76,43
200178	4	3	1	748,86	210068	91	2	1	25,32	210767	12	3	1	80,99	211662	12	3	1	82,28
200178/B	4	3	1	49,91	210069	91	2	1	29,21	210767/E	15	3	1	26,69	211672	11	3	1	76,65
200178/C	4	3	1	49,91	210100	66	1	1	51,25	210768	11	3	1	111,25	211672/E	15	3	1	26,69
200178/S	4	3	1	49,91	210102	66	1	1	61,98	210770	92	2	1	12,70	211674	11	3	1	88,58
200178/S1	4	3	1	49,91	210110	66	1	1	122,55	210771	13	3	1	55,78	211676	11	3	1	76,65
200178/S2	4	3	1	49,91	210117	66	1	1	50,10	210772	13	3	1	64,52	211676/E	15	3	1	30,34
200179	4	3	1	1.673,71	210119	66	1	1	55,88	210774	13	3	1	75,06	211678	11	3	1	88,58
200181	4	3	1	138,69	210156	91	2	1	32,14	210776	92	2	1	27,00	211680	12	3	1	62,23
200183	4	3	1	306,72	210157	91	2	1	33,41	210777	12	3	1	97,55	211682	12	3	1	76,37
200185	3	2	1	28,92	210158	91	2	1	35,01	210778	13	3	1	97,55	211690	15	3	1	100,10
200187	9	3	1	594,54	210263	67	1	1	111,15	210779	13	3	1	76,43	211692	15	3	1	256,26
200188	9	3	1	703,77	210264	67	1	1	119,28	210784	15	3	1	59,02	211695	12	3	1	62,25
200190	103	2	1	34,62	210265	67	1	1	124,70	210784/E	16	3	1	58,93	211697	10	3	1	262,47
200192	103	2	1	7,88	210266	67	1	1	116,81	210785	12	3	1	121,45	211708	92	2	1	23,11
200193	68	1	1	1.993,42	210267	67	1	1	122,87	210786	12	3	1	121,45	211720	92	2	1	23,56
200194	103	2	1	35,90	210270	66	1	1	50,25	210788	11	3	1	266,08	211722	92	2	1	27,98
200195	68	1	1	2.583,12	210296	66	1	1	48,57	210789	11	3	1	283,82	211805	11	3	1	313,14
200196	103	2	1	7,88	210297	67	1	1	131,13	210791	13	3	1	315,36	211810	11	3	1	299,48
200197	3	3	1	153,02	210298	67	1	1	198,98	210799	13	3	1	147,52	211816	11	3	1	258,23
200198	68	1	1	755,67	210299	67	1	1	105,67	210802	12	3	1	7,20	211818	11	3	1	328,89
200199	4	3	1	605,48	210300	67	1	1	102,85	210804	11	3	1	277,31	211850	92	2	1	17,15
200201	68	1	1	39,96	210301	67	1	1	125,33	210805	13	3	1	214,89	211852	92	2	1	18,28
200208	3	2	1	52,97	210302	67	1	1	140,83	210805 K	13	3	1	214,89	211854	92	2	1	17,15
200209	102	2	1	11,80	210303	66	1	1	62,19	210808	12	3	1	9,66	211856	92	2	1	18,28
200214	3	3	1	70,09	210313	91	2	1	19,07	210818	11	3	1	24,93	211858	92	2	1	18,28
200215	3	3	1	31,54	210350	91	2	1	20,17	210819	11	3	1	341,97	211860	93	2	1	19,35
200216	3	3	1	90,19	210388	66	1	1	56,27	210820	11	3	1	38,94	211862	93	2	1	17,71
200217	3	3	1	37,27	210390	66	1	1	59,57	210824	11	3	1	51,52	211864	93	2	1	18,83
200218	3	3	1	123,96	210394	91	2	1	26,54	210826	11	3	1	51,52	211866	93	2	1	16,60
200219	3	3	1	65,34	210396	91	2	1	27,71	210827	12	3	1	185,66	211868	93	2	1	19,35
200220	102	2	1	7,58	210397	91	2	1	23,60	210830	13	3	1	144,14	211870	93	2	1	17,71
200221	102	2	1	7,58	210398	91	2	1	30,16	210836	13	3	1	491,65	211872	93	2	1	17,71
200222	102	2	1	11,13	210556	92	2	1	49,64	210838	13	3	1	536,05	211874	93	2	1	18,28
200223	102	2	1	9,43	210562	92	2	1	34,30	210840	13	3	1	575,16	211875	93	2	1	19,10
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211965	16	3	1	45,74	213082	12,14	3	1	632,15	215222	17	3	1	139,99	216020/AL	24	3	1	92,79
211968	16	3	1	46,32	213082/E	15	3	1	379,30	215224	17	3	1	139,99	216020/V	24	3	1	73,20
211969	16	3	1	46,32	213084	10,14	3	1	632,15	215226	17	3	1	139,99	216022	24	3	1	73,20
211970	16	3	1	45,70	213084/E	10,15	3	1	379,30	215228	17	3	1	139,99	216022/AL	24	3	1	92,79
211971	16	3	1	46,32	213086	14	3	1	632,15	215230	17	3	1	171,75	216022/V	24	3	1	73,20
211972	16	3	1	45,70	213086/E	14	3	1	379,30	215232	17	3	1	171,75	216024	24	3	1	73,20
211973	16	3	1	45,70	213088	11	3	1	212,33	215234	17	3	1	171,75	216024/AL	24	3	1	92,79
211980	16	3	1	70,30	213090	12	3	1	187,02	215236	17	3	1	171,75	216024/V	24	3	1	73,20
211981	16	3	1	70,30	213092	13	3	1	187,02	215238	17	3	1	180,33	216026	24	3	1	73,20
211982	16	3	1	66,58	213094	13	3	1	237,59	215240	17	3	1	171,75	216026/AL	24	3	1	92,79
211985	16	3	1	68,58	213096	10	3	1	187,02	215242	17	3	1	171,75	216026/V	24	3	1	73,20
211990	16	3	1	36,92	213098	14	3	1	479,66	215244	17	3	1	171,75	216028	24	3	1	73,20
211991	16	3	1	36,92	213098/E	15	3	1	278,04	215246	17	3	1	185,46	216028/AL	24	3	1	92,79
211992	16	3	1	37,02	213100	14	3	1	833,10	215248	17	3	1	180,33	216028/V	24	3	1	73,20
211993	16	3	1	37,02	213102	14	3	1	479,66	215250	17	3	1	171,75	216030	24	3	1	73,20
211994	16	3	1	37,02	213102/E	15	3	1	278,04	215503	27	6	1	371,66	216030/V	24	3	1	73,20
211995	16	3	1	36,92	215000	16	6	1	865,16	215511	27	6	1	422,26	216032	24	3	1	73,20
211996	16	3	1	47,48	215002	16	3	1	91,13	215513	27	6	1	309,21	216032/V	24	3	1	73,20
211997	16	3	1	49,15	215004	16	3	1	129,04	215523	27	6	1	133,16	216036	24	3	1	73,20
211998	16	3	1	34,87	215006	16	3	1	129,04	215525	27	6	1	171,21	216038	24	3	1	73,20
211999	16	3	1	34,99	215008	16	3	1	128,65	215527	27	6	1	114,12	216040	24	3	1	72,64
212000	16	3	1	34,99	215010	16	3	1	128,65	215529	27	6	1	126,93	216042	24	3	1	72,64
212005	10	3	1	330,22	215012	16	3	1	128,44	215531	27	6	1	126,93	216042/AL	24	6	1	127,62
212007	16	3	1	90,62	215014	16	3	1	98,46	215533	27	6	1	145,02	216044	24	3	1	73,20
212008	16	3	1	93,01	215016	16	3	1	98,46	215641	19	3	1	88,63	216044/AL	24	6	1	127,62
212200	10	3	1	392,56	215018	16	3	1	98,46	215642	19	3	1	88,63	216046	24	3	1	73,20
212206	10	3	1	302,67	215020	16	3	1	98,47	215643	19	3	1	88,63	216046/AL	24	6	1	127,62
212208	10	3	1	297,76	215022	16	3	1	98,46	215644	19	3	1	88,63	216048	24	3	1	73,20
212210	10	3	1	310,06	215024	16	3	1	98,96	215645	19	3	1	73,20	216048/AL	24	6	1	127,62
212212	10	3	1	155,16	215026	16	3	1	171,75	215646	19	3	1	73,20	216050	24	3	1	73,20
212214	10	3	1	335,26	215028	16	3	1	171,78	215648	19	3	1	73,20	216052	24	3	1	73,20
212216	10	3	1	158,98	215030	16	3	1	129,04	215650	19	3	1	88,63	216052/AL	24	6	1	127,62
212218	10	3	1	269,37	215032	16	3	1	129,04	215651	19	3	1	88,03	216054	24	3	1	73,20
212220	10	3	1	471,50	215034	16	3	1	129,04	215652	19	3	1	88,03	216054/AL	24	6	1	127,62
212222	10	3	1	152,02	215036	16	3	1	129,04	215653	19	3	1	88,03	216056	24	3	1	73,20
212226	10	3	1	310,06	215038	16	3	1	128,65	215654	19	3	1	73,20	216056/AL	24	6	1	127,62
212228	10	3	1	212,27	215040	16	3	1	129,04	215655	19	3	1	73,20	216060	24	3	1	73,20
212372	28	3	1	391,38	215042	16	3	1	197,86	215765	19	6	1	1.000,35	216060/AL	24	6	1	127,62
212376	28	3	1	391,38	215044	16	3	1	197,86	215770-1	19	6	1	1.991,20	216062/AL	24	3	1	92,79
212380	28	3	1	426,59	215046	16	3	1	199,05	215770-1-N	19	6	1	1.590,77	216064	24	3	1	35,41
212382	28	3	1	391,38	215048	16	3	1	199,05	215770-1-NO	19	6	1	1.793,90	216065	24	3	1	35,41
212384	28	3	1	391,38	215050	16	3	1	199,05	215770/M-1	19	6	1	2.579,15	216066	24	3	1	35,41
212388	28	3	1	391,38	215100	17	6	1	1.095,56	215770/M-1-N	19	6	1	2.186,93	216067	24	3	1	35,41
212390	28	3	1	426,37	215102	17	3	1	123,19	215770/M-1-NO	19	6	1	2.368,75	216068	24	3	1	35,41
212392	28	3	1	407,06	215104	17	3	1	143,70	215800	19	6	1	1.833,93	216069	24	3	1	35,41
212394	28	3	1	426,59	215106	17	3	1	143,70	215852	19	3	1	87,67	216070	24	3	1	35,41
212396	28	3	1	429,86	215108	17	3	1	143,70	215854	19	3	1	87,67	216071	24	3	1	35,41
212580	28	3	1	405,26	215110	17	3	1	138,49	215856	19	3	1	82,99	216072	24	3	1	35,41
212581	28	3	1	405,26	215112	17	3	1	143,80	215858	19	3	1	87,67	216074	24	3	1	35,41
212582	28	3	1	405,26	215114	17	3	1	143,70	215859	19	3	1	87,67	216076	24	3	1	35,41
212583	28	3	1	405,26	215116	17	3	1	151,36	215860	19	3	1	87,67	216078	24	3	1	35,41
212584	28	3	1	405,26	215118	17	3	1	156,22	215861	19	3	1	87,67	216080	24	3	1	35,41
212585	28	3	1	405,26	215120	17	3	1	106,55	215862	19	3	1	87,70	216082	24	3	1	35,41
212586	28	3	1	405,26	215122	17	3	1	97,25	215864	19	3	1	87,67	216084	24	3	1	35,41
212587	28	3	1	405,26	215124	17	3	1	254,15	215866	19	3	1	87,67	216086	24	3	1	35,41
212588	28	3	1	405,26	215126	17	3	1	254,15	215868	19	3	1	87,67	216088	24	3	1	69,41
212804	11	3	1	156,67	215128	17	3	1	254,15	215869	19	3	1	87,67	216090	24	3	1	69,41
212806	11	3	1	161,83	215130	17	3	1	281,92	215870	19	3	1	87,67	216092	24	3	1	69,41
213000	13	3	1	187,00	215142	17	3	1	143,70	215872	19	3	1	87,67	216094	24	3	1	69,41
213002	14	3	1	65,08	215144	17	3	1	143,70	215881-1	19	6	1	2.176,22	216096	24	3	1	69,41
213004	14	3	1	65,08	215146	17	3	1	143,70	215881-1-N	19	6	1	1.765,58	216098	24	3	1	69,41
213006	14	3	1	65,08	215148	17	3	1	137,26	215881-1-NO	19	6	1	1.957,63	216100	24	3	1	69,41
213008	14	3	1	65,08	215150	17	3	1	137,26	215881/M-1	19	6	1	2.677,13	216112	24	3	1	73,20
213010	14	3	1	65,08	215152	17	3	1	137,18	215881/M-1-N	19	6	1	2.284,88	216114	24	3	1	73,20
213012	14	3	1	81,32	215154	17	3	1	143,70	215881/M-1-NO	19	6	1	2.466,17	216116	24	3	1	73,20
213014	14	3	1	81,32	215156	17	3	1	137,18	215946	23	6	1	2.072,42	216118	24	3	1	73,20
213020	14	3	1	214,18	215164	17	3	1	250,48	215980	23	6	1	990,65	216120	24	3	1	81,54
213022	14	3	1	203,29	215166	17	3	1	250,48	216004	23	6	1	619,51	216122	24	3	1	73,20
213024	14	3	1	210,68	215168	17	3	1	250,48	216005	23	6	1	785,24	216123	24	3	1	73,20
213026	14	3	1	238,84	215170	17	3	1	266,07	216008	24	3	1	73,20	216124	23	6	1	2.067,16
213028	14	3	1	242,78	215172	17	3	1	266,28	216008/V	24	3	1	73,20	216125	23	6	1	1.798,12
213030	14	3	1	242,78	215200	17	6	1	1.851,83	216010	24	3	1	73					

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216156	25	3	1	258,41	216436/F-1-NO	6	6	1	1.707,30	216779	29	6	1	270,49	216838	21	3	1	80,34
216157	25	3	1	89,25	216503-1	23	6	1	5.639,59	216779/L	29	6	1	546,48	216840	21	3	1	80,34
216160	24	3	1	213,63	216503-1-N	23	6	1	4.977,18	216780	29	6	1	270,49	216840/AL	22	3	1	78,09
216162	24	3	1	213,63	216503-1-NO	23	6	1	5.318,65	216780/L	29	6	1	546,48	216840/AL-SET	21	6	1	858,97
216164	24	3	1	213,63	216552	25	3	1	264,93	216781	29	6	1	270,49	216842	21	3	1	80,34
216166	24	3	1	213,63	216554	25	3	1	264,93	216781/L	29	6	1	546,48	216842/AL	22	3	1	78,09
216168	24	3	1	213,63	216556	25	3	1	264,93	216782	29	6	1	335,86	216844	21	3	1	80,34
216170	24	3	1	202,66	216562	25	3	1	347,19	216782/L	29	6	1	546,48	216844/AL	22	3	1	78,09
216172	24	3	1	213,63	216564	25	3	1	347,19	216783	29	6	1	270,49	216846	21	3	1	80,34
216174	24	3	1	213,63	216566	25	3	1	347,19	216783/L	29	6	1	546,48	216846/AL	22	3	1	78,09
216176	24	3	1	213,63	216570	25	3	1	51,29	216784	29	6	1	270,49	216848	21	3	1	80,34
216178	24	3	1	151,29	216574	25	3	1	51,29	216784/L	29	6	1	546,48	216850	21	3	1	80,34
216180	24	3	1	151,29	216576	25	3	1	51,29	216785	29	6	1	270,49	216850/AL	22	3	1	78,09
216182	24	3	1	151,29	216578	25	3	1	51,29	216785/L	29	6	1	546,48	216852	21	3	1	80,34
216236	28	6	1	2.227,96	216580	25	3	1	218,99	216786	29	6	1	334,90	216852/AL	22	3	1	78,09
216250	28	6	1	5.050,82	216582	25	3	1	218,99	216786/L	29	6	1	768,02	216854	21	3	1	80,34
216254	27	3	1	20,06	216601-1	23	6	1	3.970,00	216787	29	6	1	334,90	216854/AL	22	3	1	78,09
216304	28	3	1	620,87	216601-1-N	23	6	1	3.276,29	216787/L	29	6	1	768,02	216856	21	3	1	80,34
216306	28	3	1	620,87	216601-1-NO	23	6	1	3.688,09	216788	29	6	1	334,90	216856/AL	22	3	1	78,09
216308	28	3	1	620,87	216622-1	23	6	1	4.100,37	216788/L	29	6	1	768,02	216858/AL	22	3	1	78,09
216310	28	3	1	620,87	216622-1-N	23	6	1	3.341,69	216789	29	6	1	334,90	216863	22	3	1	93,70
216312	28	3	1	620,87	216622-1-NO	23	6	1	3.964,20	216789/L	29	6	1	768,02	216865	22	3	1	93,70
216314	28	3	1	620,87	216625-1	22	6	1	4.939,70	216790	30	6	1	3.840,16	216867	22	3	1	93,70
216316	28	3	1	620,87	216625-1-N	22	6	1	4.309,90	216791	30	6	1	4.430,93	216869	22	3	1	93,70
216318	28	3	1	620,87	216625-1-NO	22	6	1	4.634,20	216792	30	6	1	3.249,37	216871	22	3	1	93,70
216320	28	3	1	620,87	216626	22	6	1	968,20	216793	30	6	1	457,87	216873	22	3	1	93,70
216322	28	3	1	620,87	216627	22	6	1	1.076,30	216794	30	6	1	457,87	216875	22	3	1	93,70
216324	28	3	1	620,87	216628	22	6	1	2.100,90	216800-1	20	6	1	2.813,66	216877	22	3	1	93,70
216326	28	3	1	620,87	216660	25	6	1	2.495,37	216800-1-N	20	6	1	2.008,84	216878	21	3	1	195,24
216328	28	3	1	620,87	216660/B	26	3	1	8,35	216800-1-NO	20	6	1	2.313,42	216880	21	3	1	195,24
216330	28	3	1	620,87	216660/L	26	3	1	2,79	216801-1	20	6	1	2.176,22	216882	21	3	1	195,24
216332	28	3	1	620,87	216661	26	6	1	2.195,40	216801-1-N	20	6	1	1.715,46	216884	21	3	1	195,24
216334	28	3	1	620,87	216663-1	25	6	1	2.532,10	216801-1-NO	20	6	1	1.951,07	216886	21	3	1	195,24
216336	28	3	1	620,87	216663-1-N	25	6	1	2.116,64	216801/M-1	20	6	1	2.320,45	216888	21	3	1	195,24
216338	28	3	1	620,87	216663-1-NO	25	6	1	2.309,22	216801/M-1-N	20	6	1	2.339,98	216890	21	3	1	195,24
216340	28	3	1	620,87	216663/M-1	25	6	1	3.041,67	216801/M-1-NO	20	6	1	2.583,82	216892	21	3	1	195,24
216348	28	6	1	2.233,34	216663/M-1-N	25	6	1	2.632,15	216802	20	6	1	1.687,02	216894	21	3	1	195,24
216352	28	6	1	9.511,94	216663/M-1-NO	25	6	1	2.820,95	216804	20	3	1	722,64	216896	21	3	1	151,29
216355	28	6	1	4.704,07	216665	25	6	1	943,08	216805-SET	20	6	1	1.053,67	216898	21	3	1	151,29
216357	28	6	1	5.256,80	216665-U	18	6	1	1.338,66	216806	21	3	1	73,20	216899	21	3	1	151,29
216359	30	6	1	7.864,64	216666	26	6	1	990,65	216806/V	21	3	1	88,63	216926	21	3	1	175,35
216364	28	3	1	832,34	216666-U	18	6	1	1.422,33	216807	20	6	1	1.026,39	216928	21	3	1	175,35
216402	5	6	1	1.903,22	216667-1	26	6	1	2.649,70	216808	21	3	1	80,34	216930	21	3	1	175,35
216404	5	6	1	4.019,30	216667-1-N	26	6	1	2.232,82	216808/V	21	3	1	80,34	216932	21	3	1	175,35
216408	5	6	1	3.133,79	216667-1-NO	26	6	1	2.427,01	216810	21	3	1	80,34	216934	21	3	1	175,35
216410	5	6	1	3.814,53	216667/M-1	26	6	1	3.159,26	216810/V	21	3	1	80,34	216936	21	3	1	175,35
216415	5	6	1	3.734,56	216667/M-1-N	26	6	1	2.751,17	216812	21	3	1	80,34	216938	21	3	1	175,35
216416	5	6	1	8.769,22	216667/M-1-NO	26	6	1	2.941,61	216812/AL	22	3	1	95,20	216940	21	3	1	175,35
216416/850	5	6	1	8.769,22	216668/M-1	26	6	1	5.615,75	216812/AL-SET	21	6	1	951,94	216942	21	3	1	175,35
216417	5	6	1	6.603,10	216668/M-1-N	26	6	1	4.922,05	216812/V	21	3	1	80,34	216944	21	3	1	175,35
216418-1	6	6	1	2.706,76	216668/M-1-NO	26	6	1	5.333,85	216813	22	3	1	82,82	216946	21	3	1	175,35
216418-1-N	6	6	1	2.222,83	216669-1	25	6	1	1.812,36	216814	21	3	1	80,34	216952	21	3	1	80,34
216418-1-NO	6	6	1	2.568,29	216669-1-N	25	6	1	1.489,04	216814/AL	22	3	1	78,09	216954	21	3	1	80,34
216419-1	6	6	1	2.755,27	216669-1-NO	25	6	1	1.858,89	216814/V	21	3	1	80,34	216956	21	3	1	80,34
216419-1-N	6	6	1	2.260,55	216669/M-1	25	6	1	2.163,22	216815	22	3	1	82,82	216958	21	3	1	80,34
216419-1-NO	6	6	1	2.500,77	216669/M-1-N	25	6	1	1.840,32	216816	21	3	1	80,34	216960	21	3	1	80,34
216420-1	6	6	1	3.534,12	216669/M-1-NO	25	6	1	2.003,47	216816/AL	22	3	1	78,09	216962	21	3	1	80,34
216420-1-N	6	6	1	2.679,00	216670	21	1	1	84,28	216816/V	21	3	1	80,34	216964	21	3	1	80,34
216420-1-NO	6	6	1	2.913,48	216672	21	1	1	84,28	216817	22	3	1	82,82	216966	21	3	1	80,34
216421	5	6	1	8.752,93	216674	21	1	1	84,28	216818	21	3	1	80,34	216968	21	3	1	80,34
216422-1	6	6	1	2.991,62	216676	21	1	1	84,28	216818/AL	22	3	1	78,09	216970	21	3	1	80,34
216422-1-N	6	6	1	2.898,44	216678	21	1	1	84,28	216818/V	21	3	1	80,34	216972	21	3	1	80,34
216422-1-NO	6	6	1	2.683,17	216680	21	1	1	84,28	216819	22	3	1	82,82	216984	22	3	1	76,15
216424-1	6	6	1	3.856,57	216682	21	1	1	84,28	216820	21	3	1	80,34	216984/25	22	3	1	

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217076	16	3	1	203,20	220147	73	1	1	1.196,44	220402	72	1	1	437,59	220644	127	2	1	730,26
217078	16	3	1	76,19	220148	67	1	1	752,40	220404	74	1	1	577,33	220650	125	2	1	157,19
217080	16	3	1	76,19	220152/1	119	2	1	734,95	220410	72	1	1	106,32	220652	78	2	1	438,71
217082	16	3	1	76,19	220153	123	2	1	545,24	220412	72	1	1	84,52	220653	125	2	1	146,65
217084	16	3	1	76,19	220154	119	2	1	803,80	220414	72	1	1	56,29	220654	125	3	1	225,32
217086	16	3	1	76,19	220156	119	2	1	1.038,24	220415	72	1	1	572,83	220655	126	2	1	36,18
217088	16	3	1	171,23	220168	119	2	1	433,06	220416	72	1	1	68,42	220703	115	1	1	82,33
217090	16	3	1	280,31	220168/VDE	119	2	1	459,08	220418	72	1	1	10,56	220704	115	1	1	139,00
217092	16	3	1	171,23	220169	119	2	1	492,26	220418/80	72	1	1	20,18	220705	118	2	1	657,90
217094	16	3	1	171,23	220170	122	2	1	534,99	220420	72	1	1	10,56	220706	118	2	1	270,30
217096	16	3	1	171,23	220171	122	2	1	1.640,04	220420/80	72	1	1	20,70	220770	125	3	1	115,02
217098	16	3	1	171,23	220176	123	2	1	821,18	220422	72	1	1	10,96	220800	117	2	1	339,60
217100	26	6	1	1.542,86	220177	123	2	1	1.075,67	220422/80	72	1	1	22,65	220802	117	2	1	346,03
217101	26	6	1	551,01	220179	123	2	1	1.064,91	220424	72	1	1	11,19	220804	117	2	1	328,80
217102	26	6	1	1.665,30	220192	123	2	1	891,70	220424/80	72	1	1	23,78	220805	118	2	1	912,51
217103	27	6	1	1.542,86	220193	124	2	1	48,26	220426	72	1	1	11,93	220810	117	2	1	1.195,97
217104	27	6	1	1.542,86	220205/EN	75	1	1	1.010,62	220426/80	72	1	1	23,78	220812	117	2	1	446,45
217105	27	6	1	1.542,86	220211	116	2	1	199,98	220428	72	1	1	13,08	220814	117	2	1	427,64
217107	27	6	1	795,93	220212	73	1	1	730,08	220428/80	72	1	1	26,18	221131	124	2	1	52,43
217602	29	6	1	1.133,46	220213	116	2	1	141,43	220430	72	1	1	14,33	221133	124	2	1	28,92
217604	29	6	1	1.320,90	220221	121	2	1	459,01	220430/80	72	1	1	27,98	221134	126	2	1	0,85
217610	29	3	1	60,08	220224	115	2	1	42,28	220432	72	1	1	15,92	221135	126	2	1	1,21
217612	29	3	1	77,91	220229	123	2	1	773,39	220434	72	1	1	12,34	221136	126	2	1	2,05
217614	29	3	1	81,01	220232	121	1	1	985,48	220434/122	72	1	1	22,05	221137	126	2	1	2,61
217616	29	3	1	96,65	220235	121	2	1	474,55	220436	72	1	1	12,34	221138	126	2	1	7,21
217618	29	3	1	120,14	220239	123	1	1	1.990,33	220436/122	72	1	1	22,05	221277	116	2	1	365,20
217620	29	3	1	180,22	220244	123	2	1	575,09	220438	72	1	1	12,57	221278	116	2	1	463,82
217622	29	3	1	222,74	220248	120	2	1	928,83	220438/122	72	1	1	22,05	221279	116	2	1	849,05
217630	29	3	1	60,08	220252	122	2	1	538,42	220440	72	1	1	14,33	221280	116	2	1	425,14
217632	29	3	1	76,05	220254	122	2	1	1.171,15	220440/122	72	1	1	22,05	230002	108	2	1	201,35
217634	29	3	1	77,91	220255	121	2	1	500,00	220450	74	1	1	139,79	230010	104	2	1	1,43
217636	29	3	1	80,09	220263	124	2	1	594,56	220452	74	1	1	88,84	230020	104	2	1	1,51
217638	29	3	1	87,59	220264	124	2	1	756,60	220454	74	1	1	59,92	230020/CO	104	2	1	1,16
217640	29	3	1	114,20	220265	115	2	1	185,95	220456	74	1	1	74,23	230030	104	2	1	1,81
217642	29	3	1	171,11	220267	121	2	1	464,52	220458	74	1	1	13,69	230030/CO	104	2	1	1,30
217644	29	3	1	200,19	220268	121	2	1	725,49	220460	74	1	1	13,69	230032	104	2	1	1,81
217646	29	3	1	219,62	220269	121	2	1	391,14	220462	74	1	1	13,69	230032/CO	104	2	1	2,02
217650	29	3	1	1.678,63	220272	122	2	1	1.421,48	220464	74	1	1	13,69	230040	104	2	1	1,81
217652	29	3	1	2.174,56	220273	121	2	1	920,64	220466	74	1	1	13,83	230040/CO	104	2	1	2,02
217654	29	3	1	3.020,13	220280	116	2	1	164,78	220468	74	1	1	14,70	230050	104	2	1	1,96
217660	29	3	1	27,21	220281	116	2	1	321,76	220470	74	1	1	15,41	230050/CO	104	2	1	2,58
217662	29	3	1	63,18	220282	116	2	1	200,18	220478	74	1	1	18,07	230060	104	2	1	2,64
217664	29	3	1	17,82	220292	115	2	1	172,02	220480	74	1	1	18,66	230060/CO	104	2	1	3,83
217666	29	3	1	22,19	220293	118	2	1	1.125,78	220482	74	1	1	23,26	230064	104	2	1	2,25
220006	115	2	1	34,40	220294	118	2	1	533,95	220484	74	1	1	28,52	230064/CO	104	2	1	1,77
220014	118	1	1	231,15	220298	118	2	1	320,17	220486	74	1	1	19,78	230066	104	2	1	2,11
220016	115	1	1	104,34	220299	120	2	1	656,26	220488	74	1	1	19,78	230066/CO	104	2	1	2,38
220017	70	1	1	272,97	220303	124	2	1	1.065,53	220490	74	1	1	19,78	230070	104	2	1	2,11
220022	118	2	1	114,31	220307	122	2	1	1.167,07	220492	74	1	1	19,78	230070/CO	104	2	1	2,38
220023	120	2	1	312,27	220309	121	2	1	1.106,87	220494	74	1	1	21,54	230080	104	2	1	2,29
220027	121	2	1	481,60	220311	120	2	1	1.113,20	220500	117	2	1	316,37	230080/CO	104	2	1	2,81
220028	120	2	1	216,30	220313	115	2	1	36,59	220506	116	2	1	64,99	230084	104	2	1	2,55
220031	120	2	1	247,36	220319	124	2	1	2.608,96	220510	117	2	1	370,63	230084/CO	104	2	1	3,20
220033	124	1	1	1.426,80	220323	124	2	1	1.802,82	220550	117	2	1	374,84	230090	104	2	1	2,55
220038	120	2	1	335,84	220327	122	2	1	1.335,21	220556	117	2	1	550,64	230090/CO	104	2	1	3,72
220040	122	2	1	648,25	220329	122	2	1	1.318,90	220560	116	2	1	296,07	230100	104	2	1	3,60
220042	120	2	1	548,05	220353	72	1	1	22,05	220576	71	1	1	356,12	230100/CO	104	2	1	4,75
220043	123	2	1	765,60	220353/122	72	1	1	26,33	220577	71	1	1	67,75	230110	104	2	1	3,93
220048	120	2	1	684,60	220355	126	2	1	15,96	220578	71	1	1	51,72	230110/CO	104	2	1	5,55
220053	115	2	1	70,93	220356	126	2	1	19,31	220579	71	1	1	29,77	230120	104	2	1	4,37
220054	119	2	1	20,51	220357/10	72	1	1	24,98	220580	71	1	1	33,45	230120/CO	104	2	1	6,86
220060	118	2	1	225,67	220357/12	72	1	1	26,55	220581	71	1	1	8,27	230130	104	2	1	2,29
220061	115	2	1	92,42	220357/8	72	1	1	24,98	220582	71	1	1	8,27	230130/CO	104	2	1	7,70
220064	118	2	1	277,10	220366	115	2	1	109,10	220583	71	1	1	8,27	230136	104	2	1	8,91
220066	118	2	1	246,68	220368	115	2	1	223,02	220584	71	1	1	8,27	230136/CO	104			

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230240/CO	104	2	1	26,58	230630	104	2	1	1,54	230926	105	2	1	3,51	231710	105	2	1	2,18
230244	104	2	1	10,40	230634	104	2	1	1,81	230928	105	2	1	4,26	231712	105	2	1	2,38
230244/CO	104	2	1	27,35	230636	104	2	1	5,35	230930/1	105	2	1	4,07	231714	105	2	1	2,81
230250	104	2	1	11,91	230676	106	2	1	91,71	230932	105	2	1	8,21	231716	105	2	1	3,93
230250/CO	104	2	1	29,32	230676/K	106	2	1	138,08	230934	105	2	1	9,45	231718	105	2	1	4,15
230301/TIN	104	2	1	290,75	230677	106	2	1	101,90	230936	105	2	1	6,30	231750	104	2	1	13,16
230312	104	2	1	37,58	230677/K	106	2	1	148,27	230938	105	2	1	3,45	231752	104	2	1	13,25
230312/R	104	2	1	27,49	230679	106	2	1	11,20	230940	105	2	1	4,76	231754	104	2	1	14,84
230312/TIN	104	2	1	44,87	230681/K	106	2	1	35,15	230942	105	2	1	4,69	231756	104	2	1	15,31
230314	104	2	1	72,64	230682	109	2	1	16,44	230944	105	2	1	8,21	231758	104	2	1	19,37
230314/R	104	2	1	52,58	230683	109	2	1	25,13	230946	105	2	1	9,63	231760	104	2	1	30,89
230314/TIN	104	2	1	86,43	230689	106	2	1	28,02	230948	105	2	1	4,21	231766	104	2	1	46,96
230330	104	2	1	1,40	230691	106	2	1	33,13	230950	105	2	1	5,68	231803	107	2	1	12,62
230331	104	2	1	1,73	230701	106	2	1	20,43	230952	105	2	1	7,74	231900	107	2	1	13,98
230332	104	2	1	2,99	230702	106	2	1	13,77	230954/1	105	2	1	9,15	231901/21	107	2	1	13,85
230334	104	2	1	1,51	230704	106	2	1	58,59	230956	105	2	1	11,17	231902	107	2	1	14,47
230338	104	2	1	1,72	230705	106	2	1	120,14	230958	105	2	1	6,23	231904	107	2	1	14,95
230340	104	2	1	1,81	230706	106	2	1	76,42	230960	105	2	1	9,76	231904/29	107	2	1	15,33
230342	104	2	1	1,96	230708	106	2	1	81,08	230962/1	105	2	1	11,57	231906	107	2	1	15,21
230344	104	2	1	1,96	230709	106	2	1	39,74	230964	105	2	1	13,48	231908	107	2	1	15,91
230346	104	2	1	2,40	230711	106	2	1	220,02	230966	105	2	1	10,31	231910	107	2	1	16,61
230352	104	2	1	2,97	230720	106	2	1	106,54	230968	105	2	1	16,44	231912	107	2	1	17,19
230354	104	2	1	1,96	230721	106	2	1	152,64	230970	105	2	1	8,38	231912/38	107	2	1	16,83
230356	104	2	1	4,01	230722	106	2	1	41,68	230972	105	2	1	10,40	231914	107	2	1	17,56
230358	104	2	1	5,06	230723	106	2	1	50,95	230974	105	2	1	14,97	231914/46	107	2	1	18,28
230360	104	2	1	5,06	230725	106	2	1	113,51	230976	105	2	1	21,71	231916	107	2	1	18,30
230362	104	2	1	2,76	230727	106	2	1	67,25	230978	105	2	1	22,19	231918	107	2	1	18,88
230364	104	2	1	6,02	230731	106	2	1	68,78	230979	105	2	1	14,68	231920	107	2	1	20,38
230370	104	2	1	3,63	230732	104	2	1	2,16	230982	109	2	1	7,90	231922	107	2	1	20,86
230372	104	2	1	4,30	230734	104	2	1	2,49	230984	109	2	1	8,12	231924	107	2	1	22,98
230376	104	2	1	6,18	230736	104	2	1	2,70	230986	109	2	1	8,12	231926	107	2	1	23,24
230378	104	2	1	7,08	230738	104	2	1	2,70	230988	109	2	1	10,06	231928	107	2	1	23,59
230380	104	2	1	7,85	230740	104	2	1	3,06	231050	109	2	1	7,34	231929	107	2	1	71,64
230382	104	2	1	9,67	230742	104	2	1	3,24	231052	109	2	1	7,60	231930	107	2	1	24,73
230395	105	2	1	50,12	230746	104	2	1	3,69	231054	109	2	1	7,60	231931	107	2	1	25,47
230396	105	2	1	61,40	230800	109	2	1	30,42	231056	109	2	1	12,82	231932	107	2	1	26,11
230397	105	2	1	74,13	230802	109	2	1	33,09	231058	109	2	1	22,47	231934	107	2	1	27,32
230398	105	2	1	58,63	230804	109	2	1	30,42	231060	109	2	1	34,48	231936	107	2	1	28,53
230400	104	2	1	13,11	230806	109	2	1	64,70	231062	109	2	1	62,18	231938	107	2	1	40,70
230402	104	2	1	15,77	230808	109	2	1	33,09	231064	109	2	1	115,74	231939/111	107	2	1	46,43
230404	104	2	1	18,89	230810	109	2	1	27,45	231070	109	2	1	15,31	231940	107	2	1	47,52
230406	104	2	1	21,32	230812	109	2	1	25,92	231072	109	2	1	18,17	231940/127	107	2	1	51,71
230408	104	2	1	36,98	230814	109	2	1	10,99	231074	109	2	1	23,90	231940/152	107	2	1	70,33
230410	104	2	1	29,93	230816	109	2	1	25,50	231076	109	2	1	31,08	231940/210	107	2	1	115,24
230412	104	2	1	35,31	230818	109	2	1	10,99	231080	110	2	1	98,03	231942	107	2	1	16,22
230414	104	2	1	41,81	230820	109	2	1	35,28	231082	110	2	1	105,20	231944	107	2	1	16,75
230430	105	2	1	4,83	230822	109	2	1	10,99	231280	110	2	1	266,50	231946	107	2	1	16,75
230431	105	2	1	5,62	230824	109	2	1	10,99	231282	110	2	1	636,00	231950	107	2	1	18,12
230432	105	2	1	4,83	230826	109	2	1	21,58	231300	106	2	1	31,08	231952	107	2	1	18,59
230433	105	2	1	5,83	230828	109	2	1	13,39	231301	106	2	1	36,83	231954	107	2	1	18,59
230434	105	2	1	4,86	230830	109	2	1	31,38	231302	106	2	1	64,55	231956	107	2	1	19,34
230436	105	2	1	5,22	230832	109	2	1	17,68	231304	106	2	1	129,59	231958	107	2	1	19,34
230438	105	2	1	4,96	230834	109	2	1	38,25	231305	106	2	1	72,69	231960	107	2	1	24,25
230438/A	105	2	1	6,09	230836	109	2	1	21,05	231306	106	2	1	217,60	231962	107	2	1	24,76
230440	105	2	1	5,27	230838	109	2	1	28,69	231307	106	2	1	319,92	231964	107	2	1	26,47
230442	105	2	1	5,70	230840	109	2	1	28,69	231312	106	2	1	144,90	231966	107	2	1	30,41
230442/A	105	2	1	6,23	230842	109	2	1	41,60	231319	105	2	1	149,00	231968	107	2	1	30,41
230444	105	2	1	8,89	230844	109	2	1	45,42	231320	105	2	1	154,95	231970	107	2	1	32,12
230444/A	105	2	1	20,33	230846	109	2	1	52,58	231322	105	2	1	129,59	231972	107	2	1	32,59
230448	105	2	1	8,50	230848	109	2	1	71,73	231324	105	2	1	153,02	231974	107	2	1	34,51
230450	105	2	1	8,38	230850	109	2	1	137,25	231326	105	2	1	142,50	231976	107	2	1	38,06
230450/A	105	2	1	10,19	230852	109	2	1	176,44	231327	105	2	1	260,13	231978	107	2	1	39,07
230451	105	2	1	24,05	230854	109	2	1	215,66	231330	106	2	1	52,58	231980	107	2	1	47,80
230453	105	2	1	10,10	230856	109	2	1	294,09	231336	105	2	1	41,12	231982	107	2	1	50,71
230454	105	2	1	9,67	230858	109	2	1	343,12	231338	105	2	1	67,91	231984	108	2	1	159,02
230456	105	2	1	12,10	230860	109	2	1	392,13	23134									

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240073	96	2	1	81,34	250202	57	3	100	31,60	260300	40	3	100	5,75	260446	41	3	100	11,08
240132	96	2	1	10,82	250204	57	3	100	36,83	260302	40	3	100	5,75	260448	41	3	100	11,72
240134	96	2	1	11,62	250206	57	3	100	44,62	260304	40	3	100	5,89	260448/10	41	3	100	12,83
240136	96	2	1	13,44	250208	57	3	100	58,19	260304/10	41	3	100	9,79	260449	41	3	100	11,11
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240152	96	2	1	15,39	250212	57	3	100	15,79	260306/10	41	3	100	11,34	260500	41	3	100	21,13
240154	96	2	1	18,53	250214	57	3	100	18,40	260308	40	3	100	7,62	260502	41	3	100	21,13
240156	96	2	1	23,77	250216	57	3	100	21,11	260310	40	3	100	6,45	260504	41	3	100	23,02
240158	96	2	1	29,55	250218	57	3	100	26,34	260312	40	3	100	6,63	260510	41	3	100	10,12
240160	96	2	1	32,62	250220	57	3	100	31,60	260314	40	3	100	6,51	260512	41	3	100	10,12
240234	96	2	1	6,37	250222	57	3	100	36,83	260314/10	41	3	100	10,38	260514	41	3	100	10,10
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250042	57	3	100	48,74	250226	57	3	100	57,91	260316/10	41	3	100	11,73	260516/10	41	3	100	14,19
250044	57	3	100	56,94	250228	57	3	100	83,49	260318	40	3	100	8,88	260518	41	3	100	10,84
250046	57	3	100	61,01	250230	57	3	100	89,68	260320	40	3	100	10,93	260520	41	3	100	10,84
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250094	57	3	100	280,54	250658	57	3	100	742,47	260370	40	3	100	8,22	260702	42	3	100	10,75
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250114	57	3	100	278,18	250676	57	3	100	523,50	260386/10	41	3	100	12,49	260722	42	3	100	19,43
250116	57	3	100	362,94	250678	57	3	100	936,54	260388	40	3	100	10,22	260724	42	3	100	19,86
250118	57	3	100	390,38	250680	57	3	100	1.767,38	260390	40	3	100	10,22	260726	42	3	100	22,06
250120	57	3	100	42,44	250682	57	3	100	2.494,49	260390/10	41	3	100	12,94	260728	42	3	100	26,50
250122	57	3	100	48,93	250684	57	3	100	3.504,00	260392	40	3	100	10,70	260730	42	3	100	10,68
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250144	57	3	100	94,47	260254	40	3	100	5,71	260404	40	3	100	26,24	260754	42	3	100	21,41
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260926	46	3	100	81,85	262180	55	4	100	6,50	262508	54	4	100	1,98	262840	55	4	100	4,60
260928	46	3	100	87,39	262181	55	4	100	13,08	262509	54	4	100	1,94	262842	55	4	100	5,13
260930	46	3	100	99,26	262182	55	4	100	19,78	262509/1	54	4	100	2,99	262844	55	4	100	4,69
260932	46	3	100	119,61	262183	55	4	100	11,60	262510	54	4	100	4,08	262846	55	4	100	10,36
260934	46	3	100	86,38	262184	55	4	100	12,21	262510/1	54	4	100	3,35	262848	55	4	100	8,53
260936	46	3	100	111,11	262185	55	4	100	13,80	262511	54	4	100	4,12	262850	55	4	100	21,07
260938	46	3	100	111,98	262186	55	4	100	17,28	262511/1	54	4	100	6,89	262940/125	56	4	100	38,12
260940	46	3	100	126,39	262187	55	4	100	26,14	262512	54	4	100	3,73	262940/152	56	4	100	41,24
260942	46	3	100	147,19	262188	55	4	100	24,06	262512/1	54	4	100	2,16	262940/200	56	4	100	46,77
260944	46	3	100	138,04	262189	55	4	100	111,31	262513	54	4	100	3,65	262940/250	56	4	100	53,07
260946	46	3	100	138,04	262190	55	4	100	30,09	262515	54	4	100	2,89	262940/300	56	4	100	58,86
260948	46	3	100	172,56	262191	55	4	100	39,93	262516	54	4	100	3,73	262940/360	56	4	100	68,45
260950	46	3	100	186,98	262200	56	4	100	3,76	262517	54	4	100	4,25	262940/520	56	4	100	91,48
260952	46	3	100	235,70	262202	56	4	100	3,76	262518	54	4	100	5,49	262942/125	56	4	100	104,57
260954	46	3	100	227,25	262204	56	4	100	3,76	262520	54	4	100	6,66	262942/152	56	4	100	107,80
260956	46	3	100	227,48	262206	56	4	100	4,61	262522	54	4	100	7,75	262942/200	56	4	100	145,80
260960	46	3	100	297,06	262208	56	4	100	3,99	262523	54	4	100	9,29	262942/250	56	4	100	153,86
260962	46	3	100	237,62	262209	56	4	100	5,00	262528	54	4	100	8,86	262942/300	56	4	100	181,62
260964	46	3	100	394,12	262210	56	4	100	3,99	262530	54	4	100	12,17	262942/360	56	4	100	213,97
260966	46	3	100	315,29	262212	56	4	100	5,30	262532	54	4	100	16,64	262942/520	56	4	100	314,34
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260972	46	3	100	479,75	262216	56	4	100	5,30	262535	54	4	100	42,94	262950/152	56	4	100	67,36
260974	46	3	100	623,76	262218	56	4	100	4,50	262536	54	4	100	26,05	262950/200	56	4	100	77,60
260976	46	3	100	479,12	262219	56	4	100	11,50	262537	54	4	100	34,18	262950/300	56	4	100	98,11
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260980	46	3	100	599,58	262222	56	4	100	7,83	262540	54	4	100	47,26	262950/520	56	4	100	150,99
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260984	46	3	100	599,39	262224	56	4	100	13,48	262543	54	4	100	115,54	262950/840	56	4	100	221,47
262030	55	3	1	9,45	262226	56	4	100	11,53	262545	54	4	100	22,72	262952	54	4	100	3,04
262031	55	3	1	11,50	262227	56	4	100	11,85	262546	54	4	100	47,19	262952/1050	56	4	100	688,64
262032	55	3	1	14,22	262228	56	4	100	14,45	262547	54	4	100	89,64	262952/152	56	4	100	143,67
262033	55	3	1	17,71	262230	56	4	100	12,42	262600	54	4	100	1,02	262952/200	56	4	100	158,03
262034	55	3	1	9,45	262231	56	4	100	17,82	262600/1	54	4	100	0,90	262952/300	56	4	100	254,82
262035	55	3	1	11,50	262232	56	4	100	17,83	262602	54	4	100	0,93	262952/360	56	4	100	276,60
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262060	55	3	1	13,43	262238	56	4	100	3,76	262609/1	54	4	100	3,41	262954	54	4	100	3,05
262062	55	3	1	13,43	262240	56	4	100	3,92	262610	54	4	100	4,67	262956	54	4	100	4,47
262064	55	3	1	29,90	262242	56	4	100	4,35	262610/1	54	4	100	3,86	262958	54	4	100	6,03
262066	55	3	1	16,81	262243	56	4	100	4,30	262611/1	54	4	100	7,21	262960	54	4	100	5,67
262068	55	3	1	16,81	262244	56	4	100	4,61	262612/1	54	4	100	2,47	262960/1000	56	4	100	511,93
262069	55	3	1	37,28	262245	56	4	100	4,61	262615	54	4	100	3,35	262960/1200	56	4	100	604,68
262085	58	3	1	1,81	262246	56	4	100	5,88	262616	54	4	100	4,28	262960/290	56	4	100	204,15
262086	58	3	1	1,95	262247	56	4	100	5,81	262618	54	4	100	6,32	262960/360	56	4	100	236,08
262087	58	3	1	2,66	262248	56	4	100	10,35	262620	54	4	100	7,61	262960/520	56	4	100	304,89
262088	58	3	1	3,13	262249	56	4	100	8,01	262622	54	4	100	8,94	262960/680	56	4	100	373,17
262089	58	3	1	4,46	262254	56	4	100	3,13	262623	54	4	100	10,67	262960/840	56	4	100	442,29
262090	58	3	1	6,95	262256	56	4	100	3,99	262628	54	4	100	9,06	262962	54	4	100	7,74
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262120	54	4	100	2,62	262276	56	4	100	3,04	262642	54	4	100	66,70	262968	54	4	100	18,74
262122	54	4	100	4,81	262278	56	4	100	3,04	262643	54	4	100	132,92	262970	54	4	100	22,20
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262126	54	4	100	8,01	262282	56	4	100	3,35	262646	54	4	100	54,22	262970/1315	56	4	100	658,94
262128	54	4	100	14,19	262284	56	4	100	3,35	262647	54	4	100	103,13	262972	54	4	100	27,23
262130	54	4	100	17,79	262286	56	4	100	3,99	262700	55	4	100	11,15	262974	54	4	100	45,07
262132	54	4	100	16,81	262288	56	4	100	3,99	262702	55	4	100	20,66	262976	54	4	100	66,54
262134	54	4	100	28,93	262290	56	4	100	4,26	262704	55	4	100	27,61	262978	54	4	100	72,29
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263208	55	4	100	26,36	263882	60	3	1	2,16	267118	59	3	1	52,01	267382	59	3	1	1,32
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270134	37	3	1000	820,39	270784	38	5	1000	35,38	270906	38	5	1000	151,76	280192	45	3	100	13,25
270135	37	3	1000	847,70	270784/25	39	5	1000	51,09	270908	38	5	1000	153,92	280194	45	3	100	10,72
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270140/500	37	3	1000	10,41	270790	38	5	1000	48,36	272250	38	5	1000	33,61	280202	45	3	100	4,55
270141	37	3	1000	13,88	270792	38	5	1000	42,35	272254	38	5	1000	33,61	280204	45	3	100	3,63
270142	37	3	1000	11,27	270792/25	39	5	1000	65,38	272260	38	5	1000	33,61	280206	45	3	100	6,18
270142/500	37	3	1000	11,27	270794	38	5	1000	52,43	272264	38	5	1000	33,61	280208	45	3	100	3,60
270143	37	3	1000	13,96	270795	39	5	1	21,15	272268	38	5	1000	38,83	280210	45	3	100	4,67
270143/500	37	3	1000	13,96	270796	38	5	1000	128,70	272280	38	5	1000	33,61	280212	45	3	100	4,55
270144	37	3	1000	16,87	270796/10	39	5	1000	120,42	272284	38	5	1000	33,61	280214	45	3	100	9,93
270146	37	3	1000	11,98	270797	38	5	1000	150,14	272290	38	5	1000	33,61	280460	45	3	100	154,68
270146/500	37	3	1000	11,98	270797/10	39	5	1000	143,55	272294	38	5	1000	33,61	280482	45	3	100	1.809,20
270148	37	3	1000	14,15	270798	38	5	1000	188,51	272298	38	5	1000	38,83	280490	45	3	100	104,56
270148/500	37	3	1000	14,15	270798/5	39	5	1000	177,31	272721	38	5	1000	16,75	280512	45	3	100	882,97
270149	37	3	1000	17,01	270799	38	5	1000	327,34	272723	38	5	1000	16,92	280520	45	3	100	110,39
270149/500	37	3	1000	17,01	270799/5	39	5	1000	269,93	272725	38	5	1000	18,21	280542	45	3	100	1.239,74
270150	37	3	1000	13,34	270800														

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290014/90	48	3	100	895,80	290270	49	3	100	161,34	290462	50	3	100	765,86	290712	46	3	100	471,38
290015	49	3	100	85,84	290272	49	3	100	161,78	290464	50	3	100	762,97	290713	46	3	100	435,04
290016	47,48	3	100	570,80	290276	49	3	100	201,62	290466	50	3	100	777,02	290714	46	3	100	435,24
290016/90	48	3	100	916,34	290278	49	3	100	201,62	290468	50	3	100	778,70	290716	46	3	100	505,60
290017	47,48	3	100	558,24	290280	49	3	100	217,48	290470	50	3	100	1.107,21	290717	46	3	100	682,68
290018	47,48	3	100	560,79	290282	49	3	100	318,49	290472	50	3	100	1.104,17	290718	46	3	100	702,33
290018/90	48	3	100	910,87	290284	49	3	100	293,29	290474	50	3	100	1.131,78	290719	46	3	100	576,35
290019	49	3	100	87,78	290286	49	3	100	318,49	290476	50	3	100	1.126,50	290720	46	3	100	845,45
290020	47,48	3	100	644,82	290288	49	3	100	318,49	290478	50	3	100	1.278,34	290721	46	3	100	573,54
290020/90	48	3	100	923,21	290290	49	3	100	414,01	290480	50	3	100	1.276,04	290730	46	3	100	7,25
290021	49	3	100	91,09	290292	49	3	100	375,20	290482	50	3	100	1.280,28	290731	46	3	100	7,25
290022	47,48	3	100	851,53	290294	49	3	100	344,64	290484	50	3	100	1.299,95	290732	46	3	100	7,41
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290023	47,48	3	100	837,52	290300	49	3	100	588,96	290488	50	3	100	1.851,10	290735	46	3	100	10,36
290024	47,48	3	100	821,57	290302	49	3	100	575,95	290490	50	3	100	1.843,27	290736	46	3	100	10,63
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290025	49	3	100	92,02	290306	49	3	100	626,93	290494	50	3	100	2.222,56	290739	46	3	100	9,45
290026	47,48	3	100	869,71	290308	49	3	100	616,95	290496	50	3	100	4.457,98	290740	46	3	100	9,77
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290028	47,48	3	100	1.046,28	290316	49	3	100	1.057,52	290516	50	3	100	5.280,58	290744	46	3	100	12,57
290028/90	48	3	100	1.236,84	290318	49	3	100	821,54	290518	50	3	100	5.407,07	290746	46	3	100	11,83
290029	47,48	3	100	1.032,93	290320	49	3	100	796,09	290520	50	3	100	9.345,66	290748	46	3	100	14,84
290030	47,48	3	100	1.016,62	290322	49	3	100	1.003,00	290522	50	3	100	12.531,07	290750	46	3	100	18,84
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290031	49	3	100	111,74	290326	49	3	100	957,61	290562	50	3	100	22,34	290752	46	3	100	53,58
290033	49	3	100	113,97	290328	49	3	100	1.476,01	290563	50	3	100	24,31	290754	46	3	100	58,85
290034	47,48	3	100	1.697,09	290330	49	3	100	1.194,94	290564	50	3	100	28,40	290756	46	3	100	77,66
290035	49	3	100	117,13	290332	49	3	100	1.165,61	290565	50	3	100	30,44	290770	46	3	100	9,34
290036	47,48	3	100	1.680,61	290334	49	3	100	2.068,79	290566	50	3	100	32,51	290771	46	3	100	26,12
290037	49	3	100	115,29	290336	49	3	100	2.429,89	290567	50	3	100	36,52	290773	46	3	100	10,05
290038	47,48	3	100	1.661,65	290338	49	3	100	1.758,11	290568	50	3	100	40,62	290775	46	3	100	10,05
290039	49	3	100	205,86	290350	49	3	100	78,66	290569	50	3	100	52,74	290776	46	3	100	42,53
290040	47,48	3	100	1.616,68	290352	49	3	100	104,20	290570	50	3	100	177,49	290777	46	3	100	18,59
290041	47,48	3	100	5.051,74	290354	49	3	100	127,26	290571	50	3	100	437,85	290778	46	3	100	77,16
290042	49	3	100	214,17	290356	49	3	100	180,30	290572	50	3	100	624,66	290780	46	3	100	155,04
290043	47,48	3	100	5.030,96	290358	49	3	100	253,30	290617	46	3	100	15,48	290782	46	3	100	230,21
290044	49	3	100	215,51	290360	49	3	100	343,31	290619	46	3	100	6,73	290784	46	3	100	303,31
290045	47,48	3	100	5.361,70	290362	49	3	100	412,67	290620	46	3	100	5,66	290786	46	3	100	506,94
290046	47,48	3	100	2.309,39	290364	49	3	100	547,82	290621	46	3	100	6,04	290788	46	3	100	684,56
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290050	49	3	100	316,52	290372	49	3	100	1.348,01	290625	46	3	100	11,67	290804	48	3	100	61,82
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290057	49	3	100	500,09	290406/10	50	3	100	70,72	290635	46	3	100	14,63	290820	48	3	100	115,46
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290059	49	3	100	615,41	290410	50	3	100	44,48	290637	46	3	100	10,69	290824	48	3	100	121,82
290060	49	3	100	625,16	290410/10	50	3	100	63,18	290646	46	3	100	15,59	290826	48	3	100	150,14
290061	49	3	100	765,86	290412	50	3	100	68,49	290648	46	3	100	16,42	290830	48	3	100	161,02
290063	49	3	100	762,97	290412/10	50	3	100	95,33	290650	46	3	100	19,34	290832	48	3	100	176,64
290064	49	3	100	1.002,93	290414	50	3	100	88,43	290652	46	3	100	23,15	290834	48	3	100	176,63
290065	49	3	100	778,70	290416	50	3	100	87,78	290654	46	3	100	28,21	290836	48	3	100	231,43
290066	49	3	100	1.107,21	290416/10	50	3	100	99,48	290656	46	3	100	22,21	290840	48	3	100	227,84
290067	49	3	100	1.104,17	290418	50	3	100	91,09	290658	46	3	100	24,26	290842	48	3	100	245,41
290068	49	3	100	1.131,78	290418/10	50	3	100	102,81	290660	46	3	100	27,72	290844	48	3	100	260,14
290069	49	3	100	1.126,50															

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290912	47,48	3	100	26,82	291056	48	3	100	32,39	291539	51	3	100	1.052,52	292788	52	3	100	303,59
290914	47,48	3	100	19,76	291058	48	3	100	41,30	291540	49	3	100	1.218,89	292790	52	3	100	357,80
290916	47,48	3	100	19,77	291060	48	3	100	63,77	291541	51	3	100	1.218,89	292792	52	3	100	356,26
290918	47,48	3	100	19,74	291062	48	3	100	81,34	291542	49	3	100	1.677,41	292794	52	3	100	353,22
290920	47,48	3	100	37,05	291064	48	3	100	112,88	291543	51	3	100	1.677,41	292796	52	3	100	459,24
290922	47,48	3	100	27,75	291066	48	3	100	178,62	291544	49	3	100	2.082,13	292798	52	3	100	457,72
290924	47,48	3	100	30,80	291068	48	3	100	265,53	291545	51	3	100	2.082,13	292800	52	3	100	454,72
290926	47,48	3	100	30,85	291070	48	3	100	390,26	291546	49	3	100	5.280,78	292802	52	3	100	652,73
290928	47,48	3	100	36,56	291072	48	3	100	470,52	291547	51	3	100	5.280,78	292804	52	3	100	648,50
290930	47,48	3	100	34,04	291074	48	3	100	558,28	291548	49	3	100	6.194,93	292806	52	3	100	643,90
290932	47,48	3	100	42,80	291076	48	3	100	653,52	291549	51	3	100	6.194,93	292808	52	3	100	779,86
290932/90	48	3	100	60,96	291078	48	3	100	951,56	291550	49	3	100	5.767,56	292810	52	3	100	2.226,67
290934	47,48	3	100	39,43	291080	48	3	100	1.170,09	291551	51	3	100	5.767,56	292812	52	3	100	768,57
290934/90	48	3	100	62,99	291082	48	3	100	1.759,28	291552	49	3	100	10.740,23	292814	52	3	100	1.005,92
290936	47,48	3	100	44,90	291084	48	3	100	2.362,35	291553	51	3	100	10.740,23	292816	52	3	100	1.000,48
290936/90	48	3	100	66,44	291090	47	3	100	9,84	291554	49	3	100	13.885,89	292818	52	3	100	993,68
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290940/90	48	3	100	68,49	291100	47	3	100	28,64	291704	50	3	100	86,54	292904	51	3	100	60,14
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290942/90	48	3	100	77,40	291104	47	3	100	67,51	291708	50	3	100	86,61	292908	51	3	100	61,01
290944	47,48	3	100	50,05	291106	47	3	100	107,31	291710	50	3	100	114,06	292910	51	3	100	60,53
290944/90	48	3	100	76,71	291108	47	3	100	143,30	291712	50	3	100	117,75	292912	51	3	100	82,12
290946	47,48	3	100	52,21	291110	47	3	100	179,32	291714	50	3	100	118,81	292914	51	3	100	81,26
290948	47,48	3	100	67,09	291112	47	3	100	245,72	291716	50	3	100	119,32	292916	51	3	100	102,34
290948/90	48	3	100	99,98	291114	47	3	100	299,18	291718	50	3	100	143,66	292918	51	3	100	101,44
290950	47,48	3	100	66,53	291119	47	3	100	15,78	291720	50	3	100	145,96	292920	51	3	100	147,17
290950/90	48	3	100	114,36	291120	47	3	100	15,82	291722	50	3	100	149,47	292922	51	3	100	146,07
290952	47,48	3	100	71,72	291124	47	3	100	24,17	291724	50	3	100	147,45	292924	51	3	100	205,10
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290954/90	48	3	100	117,09	291130	47	3	100	86,99	291730	50	3	100	260,95	292930	51	3	100	240,40
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290956/90	48	3	100	115,03	291134	47	3	100	270,98	291734	50	3	100	382,36	292934	51	3	100	285,14
290958	47,48	3	100	92,21	291136	47	3	100	362,06	291736	50	3	100	385,90	292936	51	3	100	282,14
290958/90	48	3	100	128,76	291138	47	3	100	400,16	291738	50	3	100	385,63	292938	51	3	100	283,62
290960	47,48	3	100	99,37	291140	47	3	100	438,26	291740	50	3	100	501,39	292940	51	3	100	364,47
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290964	47,48	3	100	102,24	2911334	48	3	100	505,53	291748	50	3	100	742,79	292948	51	3	100	502,21
290964/90	48	3	100	151,36	291336	48	3	100	556,17	291750	50	3	100	738,49	292950	51	3	100	497,43
290966	47,48	3	100	138,29	291338	48	3	100	886,25	291752	50	3	100	750,21	293130	53	3	100	1.431,70
290966/90	48	3	100	209,56	291340	48	3	100	663,36	291754	50	3	100	918,99	293132	53	3	100	2.213,64
290968	47,48	3	100	149,44	291342	48	3	100	930,89	291756	50	3	100	915,55	293134	53	3	100	3.304,89
290968/90	48	3	100	225,32	291344	48	3	100	1.144,27	291758	50	3	100	932,40	293136	53	3	100	4.283,34
290970	47,48	3	100	161,01	291348	48	3	100	1.209,16	291760	50	3	100	934,44	293138	53	3	100	7.052,05
290970/90	48	3	100	234,22	291350	48	3	100	1.617,25	291762	50	3	100	1.328,65	293140	53	3	100	1.414,09
290972	47,48	3	100	157,86	291352	48	3	100	2.172,73	291764	50	3	100	1.325,03	293142	53	3	100	1.861,78
290972/90	48	3	100	260,24	291354	48	3	100	3.040,62	291766	50	3	100	1.358,11	293144	53	3	100	1.861,78
290974	47,48	3	100	167,77	291356	48	3	100	4.181,05	291768	50	3	100	1.351,82	293146	53	3	100	2.754,18
290976	47,48	3	100	223,00	291358	48	3	100	4.823,41	291770	50	3	100	1.534,02	293148	53	3	100	2.754,18
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290978/90	48	3	100	389,71	291442	49	3	100	216,33	291776	50	3	100	1.559,93	293154	53	3	100	4.764,06
290980	47,48	3	100	228,76	291444	49	3	100	205,11	291778	50	3	100	2.166,81	293156	53	3	100	4.764,06
290980/90	48	3	100	390,36	291446	49	3	100	213,26	291780	50	3	100	2.221,34	293300	52	3	100	454,20
290982	47,48	3	100	258,49	291448	49	3	100	400,31	291782	50	3	100	2.211,91	293302	52	3	100	454,20

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293558	52	3	100	484,86	294118	47	3	100	502,01	300102	97	2	1	6,46	370350	43	3	100	5,97
293578	52	3	100	2.764,82	294120	47	3	100	488,92	300115	97	2	1	11,89	370352	43	3	100	7,28
293582	52	3	100	2.927,45	294122	47	3	100	481,47	300116	128	2	1	0,68	370354	43	3	100	9,98
293584	52	3	100	3.217,43	294124	47	3	100	474,62	300117	98	2	1	67,93	370392	43	3	100	6,68
293598	52	3	100	3.557,74	294128	47	3	100	593,35	300228	78	1	1	375,88	370394	43	3	100	6,98
293600	52	3	100	2.972,87	294130	47	3	100	579,92	300229	78	1	1	310,73	370396	43	3	100	9,12
293606	52	3	100	2.945,23	294132	47	3	100	572,35	300294/EN	75	1	1	42,09	370414	43	3	100	7,66
293608	52	3	100	3.364,01	294134	47	3	100	559,38	300295/EN	75	1	1	42,22	370416	43	3	100	7,90
293610	52	3	100	3.924,13	294138	47	3	100	832,31	300296/EN	73	1	1	41,33	370422	43	3	100	5,19
293622	52	3	100	4.240,29	294140	47	3	100	816,76	300297/EN	75	1	1	42,22	370424	43	3	100	5,27
293624	52	3	100	4.030,21	294142	47	3	100	808,04	300298/EN	73	1	1	41,33	370426	43	3	100	7,46
293626	52	3	100	3.269,43	294144	47	3	100	792,99	300299/EN	73	1	1	41,61	392010	107	2	1	51,21
293634	52	3	100	4.902,56	294150	47	3	100	990,27	300302/EN	73	1	1	41,33	392012	107	2	1	44,57
293636	52	3	100	4.340,34	294152	47	3	100	981,59	300303/EN	75	1	1	41,72	392014	107	2	1	49,72
293638	52	3	100	5.093,68	294154	47	3	100	966,71	300305/EN	73	1	1	43,56	392016	107	2	1	46,32
293652	52	3	100	5.781,18	294160	47	3	100	1.160,69	300306/EN	75	1	1	45,65	392018	107	2	1	56,35
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293656	52	3	100	6.466,30	294164	47	3	100	1.137,17	300312/EN	74	1	1	514,29	392022	108	2	1	15,10
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293666	52	3	100	6.292,88	294176	47	3	100	1.654,61	300420	78	2	1	46,31	392026	108	2	1	19,39
293678	52	3	100	9.331,18	294184	47	3	100	3.029,32	330044	10	3	1	315,36	392028	108	2	1	95,54
293680	52	3	100	7.018,21	294196	47	3	100	4.794,75	330045	10	3	1	260,68	392050	107	2	1	14,43
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293978	52	3	100	10.943,39	294232	47	3	100	1.139,39	340396	43	3	100	14,11	392110	107	2	1	70,86
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294002	47	3	100	8,88	294500	51	3	100	13,73	340416	43	3	100	19,05	392114	107	2	1	82,08
294004	47	3	100	8,88	294502	51	3	100	13,73	340422	43	3	100	8,28	392116	107	2	1	94,16
294006	47	3	100	9,47	294504	51	3	100	13,73	340424	43	3	100	8,24	392118	107	2	1	114,43
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294046	47	3	100	35,35	294538	51	3	100	82,17	363536	43	3	100	26,86	393020	98	2	1	10,12
294048	47	3	100	37,33	294540	51	3	100	82,17	363538	43	3	100	26,86	393022	97	2	1	10,44
294050	47	3	100	34,64	294542	51	3	100	82,17	363540	43	3	100	26,86	393024	98	2	1	25,32
294052	47	3	100	35,45	294544	51	3	100	82,17	363542	43	3	100	26,86	393026	97	2	1	11,69
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790051	111	2	100	4,25	790706	112	2	100	4,54	794014	114	2	100	4,93
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790100	111	2	100	3,48	790834	112	2	100	3,93	794060	114	2	100	70,50
790101	111	2	100	3,80	790837	112	2	100	5,03	794062	114	2	100	99,12
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790120	111	2	100	5,88	790902	111	2	100	51,32					
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790210	111	2	100	9,92	790922	111	2	100	3,41					
790211	111	2	100	16,33	792000	112	2	100	1,27					
790212	111	2	100	20,34	792001	112	2	100	1,64					
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790223	111	2	100	24,78	792005	112	2	100	8,21					
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790224	111	2	100	32,06	792008	112	2	100	19,09					
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790225	111	2	100	38,50	792602	112	2	100	1,63					
790235	111	2	100	45,82	792603	112	2	100	1,96					
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790303	111	2	100	3,47	792650	112	2	100	5,79					
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790325	111	2	100	3,07	792652	112	2	100	8,30					
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790416	111	2	100	2,73	792806	113	2	1	128,58					
790417	111	2	100	2,83	792810	113	2	1	111,40					
790419	111	2	100	4,03	792816	113	2	1	159,58					
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102/10	137	8	1	15,62	127-1	138	8	1	236,75	1380/51	155	8	1	26,58	1709/40x20	159	8	1	3,02
102/8	137	8	1	15,62	127-2	138	8	1	12,04	1380/57	155	8	1	22,44	1710	158	8	1	19,63
103	137	8	1	52,53	128	138	8	1	53,30	1380/64	155	8	1	33,53	1724/300	155	8	1	18,69
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1044/1,0	152	8	1	0,94	129-12/19	138	8	1	7,82	1381-1/14	152	8	1	24,19	1738/300	155	8	1	2,95
1044/1,5	152	8	1	0,94	129-12/22	138	8	1	7,99	1381-1/18	152	8	1	56,76	1739/300	155	8	1	3,05
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1044/12,5	152	8	1	10,63	129-14/6	138	8	1	21,11	1381-1/45	152	8	1	103,38	1745/300	156	8	1	9,29
1044/13,0	152	8	1	11,99	129-3/250	138	8	1	72,19	1381-1/50	152	8	1	212,38	1746/100	156	8	1	4,82
1044/2,0	152	8	1	0,94	129-30	138	8	1	192,12	1381-1/55	152	8	1	113,52	1746/150	156	8	1	5,49
1044/2,5	152	8	1	0,94	129-7/125	138	8	1	13,15	1381-1/6	152	8	1	20,30	1747/225	156	8	1	5,54
1044/3,0	152	8	1	1,01	129-9/1/2	138	8	1	15,96	1381-1/60	152	8	1	137,77	1750/150	156	8	1	8,21
1044/3,5	152	8	1	1,31	1315/120-10	159	8	1	3,75	1381-1/68	152	8	1	154,39	1750/200	156	8	1	9,35
1044/4,0	152	8	1	1,64	1315/120-12	159	8	1	4,01	1381-1/75	152	8	1	137,84	1751/115	156	8	1	32,28
1044/4,5	152	8	1	1,86	1340/250	159	8	1	29,85	1381-1/8	152	8	1	21,13	1752/200	156	8	1	19,25
1044/5,0	152	8	1	2,07	1341/250	159	8	1	29,32	1381-1/82	152	8	1	145,95	1753/200	156	8	1	29,50
1044/5,5	152	8	1	2,23	1342/200	159	8	1	46,81	1381-4	153	8	1	112,18	1754/225	156	8	1	58,75
1044/6,0	152	8	1	2,46	1362	142	8	1	18,87	1381-6	153	8	1	240,46	1755/150	156	8	1	6,73
1044/6,5	152	8	1	2,92	1365	143	8	1	136,27	1381-7	153	8	1	207,24	1756/75	157	8	1	4,46
1044/7,0	152	8	1	3,49	1366-2/10	152	8	1	12,29	1382	154	8	1	219,65	1757/150	156	8	1	11,92
1044/7,5	152	8	1	3,93	1366-2/14	152	8	1	17,82	1384	154	8	1	183,45	1757/225	156	8	1	15,22
1044/8,0	152	8	1	4,91	1366-2/6	152	8	1	7,93	1385-1/10	153	8	1	56,51	1757/300	156	8	1	19,91
1044/8,5	152	8	1	5,22	1366-2/8	152	8	1	9,97	1385-1/12	153	8	1	61,12	1758/105	157	8	1	4,95
1044/9,0	152	8	1	5,78	1368	152	8	1	84,28	1385-1/14	153	8	1	65,20	1758/55	157	8	1	4,95
1044/9,5	152	8	1	6,22	1368-1/10	152	8	1	24,79	1385-1/5	153	8	1	46,57	1759/150	156	8	1	6,00
1045/3,2	152	8	1	2,28	1368-1/13	152	8	1	28,51	1385-1/6	153	8	1	49,06	1759/225	156	8	1	7,83
105/10	137	8	1	33,15	1368-1/14	152	8	1	33,46	1385-1/8	153	8	1	52,40	1759/280	156	8	1	10,03
106	137	8	1	67,47	1368-1/5	152	8	1	12,77	1385-6	153	8	1	56,82	1761/150	156	8	1	5,49
106-2	137	8	1	37,41	1368-1/6	152	8	1	13,41	1386/68	153	8	1	180,11	1761/225	156	8	1	6,95
1060/2	152	8	1	64,81	1368-1/8	152	8	1	18,59	1386/82	153	8	1	216,36	1762/150	156	8	1	5,49
1060/3	152	8	1	119,32	1374/110x6	152	8	1	5,63	1391/6	159	8	1	9,92	1762/225	156	8	1	6,95
1065	152	8	1	53,21	1374/160x10	152	8	1	7,11	1409/1000	159	8	1	25,55	1763/305	156	8	1	67,38
1085/1	154	8	1	2,54	1374/160x12	152	8	1	8,18	1409/1250	159	8	1	27,99	1763/455	156	8	1	95,93
1085/2	154	8	1	2,42	1374/160x14	152	8	1	9,32	1409/1500	159	8	1	30,33	1764/300	157	8	1	66,41
1085/3	154	8	1	2,54	1374/160x15	152	8	1	10,80	1470/300	159	8	1	19,63	1830	141	8	1	27,27
1086/1-5	154	8	1	18,55	1374/160x5	152	8	1	5,16	1470/500	159	8	1	20,17	2036	141	8	1	75,82
1086/1-6	154	8	1	27,27	1374/160x6	152	8	1	5,37	1608/60	135	8	1	87,10	2066/100	140	8	1	8,69
1086/1-8	154	8	1	67,63	1374/160x8	152	8	1	5,83	1609-1/60	135	8	1	121,55	2066/80	140	8	1	8,44
1087/5	137	8	1	26,28	1374/210x10	152	8	1	7,91	1609/60	135	8	1	93,06	2070/125	140	8	1	12,47
1087/7	137	8	1	48,58	1374/210x12	152	8	1	8,99	1616/620	135	8	1	273,82	2070/150	140	8	1	17,05
1088	137	8	1	176,01	1374/210x14	152	8	1	9,66	1638/150	150	8	1	18,01	2073-8/100	140	8	1	9,96
109/1	140	8	1	17,03	1374/210x16	152	8	1	12,28	1640/150	150	8	1	18,01	2073-8/125	140	8	1	11,25
109/2	140	8	1	17,82	1374/210x18	152	8	1	14,68	1644/250	150	8	1	24,03	2073-8/150	140	8	1	13,18
110	140	8	1	29,50	1374/210x8	152	8	1	7,38	1644/500	150	8	1	48,17	2073-8/75	140	8	1	8,52
112/1,5	140	8	1	0,65	1374/460x10	152	8	1	13,04	1645/20	150	8	1	4,83	2079-18/1	141	8	1	12,70
112/10	140	8	1	4,73	1374/460x12	152	8	1	14,02	1646-1/250-1,0	150	8	1	41,30	2079-18/2	141	8	1	15,25
112/11	140	8	1	4,01	1374/460x14	152	8	1	17,03	1646-1/500-1,0	150	8	1	65,44	2079-8/1	141	8	1	10,86
112/12	140	8	1	7,04	1374/460x16	152	8	1	19,90	1646-1/500-1,5	150	8	1	65,21	2079-8/2	141	8	1	13,67
112/13	140	8	1	5,37	1374/460x18	152	8	1	22,12	1646/500	150	8	1	64,58	2080-1/1	140	8	1	11,58
112/14	140	8	1	6,71	1374/460x20	152	8	1	25,75	1649	150	8	1	3,77	2080-1/2	140	8	1	13,97
112/15	140	8	1	8,04	1374/460x24	152	8	1	35,99	1653-1/250	159	8	1	14,20	2080/1	140	8	1	13,27
112/17	140	8	1	11,66	1374/600x12	152	8	1	27,27	1654-1/250	159	8	1	22,53	2080/2	140	8	1	14,87
112/19	140	8	1	16,09	1374/600x16	152	8	1	43,70	1655-1/250	159	8	1	15,67	2088-1/145	141	8	1	36,98
112/2	140	8	1	0,65	1379-3/10	153	8	1	25,46	1658-1/250	159	8	1	49,47	2088/145	141	8	1	2,68
112/2,5	140	8	1	0,70	1379-3/12	153	8	1	29,34	1664/200	159	8	1	14,07	21/250	135	8	1	120,28
112/22	140	8	1	36,04	1379-3/5	153	8	1	39,66	1666-1/250	159	8	1	27,43	2122	140	8	1	55,78
112/24	140	8	1	59,16	1379-3/6	153	8	1	23,08	1705/12	159	8	1	21,60	2126/7	140	8	1	64,45
112/3	140	8	1	0,70	1379-3/8	153	8	1	23,08	1705/15	159	8	1	37,25	2128	141	8	1	89,25
112/4	140	8	1	0,94	1379-4	153	8	1	112,18	1705/18	159	8	1	37,25	2139	141	8	1	30,24
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2515/2	160	8	1	12,77	3700/3	146	8	1	13,62	4405/5	148	8	1	67,63	619/11/2	135	8	1	73,60
2515/3	160	8	1	12,77	3700/5	146	8	1	on request	4405/7	148	8	1	66,42	619/2	135	8	1	126,54
2522	160	8	1	6,50	3701/10	146	8	1	61,83	4406	148	8	1	54,79	619/3	135	8	1	224,70
2523/240	160	8	1	2,68	3701/3	146	8	1	41,13	4407	148	8	1	57,34	6200/115	158	8	1	3,01
2524/235	160	8	1	3,85	3701/5	146	8	1	44,04	4408	148	8	1	60,38	6200/125	158	8	1	3,21
2525	160	8	1	1,58	3702/5	146	8	1	75,44	4426	147	8	1	191,43	6200/178	158	8	1	3,75
2525-1	160	8	1	1,58	3702/8	146	8	1	135,73	4427	147	8	1	94,92	6200/230	158	8	1	5,73
2525-2	160	8	1	1,58	3712/10x12	147	8	1	219,43	4428	147	8	1	32,27	6215/115	158	8	1	2,86
2526/100	160	8	1	1,33	3712/10x15	147	8	1	390,73	4429	147	8	1	30,63	6215/125	158	8	1	3,17
2528	160	8	1	26,02	3712/5x10	147	8	1	140,91	4429-1/5	147	8	1	49,08	6215/150	158	8	1	3,99
2550/700	161	8	1	54,38	3712/5x15	147	8	1	307,66	4430	148	8	1	20,40	6215/230	158	8	1	8,04
2562/1000	161	8	1	281,42	3713/10x10	147	8	1	190,52	4435/250	148	8	1	28,78	6219/125	158	8	1	185,93
27/300	135	8	1	97,99	3713/10x12	147	8	1	177,32	4435/350	148	8	1	40,80	622-1	144	8	1	17,11
2814/20	162	8	1	9,98	3713/5x10	147	8	1	88,70	4436/250	148	8	1	57,22	622/28	143	8	1	148,74
2836-1/1000	161	8	1	97,36	3713/5x12	147	8	1	102,11	4436/350	148	8	1	64,53	623-1/3/4-4	136	8	1	68,71
2836-1/400	161	8	1	55,49	3714/10	146	8	1	154,75	4443	148	8	1	174,38	623/3/4-4	136	8	1	158,18
2836-1/600	161	8	1	79,03	3714/5	146	8	1	92,31	4443-1	148	8	1	9,83	6240/115	158	8	1	25,52
2836-1/800	161	8	1	89,83	3720	146	8	1	261,81	4443-2	148	8	1	24,88	6240/125	158	8	1	32,17
2836/1000	161	8	1	55,59	3720-1	146	8	1	106,64	4444	148	8	1	59,91	6240/180	158	8	1	68,06
2836/300	161	8	1	41,54	3720-2	146	8	1	53,66	4446	148	8	1	32,64	6240/230	158	8	1	99,86
2836/400	161	8	1	42,99	3722	146	8	1	185,56	4447	148	8	1	57,03	625-1AK/ACO103	168	8	1	428,84
2836/600	161	8	1	49,59	3730/1	147	8	1	106,60	4447-0	148	8	1	61,55	625-1KO/ACO103	168	8	1	236,32
2836/800	161	8	1	51,87	3730/2	147	8	1	205,02	4447-1	149	8	1	84,78	625-1LA/ACO103	168	8	1	320,13
2845	142	8	1	163,62	3800-1/1	147	8	1	207,49	4447-11	149	8	1	63,19	625-1PM/ACO103	168	8	1	1.313,13
2861/50	162	8	1	5,22	3800-1/2	147	8	1	235,26	4452/1,5	149	8	1	25,33	625-1SE/ACO103	168	8	1	4.107,08
2862/50	162	8	1	6,63	3800-1/3	147	8	1	283,35	4452/2	149	8	1	45,42	625-20/PB1V12	170	8	1	325,29
2900/60	162	8	1	10,49	3800-1/4	147	8	1	612,07	4452/3	149	8	1	50,17	625-20/PB1V15	170	8	1	325,29
2904/140	162	8	1	10,63	3800-2	147	8	1	123,96	4452/5	149	8	1	63,95	625-20/PB1V18	170	8	1	325,29
2908/160	162	8	1	16,36	3800-3	147	8	1	225,09	49/250	137	8	1	20,86	625-20/PB1V22	170	8	1	325,29
2952/30	162	8	1	4,01	3805/1	147	8	1	39,79	49/310	137	8	1	28,42	625-20/PB1V28	170	8	1	325,29
2952/40	162	8	1	4,23	3805/2	147	8	1	46,88	5000	149	8	1	105,01	625-20/PB1V35	170	8	1	387,65
2952/50	162	8	1	4,91	3805/3	147	8	1	60,83	5100/350	149	8	1	10,69	625-23/PB1M12	170	8	1	325,29
2952/70	162	8	1	5,14	3805/4	147	8	1	81,64	516/220	136	8	1	33,92	625-23/PB1M15	170	8	1	325,29
2980	157	8	1	12,47	3805/5	147	8	1	161,00	5200	150	8	1	48,13	625-23/PB1M18	170	8	1	325,29
2982	157	8	1	9,92	3806/1	147	8	1	81,64	5205	150	8	1	95,65	625-23/PB1M22	170	8	1	325,29
2991	157	8	1	12,87	3806/2	147	8	1	161,00	5210	150	8	1	3,54	625-23/PB1M28	170	8	1	325,29
2992	157	8	1	3,76	3806/3	147	8	1	289,29	522	136	8	1	109,38	625-23/PB1M35	170	8	1	387,65
2993	157	8	1	8,18	3820	151	8	1	13,04	543/120	136	8	1	181,74	625-24/PB1T16	170	8	1	320,80
2994/160	162	8	1	27,34	3825	151	8	1	7,70	546-1/10	136	8	1	9,27	625-24/PB1T20	170	8	1	320,80
2996/135	162	8	1	7,07	3902	151	8	1	334,09	546-1/8	136	8	1	9,27	625-24/PB1T26	170	8	1	301,22
2997/25	162	8	1	4,24	3902-3	151	8	1	31,72	546-1/9	136	8	1	9,27	625-24/PB1T32	170	8	1	320,80
2997/40	162	8	1	5,42	3922/1-2	151	8	1	on request	546-10	136	8	1	19,38	625-24/PB1T40	170	8	1	412,34
2998	162	8	1	5,03	3923/2-4	151	8	1	on request	546-20	136	8	1	33,24	625-25/PB1U16	170	8	1	320,80
2999	150	8	1	0,74	3924/4-6	151	8	1	on request	546-30	136	8	1	49,74	625-25/PB1U20	170	8	1	320,80
2999-1/25	162	8	1	2,92	3925/6-9	151	8	1	on request	546-40	136	8	1	66,58	625-25/PB1U25	170	8	1	320,80
2999-1/50	162	8	1	4,74	3926/9-14	151	8	1	on request	546-50	136	8	1	83,15	625-25/PB1U32	170	8	1	320,80
3451/10	166	8	1	24,79	3936/1-2	151	8	1	on request	546-60	136	8	1	96,69	625-25/PB1U40	170	8	1	412,34
3454/10	166	8	1	6,51	3937/2-4	151	8	1	173,01	546/130	136	8	1	154,12	625-2KO/EPF203	168	8	1	270,12
3454/11	166	8	1	6,51	3938/4-6	151	8	1	on request	546/150	136	8	1	165,01	625-2PG/EPF203	168	8	1	2.845,50
3454/9	166	8	1	6,51	3939/6-9	151	8	1	on request	546/170	136	8	1	187,25	625-2SE/EPF203	168	8	1	3.958,23
3458/10	166	8	1	4,47	3946/1-2	151	8	1	52,80	548/10	136	8	1	49,99	625-30/PB2V12	170	8	1	369,96
3458/9	166	8	1	4,47	3947/2-4	151	8	1	52,80	548/12	136	8	1	53,04	625-30/PB2V15	170	8	1	369,96
3459/10	166	8	1	3,47	3948/4-6	151	8	1	52,80	548/8	136	8	1	47,36	625-30/PB2V18	170	8	1	369,96
3462/1-12	163	8	1	101,19	3949/6-9	151	8	1	55,46	548/9	136	8	1	47,36	625-30/PB2V22	170	8	1	372,87
3462/1-3	163	8	1	39,01	4005	151	8	1	35,01	550/180	136	8	1000	31,03	625-30/PB2V28	170	8	1	372,87
3462/1-4	163	8	1	54,22	4070	151	8	1	100,36	551/500	136	8	1	35,38	625-30/PB2V35	170	8	1	376,70
3462/1-6	163	8	1	41,87	4071	151	8	1	100,36	56/10x11	137	8	1	5,16	625-30/PB2V42	170	8	1	957,85
3462/1-8	163	8	1	70,48	4073/10	151	8	1	305,44	56/10x13	137	8	1	5,28	625-30/PB2V54	170	8	1	1.038,82
3462/10-25	163	8	1	503,47	4073/20	151	8	1	494,87	56/12x13	137	8	1	5,46	625-33/PB2M12	170	8	1	369,96
3466/1	163	8	1	365,98	4080	151	8	1	on request	56/14x15	137	8	1	7,26	625-33/PB2M15	170	8	1	369,96
3466/2	163	8	1	549,52	4081	151	8	1	on request	56/14x17	137	8	1	7,71	625-33/PB2M18	170	8	1	369,96
3466/3	163	8	1	826,48	4082	151	8	1	on request	56/16x17	137	8	1	8,75	625-33/PB2M22	170	8	1	372,83
3467/1	163	8	1	204,61	4090	151	8	1	192,01	56/17x19	137	8	1	9,76	625-33/PB2M28	170	8	1	372,87
3467/3	163	8	1	361,64	4091	151	8	1											

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625-4SE/ECO203	168	8	1	4.474,29	637-1/20	146	8	1	100,82	725	142	8	1	39,66	912/48	154	8	1	143,48
625-53/PS3M08	171	8	1	2.950,43	637-1/22	146	8	1	100,82	7360	165	8	1	529,34	912/49	154	8	1	143,48
625-53/PS3M42	171	8	1	1.545,26	637-1/26	146	8	1	161,57	7362	165	8	1	1.281,65	912/50	154	8	1	149,45
625-53/PS3M54	171	8	1	1.545,26	637-1/32	146	8	1	268,85	7410	164	8	1	396,64	912/51	154	8	1	158,11
625-53/PS3M64	171	8	1	2.255,07	637-10	145	8	1	1.177,53	7413	164	8	1	779,26	912/52	154	8	1	158,11
625-53/PS3M76	171	8	1	2.015,13	637-2	146	8	1	4,28	7416	165	8	1	426,12	912/53	154	8	1	162,51
625-53/PS3M88	171	8	1	2.209,44	637-20	145	8	1	1.041,18	7418	164	8	1	721,39	912/55	154	8	1	170,56
625-5AK/ACO203	169	8	1	878,47	637-4	146	8	1	16,50	7419	164	8	1	801,65	913/10x1	154	8	1	8,18
625-5KO/ACO203	169	8	1	302,38	637-6/1	146	8	1	118,90	7420/1	165	8	1	273,68	913/12x1,5	154	8	1	10,80
625-5KO/ACOXL	169	8	1	302,38	637-6/2	146	8	1	118,90	7420/2	165	8	1	290,34	913/16x1,5	154	8	1	13,95
625-5LA/ACO203	169	8	1	on request	637-6/3	146	8	1	144,76	7438	164	8	1	1.162,66	92-1	139	8	1	70,24
625-5PM/ACO203	168	8	1	3.869,77	637-6/4	146	8	1	158,98	7515	165	8	1	96,68	92/10x11	139	8	1	5,16
625-5SE/ACO203	168	8	1	5.309,07	637-6/5	146	8	1	401,98	7516	165	8	1	471,01	92/12x13	139	8	1	5,91
625-5XL/ACO203	169	8	1	5.547,64	638/12	145	8	1	79,62	7530	164	8	1	1.425,43	92/14x15	139	8	1	6,23
625-63/PS4H08	171	8	1	3.572,97	638/15	145	8	1	101,45	762/260	158	8	1	61,72	92/17x19	139	8	1	9,25
625-63/PS4H76	171	8	1	2.783,81	638/18	145	8	1	116,73	7640	146	8	1	278,89	92/19x22	139	8	1	11,39
625-63/PS4H88	171	8	1	2.848,82	638/22	145	8	1	127,63	7640-1	146	8	1	88,28	92/20x22	139	8	1	12,39
625-7KO/PS323	169	8	1	304,92	64/10	137	8	1	7,08	7640-2	146	8	1	116,36	92/22x24	139	8	1	14,34
625-7KO/PS324	170	8	1	304,92	64/13	137	8	1	8,50	7641	146	8	1	446,22	92/24x27	139	8	1	16,09
625-8PG/ACO403	169	8	1	9.084,56	64/17	137	8	1	12,05	7641-1	146	8	1	103,85	92/30x32	139	8	1	21,99
625-KO/PB1	169	8	1	227,00	64/19	137	8	1	13,84	786/260	158	8	1	49,77	92/32x36	139	8	1	36,79
625-KO/PB2	169	8	1	254,31	64/24	137	8	1	20,61	792/250	158	8	1	32,37	92/6x7	139	8	1	4,81
625-KO/PS2	169	8	1	276,05	646	145	8	1	17,41	793/250	158	8	1	32,37	92/8x9	139	8	1	5,43
625-KO/ZBXL	170	8	1	304,92	647/63	145	8	1	96,41	794/250	158	8	1	32,88	94/10	139	8	1	8,11
625-ZB/221XL	171	8	1	1.379,63	648/35	145	8	1	80,56	798/300	158	8	1	51,05	94/13	139	8	1	9,12
625-ZB/222XL	171	8	1	1.379,63	648/54	145	8	1	91,73	8030/1,0	150	8	1	39,09	94/17	139	8	1	13,62
625-ZB/PS203	171	8	1	487,11	655	142	8	1	63,22	8030/1,5	150	8	1	39,75	94/19	139	8	1	15,76
625-ZB/SETXL	171	8	1	3.056,95	655-1/10	142	8	1	12,22	8061/1,0	150	8	1	4,63	94/22	139	8	1	19,31
627	144	8	1	130,15	655-1/11	142	8	1	12,22	8061/1,5	150	8	1	5,16	94/36	139	8	1	46,38
627-1	144	8	1	8,91	655-1/12	142	8	1	12,22	8080	150	8	1	50,33					
627-2	144	8	1	8,14	655-1/14	142	8	1	12,22	81-1/10	137	8	1	163,32					
627-4	144	8	1	5,63	655-1/32	142	8	1	25,57	83	136	8	1	43,38					
628-1	144	8	1	53,76	655-1/9	142	8	1	12,22	90/10	139	8	1	11,13					
628/140	144	8	1	225,80	659	142	8	1	38,43	90/11	139	8	1	12,13					
629-1/2	144	8	1	13,28	66-1/10	137	8	1	104,31	90/12	139	8	1	12,13					
629-1/4	144	8	1	37,64	66-1/8	137	8	1	64,80	90/13	139	8	1	12,13					
629-2/2	144	8	1	13,94	660	136	8	1	33,70	90/9	139	8	1	11,13					
629-2/4	144	8	1	22,12	661	142	8	1	34,71	900/11	154	8	1	53,21					
629-3/2	144	8	1	6,71	662	142	8	1	31,47	900/13,5	154	8	1	55,46					
629-3/4	144	8	1	7,38	663	136	8	1	19,05	900/16	154	8	1	57,58					
629-4/2	144	8	1	5,96	665/235	142	8	1	53,46	900/21	154	8	1	54,60					
629-4/4	144	8	1	22,12	666/1	139	8	1	20,02	900/29	154	8	1	88,04					
629/2	144	8	1	157,60	666/2	139	8	1	20,65	900/36	154	8	1	131,71					
629/4	144	8	1	518,33	670/170	139	8	1	23,71	900/42	154	8	1	165,45					
631	143	8	1	23,84	671/240	139	8	1	22,12	900/48	154	8	1	199,03					
631-10	143	8	1	40,41	672/265	138	8	1	46,18	900/9	154	8	1	44,85					
631-12	143	8	1	6,18	673-1/1	139	8	1	48,60	9001	135	8	1	127,36					
631-13	143	8	1	3,08	673-1/2	139	8	1	58,89	905/16,5	154	8	1	49,18					
631-14	143	8	1	4,37	673-2/2	139	8	1	64,83	905/20,5	154	8	1	58,15					
631-2	143	8	1	6,18	673/105	139	8	1	37,92	905/25,5	154	8	1	71,45					
631-3	143	8	1	3,08	673/86	139	8	1	28,01	905/32,5	154	8	1	82,35					
631-4	143	8	1	4,37	674	138	8	1	81,07	905/40,5	154	8	1	118,90					
631-5	143	8	1	28,76	675	138	8	1	71,12	905/50,5	154	8	1	161,98					
631-52	143	8	1	6,18	676	142	8	1	44,62	905/63,5	154	8	1	225,26					
631-53	143	8	1	3,08	676-1	142	8	1	94,20	910/11/4	154	8	1	56,28					
631-54	143	8	1	4,37	677	142	8	1	225,59	910/11/8	154	8	1	54,74					
632-1	144	8	1	5,96	677-1	142	8	1	396,64	912/15	154	8	1	45,99					
632-11	144	8	1	5,96	682/250	135	8	1	54,54	912/16	154	8	1	48,14					
633-1	144	8	1	9,06	685/175	135	8	1	34,90	912/17	154	8	1	48,14					
633-2	144	8	1	10,06	685/240	135	8	1	38,18	912/18	154	8	1	48,14					
633-3	144	8	1	6,18	685/300	135	8	1	50,17	912/19	154	8	1	52,44					
633-4	144	8	1	6,71	687/150	135	8	1	42,35	912/20	154	8	1	52,44					
633-71/35	143	8	1	94,20	687/180	135	8	1	42,38	912/21	154	8	1	52,44					
633-75	144	8	1	19,59	687/250	135	8	1	52,51	912/22	154	8	1	56,40					
633-75A	144	8	1	27,84	687/300	135	8	1	65,68	912/23	154	8	1	56,40					
633-76	143	8	1	45,14	687/400	135	8	1	152,51	912/24	154	8	1	56,40					
633/35	144	8	1	53,70	689/180	135	8	1	69,54	912/25	154	8	1	64,54					
633/45	144	8	1	61,97	689/240	135	8	1	68,10	912/26	154	8	1	64,54					
634-1/35	145	8	1	37,13	696/240	136	8	1	63,70	912/27	154	8	1	64,54					
634/35	145	8	1	66,94	7000/15	165	8	1	36,48	912/28	154	8							

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Legend

	total length in mm	role/G	role weight in g
	total length in m	rope mm ²	Cable cross-section
	span width in mm	rope Ø	Suitable for lanyard diameter
	Tube diameter	rope-Ø	rope diameter in mm
	span width in mm	s	material thickness
Ø	diameter in mm	Sbl.	saw blade length
A	sleeve length	se	single core sector
Al	aluminium	Shaft Ø	Shaft diameter
B	flange width	size	size in mm
Balloon Ø	Balloon diameter	sm	multiple core sector
BL	blade length	span Ø	Jaw width
c	flange length	strength (St.)	strength in mm
c1	flange length 1	Tin %	Tin percentage
c2	flange length 2	TL	total length in m
CL	cutting length	TM	thread metric
Col.	colour	TMA	tested/Measured area
Cont.	content	TPI	Teeth Per Inch
content ml	content in ml	Tube Ø	Tube diameter
crimp	crimping range	v1	slim pressing
crimp coaxial	crimping range coaxial	v2	width in mm
crimp modular	crimping range modular	width (B)	width in mm
CSS	cross-section in mm	WS	wrench size
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		
KIBr	Blade width		
kN	Lifting capacity		
l	length in mm		
Loc.	locator		
mat.	material		
max. ml	Cartridge capacity		
max. Ø	Max. cartridge diameter		
mm ²	diameter in mm ²		
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 mm ²	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		

HAUPA GmbH & Co. KG General Terms and Conditions of Business and Delivery

1 General/ provisions/Scope

1.1 These HAUPA GmbH & Co. KG (hereinafter referred to as "HAUPA") General Terms of Business and Delivery apply exclusively. Terms and conditions of a HAUPA contractual partner (hereinafter referred to as a "Customer") that contradict or deviate from these Terms and Conditions of Sale and Delivery will not be recognised unless HAUPA has expressly agreed in writing to the applicability of such deviating terms and conditions. These Terms and Conditions of Business and Delivery shall also apply if HAUPA makes a delivery to a Customer without reservation with knowledge that the Customer's terms and conditions conflict with or deviate from these Terms and Conditions of Business and Delivery.

1.2 These Terms and Conditions of Business and Delivery also apply to all future transactions with the Customer.

1.3 These Terms and Conditions of Business and Delivery only apply in dealings with business enterprises.

2 Offer and acceptance

2.1 All offers from HAUPA are subject to confirmation. This is subject to reservation of the right to discontinue articles and to make price changes. The scope of HAUPA's delivery obligation is determined by its order confirmation or offer. Verbal and telephonic agreements only become effective upon written confirmation.

2.2 If an order qualifies as an offer according to section 145 German Civil Code (BGB), HAUPA may accept such an offer within four weeks. A contract is concluded at the latest upon dispatch of the order confirmation, shipment of ordered goods or, in the case of partial delivery, upon shipment of the first delivery.

2.3 Documents, drawings, weight and measurement data, samples, etc. contained in offers are only approximate information and do not represent guaranteed characteristics. HAUPA is entitled to deviate from descriptions in an offer, provided that such deviations are not of a fundamental or essential nature and do not impair the contractually intended use.

2.4 If parts are manufactured by HAUPA according to Customer drawings, drawings prepared by HAUPA and approved by the Customer are deemed to be authoritative. Deviations from approved drawings must be agreed separately and any additional costs incurred as a result must be reimbursed.

2.5 If the Customer requests customised cost estimates, any associated expenses must be reimbursed. If an order is placed, any respective expenses in this regard will be offset against the purchase price.

3 Intellectual property rights

3.1 HAUPA reserves ownership and copyright to all illustrations, drawings, calculations and other documents. Without limitation, this applies to written documents that are designated as "confidential". They may only be disclosed to third parties by the Customer with the prior written consent of HAUPA.

3.2 If supplies of goods and services are made on the basis of drawings or other information provided by the Customer, and if third-party industrial property rights are asserted in this regard, as between the parties, the Customer shall indemnify HAUPA against all such claims.

4 Delivery/Delay in delivery

4.1 Delivery periods and delivery dates shall only be deemed to have been agreed as binding if they are expressly agreed in writing in the offer. HAUPA shall not be bound by the delivery date or the delivery period if the Customer does not fulfil its obligations (instalment payments, provision of necessary documents, etc.) on a timely basis. The right to assert the defence of non-performance of the contract remains reserved.

4.2 Delivery periods shall commence on the day on which the contract was concluded in writing at the earliest. The commencement of such period presupposes clarification of all technical questions.

4.3 In the event of subsequent changes requested by the Customer, HAUPA is released from the obligation to comply with the delivery date or delivery period.

4.4 The delivery period shall be deemed to have been complied with if the delivery item has left HAUPA's works, or HAUPA has provided notice that goods are ready for dispatch, by the end of the delivery period.

4.5 The Customer cannot assert any claims due to delays in delivery which are not due to intent or gross negligence on the part of HAUPA. This applies in particular to delays in delivery due to a force majeure event. In such cases, the agreed delivery date or delivery period shall be postponed in accordance with the duration of the respective impediment to delivery.

4.6 Returns can only be made with the express prior consent of HAUPA. Parts from the current delivery programme must be returned in their original packaging free of defects and in salable condition. Returns must be carriage paid and at the risk of the sender with deduction of a 20% return fee. Processing fees will be deducted on a time and materials basis. Such costs may include recoding, cleaning and repackaging expenses.

4.7 If the Customer is in default of acceptance or violates other duties to cooperate, HAUPA is entitled to demand compensation for damages incurred in this respect, including any additional expenses. HAUPA is also entitled to set a reasonable acceptance period for the Customer and to withdraw from the contract after its expiry without success and may claim damages in lieu of performance.

4.8 In the case of special articles, HAUPA reserves the right to make over or underdeliveries of up to 10%.

5 Passage of risk/ Packaging

5.1 Risk shall pass to the Customer upon dispatch of the goods at the latest, even if partial deliveries are made.

5.2 Deliveries are made ex works. HAUPA will insure the goods against insurable risks at the expense of the Customer only on the Customer's express request.

5.3 Transport packaging and all other packaging in accordance with the Packaging Ordinance shall not be taken back. The Customer is obliged to arrange for the disposal of such packaging at its own expense.

6 Prices/Payment terms

6.1 Unless otherwise stated in the order confirmation, prices quoted are ex works in all cases, excluding packaging, which shall be charged separately.

6.2 Quoted prices are net prices; statutory value added tax will be added at the applicable rate.

6.3 HAUPA may charge the Customer for any additional costs incurred as a result of subsequent change requests.

6.4 Invoices are due for payment within 30 days of the invoice date without deduction. Discounts shall only be deemed agreed if expressly confirmed in writing by HAUPA.

6.5 HAUPA is entitled, even in the event of conflicting payment terms of the Customer, to apply payment first to the oldest obligation not yet reduced to judgement. If costs or interest have already been incurred, HAUPA is entitled to set off payments first against the costs, then against interest and finally against the principal obligation.

6.6 HAUPA is entitled to assign claims within the HAUPA Group.

6.7 The Customer is only entitled to apply a set-off if and insofar as its counterclaims have been reduced to final judgement, are undisputed or have been acknowledged in writing by HAUPA. The Customer's right of retention is limited to claims arising from the contractual relationship.

7 Liability

7.1 HAUPA is not liable for damages caused by improper handling, wear, storage or other actions of the Customer or third parties.

7.2 Statutory claims arising from liability for material defects shall become time-barred 24 months after delivery of the goods. This does not constitute a guarantee of liability. Batteries are excluded from this limitations period. For supplies of batteries, we only recognise a period of six months from delivery. This does not constitute a guarantee of durability.

7.3 The Customer is obliged to comply with its duty of inspection according to section 377 German Commercial Code (HGB) even if the goods are resold.

7.4 HAUPA has the right to choose between repair or replacement.

7.5 HAUPA shall not bear expenses required for the purpose of tracking if such expenses are increased by the fact that the goods were taken to a place other than the Customer's place of business after delivery. This does not apply if moving the product conforms to its intended use.

7.6 The Customer's right of recourse against HAUPA on account of claims arising from liability for material defects asserted against the Customer by its customers is excluded if the Customer has not fulfilled its obligation to inspect and give notice of defects or if the goods have been modified by means of processing.

7.7 HAUPA's liability for damages according to applicable statutory provisions is unlimited if a breach of duty attributable to HAUPA is based on intent or gross negligence. To the extent that the respective breach of duty attributable to HAUPA is due to ordinary negligence, and an essential contractual obligation has been culpably breached, liability for damages is limited to foreseeable damages typically occurring in comparable cases. Liability is excluded all other cases.

7.8 This is without prejudice to liability according to the provisions of the Product Liability Act. This is likewise without prejudice to liability for injury to life, limb and health.

8 Retention of title

8.1 HAUPA retains title to all parts that have been delivered until receipt of all payments under the delivery contract. If the Customer is in breach of contract, in particular by being in default of payment, HAUPA is entitled to repossess the goods.

8.2 The Customer is obliged to treat all goods delivered to it with care and to insure them, at its own expense, against any form of destruction at their replacement value for the period during which title is retained.

8.3 Costs for maintenance and inspection work shall also be borne by the Customer during the period during which title is retained even if such work carried out by HAUPA.

8.4 In the event of seizures or other forms of attachment by third parties, the Customer must inform HAUPA immediately in writing so that HAUPA may intervene as a third party. In the event that a third party is not in a position to reimburse the judicial and extrajudicial costs of such an action, the Customer shall be liable for such costs.

8.5 The Customer is entitled to resell purchased items in the ordinary course of business. However, the Customer hereby assigns to HAUPA all claims that accrue to it from resales to their customers or third parties in the amount of HAUPA's final invoice amount (including VAT), irrespective of whether the object of sale has been resold without or after processing. The Customer remains entitled to collect such claim even after delivery. This is without prejudice to HAUPA's authority to collect such claims itself. However, HAUPA undertakes not to collect such claims as long as the Customer meets its payment obligations from the proceeds collected, is not in default of payment and, in particular, no petition for the opening of insolvency proceedings has been filed or payments have not been suspended.

8.6 If delivered goods are inseparably mixed or combined with other objects not belonging to HAUPA, HAUPA shall acquire co-ownership of the new or combined object in the ratio of the value of the delivered goods (final invoice amount including value added tax) to the other object(s) at the time of mixing

or combining. The Customer shall safeguard sole ownership or co-ownership thus created on behalf of HAUPA.

8.7 Payment of cost allocations for tools do not entitle the Customer to such tools; they remain the sole property of HAUPA.

9 Prohibition of assignment

No claims of the Customer against HAUPA arising from the contractual relationship may be assigned.

10 Product liability

10.1 The Customer may only use the goods as intended and must ensure that such goods are resold only to persons familiar with the product hazards and risks.

10.2 When using the goods as raw materials and component products for its own products, the Customer is likewise obliged to comply with its warning obligation with regard to goods delivered by HAUPA when placing the end product on the market. As between the parties, the Customer shall, upon first request, indemnify and hold HAUPA harmless against the assertion of claims in the event of a breach of this obligation.

11 Miscellaneous/Final provisions

11.1 The place of performance is the location of HAUPA's registered office.

11.2 The place of jurisdiction for all disputes arising under or in connection with this contract is the location of HAUPA's registered office. However, HAUPA is also entitled to sue the Customer at the court located at the location of the registered office the Customer with general jurisdiction over the Customer or at the place where the Customer has a branch office.

11.3 The domestic law of the country in which HAUPA has its registered applies exclusively to the exclusion of the UN Convention on Contracts for the International Sale of Goods.

12 Data protection

12.1 In accordance with section 4 of the German Federal Data Protection Act, the Customer agrees that personal data may be processed by the contractor using electronic means. It is aware that data will not be transferred to third parties outside the HAUPA Group and that it may refuse or withdraw consent with effect for the future.

Last updated: August 2018

Quality

HAUPA has been certified according to DIN EN ISO 9000 since 1996 (2003 DIN EN ISO 9001).

In order to incorporate a true quality standard the quality management department of HAUPA decided at a very early stage to apply for ISO 9000 certification, which controls and covers the complete internal working and monitoring procedures. From goods receipt to dispatch – all working processes are carried out according to defined procedures.

All HAUPA employees receive regular training in order to comply with these standards and to encourage them to actively suggest ways of improving the processes. Special, so-called QMB employees analyse modified structures and integrate these into the defined standards. Independent auditors carry out audits at regular intervals to ensure compliance.

DIN EN ISO 9001:2015 - Certificates



german



english

Memberships



ETIM
International



Bergische Industrie- und Handelskammer
Wuppertal-Solingen-Remscheid

HAUPA products are certified in accordance with



VDE GS



1000V IEC 60900



RoHS



EAC



UL



Brunel

BRINKO®

haupa®

... together even stronger

The acquisition of BRINKO Werkzeuge Fellermann (now renamed BRINKO) by the HAUPA Group on 01.01.2020 opens completely new perspectives for the entire heating & plumbing and electrical wholesale business. Our portfolio for each of these wholesale areas will be extended by a comprehensive product spectrum.

Both companies HAUPA and BRINKO have a very traditional, family run background. BRINKO with its 160 years of experience in the field of heating & plumbing tools is firmly rooted in Remscheid, the center of the tool industry in Germany, as is HAUPA with 60 years of successful business with our extensive range of tools for electrical installations and cable connection technology.

The merger of the two companies and the associated competencies and synergy effects will open completely new avenues for the heating & plumbing and electrical industry.

HAUPA + BRINKO are your partners for reliable, innovative and future-oriented collaborations.



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BRINKO[®]



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