

6.0 Pliers / Tweezers



Tools

Bolt cutters

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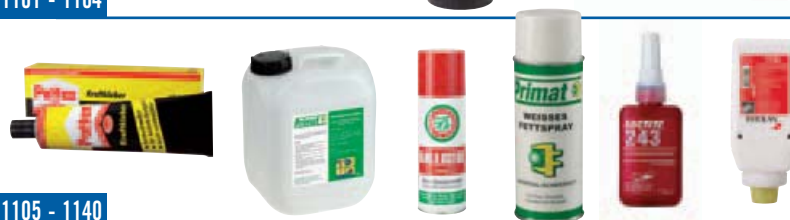


6.9 Chemical products

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Adhesives

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Professional pliers made of C60 tool steel

- Cutting edges induction hardened to 64 HRc
- Handles made of 2-component plastic, secure grip, comfortable gripping zone with inner opening aid for fatigue-free work
- finely polished, matt chrome plated

60 800 C60 strong combination pliers

- particularly long cutting edge for flat and round cables for cutting soft and piano wires
- DIN ISO 5746
- eccentric joint (30% less effort)
- additional gripping surface underneath the joint

Primat


60 800 320

Overall length mm	60 800...	
200	320	

60 803 C 60 side cutters

- with lap joint
- particularly high-precision cutting edge for cutting soft and piano wires
- DIN ISO 5749

Primat


60 803 316

Overall length mm	60 803...	
160	316	

60 804 C60 strong side cutters

- with optimised force transfer through joint tappet
- particularly high-precision cutting edge for cutting soft and piano wires
- DIN ISO 5749

Primat


60 804 318

Overall length mm	60 804...	
180	318	

60 807 C60 long nose pliers

- particularly high-precision cutting edge for cutting soft and piano wires
- DIN ISO 5749
- ...320: straight
- ...322: 45° bent nose

Primat


60 807 320



60 807 322

Overall length mm	60 807...	
200	320	
200	322	



60 002 Combination pliers

with **extra long, additionally induction hardened cutting edge** for medium-hard wire, hard, serrated jaw gripper surfaces made of special tool steel,

Type:

116 - 120 Head polished, with red PVC dipped handles

416 - 420 chrome plated, handles with thick multi-component sheathing



60 002 116 - ...120



60 002 416 - ...420

Overall length mm	60 002... polished		60 002... chrome plated	
160	116		416	
180	118		418	
200	120		420	

60 008 Combination pliers

handy shape, for cutting hard and soft wire, heavy-duty, cutting edges with additional induction hardening, made of special tool steel, oil hardened (60 HRC)

Type:

114 - 120 Head polished, handles with plastic coating

216 - 220 Head polished, handles with two-coloured multi-component sheathing

314 - 320 Head chrome plated, handles with two-coloured multi-component sheathing



60 008 114 - ...120



60 008 216 - ...220



60 008 316 - ...320

Length mm	60 008... polished		60 008... polished		60 008... chrome plated	
140	114		-	-	-	-
160	116		216	-	316	-
180	118		218	-	318	-
200	120		220	-	320	-

60 006 Strong combination pliers

with high mechanical advantage for the toughest continuous stress, cuts all wires (including piano wire), cutting edges additionally induction hardened (approx. 64 HRC), made of special grade tool steel, oil hardened

Type:

118 - 122 Head polished, handles coated with plastic

318 - 322 Head polished, handles with two-coloured multi-component sheathing

418 - 422 Head chrome plated, handles with two-coloured multi-component sheathing



60 006 118 - ...122



60 006 318 - ...322



60 006 418 - ...422

Overall length mm	60 006... polished		60 006... polished		60 006... chrome plated	
180	118		318		418	
200	120		320		420	
225	122		322		422	

60 021 Small combination pliers

fully functional pliers for professionals and DIY enthusiasts, oil hardened, with cutting edges for hard and soft wire. Cutting edges additionally induction hardened, handles with multi-component sheathing.



60 021 110

Overall length mm	60 021...	
110	110	



60 034 Water pump pliers

DIN ISO 5231 D, with handy, profiled handles, box slip joint, 7 position adjustable jaws, made of chrome vanadium steel

Type: painted red, jaw and frame polished

Primat®



60 034 117



60 034 124



60 034 130

Overall length mm	60 034...		Jaw capacity mm
175	117		30
240	124		35
300	130		40

60 036 Water pump pliers

DIN ISO 8976, with knurled, practical handles, adjustable box slip joint and limit stop, particularly powerful mounting due to forged on collar,

Material: Chrome vanadium steel

Type: painted red, jaw and frame polished

VBW



60 036 115

Overall length mm	60 036...		Jaw capacity mm
150	115		18
240	124		30
300	130		40

60 039 "Alligator" water pump pliers

DIN 8976, self-locking on pipes and nuts - no slipping, with box slip joint, 7 position adjustable gripping jaws with special hardened teeth approx. 61 HRC, with anti-pinch protection,

material: Chrome vanadium electric steel, oil hardened,

type:

118 - 130 Head polished, handles with plastic coating

225 chrome plated, handles with plastic coating

325 - 330 chrome plated, handles with multi-component sheathing

KNIPEX



60 039 125



60 039 325

Overall length mm	60 039...		Jaw capacity mm
180	118		30
250	125		36
300	130		46
250	225		36
250	325		36
300	330		46

60 040 "Speedy" water pump pliers

- additional inductive tempering of the teeth - permanently sharp
- spring-driven sliding block - automatic engagement
- Adjustment without pushbutton - no changeover
- drop forged - tough
- optimised jaw design - self-locking
- Quick snap ratchet principle - quick infeed
- 10 or 12 position latch - fine graduation
- handle always in optimum position - improved ergonomics
- anti-pinch protection - safe
- box joint - reliable

Primat®



60 040 125

Adjustment without pushbutton -
no changeover



60 040 133

Overall length mm	60 040...		Jaw capacity mm
250	125		38
330	133		48



60 042 “Cobra” water pump pliers

with box joint, **fast and precise fitting adjustment at the press of a button directly at the workpiece**, no inadvertent adjustment, with 11-14 position fine adjustment, anti-pinch protection prevents injuries, gripping surfaces with special hardened teeth (61 HRC), **material:** Chrome vanadium electric steel, oil hardened

Type:

115 - 130 Head polished, handles with plastic coating

218 - 230 chrome plated, handles with plastic coating

325 - 330 chrome plated, handles with two-coloured multi-component sheathing

Overall length mm	60 042...		Jaw capacity mm
150	115		30
180	118		30
250	125		36
300	130		46
180	218		30
250	225		36
300	230		46
250	325		36
300	330		46



60 042 115



60 042 118



60 042 130



60 042 225



60 042 325 + ...330

60 041 “Cobra” ES water pump pliers

Type as 60 042...

In addition, especially slender design:

The extra slim water pump pliers.

- particularly good access to the workpiece due to the very slender design in the whole head and joint area
- ideal for service and maintenance, equipment repair, automobile sector and industry

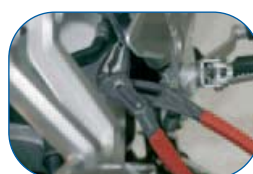
Type:

Head polished, handles covered with slip-resistant plastic

Overall length mm	60 041...		Jaw capacity mm
250	125		42



60 041 125



60 043 Pipe wrenches and water pump pliers “Cobra XL/XXL”

- Pipe wrench and water pump pliers in one tool
- Self-locking on pipes and nuts, no slipping on the workpiece and less effort to use
- New jaw geometry: optimised for pipes and threaded connection
- Replaces three pipe wrenches: S-type, 45°, 90°
- Fast, precise-fitting adjustment directly at the workpiece
- No inadvertent shifting
- Non-slip joint
- Fine adjustment
- Optimum lever action
- In many situations can be used as a spanner
- Gripping surfaces with special hardened teeth, hardness of the teeth approx. 61 HRC: Secure gripping due to high wear-resistance
- Chrome vanadium electric steel, oil hardened and tempered



Advantages:

...140

Jaw capacity for pipes up to 3 1/2" and length of a 1 1/2" pipe wrench

20% less weight than 1 1/2" pipe wrench

27 adjustment positions

...156

Jaw capacity for pipes up to 4 1/2" and length of 2" pipe wrench

40% less weight than comparable pipe wrenches



60 043 140

60 043 156

Overall length mm	60 043...		up to pipe external Ø	Jaw capacity mm
400	140		3 1/2	95
560	156		4 1/2	120



60 049 SmartGrip® water pump pliers

The water pump pliers with automatic adjustment (patented)

- Automatic adjustment at the workpiece through simple pressing together of the pliers handles
- One-hand operation for left and right-handed persons
- Locking lever enables space-saving transport with safe, securely closed handles
- Fine adjustment ensures favourable position of the pliers handles at all times
- Good access to the workpiece due to slender design
- Capacity:
 - for nuts: AF 10 - 36 mm
 - for pipes: Ø 1/8" - 1 1/4"
- Box joint: High stability due to double guide and reliable latching of the joint bolt
- Self-locking on pipes and nuts:
- Gripping surfaces with special hardened teeth, hardness of the teeth approx. 61 HRC
- Favourable lever action
- Pinch-protection prevents injuries
- Chrome vanadium electric steel, forged, oil hardened and tempered

Type:

Head polished, handles covered with slip-resistant plastic



Adjustment by simply pressing together the handles



60 049 125



Overall length mm	60 049...		Capacity for pipes Inch	Capacity for nuts mm
250	125		1 1/4	36

60 052 Water pump pliers

- with grooved joint
- Drop forged from special high-quality tool steels
- Individually tempered using high-frequency induction hardening method
- Cutting edges with additional induction hardening
- Corrosion-protected by electroplated coating
- Elastic gripping zones and hard core

Type:

025 chrome plated, handles with two-coloured multi-component sheathing

125 Head polished, handles with plastic coating



60 052 025



60 052 125

Overall length mm	60 052...		Jaw capacity mm
250	025		36
250	125		36

60 044 Water pump pliers

DIN 8976, **with grooved joint**, easy, smooth latching due to milled rotary swivel, in five different positions, absolutely secure fit of the the two parts of the pliers in any latched position, no slipping of the joint, anti-pinch protection prevents injuries, made of chrome vanadium electric steel, oil hardened

Type:

120 + 125 Head polished, handles with plastic coating

025 + 225 chrome plated, handles with plastic coating

325 Head chrome plated, handles with two-coloured multi-component sheathing



60 044 025



60 044 120 + ...125



60 044 225



60 044 325

Overall length mm	60 044...		Jaw capacity mm
125	025		14
200	120		30
250	125		36
250	225		36
250	325		36

60 060 Universal mole grips

with forged, half-round serrated gripping jaws and wire cutter,
with quick release lever

Material: Chrome vanadium steel, bright nickel plated

Uses: round and flat material



60 060...

Overall length mm	60 060...		Capacity mm
110	110		30
125	112		32
180	118		35
250	125		50
300	130		65

60 061 Mole grips with V-jaws

Upper jaw with lengthwise grooves, lower jaw with V-cut surface

Material: Chrome vanadium steel, nickel plated

Uses: round and flat material



60 061...

Overall length mm	60 061...		Capacity mm
180	001		27
250	003		32

60 062 Parallel mole grips

with movable bottom jaw, enables parallel pressure on the whole jaw
surface at all opening widths, forged jaws, with quick release lever

Material: Chrome vanadium steel, bright nickel plated

Uses: round and flat material



60 062 125

Overall length mm	60 062...		Capacity mm
250	125		45

with movable jaw

60 064 Ideal mole grips

with forged, universal double-V gripping jaws, with quick release
lever,

Material: Chrome vanadium steel, bright nickel plated

Uses: round, profiled and angular material



60 064...

Overall length mm	60 064...		Capacity mm
180	118		45
250	125		45

60 066 Long-nose self-grip pliers

with integrated steel cutter, bright nickel plated, suitable for places
difficult to access and very small workpieces



60 066...

Overall length mm	60 066...		Jaw thickness at the tips mm	Capacity mm
130	113		2	48
150	115		3	57
230	123		5	76

60 068 Self-grip welding clamp

U-shaped gripping jaws, top with 90° angle, for all welding work
on profiled or flat material

Material: Chrome vanadium steel, bright nickel plated, clamps
workpieces with easily controllable pressure



60 068 128

Overall length mm	60 068...		Capacity mm
280	128		55



60 070 W-type pipe weld pliers

Top V-shaped bent gripping jaw for clamping with three-point support, for centring and gripping tubular parts

Material: Chrome vanadium steel, bright nickel plated

Primat



60 070 128

Overall length mm	60 070...		Capacity mm
280	128		10 - 90

60 072 Self-grip sheet metal clamp

with particularly wide (80 mm), flat gripping jaws, with quick release lever,

Material: Chrome vanadium steel, nickel plated

Particularly suitable for bending sheet metal

Primat



60 072 118

Overall length mm	60 072...		Capacity mm
180	118		45

60 074 self-grip C clamp

grasps bulky workpieces with movable clamping jaws

Material: Chrome vanadium steel, bright nickel plated

Primat



60 074...

Overall length mm	60 074...		Capacity mm
150	115		54
280	128		75
460	146		225

60 075 Self-grip chain wrench

clamps workpieces of different shapes and sizes, can also be used as a ratchet in both directions

Primat



60 075 001

Overall length mm	60 075		Clamping Ø mm
225	001		150

60 076 Universal mole grips/ locking bar pliers

with parallel clamping surfaces and V recess for smaller round parts



60 076 110

Capacity mm	60 076...		Reach mm
100	110		65
200	120		65

60 080 Tapered vehicle pliers

- for very narrow screw fittings
- special tool steel, hardened and tempered in oil
- Plastic coated handles

KNIPEX



60 080 001

Length mm	60 080...		Head shape
200	001		straight
200	003		20° angled head



60 080 003



60 103 Flat-nosed plierswith long, flat jaws, **material:** Tool steel**Type:****116** Head polished, with red PVC dipped handles**416** chrome plated, handles with thick, multi-component sheathing

60 103 116



60 103 416

Overall length mm	60 103...		60 103... chrome plated	
160	116		416	

60 106 Flat-nosed pliers

DIN 5745, short, flat jaws, gripping surfaces serrated,

Material: Special tool steel, oil hardened**Type:****112 - 118** Head polished, handles with plastic coating**314 - 316** Head chrome plated, handles with two-coloured multi-component sheathing

60 106 112 - ...118



60 106 314 + ...316

Overall length mm	60 106...		60 106... chrome plated		Jaws length mm
125	112		-	-	27
140	114		314	-	28
160	116		316	-	30
180	118		-	-	35

60 112 Round-nosed plierswith long, round jaws, **material:** Special tool steel**Type:****116** Head polished, with red PVC dipped handles**416** chrome plated, handles with thick multi-component sheathing

60 112 116



60 112 416

Overall length mm	60 112...		60 112... chrome plated	
160	116		416	

60 114 Round-nosed pliersDIN 5745, with short, round jaws, precision ground, for prebending wire eyelets, **material:** Special tool steel, oil hardened**Type:****112 - 116** Head polished, handles with plastic coating**314 - 316** Head chrome plated, handles with two-coloured multi-component sheathing

60 114 112 - ...116



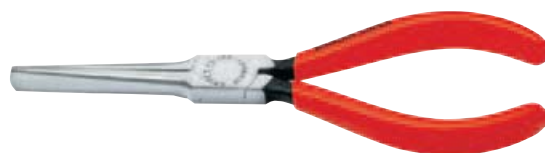
60 114 314 + ...316

Overall length mm	60 114...		60 114... chrome plated		Jaw length mm
125	112		-	-	27
140	114		314	-	28
160	116		316	-	30

60 115 Duckbill pliers

- 9.0 mm wide jaws, tapering to 1.5 mm thick
- Smooth gripping surfaces
- Chrome vanadium electric steel, hardened in oil and tempered
- Polished head

Type: Plastic coated handles



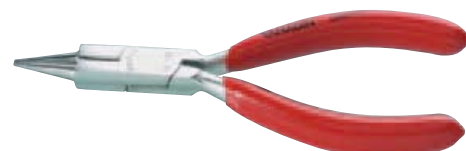
60 115 016

Length mm	60 115...	
160	016	

60 117 Jewellers' pliers

- for fine wire and silver jewellery work
- suitable for bending and cutting work, e.g. in electronics
- fine, tapering, round jaws, precision ground
- Cutting edges with additional induction hardening, cutting edge hardness approx. 60 HRC
- Vanadium steel, oil hardened and tempered

Type: Head chrome plated, handles with plastic coating



60 117 113

Overall length mm	60 117...		Jaws length mm
130	113		32

60 122 Long flat nosed pliers

DIN 5745, with flat, wide jaws, **material:** Chrome vanadium electric steel, oil hardened

Type:

114 - 119 Head polished, handles with plastic coating

314 - 319 Head chrome plated, handles with two-coloured multi-component sheathing



60 122 114 - ...119



60 122 314 - ...319

Overall length mm	60 122...		60 122... chrome plated		Jaws length mm
140	114		314		42
160	116		316		46.5
190	119		319		50

60 132 Long flat, round nosed pliers

DIN 5745, with flat, round jaws, **material:** Chrome vanadium electric steel, oil hardened

Type:

114 - 119 Head polished, handles with plastic coating

314 - 319 Head chrome plated, handles with two-coloured multi-component sheathing



60 132 114 - ...119



60 132 314 - ...319

Overall length mm	60 132...		60 132... chrome plated		Jaws length mm
140	114		314		42
160	116		316		50
190	119		319		50

60 142 Long round nosed pliers

DIN 5745, with long, round jaws, gripping surfaces clean and smooth ground, **material:** Chrome vanadium electric steel, oil hardened,

Type:

114 - 116 Head polished, handles with plastic coating

314 - 316 Head chrome plated, handles with two-coloured multi-component sheathing



60 142 114 + ...116



60 142 314 + ...316

Overall length mm	60 142... polished		60 142... chrome plated		Jaws length mm
140	114		314		37.5
160	116		316		41

60 144 Flat nosed assembly pliers

- especially suitable for gripping, adjusting and assembly work with higher gripping force
- Serrated gripping surfaces
- special tool steel, hardened and tempered in oil
- Polished head
- Plastic coated handles



60 144 001



60 144 003

001: Flat, wide jaws

003: Flat round jaws

Length	60 144...		Jaw shape
200	001		flat wide
200	003		flat round

60 150 Radio pliers (flat round pliers)

with cutting edge for medium-hard wire, induction hardened cutting edges, made of special steel

**Type:**

116 - 200 Head polished, with red PVC dipped handles

416 - 422 chrome plated, handles with thick multi-component sheathing

200 + 422 with 45° curved jaws

DIN ISO 5745



60 150 116



60 150 416



60 150 140



60 150 420



60 150 200



60 150 422

Overall length mm	60 150... polished		60 150... chrome plated		Jaws length mm
160	116		416		60
200	140		420		85
200	200		422		80



60 152 Radio pliers (flat round pliers)

DIN 5745, with cutting edge for hard and soft wire and flat, round jaws, gripping surfaces serrated, **material:** Special tool steel, oil hardened

Type:

114 - 116 Head polished, handles with plastic coating

314 - 316 Head chrome plated, handles with two-coloured multi-component sheathing

416 as above, in addition with curved jaws



60 152 416



60 152 114 + ...116



60 152 314 + ...316

Overall length mm	60 152...		60 152... chrome plated		Jaws length mm
140	114		314		42
160	116		316		50
160	-		416		50

60 156 Multi-purpose pliers

can be universally used as radio or telephone pliers, pinch or crimping pliers for wire end ferrules, for wire cutting and for insulation stripping

- 35 degree curved nose for difficult to access places
- with chequered tip for gripping and bending
- induction hardened cutting edge
- Insulation stripping function for cables from 0.5 - 2.5 mm
- Crimp function for wire end ferrules from 0.5 - 2.5 mm
- Jaw recess for holding small hexagon head screws
- Additional drillholes for reliable guiding of different screws and nails



60 156 416

Overall length mm	60 156...	
160	416	

60 162 Radio (telephone) pliers

for grasping and cutting individual conductors in cable harnesses, with centre cutters for soft wire and flat, round jaws,

Material: Chrome vanadium electric steel, oil hardened

Type: Head polished, handles with plastic coating



60 162 116

Overall length mm	60 162...	
160	116	



60 170 Long nosed pliers

DIN 5745, with cutting edge for hard and soft wire and flat, round jaws, serrated gripping surfaces, **material:** Chrome vanadium electric steel, oil hardened

Type:

120 Head polished, handles with plastic coating

220 Polished head, with two-coloured multi-component handle sheathing

320 Head chrome plated, handles with two-coloured multi-component sheathing



60 170 120



60 170 220



60 170 320

Overall length mm	60 170...		60 170... polished		60 170... chrome plated		Jaws length mm
200	120		220		320		73

60 178 Long bent-nosed pliers

DIN 5745, with cutting edge for hard and soft wire and flat, round, 40° bent jaws, serrated gripping surfaces, **material:** Vanadium steel, oil hardened

Type:

120 Head polished, handles with plastic coating

220 Polished head, handles with two-coloured multi-component sheathing

320 Head chrome plated, handles with two-coloured multi-component sheathing



60 178 120



60 178 220



60 178 320

Jaws with 40° bent nose

Overall length mm	60 178...		60 178... polished		60 178... chrome plated		Jaws length mm
200	120		220		320		73

60 990 Pliers set

- 3-piece in case
- with induction hardened cutting edges
- Chrome plated heads
- Handles with thick multi-component sheathing



60 990 100

Type	Overall length mm	60 990...	
Side cutters	160	100	
Combination pliers	180		
Radio (telephone) pliers	200		

60 188 Precision engineering pliers

smooth gripping surfaces, precision ground tips, for adjusting components and wire connections and bending in wire eyelets,

Material: Chrome vanadium electric steel, oil hardened

Type: Head polished, plastic coated handles



Overall length mm	60 188...		Jaws length mm	Jaw type
125	121		27	flat wide
125	122		27	flat pointed
125	123		27	flat round
125	124		27	round

60 190 Mechanic's pliers

Material: Vanadium electric steel, oil hardened

Type:

121 - 125 Head polished, plastic coated handles

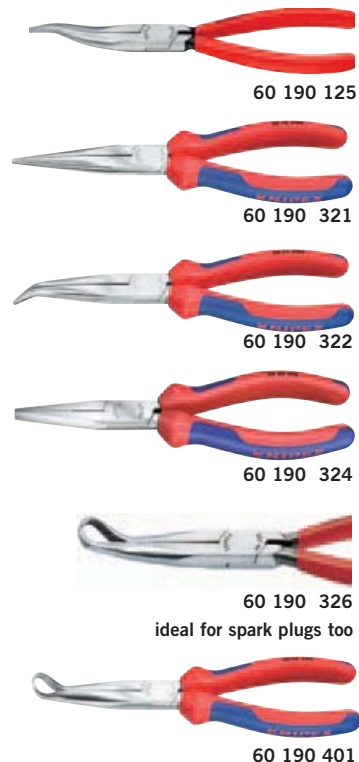
321 - 324 Head chrome plated, handles with two-coloured multi-component sheathing

326 Spark plug connector pulling pliers, polished head, plastic coated handles

401 as 326, but with multi-component sheathing handles



Overall length mm	60 190...		Jaws length mm	Jaw type
200	121		73	straight, flat round
200	122		73	curved, flat round
190	124		50	flat wide
200	125		73	cranked, flat round
200	321		73	straight, flat round
200	322		73	curved, flat round
200	323		73	cranked, flat pointed
190	324		50	flat wide
200	326		73	angled, flat round
200	401		73	angled, flat round

**60 196 Relay adjusting pliers**

DIN 5235, for gripping components and wires with very small diameters as well as for bending contact and relay springs, polished gripping surfaces, edges carefully deburred,

Material: Chrome vanadium electric steel

Type: Polished jaws, plastic coated handles



Overall length mm	60 196...		Jaws length mm	Jaw type
135	131		34	flat pointed
135	132		34	flat wide
135	133		32	40° bent

**60 202 Circlip pliers set**

for internal and external rings, with four interchangeable jaw sets, 2 straight sets, 1 45° bent set, 1 90° bent set, **type:** painted black, handles with red PVC sheathing

with interchangeable
jaw inserts

Shaft Ø mm	60 202...	
10 - 50	101	



60 204 Circlip pliers for internal rings

DIN 5256 C, straight type

Material: Chrome vanadium steel/Chrome vanadium electric steel,
oil hardened and tempered**Type:** polished, plastic coated handles

60 204 000 - ...004



60 204 900 - 904

Size	60 204... 		Length mm	Bore Ø mm	60 204... 		Length mm	Bore Ø mm
J 0	000		140	8 - 25	900		140	8 - 13
J 1	001		140	10 - 25	901		140	12 - 25
J 2	002		180	19 - 60	902		180	19 - 60
J 3	003		220	40 - 100	903		225	40 - 100
J 4	004		320	85 - 165	904		320	85 - 140

60 210 Circlip pliers for internal rings

DIN 5256 D, 90° bent nose

Material: Chrome vanadium steel/Chrome vanadium electric steel,
oil hardened and tempered**Type:** polished, plastic coated handles

60 210 000 - ...004



60 210 900 - ...904

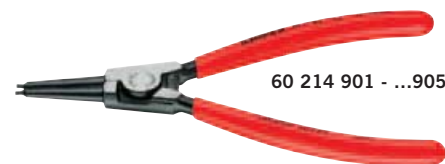
Size	60 210... 		Length mm	Bore Ø mm	60 210... 		Length mm	Bore Ø mm
J 01	000		130	8 - 25	900		130	8 - 13
J 11	001		130	10 - 25	901		130	12 - 25
J 21	002		170	19 - 60	902		170	19 - 60
J 31	003		215	40 - 100	903		215	40 - 100
J 41	004		300	85 - 165	904		300	85 - 140

60 214 Circlip pliers for external rings

DIN 5254 A, straight type

Material: Chrome vanadium steel/Chrome vanadium electric steel,
oil hardened and tempered**Type:** polished, plastic coated handles

60 214 001 - ...005



60 214 901 - ...905

Size	60 214... 		Length mm	Shaft Ø mm	60 214... 		Length mm	Shaft Ø mm
A 0	001		140	3 - 10	901		140	3 - 10
A 1	002		140	10 - 25	902		140	10 - 25
A 2	003		180	19 - 60	903		180	19 - 60
A 3	004		210	40 - 100	904		210	40 - 100
A 4	005		320	85 - 165	905		320	85 - 140

60 218 Circlip pliers for external rings

DIN 5254 B, 90° bent nose

Material: Chrome vanadium steel/Chrome vanadium electric steel,
oil hardened and tempered**Type:** polished, plastic coated handles

60 218 001 - ...005



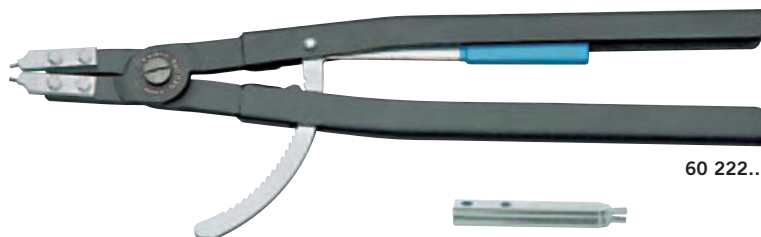
60 218 901 - ...905

Size	60 218... 		Length mm	Shaft Ø mm	60 218... 		Length mm	Shaft Ø mm
A 01	001		130	3 - 10	901		125	3 - 10
A 11	002		130	10 - 25	902		125	10 - 25
A 21	003		170	19 - 60	903		170	19 - 60
A 31	004		210	40 - 100	904		200	40 - 100
A 41	005		310	85 - 165	905		300	85 - 140



60 222 Long circlip pliers for internal rings

black powder coated, zinced tips and safety catch, end of safety catch handle is plastic dip insulated

**60 224 Replacement tips**

for circlip pliers No. 60 222... (per pair)

Length mm	Tips	60 222...		60 224...		Bore Ø mm	Tip Ø mm
				Tips			
560	straight	001		001		125 - 300	3.5
570	straight	002		002		252 - 500	4.5
570	angled	003		003		125 - 300	3.5

60 230 Long circlip pliers for external rings

black powder coated, zinced tips and safety catch, end of safety catch handle is plastic dip insulated

**60 232 Replacement tips**

for circlip pliers No. 60 230... (per pair)

Length mm	Tips	60 230...		60 232...		Shaft Ø mm	Tip Ø mm
				Tips			
560	straight	001		001		125 - 300	3.5
570	straight	002		002		252 - 500	4.5
570	angled	003		003		125 - 300	3.5

60 234 Snap ring pliers

for installing snap rings, zero backlash joint, plastic coated handles, black finish head



Length mm	60 234...		Snap ring ab Ø
200	001		12

60 238 Grip ring pliers

for installing grip rings, zero backlash joint, plastic coated handles, polished head, 140 mm long



Size	60 238...		Shaft Ø mm
G 0	000		1.5 - 4
G 1	001		4 - 7
G 2	002		5 - 13

The **KNIPEX** circlip pliers satisfy the highest requirements. Positive, close-fitting inserted and pressed tips made of high-density spring steel achieve up to 10 times longer tool lives compared to conventional circlip pliers as well as a high degree of stability when releasing stuck rings. The large contact surfaces and position of the tips enable torsion-free installation, making it difficult for the ring to fly out. The opening spring is positioned, protected, in the screwed precision joint.

60 250 Precision circlip ring pliers for internal rings (drillholes)



- for installing circlips in drillholes within the range of \varnothing 8 - 140 mm
- Inserted tips made of highest grade, drawn spring steel wire
- Heavy duty in continuous use, up to 10 times longer tool life
- Precise, smooth and easy running screwed joint
- Forged
- Large contact surfaces at the tips: No ring twist, easy to install
- Slender pliers head for optimum access to the workpiece
- Handles coated with slip-resistant plastic
- Chrome vanadium electric steel
- Head: grey atrimented
- ...010 to ...014:
- DIN 5256 C (straight tips)
- ...110 to ...114:
- DIN 5256 D (angled tips)



60 250 010 - ...014



60 250 110 - ...114

Size	60 250...		Length	60 250...		Length	For bore \varnothing
	straight		mm	angled		mm	
J0	010		140	110		130	8 - 13
J1	011		140	111		130	12 - 25
J2	012		180	112		165	19 - 60
J3	013		225	113		210	40 - 100
J4	014		320	114		305	85 - 140

60 254 Precision circlip ring pliers for external rings (shafts)



- For the installation of circlips on shafts within the range from \varnothing 3 - 140 mm
- Inserted tips made of highest grade, drawn spring steel wire
- Heavy duty in continuous use, up to 10 times longer tool life
- Precise, smooth and easy running screwed joint
- forged
- Large contact surfaces at the tips: No ring twist, easy to install
- Slender pliers head for optimum access to the workpiece
- Opening springs in joint are protected and captive
- Handles coated with slip-resistant plastic
- Chrome vanadium electric steel
- ... 010 to ...014:
- DIN 5256 A (straight tips)
- ... 110 to ...114:
- DIN 5254 B (angled tips)



60 254 010 - ...014



60 254 110 - ...114

Size	60 254...		Length	60 254...		Length	For bore \varnothing
	straight		mm	angled		mm	mm
A0	010		140	110		130	3 - 10
A1	011		140	111		130	10 - 25
A2	012		180	112		165	19 - 60
A3	013		225	113		210	40 - 100
A4	014		320	114		305	85 - 140

60 302 Electronics pliers

DIN ISO 9655 with high side stability, smooth ground gripping surfaces, edges carefully deburred, precision tips for extremely fine electronics and precision engineering installation work, with captive, friction-free double spring, **material:** Special tool steel, oil hardened, **Type:**

Ground, from ...112 mirror polished, handles coated with soft PVC
211 - 218 polished, with multi-component sheathing handles



Length mm	60 302...		60 302...		Jaw type	Jaws length mm
115	111		211		flat	22.5
115	112		212		round	22.5
115	113		213		round tip	22.5
115	-	-	215		45° angled, flat round	40.0
145	-	-	217		45° angled, flat round, long	40.0
145	-	-	218		flat round, long	40.0



60 302 111 - ...113



60 302 211 - ...213



60 302 218

60 304 Precision electronics pliers

- The range for the highest performance and results standards
- Precision pliers for extremely intricate installation work, e.g. in electronics and precision engineering
- For gripping, holding and bending
- Screwed joint: Precise, zero-backlash movement of the pliers
- Precisely made joint surfaces for uniform, low-friction movement
- Low-friction double spring for gentle and uniform opening
- Smoothly ground gripping surfaces; edges carefully deburred
- Non-reflective finish
- Low weight
- Ergonomic, two coloured, multi-component sheathed handles; blue/grey
- Forged from chrome vanadium ball bearing steel of the highest grade



made of ball bearing steel -
for the highest standards

Length mm	60 304...		Jaw type	Jaws length mm
135	001		flat wide	19
135	003		flat round	19
135	005		round tip	21



60 304 001



60 304 003



60 304 005

60 306 Electronics side cutters

DIN ISO 9654 with box joint and captive, low friction double spring, cutting edges with additional induction hardening, **Material:** Special tool steel, oil hardened

Type:

110 - 113 Head polished, plastic coated handles

210 - 240 Mirror polished head, handles with two-coloured multi-component sheathing



Length mm	60 306...		Head/cutting edge type	Cutting capacities Cu wire Ø mm
115	110		round with bevel	0.3 - 1.6
130	111		round with bevel	0.3 - 2.0
115	112		pointed without bevel	0.3 - 1.3
130	113		round without bevel	0.3 - 1.6
115	210		round with small bevel	0.3 - 1.6
115	222		round without bevel	0.3 - 1.3
115	225		round with small bevel	0.3 - 1.3
115	230		pointed without bevel	0.3 - 1.3
115	240		round with small bevel	0.3 - 0.8



60 306 222



60 306 225



60 306 230



60 306 240

60 308 Electronics side cutters

as Prod. No. 60 306 110; however, **with additional wire clamp**, no uncontrolled flying out of the wire section, no faults in the circuit

Type:

111 Polished head, plastic coated handles

211 Mirror polished head, handles with two-coloured multi-component sheathing



60 308 111

with additional wire clamps

Length mm	60 308...		Cutting capacities soft wire Ø mm	Cutting capacities medium-hard wire Ø mm
115	111		0.3 - 1.6	0.3 - 1.2
115	211		0.3 - 1.6	0.3 - 1.2



60 308 211

60 310 Precision side cutters

- Precision pliers for extremely intricate cutting work, e.g. in electronics and precision engineering
- Precisely ground, sharp cutting edges for exact cuts
- Cutting edges with additional induction hardening, cutting edge hardness approx. 64 HRC
- Screwed joint: Precise, zero-backlash movement of the pliers
- Precisely made joint surfaces for uniform, low-friction movement within the whole opening area
- Low-friction double spring for gentle and uniform opening
- Non-reflective finish
- Low weight
- Ergonomic, two coloured, multi-component sheathed handles; blue/grey
- Forged from chrome vanadium ball bearing steel of the highest grade



made of ball bearing steel -
for the highest standards



60 310 003



60 310 007



60 310 011

Length mm	60 310...		Head/cutting edge type	Cutting capacities soft wire Ø mm	Cutting capacities medium-hard wire Ø mm	Cutting capacities hard wire Ø mm
125	003		round with fine bevel	1.5	0.8	0.5
125	005		round without bevel	1.2	0.65	-
125	007		pointed with fine bevel	1.3	0.7	0.4
125	009		pointed without bevel	1.0	0.55	-
120	011		mini-head with fine bevel	1.0	0.55	0.3
120	013		mini-head without bevel	0.8	0.4	-

60 312 "Super Knips" electronics side cutters

DIN ISO 9654 with precisely shaped tip, ground cutting edge without bevel for level cutting, zero backlash joint with stainless steel rivet, with spring and restricted opening, extremely smooth and easy movement, for **soft wire**, **material**: made of stainless steel, Length: 125 mm

Type: Handles with two-coloured multi-component sheathing



...110

Cutting edge type	60 312...		Cutting capacities soft wire Ø mm
without wire clamp	110		0.2 - 1.6
with wire clamp	111		0.2 - 1.6
with 60° angled tips	112		0.2 - 1.6
with particularly narrow tips	113		0.2 - 1.6
with narrow tips and wire clamp	114		0.2 - 1.6



...111



...112



...113



...114

60 316 "Super Knips" electronics side cutters

DIN ISO 9654 with precisely shaped tip, ground cutting edge without bevel for level cutting, zero backlash joint with stainless steel rivet, with spring and restricted opening, extremely smooth and easy movement, for **hard and soft wire**, also suitable for glass fibre cables,

Material: Special tool steel

Type: Non-reflective, black finish head, handles with two-coloured multi-component sheathing



60 316 111



60 316 112

Length mm	60 316...		Type Wire clamp	Cutting capacities medium-hard wire max. Ø mm	Cutting capacities hard wire 1600 N mm ² max. Ø mm
125	111		no	1.2	0.6
125	112		yes	1.2	0.6

60 318 Electronic end cutters

Precision pliers for the finest cutting work, with zero backlash, box joint and captive, friction-free double spring, the mirror polish in conjunction with a fine oil film provides good protection against rust - no faults in the circuit due to flaking chrome,

Material: Special tool steel, oil hardened and tempered

Type: Mirror polished head, handles with two-coloured multi-component sheathing



60 318 211 - 60 318 212



60 318 213



60 318 214

Length mm	60 318...		Cutting edge type	Cutting capacities soft wire Ø mm	Cutting capacities medium-hard wire Ø mm
115	211		with small bevel	2.0	0.8
115	212		without bevel	1.3	-
115	213		with bevel	2.0	1.0
115	214		with small bevel	0.8	-





ESD

When using pliers on components at risk from electronic discharge (ESDS - electro static discharge sensitive devices), the relevant standards and regulations (e.g. IEC TR 61340-5, DIN EN 61340-5, SP Method 2472) require controlled discharge of electrical charges through the handles of such pliers.

Knowledge of ergonomic conditions for gripping and cutting pliers has been utilised in the KNIPEX electronic pliers: comfortable, user-friendly working.

- Precision pliers for extremely precise installation work, e.g. electronics and precision engineering
- For gripping, holding, bending
- Electrically discharging, dissipative design
- Precision box joint
- Smooth ground gripping surfaces
- Edges carefully deburred
- Low-friction double spring for gentle and uniform opening
- The mirror polish in conjunction with a fine oil film provides good protection against rust - no faults in the circuit due to flaking chrome
- Handles with two-coloured multi-component sheathing (black/grey)
- Special tool steel, oil hardened and tempered

60 342 ESD electronics pliers

with flat, wide jaws



60 342 001

Length mm	60 342...		Jaws length mm	Jaws tip mm	Type
115	001		22.5	2.0 x 4.0	flat, wide
115	008		22.5	2.0 x 1.0	round, tip
115	012		22.5	2.0 x 1.5	45° angled, flat round



60 342 008



60 342 012

60 346 ESD electronics end cutters

with extra hard cutting edges, min. 56 HRC



60 346 001

Length mm	60 346...		Jaws length mm	Cutting capacities		Type
				soft	hard	
115	001		6.0	2.0	0.5	End cutters, small bevel
120	008		10.0	1.5	0.5	Oblique end cutters, short, small bevel, $\alpha = 15^\circ$
120	012		18.5	0.6	-	Oblique end cutters, "Mini", small bevel, $\alpha = 65^\circ$



60 346 008



60 346 012

60 350 ESD electronics side cutters

Cutting edges with additional induction hardening, cutting edge hardness approx. 62 HRC (in ...020 57 HRC)



60 350 010

Length mm	60 350...		Jaws length mm	Cutting capacities		Type
				soft	hard	
115	010		14.0	0.3 - 1.6	0.5	round with small bevel
115	020		14.0	0.3 - 1.3	-	round without bevel
115	025		14.0	0.3 - 1.3	0.5	pointed with small bevel
115	050		10.5	0.3 - 0.8	-	pointed, "Mini", with small bevel



60 350 020



60 350 025



60 350 050

Electronics screwdrivers



The ESD screwdrivers have the tried and tested, ergonomic Wiha SoftFinish multi-component handle with roll-off protection. Electrostatically discharging (dissipative), surface resistance 10^6 to 10^9 ohm.

Round blade, high-quality chrome vanadium molybdenum steel, hardened throughout, matt chrome-plated. ChromeTop blade tip ensures maximum dimensional accuracy. DIN EN 61340-5-1/61340-5-2

ESD screwdrivers are non-insulating and are therefore not suitable for working on live parts.

60 380 ESD screwdrivers

for plain slotted screws, with SoftFinish handle



60 380...

Blade width mm	60 380...		Blade length mm	Overall length mm
2.5	025		75	179
3.0	030		100	204
4.0	040		100	211
5.5	055		125	236
6.5	065		150	268

60 382 ESD screwdrivers

for Phillips recess screws, with SoftFinish handle



60 382...

Size	60 382...		Blade length mm	Overall length mm
PH 0	001		60	164
PH 1	002		80	191
PH 2	003		100	218

60 384 ESD screwdrivers

for Pozidrive screws, with SoftFinish handle



60 384...

Size	60 384...		Blade length mm	Overall length mm
PZ 0	001		60	164
PZ 1	002		80	191

60 386 ESD screwdrivers

for Torx screws, with SoftFinish handle



60 386...

Size	60 386...		Blade length mm	Overall length mm
T 4	004		60	164
T 5	005		60	164
T 6	006		60	164
T 8	008		60	164
T 9	009		60	171
T 10	010		80	191
T 15	015		80	191
T 20	020		100	218

60 388 ESD screwdriver sets

5 pce, with SoftFinish handles



60 388...

Blade type	60 388...		Size	Blade length mm
Plain slotted screws	005		3 / 4	100
Phillips recess screws			PH 0 / 1 / 2	-
Torx screws	015		TZ 6/8/9/10/15	-

60 392 ESD precision screwdrivers

for plain slotted screws, with rotating cap



60 392...

Blade width mm	60 392...		Blade length mm	Overall length mm
1.5	015		40	120
2.0	020		40	120
2.5	025		50	145
3.0	030		50	145
3.5	035		60	170
4.0	040		60	170

60 394 ESD precision screwdrivers

for Phillips recess screws, with rotating cap



60 394...

Size	60 394...		Blade length mm	Overall length mm
PH 00	100		40	120
PH 0	101		50	145
PH 1	102		60	170

60 396 ESD precision screwdrivers

for Torx screws, with rotating cap



60 396...

Size	60 396...		Blade length mm	Overall length mm
T 3	103		40	120
T 4	104		40	120
T 5	105		40	120
T 6	106		40	120
T 7	107		40	120
T 8	108		40	120
T 9	109		50	145
T 10	110		50	145
T 15	115		60	170





Ceramic adjustment tools

A combination of ceramic blades and antistatic handles, no electromagnetic induction at high-frequencies, no eddy current losses, electrically insulating, non-magnetic, antistatic, wear resistance approx. 10 times better than metal and approx. 100 times better than plastic, blades heat resistant up to 1000°C, low thermal conductivity, rustproof, resistant against alkalis and acids (except hydrofluoric acid), extremely smooth anti-adhesion surface, contamination free blades are therefore suitable for clean rooms.

60 398 Ceramic adjustment screwdrivers

for plain slotted screws, with rotating cap



60 398...

Blade width mm	60 398...		Blade length mm	Overall length mm
0.9	109		15	94.5
1.3	113		15	94.5
1.8	118		15	94.5
2.6	126		15	94.5

60 399 Ceramic adjustment screwdrivers

for Phillips recess screws, with rotating cap



60 399...

Size	60 399...		Blade length mm	Overall length mm
0	100		15	94.5



With centring head
and quick-rotation
zone for optimum
handling



Blade made of
zirconium ceramic

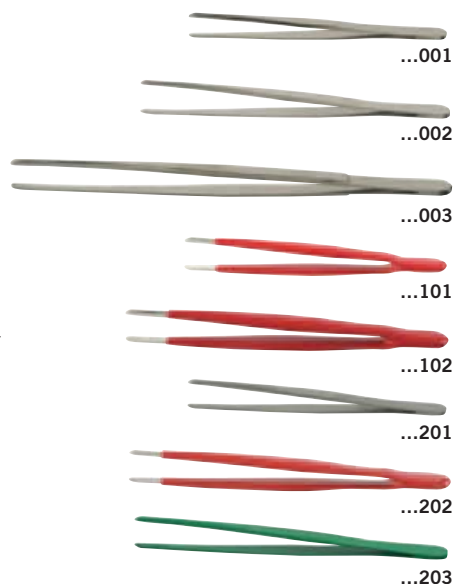


Blade and handle are
completely anti-magnetic
and anti-static

60 408 Tweezers

for general use, rounded tips, jaws with milled teeth

Length mm	60 408...		Type
120	001		fine teeth polished nickel plated
145	002		fine teeth polished nickel plated
200	003		fine teeth polished nickel plated
120	101		fine teeth, sheathed up to the tip
145	102		fine teeth, sheathed up to the tip
120	201		fine grooves, rustproof anti-magnetic
145	202		fine grooves, rustproof anti-magnetic
145	203		fine grooves Teflon coated

**60 410 Tweezers**

anti-magnetic made of titanium, for precision and high-precision installation & assembly work, extremely hard, with no sharp edges

Length mm	60 410...		Type
120	112		non-reflective
105	130		matt

**60 412 Tweezers**

for general use, pointed, made of spring steel strip, hardened

Length mm	60 412...		Type
112	001		hollow pointed, polished
127	101		polished
127	102		stainless, anti-magnetic

**60 416 Jewellers tweezers**

hardened, with fine tips

Length mm	60 416...		Type
120	001		polished
120	002		stainless, anti-magnetic
105	101		polished
105	102		stainless, anti-magnetic

**60 422 Tweezers**

College model, with curved, finely toothed tips, plucking part hardened

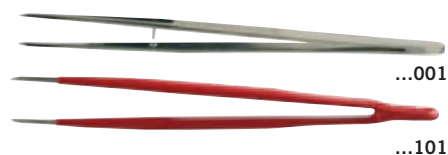
Length mm	60 422...		Type
150	001		stainless, anti-magnetic
100	002		polished nickel plated
150	101		polished nickel plated
150	201		polish nickel plated and Teflon coated



60 426 Pointed tweezers

straight, with finely cut tips

Length mm	60 426...		Type
155	001		polished nickel plated hardened
155	101		polished nickel plated, hardened, plastic coated

**60 428 Tweezers**

straight, with finely cut tips

Length mm	60 428...		Type
130	001		polished nickel plated

**60 434 Cross action tweezers**

Length mm	60 434...		Type
155	001		polished nickel plated

**60 438 Coated wire stripping tweezers**

made of black finish spring steel, with precisely milled blades

Length mm	60 438...		For wire thicknesses mm
130	002		0.6

**60 472 Electronics tweezers**

For positioning chip capacitors with flat base, gripping angle 60°

Length mm	60 472...		Type
115	001		anti-magnetic, acid proof steel, stainless

**60 478 Illuminated tweezers**

- Uses: Wherever visibility or light conditions are limited
- A white light shines towards both ends of the tweezers, this gives the tweezers holder a clear view
- LED fixed between the tweezer jaws
- The integrated diode does not light up until the tweezer jaws are pressed together
- 2 flat-type batteries (supplied with the tweezers) ensure approx. 2000 switching cycles
- For replacement batteries, see Product Number **64 866...**



Length mm	60 478...		Type
140	001		stainless steel

60 502 Engineers' mirror

chrome plated, flexible guide tube, with plastic handle, plane mirror

Mirror size mm	60 502...		Overall length mm
50 x 70	001		420

**60 508 Flexible, hinged mirror**

with metal handle and hand guard, mirror adjustable on all sides due to ball joint, mirror housing made of stainless steel

Overall length mm	60 508...		Mirror Ø mm
250	001		30



60 510 Plastic repair mirror

for all work on electronic equipment, plastic handle made of plug-together parts

Length mm	60 510...		Mirror Ø mm
160/285	002		23



60 510...

60 512 Repair mirror, magnifying

with metal handle, unscrewable

Length mm	60 512...		Mirror Ø mm	Type
205	002		30	Mirror housing made of stainless steel



Metal handle unscrewable

60 512...

60 516 Pocket telescopic mirror

with telescopic handle, mirror can be adjusted on all sides due to hinged joint

Length mm	60 516...		Mirror Ø mm	Type
240/680	002		30	Mirror housing made of stainless steel



Length up to 680 mm

60 516...

60 518 Inspector' pocket mirror

with lighting and clip

After removing the mirror holder, can also be used as a torch, fitted with two 1.5 volt AA batteries, mirror can be adjusted as necessary using ball hinge

Length mm	60 518...		Mirror Ø mm	Type
300	002		30	Mirror housing made of stainless steel



60 518...

60 532 Soldering lever

chrome plated, with slot, for levering out stuck components from the printed circuit board

Length mm	60 532...		Lever width mm
125	001		3.5

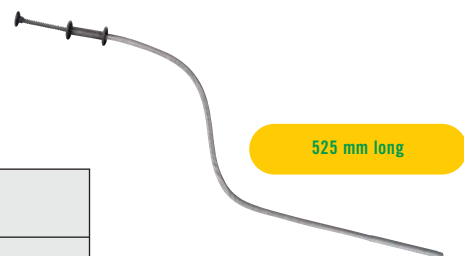


60 532 001

60 534 Flexible gripper

For gripping very small parts, made of brass, chrome-plated guide tube, flexible with steel core

Length mm	Max. gripping diameter mm	60 534...	
525	14	001	



525 mm long

60 534 001

60 540 Wire and spring hook

double-sided, stainless steel with chequered hexagon handle, for gripping and straightening wire connections as well as hooking and unhooking tension springs

Length mm	60 540...		Hook Ø, internal mm
165	001		1.5



60 540 001

60 602 Pincers

for the highest standards in trades and industry, precise, low wear cutting edges made of special tool steel

Type: Polished head, with black handles



60 602...

Length mm	60 602...	
160	116	
180	118	
200	120	

60 604 Pincers

DIN 9243, for the hardest stresses, precise workmanship, high wear resistance and balanced weight distribution,

Material: Special tool steel, cutting edge oil hardened

Type:

016 - 025 Polished head, black atramentised handle

116 - 125 Polished head, plastic coated handles



60 604 016 - ...025



60 604 116 - ...125

Length mm	60 604...		60 604...	
160	016		116	
180	018		118	
210	021		121	
225	022		122	
250	025		125	

60 605 Farriers' pincers

also ideal for dismantling work in coachbuilding/body production

• Cutting edge hardness approx. 55 HRc

• Special tool steel, oil hardened and tempered

Type: Polished head, with black atramentised handles



60 605 130

Length mm	60 605...	
300	130	

60 606 Carpenter & concreters' nippers

for twisting and cutting tying wire for reinforced concrete work, precise, low wear cutting edges made of special tool steel

Type:

122 - 128 Polished head, plastic painted handles

220 - 280 Head polished, handles coated with plastic



60 606 122 - ...128

Length mm	60 606...		60 606...	
220	122		220	
250	125		250	
280	128		280	

60 606 220 - ...280



60 608 Carpenter & concreters' nippers

DIN 9242, tower pincers/steel fixers' nippers for tying rebar steel, unsurpassed precision and durability,

Material: Special tool steel, oil hardened

Type:

120 - 130 Polished head, plastic atamentised handles

220 - 300 Head polished, handles coated with plastic



60 608 120 - ...130



60 608 220 - ...300

Length mm	60 608...		60 608...	
220	120		220	
250	125		250	
280	128		280	
300	130		300	

60 609 High leverage concreters' nippers

DIN ISO 9242, for easy and wrist-protecting working, optimum cutting performance with low effort, especially for working on thicker wire - soft wire up to 4.5 mm Ø,

Material: Special tool steel, oil hardened

Type: Nickel plated head, nickel plated handles



60 609 130

Length mm	60 609...	
300	130	

60 612 Side cutters

for hard wire, cutting edges induction hardened and made of special tool steel

Type:

114 - 118 Polished head, with plastic dipped handles

414 - 418 chrome plated, handles with thick multi-component sheathing



60 612 114 - ...118



60 612 414 - ...418

Length mm	60 612... polished		60 612... chrome plated	
145	114		414	
160	116		416	
180	118		418	

60 614 Side cutters

DIN 5749 B, for hard and soft wire, induction hardened precision cutting edges, cutting edge hardness approx. 62 HRC,

Material: Vanadium electric steel, oil hardened

Type:

112 - 118 Polished head, handles with plastic coating

212 - 218 Head polished, handles with two-coloured multi-component sheathing

312 - 318 Head chrome plated, handles with two-coloured multi-component sheathing



60 614 112 - ...118



60 614 212 - ...218



60 614 312 - ...318

Length mm	60 614...		Cutting capacities medium-hard wire Ø mm	Cutting capacities hard wire Ø mm
125	112		2.3	1.5
140	114		2.5	1.8
160	116		2.8	2
180	118		3	2.5
125	212		3.0	2.3
140	214		2.5	1.8
160	216		2.8	2
180	218		3	2.5
125	312		2.3	1.5
140	314		2.5	1.8
160	316		2.8	2
180	318		3	2.5

60 622 Strong (high leverage) side cutters

for hard wire, cutting edges induction hardened, made of special tool steel,

Type:

116 - 120 Polished head, with plastic dipped handles

416 - 420 chrome plated, handles with thick multi-component sheathing



60 622 116 - ...120



60 622 416 - ...420

Length mm	60 622... polished		60 622... chrome plated	
160	116		416	
180	118		418	
200	120		420	

60 630 Strong (high leverage) side cutters

DIN 5749 A, with forged on joint axis for even the hardest stresses, for piano wire and soft wire, induction hardened precision cutting edges, cutting edge hardness 64 HRC,

Material: Chrome vanadium electric steel, oil hardened

Type:

114 - 125 Head polished, handles with plastic coating

214 - 225 Polished head, handles with two-coloured multi-component sheathing

314 - 325 Head chrome plated, handles with two-coloured multi-component sheathing

330 12° angled head, polished, handles with two coloured multi-component sheathing for flush cutting, with approx. 70 mm space for gripping

401 Polished head, handles with two-coloured multi-component sheathing with opening spring



60 630 114 - ...125



60 630 214 - ...225



60 630 314 - ...325



60 630 330



60 630 401

Length mm	60 630...		Cutting values hard wire Ø mm	Cutting capacities piano wire Ø mm
140	114		2	1.5
160	116		2.5	2
180	118		2.7	2.2
200	120		3	2.5
250	125		3.5	3
140	214		2.0	1.5
160	216		2.5	2
180	218		2.7	2.2
200	220		3	2.5
250	225		3.5	3
140	314		2	1.5
160	316		2.5	2
180	318		2.7	2.2
200	320		3	2.5
250	325		3.5	3
200	330		3	2.5
180	401		2.7	2.2



60 632 Centre cutters

- with forged on hinge axis for hardest, continuous stresses
- with precision cutting edges for soft, hard and piano wire
- cuts hard, thick wires with less effort than equally long side cutters
- centred precision cutting edges
- high cutting performance with low effort due to optimum coordination of cutting edge angle, transmission ratio and ergonomic handle shape
- Cutting edges with additional induction hardening, cutting edge hardness approx. 64 HRC
- Chrome vanadium electric steel, hardened in oil and tempered
- Plastic coated handles



60 632 025



Length mm	60 632...		Cutting capacities hard wire Ø mm	Cutting capacities piano wire Ø mm
250	025		5.0	3.8

60 638 Mechanics' side cutters

DIN ISO 5749 for piano wire as well as for very thin and soft wires, induction hardened precision cutting edges with bevel, cutting edge hardness approx. 63 HRC, **material:** Vanadium electric steel, oil hardened

Type:

112 Polished head, plastic coated handles,

312 Head chrome plated, handles with two-coloured multi-component sheathing



60 638 112



60 638 312

Length mm	60 638...		Cutting capacities Cu wire Ø mm	Cutting capacities piano wire Ø mm
125	112		0.4 - 2.5	bis 0.6
125	312		0.4 - 2.5	bis 0.6

60 648 Mechanics' side cutters

DIN ISO 5749, for soft wires only, induction hardened precision cutting edges, cutting edge hardness approx. 63 HRC, without bevel, with spring for level cutting, **material:** Vanadium electric steel

Type: Polished head, handles with two-coloured multi-component sheathing



60 648 112

Length mm	60 648...		Cutting capacities Cu wire Ø mm
125	112		0.4 - 2.5

60 666 Plastic side cutters

for plastic, without bevel, for smooth cutting off of the sprues on plastic parts, with opening spring, **material:** Vanadium electric steel, oil hardened

Type: Head polished, handles with plastic coating



60 666 114 + ...116



60 666 216



60 666 316

Length mm	60 666...		Type
140	114		-
160	116		-
160	216		Cutting edges 45° angled
160	316		Cutting edges 85° angled

60 684 End cutters

DIN ISO 5748, for hard and soft wire, cutting edges also induction hardened, cutting edge hardness approx. 61 HRC,

Material: Special tool steel, oil hardened

Type: Head polished, plastic coated handles



60 684...

Length mm	60 684...		Cutting capacities Ø mm medium-hard wire	Cutting capacities Ø mm hard wire
160	116		2.8	2.3
180	118		3.2	2.5
200	120		3.5	2.8

60 692 Strong, high-leverage end cutters

DIN ISO 5748, for piano wire as well as for soft wires, cutting edges also with induction hardening, cutting edge hardness approx.

64 HRC, **material:** Chrome vanadium electric steel, oil hardened

Type:

114 - 120 Head ground + polished, handles with plastic coating

316 - 320 Head chrome plated, handles with two-coloured multi-component sheathing



60 692 114 - ...120



60 692 316 + ...320

Length mm	60 692...		Cutting capacities Ø mm hard wire	Cutting capacities Ø mm Piano wire
140	114		2	1.5
160	116		2.5	2
200	120		3	2.5
160	316		2.5	2
200	320		3	2.5

60 694 Bolt end-cutting nippers

compared to conventional end cutters: higher cutting capacity, greater opening width, better force transfer, lower weight, forged, for 3.0 mm Ø piano wire as well as for thick, soft wire such as rivets, bolts, etc.

Cutting edges with additional induction hardened approx. 64 HRC

Material: vanadium electric steel, oil hardened

Type: Polished head, plastic coated handles



60 694 120

Length mm	60 694...	
200	120	

60 826 Wire cable cutters

with particularly strong shear blade head and transmission, long tubular arms with PVC coating, plastic handles



60 826 001

Overall length mm	60 826...		Cutting capacity soft 1570 N/mm² Ø mm	Cutting capacity hard 1770 N/mm² Ø mm
700	001		12	10
Replacement head	002		-	-



...002



60 848 Compact bolt cutters

- with precision cutting edges for soft, hard and 3.6 mm Ø piano wire
- Cuts soft materials such as bolts, nails, rivets, etc. up to Ø 5.2 mm
- Particularly high cutting performance with little effort due to new type of lever design
- Cutting edge hardness approx. 64 HRc
- Forged
- Chrome vanadium electric steel, oil hardened and tempered



60 848 120



60 848 140



60 848 220

Type:

- 120** Plastic coated handles
140 Plastic coated handles, with opening spring and clip lock
220 Handles with two-coloured multi-component sheathing
320 The recess in the cutting edge makes it easier to cut thicker wires, e.g. in suspended ceiling structures

Length mm	60 848...	
200	120	
200	140	
200	220	
200	320	



...320 with additional recess

60 852 Bolt cutters

with forged joint and tubular steel arms, adjustable cutting jaws, handles made of PVC, **GS tested**



60 852...

Overall length mm	60 852...		Cutting capacity at 45 HRc Ø mm
300	030		6
450	045		7
600	060		8
750	075		9
900	090		10

60 856 Bolt cutters

Cutting heads made of special steel, tempered and induction hardened, with tubular steel arms, red powder coated, with tappet readjustment and PVC handles



60 856 045 - ...090

60 860 Replacement cutter heads

made of special heat-treated steel, induction hardened and tempered, including screws

Length mm	60 856...		60 860... Replacement cutting heads		Cutting capacity for soft material Ø mm	Cutting capacity for hard material Ø mm
450	045		045		10	7
610	061		061		11	9
800	080		080		13	11
900	090		090		15	13



60 860 045 - ...090

60 862 Bolt cutters

with forged joint and tubular steel arms, adjustable cutting head, **cutting edges induction hardened**, special cutting head enables round material of any common hardness to be cut, cutting head readjusted using the eccentric screws

**60 863 Replacement cutter heads**

complete, for bolt cutters No. 60 862...

Overall length mm	60 862...		60 863... Replacement cutting heads		Cutting capacity round material HRc 48 (hard) Ø mm
460	046		146		5
610	061		161		7
760	076		176		8
910	091		191		9
1070	107		207		10

60 862 046



60 863 161

60 865 Bolt cutters

with **angled**, readjustable cutter heads for flush cutting off of form-work wires, cutting edges induction hardened, cutter head readjusted using eccentric screws

**60 866 Replacement cutter heads**

complete, for bolt cutters 60 865...

Overall length mm	60 865...		60 866... Replacement cutting heads		Cutting capacity round material HRc 40 Ø mm
460	046		046		6
610	061		061		8

60 865 046

60 872 Reinforcement steel mesh cutters

with tubular steel arms, powder coated, with tappet readjustment and PVC handles, cutting heads made of special steel, heat-treated, induction hardened and tempered

**60 874 Replacement cutter heads**

complete, including screws, for reinforcement steel mesh cutters 60 872...

60 872...

Length mm	60 872...		60 874... Replacement cutting heads		Cutting capacity at 785 N/mm ² mm
800	080		080		8
900	090		090		9

60 875 Grating cutters

Cutter head with force transmission, cutters made of high alloy steel, drop forged, heat treated and induction hardened, arms with plastic handles



Length mm	60 875...		Cutting capacity mm	Mesh size from mm
840	001		40 x 4	30 x 30

60 875...



61 002 Cross pein hammers

Hammer head to DIN 1041 made of C45 quality steel, drop-forged, carefully hardened and tempered, fixed with ring wedges and sealed with synthetic resin, working surfaces ground, transparent varnished ash shaft, TÜV-GS tested and VPA-GS tested



61 002...

61 004...

with hickory shaft

61 004 Cross pein hammers

DIN 1041, as Prod. 61 002...; however, with curved hickory shaft

Weight without shaft g	61 002... Ash shaft		61 004... Hickory shaft		Shaft length mm
100	010		010		260
200	020		020		280
300	030		030		300
400	040		040		310
500	050		050		320
600	060		060		330
800	080		080		350
1000	100		100		360
1500	150		150		380
2000	-	-	200		400

61 005 Cross pein hammers

similar to DIN standard with forged on protective shaft collar and nylon protective sleeve, ash shaft with transparent varnish, fixed with ring wedges and synthetic resin sealed, drop forged, stove-enamelled, carefully hardened and tempered, working faces ground



61 005...

61 006...

with hickory shaft

61 006 Cross pein hammers

similar to DIN standard, like Prod. 61 005...; however with hickory shaft transparent varnished

Weight without shaft g	61 005... Ash shaft		61 006... Hickory shaft		Shaft length mm
300	030		030		300
500	050		050		320
800	080		080		350
1000	100		100		360
1500	150		150		380

61 008 Cross pein hammers

Hammer head to DIN 1041 made of C 45 quality steel according to DIN 17200, drop forged, carefully hardened and tempered, black powder coated, ground striking face and pein, with nickel plated protective shaft sleeve pressed into the hammer eye, with hickory shaft



61 008...

with hickory shaft

Weight without shaft g	61 008...		Shaft length mm
200	020		280
300	030		300
400	040		310
500	050		320
800	080		350
1000	100		360
1500	150		380
2000	200		400

61 010 "Rotband-Plus" cross pein hammers

Hammer head to DIN 1041 made of special steel, curved hickory shaft, with additionally long, hardened shaft protection sleeve, through the sleeve, with wedge, fixing plate and wood screw join the hammer head and wooden shaft to form a single unit with a long life and a high degree of safety



61 010...

with hickory shaft

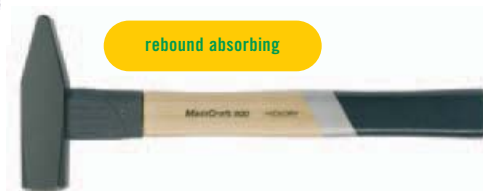
Weight without shaft g	61 010...		Shaft length mm
200	020		280
300	030		300
500	050		320
800	080		350
1000	100		360



61 017 Cross pein hammer, rebound absorbing

Drop forged hammer head made of high-quality special steel with bright ground pein and striking face as well as bevelled edge in accordance with the regulations. Hammer face and pein carefully hardened and tempered. The special connection between the hammer head and shaft sleeve creates an inseparable, vibration absorbing unit. Ergonomically shaped hickory shaft. Perceptible rebound absorbing and therefore full force of blow transferred onto the work-piece. Fatigue-free working, gentle on the hammer user's joints due to low vibration on impact. Shaft protective sleeve with rubber covering to absorb mishits.

MaxxCraft



rebound absorbing

61 017...



Weight g	61 017...		Length mm
300	003		300
500	005		320
800	008		350
1000	010		360

61 011 Cross pein hammers

Hammer head according to DIN 1041, made of quality steel, shaft inseparably connected to hammer head, **Ultratec shaft** made of 3 components with glass fibre core, unbreakable



with Ultratec shaft

61 011...

61 014 Cross pein hammers

DIN 1041, with unbreakable **Ultramid plastic shaft**, with safety keying with wedges and permanently fixed shaft seat



with Ultramid shaft

61 014...

Weight without shaft g	61 011...		61 014...		Shaft length mm
200	020		020		270
300	030		030		300
500	050		050		330
800	080		080		330
1000	100		100		350
1500	150		-	-	350

61 016 Soft-face attachments for pein hammers

made of polyurethane

For hammers g	61 016...	
300	030	
500	050	
800	080	
1000	100	



61 016...

61 019 Sledgehammers

with **ULTRATEC glass fibre shaft** - unbreakable. Considerably less vibrations than conventional glass fibre shafts.

Hammer head made of grade C 45 steel, face and pein ground.



with Ultratec shaft

61 019...

Weight g	61 019...		Shaft length mm
3000	030		860
4000	040		860
5000	050		860



61 020 Sledgehammers

DIN 1042, forged quality, carefully hardened and tempered, made of grade C 45 steel according to DIN 17200, face and pein ground, with **hickory shaft**



with hickory shaft

61 020...

61 021 Sledgehammers

made of C45 forged steel, hardened, ground on all sides, polished pein and face, black painted head, with **ash shaft**

Weight without shaft g	Shaft length mm	61 020...		61 021...	
3000	600	030		030	
4000	700	040		040	
5000	800	050		050	
6000	800	060		060	
8000	900	080		080	
10000	900	100		100	



with ash shaft

61 021...

61 022 Club hammers

Club hammer head to **DIN 6475** made of C45 quality steel, drop-forged, carefully hardened and tempered, with ring wedges and sealed with synthetic resin, working surfaces ground, **transparent varnished hickory shaft**, TÜV-GS tested, transparent varnished shaft



with hickory shaft

61 022...

61 024 Club hammers

DIN 6475, as 61 022...; however, in addition with shaft protection sleeve

Weight without shaft g	61 022...		61 024...		Shaft length mm
1000	100		100		260
1250	125		125		260
1500	150		150		280
2000	200		200		300



with hickory shaft and shaft protection sleeve

61 024...

61 026 Club hammers

Hammer head according to DIN 6475, made of quality steel, shaft inseparably connected to hammer head, **Ultratec shaft** made of 3 components with glass fibre core, unbreakable



Weight without shaft g	61 026...		Shaft length mm
1000	301		260
1250	312		260
1500	315		280
2000	320		300



61 026...

61 028 Rubber face attachment

for club hammers according to **DIN 6475**

For club hammers g	61 028...	
1500	150	



61 028 150

61 030 Copper-faced hammers

similar to **DIN 5130**, with **ash shaft**, club hammer shape, made of electrolytic copper, with bevelled edges, particularly suitable for straightening shafts, bright sheet metal, during assembly or installation, for adjusting tools, etc.

Weight without shaft g	61 030...		Shaft length mm
250	025		280
500	050		320
750	075		320
1000	100		360
1500	150		360
2000	200		380



61 030...

61 034 Lightweight metal hammers

Cylindrical, with double curved, varnished hickory shaft and transverse pinning as additional shaft fixing. For planishing, panel beating as well as straightening the workpieces



61 034...

Weight without shaft g	61 034...		Head size Ø x width mm	Shaft length mm
250	125		40 x 80	290
500	150		50 x 98	320
750	175		60 x 100	340
1000	200		60 x 130	380
1500	250		70 x 145	380

61 038 Carpenters' roofing hammer/slaters' hammer

DIN 7239, with tubular steel shaft, shaft fixing and plastic handle, with magnetic nail holder, painted black, "GS" tested



61 038 060

61 039 Carpenters' roofing hammer/slaters' hammer

DIN 7239, as Prod. 61 038...; however, with nail holder, without magnet



61 039 060

with magnetic nail holder

Weight g	61 038... Magnet		61 039... Magnet		Shaft length mm
600	060		060		330

61 042 Carpenters' roofing hammer/slaters' hammer

DIN 7239, with tubular steel shaft and rubber handle, hammer head fixed with transverse pin, with nail holder, painted black, "GS" tested



61 042 060

61 044 Carpenters' roofing hammer/slaters' hammer

DIN 7239, as Prod. 61 042...; however, with magnetic nail holder

with magnetic nail holder



61 044 060

Weight g	61 042... Magnet		61 044... Magnet		Shaft length mm
600	060		060		330

61 056 Bricklayers' hammer

with ash shaft, Rhenish model, drop forged and hardened

Weight without shaft g	61 056...		Shaft length mm
600	060		300
Replacement ash shaft	070		-



61 056 060

61 062 Bricklayers' hammer

with tubular steel shaft and plastic handle, Berliner model, drop forged and hardened, "GS" tested



Weight g	61 062...		Shaft length mm
750	075		280



61 062 075

61 066 Drywall hammer

with tubular steel shaft and plastic handle, drop forged and hardened, "GS" tested



Weight g	61 066...		Shaft length mm
700	070		320



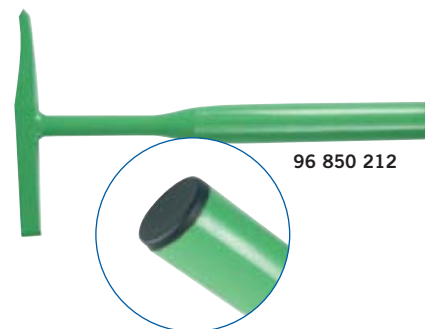
61 066 070

96 850 Chipping hammers

DIN 5133, tips ground and hardened
...201: with wooden shaft made of ash
...211: with round steel shaft
...212: with oval steel shaft



96 850 201



96 850 212

Type	96 850...		Weight g
Wooden shaft	201		ca. 340
All-steel, round	211		ca. 400
All-steel, oval	212		ca. 400

61 084 Hammer shafts

DIN 5111, heavy, straight-grained wood quality, sanded and waxed, double curved shape, according to quality class "A" in accordance with DIN 68340

Overall length mm	61 084...		For hammer weight g
260	010		100
280	020		200
300	030		300
310	040		400
320	050		500
330	060		600
350	080		800
360	100		1000
380	150		1500
400	200		2000



61 084...

61 088 Hickory hammer shafts

made of hickory, for cross pein hammers with shaft protection sleeve, double curved design

Overall length mm	61 088...		For hammer weight g
280	020		200
300	030		300
310	040		400
320	050		500
350	080		800
360	100		1000
380	150		1500
400	200		2000



61 088...

61 089 Ultramid hammer shafts

made of unbreakable Ultramid plastic,
for cross pein hammers 61 014... and hammer heads according to DIN 1041, simple, safe assembly

Overall length mm	61 089...		For hammer weight g
270	020		200
300	030		300
330	050		500
330	080		800
350	100		1000



unbreakable

61 089...



61 090 Sledgehammer shafts

DIN 5112, heavy, straight-grained wood quality with long durability, straight shape, wax polished

Overall length mm	61 090...		For hammer weight g
600	030		3000
700	040		4000
800	050		5000 / 6000
900	080		8000 / 10000



61 090...

61 094 Club hammer shafts

DIN 5135, heavy, straight-grained wood quality with long durability, curved shape, wax polished

Overall length mm	61 094...		For club hammer weight g
260	100		1000 / 1250
280	150		1500
300	200		2000



61 094...

61 100 FERROPLEX Combination cross pein and soft-faced hammer

universal, compact, cost-saving, hammer head made of high-quality quenched and tempered steel, face hardened and heat-treated, replaceable nylon insert made of special extruded nylon. Tubular steel shaft made of drawn precision tubular steel with comfortable, shock-absorbing rubber handle. Red marking ring for conspicuous identification of the different striking faces.



61 100...

Weight g	61 100...		Head Ø mm	Overall length mm
600	060		30	290
800	080		35	295

61 102 Soft faced hammers

with faces made of Cellidor, for general use,
with hickory shaft



61 102...

61 103 Replacement faces

made of Cellidor, suitable for soft faced hammers 61 102...

Face Ø mm	61 102...		61 103...		Face length mm	Overall length mm	Weight g
			Spare faces				
22	022		022		75	250	195
27	027		027		90	265	280
32	032		032		95	280	380
35	035		035		105	290	460
40	040		040		110	320	665
50	050		050		115	340	925
60	060		060		135	380	1350



61 103...

61 106 Soft faced hammers

with faces made of nylon, high notched impact strength and ash shaft



61 106...

61 107 Replacement faces

made of nylon, suitable for soft faced hammers Prod No. 61 106...

Face Ø mm	61 106...		61 107...		Face length mm	Overall length mm	Weight g
			Spare faces				
22	022		022		75	250	193
27	027		027		90	265	276
32	032		032		95	280	374
35	035		035		105	290	455
40	040		040		110	320	656
50	050		050		115	340	905



61 107...

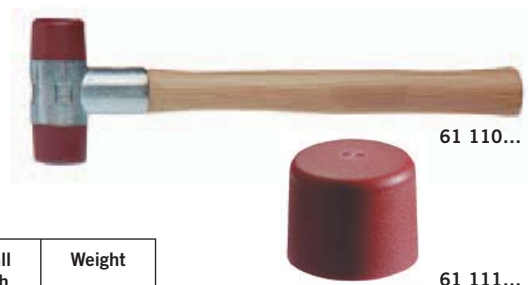
61 110 Soft faced hammers

with faces made of urethane, for hammering sharp-edged work-pieces, abrasion resistant and shatter proof, with hickory shaft

61 111 Replacement faces

made of urethane

Face Ø mm	61 110...		61 111... Spare faces		Face length mm	Overall length mm	Weight g
22	022		022		75	250	193
27	027		027		90	265	276
32	032		032		95	280	374
35	035		035		105	290	455
40	040		040		110	320	656
50	050		050		115	340	905



61 110...

61 111...

61 114 Replacement soft-faced hammer shaft

Hickory, for soft-faced hammers No. 61 102... - 61 110...

Head Ø mm	61 114...		Shaft length mm
22	022		250
27	027		265
32	032		280
35	035		290
40	040		320
50	050		340
60	060		380



61 114...

61 115 Punch, not rebound-free

both sides with replaceable white, hard nylon inserts. For all assembly, installation and repair work. For replacement nylon inserts, see from Prod No. 61 115 110



61 115 010 - 015

Head Ø mm	61 115...		Length mm	Weight g	61 115... Spare inserts	
10	010		168	100	110	
12	012		170	130	112	
15	015		175	200	115	



61 115 110 - 115

61 117 Rapper, rebound-free

both sides with replaceable white, hard nylon inserts. For all assembly, installation and repair work on housings and for the jointing of work-pieces.

For replacement nylon inserts, see from Prod No. 61 134 022

Head Ø mm	61 117...		Length mm	Weight g	61 134... Inserts	
20	020		150	220	-	-
25	025		150	330	022	
30	030		155	460	023	
35	035		155	650	024	



61 117...

61 118 Non-rebounding soft faced hammers

- Yellow hammer faces, medium-hard polyurethane, colourfast and wearproof
- Housing made of tubular precision steel
- Hickory wood shaft with ergonomic profile
- With hammer heads filled with hard cast iron particles
- GS tested

...025 - ...060: Particularly suitable for workpieces in the machine vice or for assembly or installation work

...080 - ...100: **Sledgehammer style**

Particularly suitable for positioning during installation and dismantling work, straightening



61 118 025



61 118 080

← bis 1000 mm →

Head Ø mm	61 118...		Head length mm	Overall length mm	Weight g
25	025		108	320	320
30	030		115	350	460
35	035		118	355	580
40	040		125	375	760
45	045		130	380	1000
50	050		135	385	1250
60	060		165	420	2000
Sledgehammer type:					
80	080		205	880	4550
100	100		210	1000	6860

61 120 Non-rebounding soft faced hammers

type like No. 61 118...; however, with tubular steel shaft and rubber handle



61 120...

Head Ø mm	61 120...		Head length mm	Overall length mm	Weight g
30	034		115	290	600
40	038		125	305	850

61 122 Replacement faces

made of polyurethane, for soft faced hammers No. 61 118... + 61 120...

Face Ø mm	61 122...	
25	025	
30	030	
35	035	
40	040	
45	045	
50	050	
60	060	
80	080	
100	100	



61 122...

61 124 Replacement hickory shafts

for soft-faced hammers No. 61 118...

For head Ø mm	61 124...		Shaft length mm
25	092		295
30 - 35	094		320
40 - 45	096		335
50	098		335
60	101		360



61 124...

61 128 Non-rebounding soft faced hammers

with hickory shaft and interchangeable hammer faces made of wearproof nylon.

Head Ø mm	61 128...		Head length mm	Overall length mm	Weight g
25	025		105	305	300
30	030		110	330	430
35	035		110	335	550
40	040		115	360	750
50	050		120	370	1000
60	060		145	370	1700



61 128...

with hickory shaft

61 130 Non-rebounding soft faced hammers

with tubular steel shaft and hard rubber handle. With interchangeable faces made of wearproof nylon.

Head Ø mm	61 130...		Head length mm	Overall length mm	Weight g
30	030		110	290	580
35	035		110	295	700
40	040		115	300	850
50	050		120	310	1200
60	060		145	325	1780



61 130...

61 132 Non-rebounding soft faced hammers

with 3 component shaft, ergonomic and with a good grip, excellent hammering properties, rebound-free and low vibration, resistant to oil, acids and alkalis. With interchangeable faces made of wearproof nylon.

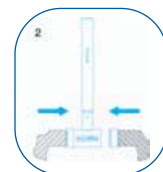
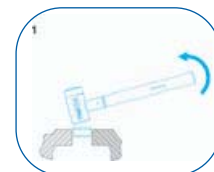


61 132...

with 3-component shaft

easy to change replacement heads

Head Ø mm	61 132...		Head length mm	Overall length mm	Weight g
40	040		115	370	780
50	050		120	380	1090
60	060		145	390	1660

**61 134 Replacement faces**

made of nylon, for soft faced hammers No. 61 128... to 61 132... and rapper No. 61 117...

Face Ø mm	61 134...	
25	022	
30	023	
35	024	
40	025	
50	027	
60	028	



61 134...

61 136 SECURAL Soft-faced hammer, non-rebound

- For automobile assembly/repair work
- Positioning workpieces in the vice, panel beating
- Planishing, housing assembly
- Furniture making, building windows/doors, laying parquet/laminate
- Joiner's workshop, coachbuilding/body construction
- Made of stable sheet steel casing with rubber handle
- Inserts: Polyurethane, yellow 30 x 40 mm rectangular



61 136 030

Head size mm	61 136...		Head length mm	Overall length mm	Weight g
30 x 40	030		117	300	700

61 137 Inserts for SECURAL soft faced hammer

- Suitable for soft faced hammer 61 136...
- Made of polyurethane, yellow
- Size

Size mm	61 137...	
30 x 40	030	



61 137 030

61 138 Non-rebounding soft faced hammers

no sparking, for hammering work with increased risk of fire and explosion, acid and oil resistant, PUR sheathed steel casing, ergonomic rubber handle, gentle use for all applications



61 138...

Head Ø mm	61 138...		Head length mm	Overall length mm
35	135		78	280
45	145		90	300
50	150		105	320
60	160		120	380

No sparking!

61 140 Soft faced hammers**SIMPLEX**

with two-piece **malleable cast iron casing**, **face inserts** and **wooden shaft**, are fixed with an Allen screw, beads in the insert and shaft holder prevent the shaft and inserts from slipping and twisting, the head inserts and shaft can be quickly replaced, **with face inserts made of a black rubber composition**



61 140...

Head Ø mm	61 140...		Head length mm	Overall length mm	Weight g
30	030		90	300	340
40	040		110	330	650
50	050		135	350	1170
60	060		145	405	1600
80	080		175	490	3220

**Accessories for SIMPLEX soft faced hammers****61 143 Face inserts**

made of **rubber composition**, black

61 144 Face inserts

made of **plastic**, red

61 146 Face inserts

made of **super plastic**, white

61 148 Face inserts

made of **nylon**, white

61 150 Face inserts

made of **soft metal**, silver-coloured



61 143...



61 144...



61 146...



61 148...



61 150...

Face Ø mm	61 143... Rubber		61 144... Plastic		61 146... S plastic		61 148... Nylon		61 150... Soft metal	
30	030		030		030		030		030	
40	040		040		040		040		040	
50	050		050		050		050		050	
60	060		060		060		060		060	
80	080		-		080		080		080	

61 152 Casing

made of malleable cast iron, for **SIMPLEX soft faced hammers No. 61 140...**
2-piece, without face inserts

For head Ø mm	61 152...	
30	030	
40	040	
50	050	
60	060	
80	080	



61 152...



61 158 Shafts

made of wood, for SIMPLEX soft faced hammers No. 61 140...

For head Ø mm	61 158...		Shaft length mm
30	030		260
40	040		275
50	050		310
60	060		335
80	080		395
80	081		700



61 158...

61 162 Rubber hammers

with ash shaft, made of hard rubber, Shore hardness 95, with strong driving blow effect, non-elastic, with flat faces,
No. ... 165, with one flat and one half-round face

Head length mm	61 162...		Head Ø mm	Shaft length mm	Weight g
80	040		40	260	170
90	055		55	320	300
115	065		65	340	500
130	075		75	380	800
140	090		90	380	1150
115	165		65	340	500



61 162 040

61 162 165

61 164 Replacement ash shafts

for rubber hammers No. 61 162...

Size	61 164...	
0	001	
1	002	
2 + 5	003	
3	004	
4	005	

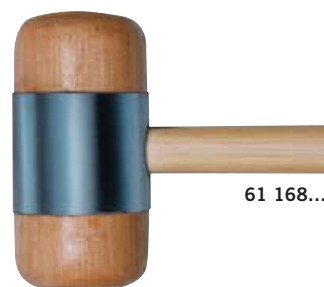


61 164...

61 168 Wooden hammers

made of soft beechwood with pressed on metal sheath and oval shaft
made of ash wood

Head length mm	61 168...		Head Ø mm	Shaft length mm	Weight g
100	050		50	280	220
120	060		60	300	370
140	070		70	320	560
160	080		80	350	810
180	090		90	380	1100
200	100		100	400	1400



61 168...

61 173 Double ball chasing hammers

with curved ash shaft,
faces with different degrees of curvature and finely polished

Weight without shaft g	61 173...		Shaft length mm
200	020		280
300	030		300
500	050		320



61 173...

61 181 Double ball smiths' hammers

with curved ash shaft,

one face with a flat curvature, the other with a marked high curvature, finely polished

Weight without shaft g	61 181...		Shaft length mm
250	025		300
400	040		310



61 181...

61 187 Hatchets

painted, polished blade, with polished "cows foot" shaft made of ash



Weight g	61 187...		Shaft length mm
600	060		380
800	080		380



61 187...

61 189 Axes

Rhenish shape, painted, polished blade, with polished "cows foot" shaft made of ash



Weight g	61 189...		Shaft length mm
1250	125		700
1600	160		800



61 189...

61 193 Claw-type wedges -S-

the ideal fixing for hammers, axes, hatchets, etc., when knocked into the wood the differently ground claw ends dig into the wood and an permanent connection is formed between the tool and the shaft, the cast on clamping ridges increase the minimum pull out resistances required by the DIN standards, ...070 and ...080 without clamping ridges



61 193 020

61 193 070

Size	61 193...		Claw width mm	For hammers g
1	010		13	100 - 200
2	020		18	300 - 400
3	030		22	500 - 800
4	040		28	1000 - 1500
5	050		31	2000
6	060		34	3000 - 5000
7	070		37	For hatchets
8	080		40	For axes

61 197 Ring hammer wedges

The ideal fixing for hammers, axes, hatchets, etc., wedge-shaped steel sleeves which uniformly press the wood from all sides and firmly dig into the wood with their sharp-edged shoulder



61 197...

Size	61 197...		Length mm	Ø mm
0	010		12	7
2	011		14	9
3	012		16	10
5	014		18	12
6	015		20	13
7	016		22	15
8	017		24	17

61 204 Chisels for electric rotary hammer drills and breakers

Description	61 204...		Length / blade width mm
Shank end type A SDS-plus			
Point chisel	001		250
Flat chisel	003		250/20
Hollow chisel	004		250/22
Tile chisel	005		250/40
Tile chisel, curved	006		250/40
Shank end type B SDS-max			
Point chisel	012		400
Point chisel	013		600
Flat chisel	014		280/25
Flat chisel	015		400/25
Hollow chisel	016		300/22
Tile chisel	017		400/50
Tile chisel	018		300/80



Shank: SDS-plus



Shank: SDS-max



61 204 Chisels for paving breakers

suitable for Mannesmann Demag paving breakers

**MANNESMANN
DEMAG**

Description	61 204...		Working length mm	Blade width mm
Shank end type: R 10.3 x 36 mm with collar				
Suitable for chipping hammer 84 830 010				
Point chisel	201		125	-
Point chisel	203		200	-
Flat chisel	205		125	15
Flat chisel	207		195	15
Flat chisel	209		250	15
Wide chisel	211		125	40
Blank	213		125	-
Shank end type: RS 14.3 x 50 mm with collar				
Suitable for paving breaker set 80 826 023, chipping hammer 84 830 016				
Point chisel	301		200	135 -
Point chisel	303		250	-
Point chisel	305		250	-
Flat chisel	307		135	15
Flat chisel	309		135	20
Flat chisel	311		200	15
Flat chisel	313		200	20
Flat chisel	315		250	20
Butt chisel	317		135	30
Wide chisel	319		180	40
Wide chisel	321		180	60
Blank	323		135	-
Blank	325		150	-
Blank	327		200	-



...201 - ...213

...301 - ...327

Other chisels for Mannesmann Demag machines available on request.

61 204 Chisels for Bosch breakers and demolition hammers



- For high removal rates in natural stone, masonry and concrete
- High-quality special steel
- Low-wear surface
- Maximum working strength, long tool times

...501 to ...519:

- 28mm hexagonal shank
- Suitable for BOSCH breaker **GSH 16-28 (80 225 128)**

...601 to ...611:

- 30mm hexagonal shank
- Suitable for BOSCH breaker **GSH 16-30 (80 225 130)**

...501 and ...601:

- With star-shaped, self-sharpening blade



61 204 501



61 204 503



61 204 505



61 204 509



61 204 511



61 204 513



61 204 515



61 204 517

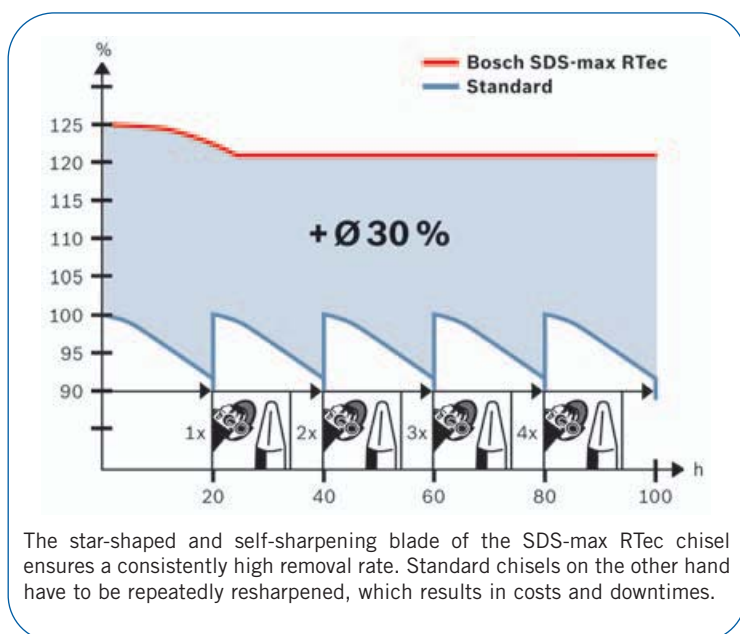


61 204 601

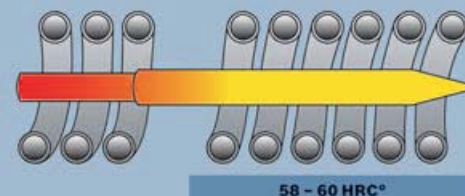


61 204 701

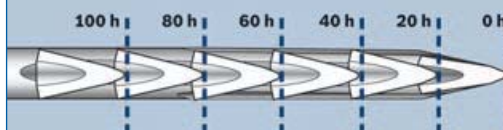
Description	61 204...		Working length mm	Blade width mm
28 mm hexagonal shank				
Pointed chisel	501		400 (star-shaped)	-
Pointed chisel	503		400 (standard)	-
Pointed chisel	505		520	-
Flat chisel	507		400	36
Flat chisel	509		520	36
Tile chisel	511		400	80
Asphalt cutter	513		500	125
Spade chisel	515		400	135
Earth driving rod	517		300	-
Toolholder for tamping plates	519		390	-
30 mm hexagonal shank				
Pointed chisel	601		400 (star-shaped)	-
Flat chisel	603		400	35
Tile chisel	605		450	75
Asphalt cutter	607		450	125
Spade chisel	609		450	135
Toolholder for tamping plates	611		400	-
Tamping plate 150 x 150 mm	701		Requires the toolholder ...519 or ...611	-
Tamping plate 200 x 200 mm	703		Requires the toolholder ...519 or ...611	-



Inductive hardening: Different hardness zones make the Bosch chisels extremely dimensionally stable, breakproof and durable.



Constantly high removal rate due to the innovative star-shaped and self-sharpening cutting edge.



“Welding and Cutting” catalogue

- Autogenous engineering
- Filler metals
- Arch welding
- Welding equipment
- Welding accessories:
- Extractor Technology

61 207 Flat chisel

Chrome vanadium air hardened steel, forged, hardened, heat-treated head, painted, blade painted



61 207...

Overall length mm	61 207...		Blade width mm	Steel thickness mm
100	010		15	14 x 9
125	012		15	17 x 11
150	015		18	17 x 11
175	017		21	20 x 12
200	020		24	23 x 13
250	025		25	23 x 13
300	030		26	23 x 13

61 210 Flat chisel

Chrome vanadium air hardened steel, octagonal, forged, hardened, heat-treated head, painted, blade painted



61 210...

Overall length mm	61 210...		Blade width mm	Steel thickness mm
125	012		12	10
150	015		15	12

61 213 Cross cut chisel

Chrome vanadium air hardened steel, forged, hardened, heat-treated head, painted, blade painted



61 213...

Overall length mm	61 213...		Blade width mm	Steel thickness mm
125	012		5	17 x 11
150	015		6	17 x 11
175	017		7	17 x 11
200	020		8	20 x 12
250	025		9	23 x 13

61 219 Cross cut chisel

Chrome vanadium air hardened steel, octagonal, forged, hardened, heat-treated head, painted, blade painted



61 219...

Overall length mm	61 219...		Blade width approx. mm	Steel thickness mm
125	012		6	10
150	015		7	12

61 225 Splitting/Parting chisel

Chrome vanadium air hardened steel, octagonal, forged, hardened, heat-treated head, painted, blade polished



61 225...

Overall length mm	61 225...		Width mm	Steel thickness mm
125	002		2	10
125	003		3	10



61 229 Raking chisel

Chrome vanadium air hardened steel, octagonal, forged, hardened, heat-treated head, painted, blade polished



61 229...

Overall length mm	61 229...		Groove width mm	Steel thickness mm
150	002		2	10
150	003		3	10
150	004		4	10
150	005		5	12
150	006		6	12

61 231 Slotting chisel

Chrome vanadium air hardened steel, for metal working and stonework, forged, hardened, heat-treated head, painted, blade painted



61 231 024

Overall length mm	61 231...		Steel thickness mm
240	024		26 x 7

61 234 Masons' chisel/bolster

Chrome vanadium air hardened steel, octagonal, hardened, heat-treated head, painted, blade painted, ground shaft



61 234...

Overall length mm	61 234...		Blade width mm	Steel thickness mm
200	020		23	16
250	025		23	16
300	030		26	18
350	035		26	18
400	040		30	20
500	050		30	20
600	060		34	20

61 237 Point chisel

Chrome vanadium air hardened steel, forged, hardened, heat-treated head, painted, tip painted



61 237...

Overall length mm	61 237...		Steel thickness mm
200	020		16
250	025		16
300	030		18
350	035		18
400	040		20
500	050		20

61 240 Chisel hand guard

protects your hand against injuries, for all flat oval and octagonal shaft chisels



61 240 012

Material	61 240...	
Plastic	012	

61 243 Electricians' chisel

Chrome vanadium air hardened steel, octagonal, forged, hardened, heat-treated head, painted, blade painted



61 243...

Overall length mm	61 243...		Blade width mm	Steel thickness mm
200	020		10	8
200	021		12	10
250	025		12	10
250	026		14	12
300	030		12	10

61 245 Centre punches

Chrome vanadium air hardened steel, octagonal, hardened, heat-treated head, painted



61 245...

Overall length mm	61 245...		Steel thickness mm
120	012		10
120	013		12
150	015		16

61 248 Centre punches

Chrome vanadium air hardened steel with deep soldered in hard metal tip



61 248 010

Overall length mm	61 248...		Shank Ø mm
120	010		10

with cemented carbide tip

61 250 Automatic centre punch

for one-hand use, with spring mechanism, high-quality, extremely clean design, made of special tool steel



61 250...

Overall length mm	61 250...		Shank Ø mm
125	013		14
Replacement tip insert 90°	113		

61 252 Centring punches, adjustable

for uses in toolmaking and jig & fixture construction for transferring existing holes onto other tools.

61 252 100: 3 pce set in plastic case



61 252 100

Size mm	61 252...		Length mm
6 - 8	006		95
8 - 11	008		105
11 - 16	011		115
3 piece set	100		61 252 006 - ...011

61 254 Plain engineers' plug gauge

round, made of special high-strength steel, cleanly turned on lathe, shank tolerance according to h9



61 254...

Shank Ø mm	61 254...		Overall length mm	Taper length mm
13	013		120	50
15	015		150	60
17	017		170	60
19	019		170	60
21	021		190	70
23	023		190	70
25	025		200	80
28	028		210	80
31	031		230	90

61 255 Taper pin punches

Chrome vanadium air hardened steel, octagonal, hardened, heat-treated head, painted




61 255...

Tip Ø mm	61 255...		Overall length mm	Shank Ø mm
1	001		110	10
2	002		110	10
3	003		110	10
2	012		120	12
3	013		120	12
4	014		120	12
5	015		120	12
6	016		120	12
7	017		120	12
8	018		120	12
9	019		150	16
10	020		150	16
12	022		150	16

61 256 Engineers' taper pin punches

round, made of special high-strength steel cleanly turned on lathe, bright ground shaft, painted shaft




61 256...

Tip Ø mm	61 256...		Overall length mm	Taper length mm	Shank Ø mm
5	001		180	110	12
6	002		200	120	13
8	003		200	130	16
9	004		200	130	20
10	005		230	140	22
11	006		250	155	24
12	007		280	170	27
14	008		315	190	30
15	009		340	200	32
16	010		380	220	36

61 257 Parallel pin punches

Chrome vanadium air hardened steel, octagonal, hardened, heat-treated head, painted




61 257...

Tip Ø mm	61 257...		Overall length mm	Steel thickness mm
2	002		150	10
3	003		150	10
4	004		150	10
5	005		150	10
6	006		150	10
7	007		150	12
8	008		150	12
10	010		150	14
12	012		150	14

61 259 Parallel pin punches

with guide sleeve, knurled shaft, nickel plated, insert made of material 115 CrV3, hardened, HRC 55-59, finely ground and polished, the driving tip is positioned with the guide sleeve pushed to the front, during drifting out the driving pin is supported by the movable sleeve and at the same time, to a large extent, prevents the driving tip from breaking off



61 259...

Set composition
under Prod. No. 61 259 800

Tip Ø mm	61 259...		Overall length mm
0.9	009		80
1.4	014		85
1.8	018		88
2.4	024		92
2.8	028		96
3.4	034		96
3.9	039		100
5.9 *	059		100

* without guide sleeve



61 259 Parallel pin punch set

Type as 61 259... in a sheet steel case

Primat



61 259 800

Contents Qty	Ø mm	61 259...	
8	0.9 - 1.4 - 1.8 2.4 - 2.8 3.4 - 3.9 - 5.9	800	

61 261 Rivet setter

Chrome vanadium air hardened steel, octagonal, heat-treated head, painted

Primat



61 261...

For rivet shank Ø mm	61 261...		Hole Ø mm	Length mm
2	002		2.5	100
3	003		3.5	100
4	004		5	100
5	005		6	110
6	006		7	110
8	008		9	120

61 263 Rivet header/snap die

Chrome vanadium air hardened steel, octagonal, heat-treated head, painted

Primat



61 263...

For rivet shank Ø mm	61 263...		Hole Ø mm	Length mm
2	002		3.5	100
3	003		5.2	100
4	004		7	100
5	005		8.8	110
6	006		10.5	110
8	008		14	120

61 269 Taper pin punch set

in plastic holder, chrome vanadium air-hardened steel, hardened, painted surface, heat-treated head, consisting of: Taper pin punches, centre punch

Primat



61 269 100

61 270 Taper pin punch set

in hinged plastic case, chrome vanadium air-hardened steel, hardened, painted surface, heat-treated head, consisting of: Taper pin punches, centre punch



61 270 100

Contents Qty	Type Ø	61 269...		61 270...	
6	Tapered pin punches 1 mm, 2 mm, 3 mm, 4 mm, 5 mm, centre punch	100		100	



61 277 Parallel pin punch set

in plastic holder, chrome vanadium air-hardened steel, hardened, heat treated head, painted surface



61 277 100

61 278 Parallel pin punch set

in hinged plastic case, chrome vanadium air-hardened steel, hardened, heat treated head, painted surface



61 278 100

Contents Qty	Ø mm	61 277...		61 278...	
6	3, 4, 5, 6, 7, 8	100		100	

61 283 Tool kit

in plastic holder, chrome vanadium air-hardened steel, heat treated head, painted surface



61 283 100

61 285 Tool kit

in hinged plastic case, chrome vanadium air-hardened steel, heat treated head, painted surface



61 285 100

Contents	Dimensions mm	61 283...		61 285...	
1 Flat chisel	150 x 12	100		100	
1 Flat chisel	125 x 10				
1 Cross cut chisel	125 x 10				
1 Taper pin punch	120 x 12 x 3				
1 Taper pin punch	150 x 10 x 4				
1 Centre punch	120 x 10				

61 293 Pry bar

with bent tip and handle



61 293...

Length mm	61 293...	
400	004	
500	005	
600	006	

61 295 Tyre lever

made of special steel with a curved cutting edge and a tapering tip



61 295...

Length mm	61 295...		Ø mm
500	050		16
600	060		20

61 296 Right-angled lever bar

round, made of quality steel, heat treated pointed ends, painted black



61 296...

Length mm	61 296...		Ø mm
300	001		10
350	002		12
400	003		14
450	004		16
500	005		20
550	006		26

61 301 Crow bars, bent end

Shank with bevelled edges, bent cutting edge and tip, made of square steel bar



61 301 015

61 306 Crowbars, bent claw end

with bent claw and tip, made of round steel bar 30 mm



61 306 015

61 309 Crow bars, straight

with straight cutting edge and tip, made of round steel bar 30 mm



61 309 015

Length mm	61 301...		61 306...		61 309...	
1500	015		015		015	

61 319 Pry bars/nail pullers

made of hexagon profile, with a highly cranked clawed cutting edge and a slightly bent cutting edge



61 319...

Length mm	61 319...		Steel thickness mm
500	050		18
600	060		18
800	080		18

61 402 Three-square hollow scraper

adjustable, finely polished, nickel plated handle, forged blade, for precision scraping work



...001



...101

Scraper length mm	61 402...		Length of holder mm
85	001		95
Replacement blade	101		-

61 406 Three square precision engineers' scraper

for very fine, precision work, with hollow blade made of chrome vanadium steel and plastic handle, the blade is sheathed up to the tip, for fine, precise scraping work



61 406 001

Blade length mm	61 406...		Overall length mm	Side width mm
80	001		165	9

61 408 Three-square hollow scraper

made of special steel, with painted handle, for precision engineers and mechanics

Primat

Blade length mm	61 408...		Side width mm
75	001		6.3



61 408 001

61 412 Three-square hollow scraper

made of tool steel, with painted handle

Primat

Blade length mm	61 412...		Side width mm
125	012		14
150	015		14
175	017		14
200	020		16
250	025		16
300	030		16



61 412...

61 416 Three-square solid scraper

made of tool steel, with painted handle

Primat

Blade length mm	61 416...		Side width mm
150	015		10
200	020		10
250	025		12



61 416...

61 420 Flat scraper

made of tool steel, with painted handle

Primat

Blade length mm	61 420...		Blade width mm
150	015		20
175	017		20
200	020		20
250	025		25



61 420...

61 422 Flat cemented carbide scraper

Replaceable cemented carbide blade, 4-edged, with polished handle

Primat**61 424 Replacement cemented carbide blades**

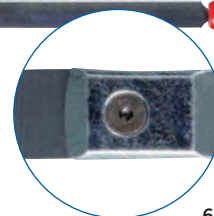
suitable for flat scraper No. 61 422...



61 422...

Replaceable cemented carbide blade

Blade width mm	61 422...		61 424...		Blade length mm	Blade thickness mm	Overall length mm
20	001		001		25	2	420
25	002		002		25	2	470
30	003		003		25	2	470



61 424...

61 428 Flat cemented carbide scraper

V-shape, with permanently soldered in cemented carbide blade and polished handle

Primat

Blade width mm	61 428...		Blade thickness mm	Overall length mm
20	002		5	305



61 428 002

V-shape



61 432 Half-round scraper

made of tool steel, with painted handle



61 432 001



61 432 002

Half-round length mm	61 432...		Blade length mm	Type
85	001		200	Three-square half-round scraper
85	002		200	Half-round bearing scraper

61 435 Gasket scraper

made of 4-square chrome vanadium air hardened steel, blade is forged particularly flat, spatula shape, approx. 1.2 mm thick, suitable as 3-sided scraping blade



61 435 025

Blade width mm	61 435...		Blade length mm	Overall length mm
23	025		150	250

61 438 Plastic window scraper

very stable all-purpose scraper with replaceable blade

Blade width mm	61 438...	
60	001	

Replacement blade 65 076 035

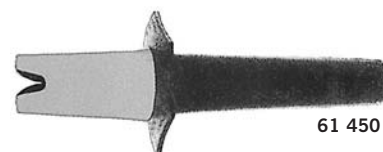


61 438 001

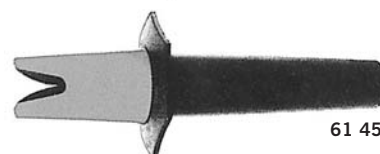
61 450 Deburring tools

with fixed, strong cemented carbide blades, for deburring sheets of steel, aluminium, brass, copper, Nirosta, plastic and moulded compounds, plastic handle, acid and oil resistant, with hand guard, "GS" = tested safety

For material thicknesses mm	61 450...		Overall length mm
0.4 - 5	001		135
1 - 10	002		160



61 450 001

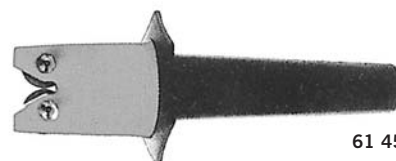


61 450 002

61 453 Deburring tool

with adjustable, replaceable cemented carbide deburring blades, for deburring sheets of steel, aluminium, brass, copper, Nirosta, plastic and moulded compounds, plastic handle, acid and oil resistant, with hand guard, "GS" = tested safety

For material thicknesses mm	61 453...		Overall length mm
0.8 - 5	001		130
Replacement deburring blades (per pair)	101		



61 453...

61 460 Universal handle

made of stable plastic, removable blade holder and can be fixed at required length, with quick lock, blade can also be inserted from the side
















61 460...

Equipped with blade	61 460...		Blade shank mm
B10/B20	001		2.6
E100/E200/E300	002		3.2

Blade can also be
inserted from the side













61 461 Blades

for universal handle No. 61 460 001, shank diameter 2.6 mm

Type	Type	Illustration	61 461...		
Universal HSS blade, ideal for long chipping material, e.g. Aluminium, plastic, steel, etc.	B 10		001		10
TiN coated HSS blade, with increased hardness and longer tool life	B 10 TiN		002		10
Cemented carbide blade for hard steels (from HRc 38)	B 10 C		003		10
as B10, however for left-handed users	B 10 LH		005		10
Lightweight HSS blade for plastics, long chip	B 12		006		10
Blade ground on both sides for grey cast iron, brass, short chip materials	B 20		008		10
TiN coated blades for longer tool life	B 20 TiN		009		10
Cemented carbide blade for hard material, both sides ground, short chip	B 20 C		010		10
HSS blade for removing external and internal burrs from drillholes in sheet metals and pipes up to 4 mm thick, for steel and aluminium	B 30		012		10
TiN coated blade for longer tool life	B 30 TiN		013		10
Blade ground on both sides for brass and grey cast iron, short chip materials	B 32		014		10
blade ground on both sides for brass and grey cast iron, HSS blade for deburring the rear of difficult to access places up to 20 mm wall thickness	B 60		016		10

61 462 Blades

for universal handle No. 61 460 002, shank diameter 3,2 mm

Type	Type	Illustration	61 462...		
Universal HSS blade for aluminium, plastic, steel, long-chip material	E 100		001		10
TiN coated HSS blade for longer tool life	E 100 TiN		002		10
Cemented carbide blade for hard steels (from HRc 38), long-chip material	E 100 C		003		1
HSS blade for left-handed users	E 100 LH		005		10
For fine, precision work from 1.8 mm diameter	E 110		006		10
TiN coated blade for longer tool life	E 110 TiN		007		5
Heavy HSS blade for brass, cast iron, plastic, can be used both right and left, short chip material	E 200		008		10
TiN coated blade longer tool life	E 200 TiN		009		5
HSS blade for deburring two sides of sheet metals and thin material drill holes	E 300		011		10
HSS blade ground on both sides for brass, cast iron	E 320		012		10
For straight edges, keyways and inner radii	E 350		013		10
HSS blade, deburrs the rear of holes up to 20 mm wall thickness, Overall length 62 mm	E 600		014		5
Extended version of the E600, for 40 mm wall thickness, Overall length 74 mm	E 601		015		1

61 464 Deburring tool

for blades No. 61 462... for heavy duty deburring work, aluminium handle, hexagonal, plastic coated, the blade is fed into a wearproof steel sleeve, easy to change blades



61 464 001

Handle Ø mm	61 464...	
13	001	

61 466 Universal handle

for three-square scraper blades No. 61 468..., for quality precision work, made of stable plastic, removable blade holder can be fixed at required length



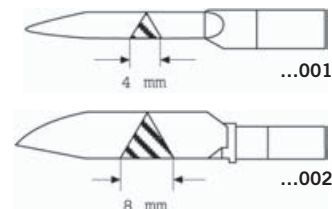
61 466 001

Equipped with blade	61 466...	
C 40	001	

61 468 Three-square scraper

for universal handle No. 61 466 001

Type	Type	61 468...	
Small HSS three-square scraper 4 x 20 mm for quality precision work	C 40	001	
Large HSS three-square scraper 8 x 30 mm	C 42	002	

**61 480 Universal handle**

for countersink No. 61 482..., for deburring fibres and drill holes, made of stable plastic, removable blade holder can be fixed at required length



61 480 001

Equipped with countersink	61 480...	
F12	001	

61 482 Countersinks and counterbores

for universal handle No. 61 480 001

Type	Type	61 482...	
Screw-on 90° HSS countersink Ø 12 mm	F 12	001	
Screw-on 90° HSS countersink Ø 20 mm	F 20	002	
Screw-on 90° HSS countersink Ø 30 mm	F 30	003	

**61 492 Universal deburring sets**

Type ...001 in plastic case

Type ...010 with hard long-life Cobra blades, the Mango adapter B and adapter E provide a sound and secure grip, the Mango handle for deburring, which enables you to finish your work faster, easier and more comfortably



61 492 010
incl. 2 x 15 blades



61 492...

Set contents	61 492...	
1 universal handle A	001	
1 holder each type B, C, D, E and F one blade each type B10, B20, B30, B50, B60, B70, C40, C42, D80, E100, E 200, E300, E350, E600 and F20		
Mango handle Adapter B and E	010	
15 B10S blades, 15 E100S blades		

Right cutting or left cutting shears. What is the difference?

Right-hand shears are ground and designed to easily cut right-hand radii (i.e. a curve from left to right). Radius cuts from right to left are best made with left-hand shears. It is often believed that right-hand shears are for right-handed people and left-hand shears are for left-handed people. This is not correct. On the contrary. If you are right-handed and cut a radius (from left to right) with right-hand shears, you cut from your wrist outwards. With the left-hand shears (radius then from right to left) from your wrist inwards. Which is considerably more ergonomic.



61 602 Pattern cutting snips

with cantilever action, snips head made of stainless steel, drop forged, with double hardening, self-opening due to integrated spring, PVC coated handles, with anti-slip protection, cutting capacity: Sheet metals up to 1.5 mm thick, V2A and CV material up to 0.8 mm

Primat



61 602 001

61 604 Combination tinsnips

with cantilever action, snips head made of stainless steel, drop forged, with double hardening, self-opening due to integrated spring, PVC coated handles, with anti-slip protection, cutting capacity: Sheet metals up to 1.5 mm thick, V2A and CV material up to 0.8 mm

Primat



61 604 002

Overall length mm	Type	61 602... Pattern...		61 604... Combination...	
260	right cutting	001		001	
260	left cutting	002		002	

61 608 Pattern cutting snips

with cantilever action, snips head made of stainless steel, drop forged, with double hardening, self-opening due to integrated spring, ergonomically shaped handles, PVC coated, with anti-slip protection, cutting capacity: Sheet metals up to 1.8 mm thick, stainless steel sheets up to 1.2 mm



61 608 001

61 610 Combination tinsnips

with cantilever action, snips head made of stainless steel, drop forged, with double hardening, self-opening due to integrated spring, ergonomically shaped handles, PVC coated, with anti-slip protection, cutting capacity: Sheet metals up to 1.8 mm thick, stainless steel sheets up to 1.2 mm



61 610 002

Overall length mm	Type	61 608... Pattern...		61 610... Combination...	
260	right-hand cutting	001		001	
260	left cutting	002		002	

61 616 Combination metal snips

with cantilever action, HSS tungsten alloy high-speed steel, soldered on blades, blade hardness HRC 64 - 67, for cutting rust and acid resistant sheet metals such as V2A, CV, Nirosta and other hard sheet metals, increased tool lives, cutting capacity: Sheet metals up to 1.8 mm, V2A and CV material up to 1.2 mm

Primat



61 616...

Overall length mm	Type	61 616...	
260	right-hand cutting	001	
260	left cutting	002	



61 618 Metal hoop/strip snips

with **cantilever action**, safety by holding onto the ends of the strip while cutting, snips head made of stainless steel, drop forged, with double hardening, self-opening due to integrated spring, PVC coated handles, with anti-slip protection for strip widths up to 25 mm and strip thicknesses up to 0.6 mm

Primat



Snips head made of stainless steel with hold-down

61 618 001

Overall length mm	Type	61 618...	
260	right-hand cutting	001	

61 620 Metal hoop/strip snips

with **hold-down**, the tapered, flat bottom section can be easily be pushed under the case strip, **the hold down prevents the cut strip from shooting up**, no risk of injuries, with spring and anti-slip protection

Primat



61 620 001

Overall length mm	Type	61 620...	
225	right-hand cutting	001	

with hold-down

61 624 Tinsnips

Berlin shape, stainless steel, with screw, blade hardness HRc 58 - 60, for cutting sheet steel, rust and acid as well as heat resistant sheet metals (V2A)

Primat



61 624...

Overall length mm	Type	61 624...	
250	right-hand cutting	025	
300	right-hand cutting	030	

61 628 Aviation shears

Pelican shape, stainless steel, with screw, blade hardness HRc 58 - 60, for cutting sheet metals, rust and acid as well as heat resistant sheet metals (V2A)

Primat



61 628...

Overall length mm	Type	61 628...	
300	right-hand cutting	030	
350	right-hand cutting	035	

61 632 Hole-cutting tinsnips

Stainless steel, with screw, blade hardness HRc 58 - 60, for cutting sheet steel, rust and acid as well as heat resistant sheet metals (V2A), right or left-cutting

Primat



61 632...

Overall length mm	Type	61 632...		Type	61 632...	
250	right-hand cutting	025		left cutting	125	
275	right-hand cutting	027		left cutting	127	
300	right-hand cutting	030		left cutting	130	

61 640 Combination tinsnips

Stainless steel, with screw, blade hardness HRc 58 - 60, for cutting sheet steel, rust and acid as well as heat resistant sheet metals (V2A)

Primat



61 640...

Overall length mm	Type	61 640...		Type	61 640...	
260	right-hand cutting	026		left cutting	126	
280	right-hand cutting	028		left cutting	128	



61 656 Combination shears

Stainless steel, serrated blades, plastic handles designed to match the shape of the hand and shock resistant, with practical fastener, for cutting paper, cardboard, fabric, thin sheet metal, string, leather, plastic, strip metal, etc.

Primat

61 656...

61 660 Combination shears

like Prod. No. 61 656...; however, **angled blades** for safe distance from the workpiece

Overall length mm	61 656...		61 660...	
140	001		-	-
185	002		002	



61 660 002

61 664 Jewellers' shears

Special steel, with open, painted handles, drop forged, bright polished head



Straight blade

61 664 001



Curved blade

61 664 002

Overall length mm	Type	61 664...	
180	Straight blade	001	
180	Curved blade	002	

61 668 All-purpose nibbler

- Notching and chip breaking with one tool
- For sheet metals up to 1.2 mm thick
- Aluminium, copper, plastic, leather, etc. up to 2.0 mm thick
- For round and square cutouts without chip obstruction
- Surfaces are not deformed
- With plastic handles and interchangeable blades



61 668 001

Overall length mm	61 668...	
265	001	
Replacement blades	101	
Replacement female die	102	
Replacement spring	103	

61 672 Crown scissors (electronics scissors)

nickel plated, with serrated blade, for cutting thin sheet metal up to 0.4 mm

Overall length mm	61 672...	
115	001	



61 672 001

61 676 Electricians' scissors

...001:

- Made of special steel, nickel plated
- With notch and one serrated blade,
- For cutting thin wires, insulation sleeving, rubber, etc

...002:

- Very handy
- With INOX blade
- Fine toothed and polished
- With wire cutter
- Screwed joint
- Two-component handle



61 676 001



61 676 002

Overall length mm	61 676...	
130	001	
145	002	

61 680 Paper scissors

with long, slender scissors blades, nickel plated



61 680...

Overall length mm	61 680...	
150	000	
200	001	
250	002	

61 682 Industrial scissors

forged, powerful industrial shape with strong handles and large finger loops, adjustable screw joint, bright scissor blades, tapering to a point, painted handles



61 682 001



61 682 002

Overall length	61 682...	
200	001	
250	002	
300	003	



61 682 003

61 683 Industrial scissors

with 3 mm INOX blades and plastic finger loops, ergonomic, hardness 53 HRC



61 683 017



61 683 024

Length mm	61 683...	
170	017	
240	024	

61 685 Hand mitre shears

- for pinch-free cutting of plastic, rubber and soft wood mouldings, can also be used for flat ribbon cable up to 56 mm wide
- replaceable cutting base with fence angle for 45° cuts and markings for 60°, 75° and 90° cuts
- replaceable, standard trapezoidal blade
- with opening spring and safety latch
- grip and blade mounting made of special high-strength steel



61 685 001

Length mm	61 685...	
215	001	

Replaceable trapezoidal
blade

62 006 Metal cutting bench shears, for round and flat steel

Basic equipment for metalworking shops, assembly firms, fitters, training workshops and schools, with stable steel body, easy material feed and continuously adjustable hold-down, lock bolts for accident prevention

62 008 Replacement top blades**62 010 Replacement bottom blades**

Sheet metal cutting capacity mm	Round steel cutting capacity mm	Blade length mm	62 006...	62 008...	62 010...
4	11	120	104	104	104
5	11	150	105	105	105
6	13	180	106	106	106



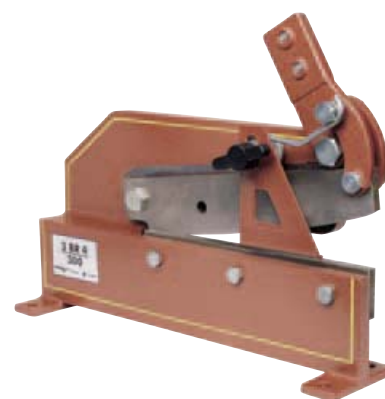
62 006...

62 016 Long blade bench shears for sheet metal

ideal for sheet metalworking firms, for vessel making, as well as for metalworking shops, training workshops, steel furniture makers, with stable steel body, easy material feed and continuously adjustable hold-down

62 020 Replacement top blades**62 022 Replacement bottom blades**

Sheet metal cutting capacity mm	Round steel cutting capacity mm	Blade length mm	62 016...	62 020... Top blades	62 022... Bottom blades
5	13	400	104	104	104
5	13	500	105	105	105
5	13	290	106	106	106



62 016...

62 026 Metal cutting bench shears, for sheet steel and steel bar

for cutting and planing/trimming unlimited lengths of sheet steel, stable body, continuously adjustable hold-down

Sheet metal cutting capacity mm	Round steel cutting capacity mm	Square steel bar cutting capacity mm	Flat steel mm	62 026...
8	20	18	100 x 9	101



62 026 101

62 030 Metal cutting bench shears, for sheet steel, steel sections and steel bar

robust design for cutting and planing/trimming of unlimited lengths of sheet steel, cutting of round, square steel bar, steel angle sections and T section steel

Sheet metal cutting capacity mm	Round steel cutting capacity mm	L & T steel section cutting capacity mm	Flat steel mm	62 030...
8	16	40 x 6	100 x 9	101



62 030 101

62 090 Bench vices

forged from steel, unbreakable, adjustable guides, absolutely parallel clamping, hardened surfaces, hardened side shelf, replaceable vice screw handle with plastic end caps to prevent accidents, **with mounting for a pipe jaw**, for suitable height adjuster see Prod. No. 62 094...

Primat



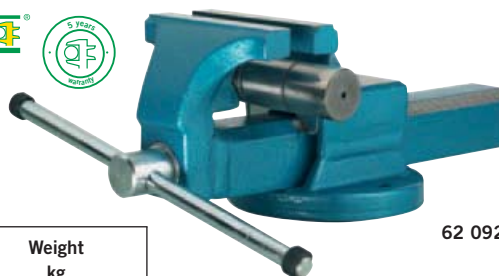
62 090...

Jaw width mm	62 090...		Capacity mm	Weight kg
100	010		125	5.2
125	012		160	9.3
135	013		170	14.0
150	015		190	18.5
175	017		205	25.0

62 092 Bench vices

with 2 welded in pipe jaws, forged from steel, unbreakable, adjustable guides, absolutely parallel clamping, hardened surfaces, hardened side shelf, replaceable vice screw handle with plastic end caps to prevent accidents, for suitable height adjuster see Prod. No. 62 094...

Primat



62 092...

with fixed pipe jaws

Jaw width mm	62 092...		Capacity mm	Weight kg
125	012		160	9.3
150	015		190	18.5
175	017		205	25.0

62 094 Height adjusters

for bench vices No. 62 090... and 62 092..., particularly easy to adjust due to gas spring, **360° rotation**, can be locked in any position

Primat



62 094...

360° rotatable

For jaw width mm	62 094...		Adjustment range mm	Weight kg
100	010		240	8.8
125 - 135	012		240	9.1
150	015		240	9.4

62 095 Swivel base

for bench vices, No. 62 090... and 62 092..., 360° rotation

Primat

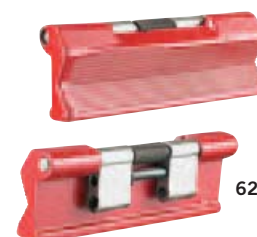


62 095...

62 096 Pipe jaw

for bench vices, No. 62 090... one pipe jaw provides a pipe vice with **three point clamping**

For jaw width mm	62 095... Swivel base		62 096... Pipe jaw	
100	010		-	-
125	012		012	
135	013		013	
150	015		015	
175	017		017	



62 096 015

62 106 “Matador” bench vices

RIDGID Peddinghaus

completely forged from steel, guaranteed unbreakable.

With two mounts for swivelling jaws, hardened anvil, measuring scale for fast pre-adjustment of the clamping capacity. Long, surface hardened guide rail for high precision. Round, forged vice base; therefore easier to attach swivel bases and height adjusters. Patented adjustable linear guideway ensures tight fitting adjustment even after many years' use. Long life due to self-adjustment. Replaceable vice screw nut, ribbed, surface hardened jaws, fast clamping capacity adjustment due to vice screw with rolled trapezoidal thread and large pitch, double pitch thread.



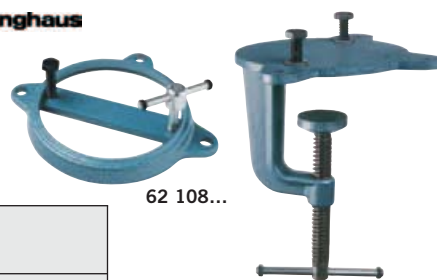
62 106...

Jaw width mm	62 106...		Capacity mm	For pipe inch	Weight kg
100	010		125	-	6
120	012		150	1/8 - 4	10
140	014		200	1/8 - 5	18
160	016		225	1/8 - 6	25
180	018		225	1/8 - 7	26

62 108 Swivel base

RIDGID Peddinghaus

for “Matador” bench vice No. 62 106..., rotatable through 360°, can be locked in any position



62 108...

62 110...

62 110 Clamp

for directly fixing to a workbench the “Matador” vice No. 62 106 ...

For jaw width mm	62 108... Swivel base		62 110... Clamping screw	
100	010		010	
120	012		012	
140 - 160 - 180	014		-	-

62 112 “Elevator” height adjuster for “Matador”

RIDGID Peddinghaus

for ergonomically correct working.

Mechanical type: continuous height adjustment using stable threaded spindle, the vice can also be rotated through 360° and can be safely locked in any position **Automatic type:** particularly easy adjustment through weight balancing (with gas spring), vice can be rotated through 360°, clamping mechanism enables locking in any position **012** and **112** for jaw width 120 mm **014** and **114** for jaw width 140 - 180 mm



62 112...

for Matador jaw width mm	Type	Adjustment range mm	Weight kg	62 112...	
120	mechanical	200	13	012	
140 - 180	mechanical	200	13	014	
120	automatic	200	13	112	
140	automatic	200	13	114	
160 + 180	automatic	200	13	116	

62 120 Pipe jaws

- Suitable for “Matador” bench vice 62 106...
- Swivelling
- ...012 - ...018:
- **Pipe jaws**
- Only one pipe jaw is necessary to obtain a pipe vice with three point clamping
- Supplied: singly
- ...112 - ...118:
- **Plastic jaw**
- Supplied: in pairs
- ...212 - ...216:
- **Steel jaw**
- Supplied: in pairs
- ...312 - ...318:
- **V-jaws**
- Supplied: in pairs

Jaw width mm	62 120... Pipe		62 120... Plastic		62 120... Steel		62 120... V-jaws	
120	012		112		212		312	
140	014		114		214		314	
160	016		116		216		316	
180	018		118		-	-	-	-



62 120 012 - 018



62 120 112 - 118



62 120 212 - 216



62 120 312 - 316

62 132 “Superior” Bench vices

RIDGID Peddinghaus

with fixed pipe jaws, particularly suitable for installation work and for construction side, the front section can be completely removed (theft prevention!), opens at the front, milled, surface hardened jaws, under which permanently welded on pipe jaws, hardened guideway and concealed screw protected against dirt with double pitch, rolled trapezoidal thread, measuring scale for fast pre-setting of the clamping capacity, with large, hardened anvil plate for aligning, upsetting and forging work



62 132...

with fixed pipe jaws

Jaw width	62 132...		Capacity	For pipe Ø	Weight
mm			mm	inch	kg
120	012		150	3/8 - 3	10
140	014		200	1/2 - 3 1/2	18
160	016		225	1/2 - 4	25

62 135 Swivel base

RIDGID Peddinghaus

for “Superior” bench vice No. 62 132..., rotatable through 360°, can be locked in any position



62 135...

For jaw width mm	62 135...	
120	012	
140 - 160	014	

62 160 Bench vice system

- completely forged from steel
- guaranteed unbreakable, powder coated
- with forged on pipe jaws
- large deep throat clamping facility
- protected precision spindle bearing
- easy to adjust central guideway
- large, guide surfaces machined on all sides ensure precision and long life

...112 - ...116:

- supplied with bolted on, interchangeable jaws

HEUER
Der Original



62 160...

Fig. shows vice with swivel base 62 165...

Jaw width	62 160...		Capacity	Pipe external Ø	Weight
approx. mm			approx. mm	approx. mm	kg
100	010		125	16 - 30	4.5
120	012		150	16 - 55	9
140	014		200	27 - 70	16
160	016		225	27 - 100	27
180	018		225	27 - 100	29
62 160 112 to 62 160 116 with bolted on and interchangeable jaws					
120	112		150	16 - 55	9
140	114		200	27 - 70	16
160	116		225	27 - 100	27



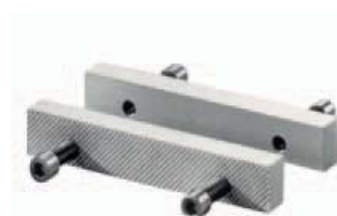
Fig. 62 160 112 - ...116

62 163 Replacement jaws

Suitable for vice system 62 160...

reversible, with ribbed and smooth working surface, /each

HEUER
Der Original



62 163...

For jaw width mm	62 163...	
120	012	
140	014	
160	016	

62 165 Swivel base

for "HEUER" bench vice system, the vice can be rotated through 360° and fixed in any position

**62 167 "HEUER-LIFT" height adjuster**

- improved clamping force thanks to special surface treatment of the vertical tube as well as new type of clamping lug
- particularly important for trainees in schools and training workshops to prevent serious posture damage during their growth phase
- Provides real benefits for easier working
- Effortless and safe height adjustment of vices by 200mm, can be rotated through 360°
- Gas spring matched to the respective vice weight



62 165...



62 167...



62 167...



62 167...

For jaw width mm	62 165... Swivel base		62 167... "Lift"	
100	010		010	
120	011		011	
140	013		013	
160	015		015	
180	017		017	



62 169 "HEUER-KLAPP-LIFT" fold-away height adjuster

Apart from the advantage of being able to **fold the vice under the bench when it is not being used** and therefore making the whole work surface available for other work, the working position of the vice can be adjusted vertically by 180 mm and rotated through 360°, telescopic shock absorbers ensure weight balancing when folding the vice away or up and therefore prevents risk of injuries, powder coated



fold-away



62 169...

For jaw width mm	62 169...	
120	012	
140	013	

62 180 Bench vices

equipped with additional V-jaws, under the normal jaws, robust design, strong type made of cast perlit, precision guiding due to dovetail guideways, large, adequate clamping capacity, hardened, interchangeable and reversible steel jaws, secured by alignment pins and toothed lock washers, reversible rough and smooth side, quill made of steel, break-proof, vice screw with trapezoidal thread

Schlegel



62 180...

Jaw width mm	62 180...		Capacity mm	Weight kg
100	010		130	12
125	012		180	21
150	015		215	42

62 189 "Spannlift" height adjuster

for "Schlegel" vices 62 180..., can be adjusted to any required working height and position, 360° rotation, lift height 200 mm, a gas spring balances the weight of the vice, adjustable using locking lever, fits onto work benches of any height and any work top thickness.

Supplied without vice

Schlegel

360° rotatable



62 189...

For jaw width mm	62 189...	
100	010	
125	012	
150	015	

can also be supplied for other vice makes - please state name and jaw width

62 201 Engineers' vices

UNISPANN

Can be fixed horizontally, vertically, at any angle using the quick action closure if the vice is clamping the workpieces it can be rotated through 360° in the ball joint and simultaneously turned around through 90°



...001



...002



...101



...102

Jaw width mm	Fixed with	62 201...		Fixed with	62 201...		Capacity mm	Reach mm	Jaw type
46	Screws	001		Clamp	101		70	35	Plastic
80	Screws	002		Clamp	102		110	52	Steel

62 205 Pair of jaws

for "UNISPANN" engineers' vices No. 62 201...

Jaw width mm	62 205... Plastic		62 205... Aluminium	
46	001		101	
80	002		102	



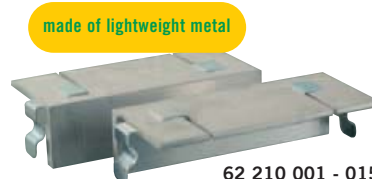
62 205...

62 210 Pair of vice jaws

with retaining spring, does not break off, sit fast on any vice, do not fall off

Type:**001 - 015** pressed from lightweight metal, not cast, therefore with smooth surface and dense, uniform microstructure without voids and shrink holes**101 - 115** made of plastic, a special PE compound tried and tested in numerous workshop trials and which is lighter than lightweight metal

Jaw width mm	Lightweight metal 62 210...		Plastic 62 210...	
100	001		101	
115	003		103	
120	005		105	
125	007		107	
135	009		109	
140	011		111	
150	013		113	
160	015		115	



62 210 001 - 015



62 210 101 - 115

62 215 Pair of magnetic vice jaws

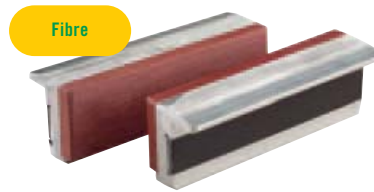
the integrated special magnets ensure the protective jaws are securely fixed to the vice, the magnetism does not penetrate to the outer surfaces, therefore no attraction of chips and swarf and no magnetising of the workpieces

Type:**010 - 015** Special aluminium alloy: Hardness between copper and lead, for clamping coarse to medium-fine machined workpieces**110 - 115** Fibre clamping surface: for clamping workpieces with finely milled or planed and ground or polished surfaces**210 - 215** Clamping surface made of special synthetic rubber: for clamping thin-walled pipes and shaped parts, wooden and plastic parts**310 - 315** with V-surfaces: made of special aluminium alloy, one horizontal vee and three different sized vertical vees for clamping round and oval workpieces, top part of the jaws with 90° routing for clamping flat material

Jaw width mm	Aluminium 62 215...		Fibre 62 215...		Rubber 62 215...		Veas 62 215...	
100	010		110		210		310	
115	011		111		211		311	
125	012		112		212		312	
135	013		113		213		313	
140	014		114		214		314	
150	015		115		215		315	



62 215 010 - ...015



62 215 110 - ...115



62 215 210 - ...215



62 215 310 - ...315

62 222 Fold-away pipe vices**RIDGID Peddinghaus**

- completely made of steel, unbreakable
- **hinged, fold-away type with automatically closing union hook**
- drop forged, movable jaw and support jaw, interchangeable
- Gripping surface milled and hardened
- Powerful screw with movable T handle

Size	62 222...		For pipe Ø	Capacity	Weight
			inch	mm	kg
2	002		2	60	4.3
3	003		3	90	6.5
4	004		4	120	10



62 222...

62 502 Malleable cast iron screw clamps

- with ergonomically designed 2-component triangular handle for maximum force transfer
- Profile rail ribbed on both sides, zinc coated
- Fixed and sliding arms made of high-quality malleable cast iron
- Screw with black finish and movable pressure plate as well as soft plastic caps



Capacity mm	62 502...		Reach mm	Rail mm
100	010		50	15 x 5
120	012		65	22 x 6
160	016		80	22 x 6
200	020		100	30 x 8
250	025		120	30 x 8
300	030		140	35 x 9
400	040		175	35 x 9
400	041		120	35 x 11
500	050		120	35 x 11
600	060		120	35 x 11
800	080		120	35 x 11
1000	100		120	35 x 11
1250	125		120	35 x 11
1500	150		120	35 x 11
2000	200		120	35 x 11
2500	250		120	35 x 11



with 2-component
handle

62 502...

62 503 Malleable cast iron screw clamps

- Clamping arms made of high-quality tempered cast iron
- Structured safety rail ribbed on both sides, zinc-plated
- With power grip
- With non-slip mechanism, with no affect on loading
- Pressure plate with integrated screw lock and soft plastic caps

Capacity mm	62 503...		Reach mm	Rail mm
120	012		65	22 x 6
160	016		80	22 x 6
200	020		100	30 x 8
250	025		120	30 x 8
300	030		140	35 x 9
400	040		175	35 x 9
500	050		120	35 x 11
600	060		120	35 x 11
800	080		120	35 x 11
1000	100		120	35 x 11
1250	125		120	35 x 11
1500	150		120	35 x 11
1800	180		120	35 x 11
2000	200		120	35 x 11
2500	250		120	35 x 11



62 503...

62 506 All-steel screw clamps

- with ergonomically designed 2-component triangular handle for maximum force transfer
- Fixed arm made of cold-drawn structural, sectional steel
- Sliding arm drop forged, tempered and hardened, zinc plated
- Screw with black finish and movable pressure plate



Capacity mm	62 506...		Reach mm	Rail mm
100	010		50	11.5 x 5.7
120	012		60	13.5 x 6.5
160	016		80	16 x 7.5
200	020		100	19.5 x 9.5
250	025		120	22 x 10.5
300	030		140	25 x 12
400	040		120	25 x 12
500	050		120	25 x 12
600	060		120	25 x 12
800	080		120	27 x 13
1000	100		120	27 x 13
1500	150		120	27 x 13



with 2-component
handle

62 506...

62 510 Deep throat screw clamps

with T handle, clamping arms made of high-quality malleable cast iron, both sides of full rail are ribbed, black finish screw, push-through T handle, screw with movable pressure plate



Capacity mm	62 510...		Reach mm	Rail mm
300	030		200	35 x 11
400	040		200	35 x 11
400	140		250	43 x 10
500	150		250	43 x 10
400	240		300	45 x 12
500	250		300	45 x 12
600	260		300	45 x 12
400	340		400	45 x 12
500	350		400	45 x 12
600	360		400	45 x 12
800	380		400	45 x 12
1000	400		400	45 x 12



62 510...

62 516 All-steel screw clamps

with T handle, fixed and sliding arms made of special steel, forged, hardened and tempered and completely zinc plated, strict quality testing of the strength and safety against failure, hardened and bonderised screw, special pressure plate, easy to replace, hexagon at end of screw



Capacity mm	62 516...		Reach mm	Rail mm
250	025		120	30 x 15
300	030		140	30 x 15
500	050		140	30 x 15
800	080		140	30 x 15
1000	100		120	30 x 15
1500	150		120	30 x 15



62 516...

62 520 All-steel screw clamps

with T handle, heavy-duty type, with stronger rail and larger throat, fixed and sliding arms made of special steel, forged, hardened and tempered and completely zinc plated, strict quality testing of the strength and safety against failure, hardened and bonderised screw, special pressure plate, easy to replace, hexagon at end of screw



heavy-duty type with larger throat

Capacity mm	62 520...		Reach mm	Rail mm
300	030		175	40 x 20
400	040		175	40 x 20
500	050		175	40 x 20
600	060		175	40 x 20
800	080		175	40 x 20
1000	100		175	40 x 20



62 520...

62 524 All-steel quick action lever clamps

with swivelling pressure plate made of steel, electroplated with zinc, sliding arm with 7 latching positions, tempered and hardened tapet, plastic coated locking and release pawl, as well as clamping lever; the lever enables clamping effects such as those achieved with screw clamps to be achieved in seconds, and opens again just as fast with the release pawl, the latched position enables repeatable clamping with the same depth

with practical clamping lever for fast release and clamping



Capacity mm	62 524...		Reach mm	Rail mm
160	016		80	16 x 7.5
200	020		100	19.5 x 9.5
250	025		120	22 x 10.5
300	030		140	25 x 12
400	040		120	25 x 12
600	060		120	25 x 12



62 524 016



62 560 Wooden clamps

made of soft beechwood, zinc plated steel rail, with tappet, pressure surfaces with cork facing



Capacity mm	62 560...		Reach
200	020		110
400	040		110
600	060		110
800	080		110



62 560...

62 584 Toolmakers' clamps

made of steel, parallel adjustment using 2 threaded screws

with 2 threaded screws

Capacity mm	62 584...		Jaw length mm
28	028		50
40	040		60
55	055		75
70	070		100
100	100		135



62 584...

62 588 Steel C clamps

drop forged, with T handle, made of SM steel with 50 to 60 kg strength, screw with trapezoidal thread, black finish

Capacity mm	62 588...		Reach mm
60	060		50
90	090		60
125	125		90
160	160		100
200	200		120



62 588 060

96 020 Workpiece clamps

with malleable cast iron arms and T handle, with connecting eyelet for electric welding cable, black finish screw with movable spherical pressure plate



Reach mm	Rail mm	For current intensity A	96 020...	
70	ca. 20 x 5	200	101	
100	ca. 25 x 6	400	103	
80	ca. 28 x 8	600	105	



96 020...

62 604 Mitre and corner clamps

Malleable cast iron body and jaws, electroplated zinc coating, screw with trapezoidal thread, copper plated, for fixing components at right-angles to each other, including components with different thicknesses



62 604...

Through hole max. mm	Max capacity mm	62 604...		Jaw length mm	Jaw height mm
60	90	060		110	35
100	120	100		120	61



62 608 Quick clamps**KANT - TWIST**

Arms made of cold rolled, bright, temperable CK 60 steel with 65 kg strength, screw with V thread, therefore greater retention reliability, this tool weighs only half as much as a normal clamp but has 40% greater capacity, hand-tightening suffices, solid design, no loose parts, closes onto any workpiece thickness within seconds, no over-tightening, no gripping surface slippage

The original!

62 608...

Capacity mm	62 608...		Clamping depth when open mm	Clamping depth when closed mm	Pressure face width mm
25	001		15	17	8
50	002		35	40	12
75	003		35	50	16
110	004		60	75	22
150	006		60	85	22

**62 620 Hand filing vice/pin vice**

made of C 35 steel, drop forged, with wide jaws and wing nuts, movable, easy to replace screw with trapezoidal thread and washer, hinged guideway, captive round steel spreader spring, vee cut in jaw surface for clamping round parts

Overall length mm	Jaw width mm	62 620...		Capacity mm
100	40	010		18
120	45	012		22
130	42	013		25
145	52	014		28
160	58	016		35
180	60	018		40
200	65	020		45



62 620 010

62 622 Machine filing vice/pin vice

with hexagon nut and key, made of C 35 steel, drop forged, for the highest loads, movable, easy to replace screw with trapezoidal thread and washer, hinged guideway, captive round steel spreader spring, vee cut in the surface of the jaws for clamping round parts

Overall length mm	Jaw width mm	62 622...		Capacity mm
160	65	016		40
180	70	018		40
200	80	020		50
250	90	025		60



62 622...

62 626 Tapered filing vice/pin vice

with wing nut, made of C35 steel, drop forged

Overall length mm	Jaw width mm	62 626...		Capacity mm
120	13	012		20



62 626 012

62 628 Vice jaws

drop forged, with 45° slanted jaws

Overall length mm	Jaw width mm	62 628...		Capacity mm
125	30	012		30
150	40	015		35



62 628...

62 636 Tool holder

with 2 interchangeable collet chucks and grooved surface brass handle with square head

Clamping range mm	62 636...		Overall length mm
0 - 2.5	001		90
0 - 4	002		110



62 636...

62 640 Tool holder

completely made of brass, nickel plated and drilled through

Clamping range mm	62 640...		Overall length mm
0 - 1	001		80
1 - 2	002		80



62 640...



**For dial indicators and gauges
see from Page 556**

63 004 Expander set

with expander tongs, expander heads and interior/exterior milling cutter, in portable steel container



63 004 001

Pipe Ø mm	63 004...	
12 - 15 - 18 - 22	001	

63 005 Expander tongs

for copper tube expansion; these tongs combine all sizes in one device - no more lost parts or missing sizes! The individual segments are made of high-alloy hardened steel



63 005 001

For pipe Ø mm	63 005...	
10 - 12 - 15 - 18 - 22 - 28	001	

**63 012 Pipe bender/vice
"Matador Multi Plus"****RIDGID Peddinghaus**

The Matador Multi Plus can be used both as a traditional parallel vice for mounting work pieces and, additionally, as a tool for bending stainless steel, hydraulic and gas pipes without excessive force

- can be used for straightening or bending of construction steel such as flat-rolled steel, U-shaped beams, etc.
- jaw width 160 mm
- opening of jaws 225 mm
- includes steel bending dies 15 mm - 18 mm - 22 mm, straightening tool and two counter-holders with fastening bolts

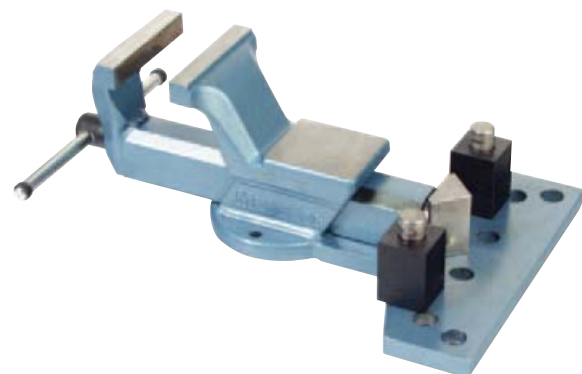
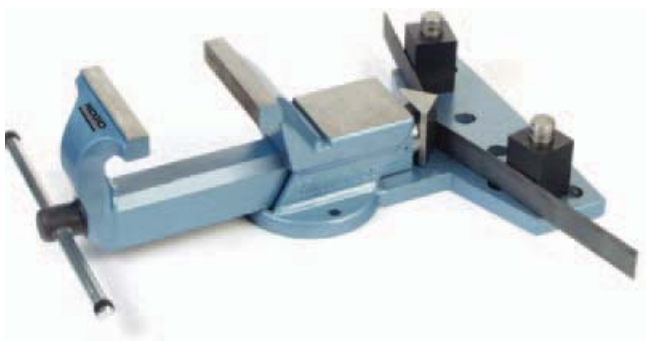
Capacity

- bends up to 28 mm thin wall stainless steel pipe
- straightening and bending with up to 30 kN forming force

Jaw width mm	63 012...	
160	016	



63 012 016



63 020 Bending tongs sets

for bending of nonferrous metals and copper; bending tongs complete with bending sets in portable steel container

Pipe Ø mm	63 020...	
4.75/5 - 6 - 8 - 10	001	
6 - 8 - 10 - 12	002	



63 020...

63 024 Bending tongs

DIN EN 1057, bends **up to 180°**, copper tubes and all other nonferrous metal pipes, also thin wall precision steel pipes and brake pipes, nickel plate



bends up to 180°



63 024 006

Pipe Ø mm	63 024...		Length mm	Radius mm
6	006		275	18
8	008		340	28
10	010		400	28

63 026 Manual bending device

for pipes from 6 - 16 mm, bends up to 180°, bends bare and insulated copper tubes (e.g. WICU® etc.) DIN EN 1057 and other pipes from nonferrous metals as well as thin wall, seamless precision steel pipes, blue stove enamelled



Name	63 026...		Pipe Ø mm	Bending radius mm
Bender lever	001		-	-
manual lever 90°	002		-	-
manual lever 180°	003		-	-
Stationary die holders	004		-	-
Bending die	006		6	28
Bending die	008		8	28
Bending die	010		10	35
Bending die	012		12	35
Bending die	014		14	45
Bending die	015		15	45
Bending die	016		16	45



63 026 001



63 026 002



63 026 004



63 026 006 - ...016

63 028 Manual bending device sets

Design as 63 026..., complete in sheet steel container.

The pipe benders can either be operated hands free with the manual levers 63 026 002 and ...003, or they can be mounted on the vice with die holder 63 026 004.



Set contents	63 028...	
1 bender lever, 1 manual lever 90°, 1 manual lever 180°, 1 stationary die holder, 1 die each for pipe Ø 8 - 10 - 12 - 14 - 15 mm, 1 pipe cutter	001	
1 bender lever, 1 manual lever 90°, 1 die each for pipe Ø 8 - 10 - 12 - 15 mm	002	



63 028 001

63 035 Hydraulic pipe bender

for pipes with 15 - 54 mm diameters, manual hydraulic, consisting of pump, base plate with post, open-ended spanner 17 x 19 mm, **without bending dies**, for copper tubes, steel pipes, precision steel pipes, hydraulic and conduit pipes, bare and encased pipes and others, 90° bends, blue paint, packed in tool box

Compressive force kN	63 035...	
100	001	



63 035 001



63 036 Bending dies

with sliding rail and pipe clamp, for pipe bender 63 035 001

Pipe Ø mm	63 036...		Precision pipe mm	encased mm	Copper pipe mm	WICU® mm	Bending radius mm
18	018		18	14	18	-	85
20	020		20	16	-	-	85
22	022		22	18	-	-	85
22	023		-	-	22	18	85
24	024		-	-	-	-	85
25	025		25	-	-	-	85
28	028		28	-	-	-	85
28	029		-	-	28	-	100
30	030		30	-	-	-	85
32	032		32	-	-	-	100
34	034		-	28	-	-	100
35	035		35	-	-	-	100
35	036		-	-	35	-	150
38	038		38	-	-	-	150
42	042		42	-	-	-	150

*conversion kit required for bending radius 65 mm



63 036...

Hydraulic pipe bending machines

1 manual hydraulic, for gas and water pipes according to DIN 2440/2441, seamless steel pipes according to DIN 2448 and railing pipes blue paint, packed in tool box
corresponding work stand 63 045 001

foldable

open

63 041 Hydraulic pipe bender

with foldable bending frame, without bending dies



63 041 002



63 042 002

63 042 Hydraulic pipe bender

with open bending frame, without bending dies

Bending range inch	63 041...		63 042...		Compressive force up to kN	tool box mm
3/8 - 2	002		002		100	810 x 370 x 370

63 043 Bending dies

made of grey cast iron, for hydraulic pipe benders 63 041... and 63 042...

Pipe Ø inch	63 043...		Bending radius mm
3/8	001		45
1/2	002		50
3/4	003		75
1	004		100
1 1/4	005		115
1 1/2	006		150
2	007		200



63 043...

63 045 work and mounting stand

For pipe bending machines No. 63 041... - 63 042...

Type	63 045...	
rotating	001	



63 045 001

63 051 Flaring tool

for flaring of pipes made of copper and lightweight metal with various material hardness; clamping jaws with smooth inner surface; cast zinc body, silver stove enamelled; steel clamping jaws, phosphatised; opening angle 90° = 45° bending angle



63 053 001

63 053 Flaring tool set

complete with basic body, clamping jaws, flare cone 180° and pipe cutter, in sheet steel case



63 051 001

Pipe Ø mm	63 051...		63 053...	
4 - 4.75 - 6 - 8 - 10 - 12 - 15	001		001	

63 057 Double flaring tool set



complete for brake lines, coolant pipes, hydraulics and pneumatics;
body made of malleable cast iron GTW 40, blue oven-enamelled;
steel clamping jaws, phosphatised, in metal sheet case

Scope of supply Qty	Contents	Pipe Ø mm	Wall thickness mm	63 057...	
1	Body	4.75 - 5 - 6 - 8 - 9 - 10	0.7 / 1	001	
1	Clamping jaw, metric				
6	Flare cones for E (open) and F (double) flares DIN 74234				
1	Flare cones for D and E flares and adapter for 90°				
1	Setting gauge for E and F flares and flare cone 180°				
1	Mini pipe cutter				
1	Deburrer				



63 057 001

63 085 Internal and external deburrer

for quick and easy deburring of copper, aluminium and soft steel pipes

Pipe Ø mm	Pipe Ø inch	63 085...	
4 - 42	1/8 - 1 3/8	001	



63 085 001

63 096 Plastic cutting tool

made from cast aluminium, with ground knife blade for PVC pipes, hoses, and textile reinforced hoses

Pipe Ø	63 096...	
6 - 35	001	



with ground knife blade

63 096 001

63 098 Universal plastic pipe shears

- for exact right-angled cutting of composite and plastic pipes with diameters from 12 to 25 mm
- clean, smooth and burr-free cut surfaces
- safe cutting of fluted protection pipes on the outside diameter, without damage to the interior conduit pipe
- small cutting angles (90°) provide effortless cutting of the protection pipe even during installation
- option to attach a sizing mandril, e.g. for Geberit pipes Ø 11.5 and 15 mm
- calibrating and chamfering of composite pipe end for trouble-free installation
- replaceable knife blades
- ergonomically formed two-component-handles



63 098 021

Length mm	63 098...		Cutting performance for composite pipes mm	Cutting performance for protection pipes mm	Weight g
210	021		12 - 25	18 - 35	320
	101		Replacement knife blades		

63 100 Ratchet plastic pipe shears

- for composite and plastic pipes Ø 26 - 40 mm
- automatic pipe support adjustment for exact burr-free cutting
- operates using the ratchet principle
- high safety standard
- automatic blade adjustment for the respective pipe diameter avoids "empty" return strokes
- compact design
- easy handling



63 100 021

Length mm	63 100...		Cutting capacity mm	Weight g
210	021		26 - 40	465
	101		Replacement knife blades	



63 060 Pipe cutter

Robust metal body with guide rollers, universal use for pipes made of copper, brass, lightweight metal, PVC hard plastic, replacement rollers in handle

...067: especially for thin-walled metal pipes

...046 and ...068: especially for steel pipes

...035, ...045 and ...046: with retractable manual deburrer

...067 and ...068: with quick adjustment

Primat



63 060 030



63 060 035



63 060 045



63 060 067



63 060 046



63 060 068

especially for INOX

especially for INOX

For pipe Ø mm	63 060...		For pipe Ø inch	Quantity of guide rollers
3 - 30	030		1/8 - 1 1/8	2
3 - 35	035		1/8 - 1 3/8	4
3 - 45	045		1/8 - 1 3/4	4
3 - 45	046		1/8 - 1 3/4	4
6 - 67	067		1/8 - 2 5/8	4
6 - 67	068		1/8 - 2 5/8	4

63 062 Replacement cutting wheels

suitable for pipe cutter 63 060...

suitable for cutting the following materials: aluminium, copper, VA, plastic, steel

Primat



...001



...003



...005



...007



...013



...015



...017

Ø mm	63 062...		Suitable for 63 060...	Purpose	Bore mm
19 x 5	001		...030...035...045	Universal	5.00
19 x 6.2	003		...067	Universal	4.85
26 x 6.2	005		...067	Plastic / Composites	4.85
22 x 5	007		...035...045	Plastic	5.00
19 x 6.2	013		...067	ALU, CU	4.85
19 x 5	015		...046	INOX	5.00
19 x 6.2	017		...068	INOX	4.85

63 069 Steel pipe cutter

for steel pipes made of high-alloy malleable cast iron, with one cutting wheel and two guide rollers, chrome plated spindle. The cutting wheels' special cutting geometry ensures fast piping work without external or internal burrs.

63 071 Replacement cutting wheels

for pipe cutter No. 63 069...

For pipe Ø inch	63 069...		63 071...		Cutting wheel Ø mm
1/8 - 2	002		002		32
1 1/4 - 4	004		004		40



63 071...

63 069...

Ratchet - Filling blocks for tapping

for pipe thread according to DIN 2999 tapered 1:16 right, with quick change cutting heads and ratchet lever, reversible with right and left-hand motion, with two-piece tubular arm, secure locking of the cutting head in the ratchet lever, no sudden slipping of ratchet off the cutting head, and therefore no danger of injuries, compliance with "GS" standard (geprüfte Sicherheit = tested safety)

ROLLER

63 101...

63 101 Filling blocks for tapping

complete with sheet steel portable case, including cutting heads and ratchet lever, **No. 009 with two ratchet levers**

ROLLER

Size	63 101...		for pipe threads inch
C 1 1/4	005		R 3/8 - 1/2 - 3/4 1 - 1 1/4
C 1 1/4	007		R 1/2 - 3/4 - 1 - 1 1/4
C 1 1/4 + C 2	009		R 1/2 - 3/4 - 1 1 1/4 - 1 1/2 - 2

63 103 Ratchet lever

with arm

ROLLER

63 103...

63 105 Portable cases, empty

Size	63 103...		63 105...		for cutting heads inch	Number of cutting heads
C 1 1/4	001		001		R 1/8 - 1 1/4	7
C 2	002		002		R 1/8 - 2	9



63 105...

63 107 Cutting heads

with jaws

ROLLER

63 107...

63 109 Replacement jaws

Set = 4 pieces, for cutting heads **No. 63 107...**

Size	63 107... Cutting heads		63 109... Replacement jaws		for pipe threads inch
C 1 1/4	001		001		R 1/8
C 1 1/4	002		002		R 1/4
C 1 1/4	003		003		R 3/8
C 1 1/4	004		004		R 1/2
C 1 1/4	005		005		R 3/4
C 1 1/4	006		006		R 1
C 1 1/4	007		007		R 1 1/4
C 2	008		008		R 1 1/2
C 2	009		009		R 2



63 109...

63 118 Pressing tongs

Attachments for ROLLER'S pressing tongs with precisely incorporated and exactly rounded, system-specific pressing contour corresponding to the respective pressfitting system. For perfect secure pressing with confirmed system conformity. The pressing tongs are drop forged and specially hardened to meet the highest quality standards and ensure long life. ROLLER'S pressing tongs can be used with all ROLLER'S radial presses and any other suitable drive units of other makes. "GS" mark (geprüfte Sicherheit = tested safety) - certified by an independent certification body.

Type ...010:

- **Uni-Press E Basic-Pack:** Drive unit, in sheet steel case
- Only one universal drive unit for:
- ROLLER's pressing tong attachments with system-specific pressing contour corresponding to the respective pressfitting system, for perfect secure compression with confirmed system-conformity.
- Pressing tongs of various other manufacturers/makes
- Pressing rings of various other manufacturers/makes
- Compact, slim design, favourable weight, drive unit only 4.4 kg
- Perfect compression is ensured after complete closing of pressing tongs. The pressing tongs remain closed until reversed to return. This feature ensures perfect visual control of the correct pressing process.



63 118 010

Type	63 118...	Type
230 V / 450 W	010	Uni-Press E Basic-Pack
12 V / 250 W	050	Multi-Press Basic-Pack

ROLLER

- Robust, powerful, electromechanical drive with maintenance-free reducing gear and safety slip clutch
- Tried and tested, high performance 1~ universal motor 230 V, 50 - 60 Hz, 450 W. Right and left-hand rotation, safety hold-to-run control device
- Constant thrust for continuous secure pressing
- Automatic locking ensures secure fit of pressing tongs
- Complete range of ROLLER'S pressing tong attachments for all common pressfitting systems, on request

Type ...050:

- **Multi-Press Basic-Pack:** Drive unit with disabling signal, rechargeable battery 12 V, quick charger, in sheet steel case
- Compact design, perfect weight distribution for real one-hand operation, favourable weight, drive unit with rechargeable battery only 4.5 kg
- Tried and tested, high performance 12 V motor with rechargeable battery, 250 W, safety hold-to-run control device
- Rechargeable battery 12 V, 2.0 Ah performance, for many pressing applications, even with large pipe dimensions. Power supply 230 V (accessory) instead of rechargeable battery 12 V
- Quick charger for short charging time (1 h), pulse charging technology for reduced memory effect and maximum battery performance



63 118 050

63 119 Pressing tong attachments

for pressing tongs 63 118...

For system: Viega- "profipress", "profipress G", "profipress THERM", "sanpress", "sanpress INOX"

Pressing tongs	For pipe Ø mm	63 119...
V12	12	012
V15	15	015
V18	18	018
V22	22	022
V28	28	028
V35	35	035
V42	42	042
V54	54	054

Further sizes available on request



63 119...

63 123 Electric pipe benders

- Model **Arco**
- for hard, semi-hard and soft copper tubes from 10 - 35 mm Ø
- stainless steel pipes from 12 - 28 mm Ø
- electrical installation conduit to DIN EN 50086 from 16 - 32 mm Ø
- composite pipes from 14 - 40 mm Ø
- for cool bending of hard and soft pipes 180°
- compact, easy to transport
- continuously adjustable speed control
- maintenance free, robust gearbox
- high performance universal motor with 1000 Watts
- Right and left-hand operation
- safety hold-to-run control device

...003:

- machine holder, height-adjustable

Arco set consisting of	63 123...	
drive unit lock pins bending dies sliders in sheet steel case	001	
machine holder, height-adjustable	003	



63 123 003

Fig. shows pipe bender
with machine holder

63 133 Thread roughing tool

for efficient roughing of threads for hemp or Teflon sealing, time-saving, after manual or machine tapping, even, gentle toughing over the full radius of the thread, with hardened rollers

Pipe Ø inch	63 133...	
3/8 - 2	001	



63 133 001

63 140 Hemp seal

High quality, easy to measure and work up to the last fibre. Can be used to seal metal threaded connections used in domestic installation such as cold and hot water systems, heat and natural gas systems

Weight g	63 140...	
approx. 200	002	



63 140 002

63 201 Pipe wrench 90°

Swedish model, made of special hardened steel, drop forged, with wide, 90° angled jaws, fluted handle, captive nut with pinch-protection

VBW



63 201...

For pipes inch	63 201...		Capacity mm	Overall length mm
1	001		42	300
1 1/2	002		59	410
2	003		76	560
3	004		106	685
4	005		129	815

63 204 Pipe wrench 90°

Swedish design, painted, with wide, 90° angled jaw, handy handle and captive nut, made of chrome vanadium steel, drop forged

Primat



63 204...

For pipes inch	63 204...		Capacity mm	Overall length mm
1	001		45	310
1 1/2	002		64	410
2	003		80	560



63 206 Corner pipe wrenches 45°

Swedish design, made of chrome vanadium steel, with narrow, 45° angled jaw, curved handle, captive nut **with pinch-protection**

VBW



63 206...

For pipes inch	63 206...		Capacity mm	Overall length mm
1/2	001		29	240
1	002		45	320
1 1/2	003		59	445
2	004		76	565
3	005		102	705

63 208 Corner pipe wrenches 45°

Swedish design, made of chrome vanadium steel, drop forged, painted, with narrow, 45° angled jaw, handy handle and captive nut

Primat



63 208...

For pipes inch	63 208...		Capacity mm	Overall length mm
1	001		45	310
1 1/2	002		64	410
2	003		80	560

63 210 Corner pipe wrenches S-type

Swedish design, with three-point support, made of chrome vanadium steel, drop forged, completely tempered, teeth additionally flame-hardened, with narrow 45° angled jaw and captive nut

Dako



63 210 011

For pipes inch	63 210...		Capacity mm	Overall length mm
1/2	011		35	245
1	012		48	320
1 1/2	013		60	420
2	014		80	550
3	015		110	630

63 217 Corner pipe wrenches S-type

Swedish design, made of chrome vanadium steel, drop forged, hardened and tempered, painted, with narrow, 45° angled jaw, handy handle and captive nut, the S-type jaw ensures safe grip at each angle, even for angular or edged material

Primat



63 217...

For pipes inch	63 217...		Capacity mm	Overall length mm
1	001		45	320
1 1/2	002		60	420
2	003		80	540

63 219 One-hand pipe wrenches

High strength Monoblock cast iron body, with double T-profile, forged jaws and hooks, finely ground, teeth cut against direction of rotation, induction-hardened, hardened and tempered, handy adjustment screw, replaceable jaws and hooks



63 219...

63 220 One-hand aluminium pipe wrenches

Weight savings of approx. 40 %, Monoblock cast body made of extremely lightweight, high strength aluminium alloy, otherwise same design as No. 63 219...



made of aluminium
approx. 40 % less weight

63 220...

For pipes inch	63 219...	Weight kg	63 220...	Weight kg	Jaw opening mm	Overall length mm
2	002	1.6	002	1.1	60	350
3	003	6.4	003	2.7	90	600
5	005	8.7	005	5.0	140	900
6	006	15.6	006	8.4	168	1200



63 226 Chain pipe wrench - Mini

with double teeth cut, ratchet-style handling in every direction, the flexible chain adjusts to round, rectangular or uneven cross-sections. Drop forged handle made of hardened and tempered chrome vanadium steel, hardened chain



for pipes inch	63 226...		Overall length mm	Chain length mm
1 to 4	001		340	490



63 226 001

63 231 Chain pipe wrenches

heavy-duty type double-sided toothed, hardened, drop forged jaws, with solid lever handle and special pipe wrench chain. Painted lever handle and jaws.



63 231...

for pipes inch	63 231...		Overall length mm	Chain length mm
up to 2	001		510	370
up to 3	002		700	470
up to 4	003		920	590
1 - 6	004		1080	830
1 - 8	005		1280	1090
2 - 12	006		1610	1420

63 242 Strap wrench

with drawn profiled shank and non-slip rubber-fabric strap, handle bright nickel plated and plastic dip insulated



63 242...

63 243 Replacement straps

for strap wrench 63 242... complete with rivets

For Ø up to mm	63 242... Strap wrenches		63 243... Replacement straps		Strap width mm
140	001		001		22
240	002		002		25



63 243...

63 246 Safety wrench

Releases stubborn fittings in no time, slip-proof to use, work optimising and time saving, with rubber handle and extension protection.

Also available in **non-sparking design**: see product No. 59 860...



63 246...



DN mm	63 246...		Length mm
25 - 80	001		280
50 - 100	002		340
125 - 250	003		450

63 304 Pliers

with replaceable special plastic jaws, oven-enamelled, made of high-alloy malleable cast iron, for safe, damage-free gripping and holding of pipes



63 304 001

Capacity mm	63 304...		Overall length mm
16 - 50	001		300

Replaceable plastic jaws



63 306 Pipe pliers with protective jaws (pipe gripping pliers, connector pliers)

- ideal for tightening and loosening of plastic pipe connections, round union nut etc. up to Ø 60 mm
- with toothed jaws
- 4-way adjustable box slip joint
- chrome Vanadin electric steel, hardened in oil and tempered
- pliers chrome plated, plastic coated handles
- ...101 plastic jaws, supplied in pairs



63 306 003

Ø mm	63 306...		Overall length mm
25 - 60	003		230
Plastic jaw	101		/pair

63 308 Water cock nut pliers

made of quality steel, forge dropped and painted, head with internal square, arms with adjusting screw, can be used for spanner sizes (AF) 13-36



63 308 001

Overall length mm	63 308...	
270	001	

63 310 Water cock nut pliers

made of chrome vanadium steel, with swivelling claw for right and left-hand rotation, painted



63 310 001

Overall length mm	63 310...	
235	001	

63 311 Plier wrench

Pliers and spanner in one tool, continuously quickly adjustable directly on the workpiece, for gentle installation of workpieces with sensitive surfaces, also ideally suited for gripping, holding and bending of workpieces,

018 - 030 nickel plated surface, plastic coated handles,
118 - 125 nickel plated, handles with two-coloured multi-component sheathing



63 311 018 - ...030



63 311 118 - ...125

Max capacity mm	63 311...		63 311...		Overall length mm
35	018		118		180
46	025		125		250
60	030		-	-	300

63 312 Fitting spanner

with lever suspension, made of chrome vanadium steel, hardened, with replaceable plastic jaws to protect chrome plated workpieces



63 312 001

Capacity mm	63 312...		Overall length mm	Jaw length mm
65	001		275	45



63 314 Quick-action fitting spanners, Fixo-Spann®



63 314 001

with lever suspension and **replaceable brass protective jaws**, made of chrome manganese steel, for nickel plated and chrome plated fittings

Capacity mm	63 314...		Overall length mm	Jaw length mm
65	001		290	45

63 320 Fitting pliers



with **straight, smooth jaws** and **replaceable plastic inserts** made of **polyamide**, pin lock, made of chrome vanadium steel, forged, painted, especially for damage-free installation of chrome plated fittings

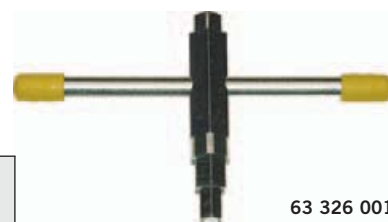


63 320 001

Capacity mm	63 320...		Overall length mm
50	001		315

63 326 Combination radiator spud wrench

made of special steel, forged, with T-handle for nipple, for cam, hexagon, bi-hexagon catching for installation and deinstallation of radiator valves, reverse thread joints and tap extensions



63 326 001

Dimensions inch	63 326...	
3/8 - 1/2 - 3/4	001	

63 328 Combination radiator spud wrench

made of special steel, forged, for cam, hexagon, bi-hexagon catching, for installation and deinstallation of radiator valves, reverse thread joints and short tap extensions



63 328 001

Dimensions inch	63 328...		Square drive Zoll
3/8 - 1	001		1/2

Ratchet with 1/2" square drive for radiator spud wrench see No. 53 780 020

63 330 Radiator spud wrench

for installation and deinstallation of valve nipples, steel forged, with 18 mm square drive for tap wrench 63 332 001



63 330 001

For nipple inch	63 330...	
3/8 - 1/2 - 3/4 - 1 - 1 1/4	001	

63 332 Tap wrench

with 18 mm square drive, for radiator spud wrench and radiator nipple wrench



63 332 001

Overall length mm	63 332...	
240	001	

63 334 Four-way spanner

Size 220 x 220 mm for tap extension, with sizes 10 mm / 12 mm / 17 mm / 22 mm hexagon catching and 3/8" - 1 cam catching, for screwing in and out of radiator and reverse thread joints, for hanger bolts interior thread M 10 and M 12 with hardened impact socket, for pipe end caps 3/8" and square drive in hexagon AF 17 and AF 22.



63 334 001

Dimensions inch	Dimensions M	Dimensions AF mm	63 334...	
3/8" - 1"	M 10 - M 12	10 - 12 - 17 - 22	001	



63 338 Tap extension Allen wrench

made of chrome vanadium steel, bright nickel plated

Leg length mm	63 338...		For extensions inch	Socket size mm
130 x 95	001		1/2 and 3/4	12 and 17



63 338 001

63 348 Water tap reseating tool

with stepped, cylindrical receiver tap for various tap sizes and replaceable flat milling cutters, in sheet metal case

For valve inlet nozzles inch	63 348...	
3/8 - 1/2 - 3/4 - 1	001	



63 348 001

63 350 Replacement milling cutters

for water tap reseating tool No. 63 348...

For tap size inch	63 350...		Milling cutter Ø mm
3/8	002		14
1/2	003		17



63 350...

63 358 Plumber's hand seamers

with lap-joint, drop forged, burnished, jaw width 60 mm



63 358 001



63 358 002



63 358 003

Type	63 358...		Overall length mm
straight	001		280
45° bent	002		280
90° bent	003		280

63 362 Gutter bending pliers

with iron tube arms and solid joint head



63 362 001

Wall thickness mm	63 362...		Overall length mm
40 x 6	001		500

91 540 Welding and control mirror

nickel plated steel wire with holding bracket and ball joint, mirror made of iron, nickel plated



91 540 101

Mirror size mm	91 540...	
80 x 72 x 1	101	

91 540 Magnetic welding and control mirror

with rectangular metal mirror and high-performance magnets for secure adhesion, pole shoes on one side with prism soles for pipes and rounded ends, and on the other side with planar sole for flat surfaces. Flexible spiral holder and self-locking, full rotation ball joint allows one-hand adjustment and free movement around any obstacles. Mirror made of iron, nickel plated



91 540 101



91 540 121

Mirror size mm	91 540...		Clamping force kp	91 540... Replacement mirror	
80 x 72 x 1	111		40	121	

63 502 Drain and pipe snake

hot-dip galvanised, with strong ball, two-pronged head and adjustable wooden handle with locking screw, for cleaning of toilet drains

For pipes up to Ø mm	63 502...		Wire cable Ø mm	Wire cable length m
40	001		7	5



63 502 001

63 504 Drain and pipe snakes

hot-dip galvanised, with exchangeable turning handle and worm screw, connection thread 1/2"

63 505 Extension snakes

for connecting to drain and pipe snakes Length: 5 m

For pipe Ø mm	63 504...		63 505...		Wire cable Ø mm	Wire cable length m
40 - 70	001		001		10	5
40 - 70	002		-	-	10	10
60 - 100	003		003		12	5
60 - 100	004		-	-	12	10



63 504...

63 506 Spare parts

for drain and pipe snakes



63 506 001



63 506 002



63 506 004

Name	63 506...		Ø mm	Wire cable Ø mm
Three-pronged head	001		30	10
Boring head	002		40	12
Worm screw	004		55	10 - 12

63 508 Drain and pipe cleaning tool

the snake is positioned in a protective, breakproof and impact resistant casing made of strong plastic material, supplied complete with standard head

For drains and pipes inch	63 508...		Wire cable Ø mm	Wire cable length m
3/4 - 2	001		8	7.5
Replacement snake with standard head	002		-	-



63 508 001

63 512 Sink plungers

Cup made of especially strong solid rubber, with wood handle
Best Quality.

Cup Ø mm	63 512...	
135	013	



63 512 013

64 002 Blacksmith's pliers

Flat jaws, forged, with laid-on joint, painted



64 002...

Overall length mm	64 002...		For material
300	030		1 - 4
400	040		8 - 10
500	050		13 - 14
600	060		17 - 18

64 018 Cold chisel

with ash shaft, DIN 5107, forged, ground on all sides, painted black, head and cutting edges bright, made of special chisel steel



with ash shaft

64 018 001

Weight g	64 018...		Shaft length mm
1860	001		380

64 022 Hardie

forged, ground on all sides, painted black, bright cutting edges, made of special steel



64 022 001

Weight g	64 022...		Top pin thickness mm	Striking face width mm
1150	001		25 x 25	50

64 046 Hardie hole punch

with ash shaft, DIN 5253, round, forged from special steel, black



with ash shaft

64 046...

Ø mm	64 046...		Weight g	Shaft length mm
10	010		1200	380
15	015		1365	380
20	020		1835	380

64 053 Standard anvildrop forged, with 2 beaks and hardened striking face, bright work surface, the rest is painted black, **size 12 supplied with heel as a standard**, all dimensions and weights quoted subject to differences of $\pm 10\%$ 

64 053...

Size	64 053...		Weight approx. kg	Striking face width approx. mm	Striking face length approx. mm	Beak length approx. mm	Overall length mm
5	005		35	95	205	135	475
9	009		75	125	265	185	635
12	012		125	130	300	210	720

64 058 Anvil base

portable, suitable for anvils **No. 64 053...**, stable welded construction, laminated wood insert, handles for easy transport, the base is filled with sand for maximum stability and to reduce noise, anvil can be chocked with wedges from the side



64 058 001

Height mm	64 058...		Base area mm	Weight kg
550	001		380 x 460	46

64 080 Angle bender

Karnasch

Body made of nodular cast iron, no grey cast iron, for this reason maximum bending capacity is achieved despite the machine's low self-weight. Built on angle stop. By using high quality CO steel for the bending jaws, it is possible to keep them small in size and therefore enables very tight Z and U bends to be achieved. Cold bending and hot bending can be carried out with the normal accessories.

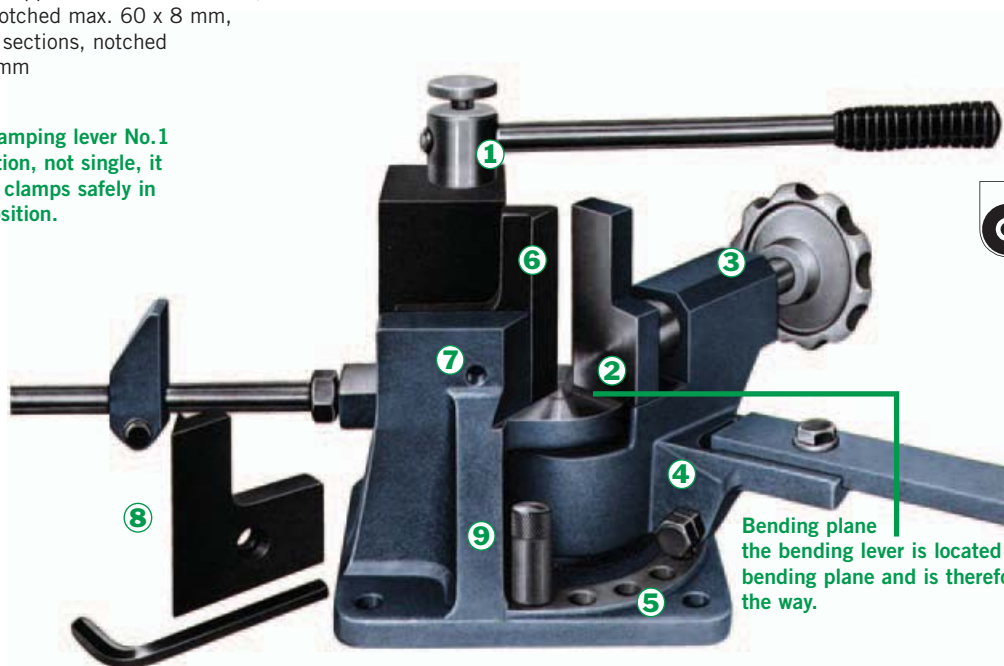
Bending capacities:

Bends cold, flat copper max. 100 x 12 mm,
angle sections notched max. 60 x 8 mm,
bends hot angle sections, notched
max. 100 x 12 mm

THE DECISIVE ADVANTAGE

Spindle head No.3 is located above the bending plane, therefore free bending to Z. This is only possible with a Karnasch bender

The eccentric clamping lever No.1 has a double action, not single, it therefore always clamps safely in any clamping position.



- 1 Self-locking eccentric clamping
- 2 Particularly narrow pressure plate
- 3 Powerful spindle head
- 4 Bending lever
- 5 Angle stop infinitely adjustable from 0-120°, pinning holes instead of grooves into which the stop slips
- 6 Recessed bending jaws made of CO steel
- 7 By using break-proof nodular cast iron with small dimensions, tight bends can be achieved
- 8 Lengthwise stop, sharp-edged jaw for sheet metal, Allen keys are standard accessories
- 9 The basic body is also made from high quality nodular cast iron

Bending plane
the bending lever is located under the bending plane and is therefore not in the way.

Base area mm	64 080...		Total width approx. mm	Overall length approx. mm	Operating lever approx. mm	Allen key	Lengthwise stop mm	Weight approx. kg
205 x 175	002		290	260	710x40x12	SW 8	440	24

64 104 Test hand pump

a complete, ready to use unit with drain valve, suction hose and 2 m pressure hose, mounted on a hot-dip galvanized VA tank 500 x 180 x 160 mm, all parts in contact with liquid are made from cast aluminium, intended use: for testing pipes, boilers or cylinders, as backup unit in case of hydraulics failure or as a travel test pump

Motor driven test pumps available on request

Piston Ø mm	64 104...		Piston stroke mm	Operating pressure bar
20	001		30	60



64 104 001

64 108 Pipe and boiler test pumps

the pumps are mounted on a hot-dip galvanized, oval container 430 x 310 x 330 mm, with drain valve, Bourdon tube and pressure hose, 1/2", 100 bar, 3 m long,

001 with single piston, for testing moulded parts with small volume, **002** with double-piston system concentric arrangement, for pressure testing containers and pipes as well as accessories

Motor driven test pumps available on request

Piston Ø mm	Weight kg	64 108...		Piston stroke mm	Operating pressure bar
30	15	001		40	60
50 + 16	20	002		40	200



64 108 001



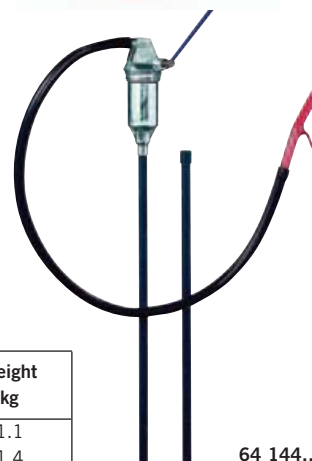
64 108 002

64 144 Lever cylinder barrel pumps

- Pumped media: Heating oil, diesel, petroleum
- Seal materials: NBR
- Use in: Container, for 60 l / 200 l / 220 l
- Use: for filling measuring buckets, measuring beakers, storage cans, canisters and for refuelling
- Long suction tube: 1200 mm
- Barrel coupling: G 2" a and M 64 x 4a
- Pump body: impact-resistant zinc die casting
- Paint colour: silver
- Dimensions LBH (mm): 590 x 100 x 90



Output l/min	64 144...		Hose length cm	Immersion depth cm	Weight kg
12	001		100	120	1.1
18	002		100	120	1.4



64 144...

64 148 Vane-type barrel pump

Pumped media: Heating oil, diesel, petroleum

Seal material: NBR

Delivery rate (l/min): 15

Use in: Container, for 200 / 220 l

Use: for filling measuring buckets, measuring beakers, storage cans, canisters and for refuelling

Long suction tube: 920 mm

Suction tube Ø: 3/4"

Discharge: Steel outlet elbow or via delivery hose, with steel outlet

Barrel coupling: G 2"

Pump body: Cast steel

Paint colour: Pantone 294c, blue satin matt

Dimensions LBH (mm): 1600 x 150 x 170

- Handle, made of wood
- Suction tube, steel outlet, barrel coupling, delivery hose, NBR, Ø 32.5 mm, length = 2000 mm



Output with 1 m suction height l/min	64 148...		Weight kg	Pipe connection intake and discharge side
15	001		8	G 1/2"



64 148 001

64 201 Standard oiler

the stable, resilient Container can be supplied in aluminium or polyethylene, the true to gauge workmanship ensures first-class function and high pressure effect of the metal pump mechanism, a brass guide actuates the seal and guides the pull rod, the intake piston is located in a favourable oblique positioned, all valve springs are made of phosphorous bronze or stainless steel, slight lifting of the lever results in drip-wise oiling



64 201 001 - ...004

64 201 005 - ...008

Volume ccm	64 201...		Tube length mm	Pump mechanism	Container
500	001		130	single	Aluminium
300	002		130	single	Aluminium
200	003		130	single	Aluminium
100	004		130	single	Aluminium
500	005		130	single	Polyethylene
300	006		130	single	Polyethylene
200	007		130	single	Polyethylene
100	008		130	single	Polyethylene
500	105		130	double	Polyethylene
300	106		130	double	Polyethylene
200	107		130	double	Polyethylene



64 201 105- ...107

64 203 Professional oiler

for professional use. The exemplary technology enables you to oil in any position without the pump mechanism drawing in air. Including upside down. Spray tube length 130 mm

Volume ccm	64 203...		Empty weight g	Pump mechanism	Container
500	001		525	double	Lightweight metal
300	002		444	double	Lightweight metal
200	003		372	double	Lightweight metal



64 203...

64 204 Spray/Atomiser

made of plastic, for finely spraying all kinds of different aqueous liquids.

64 204 020 Pump spray/atomiser, an air cushion conveniently presses the liquid through the atomiser nozzle.

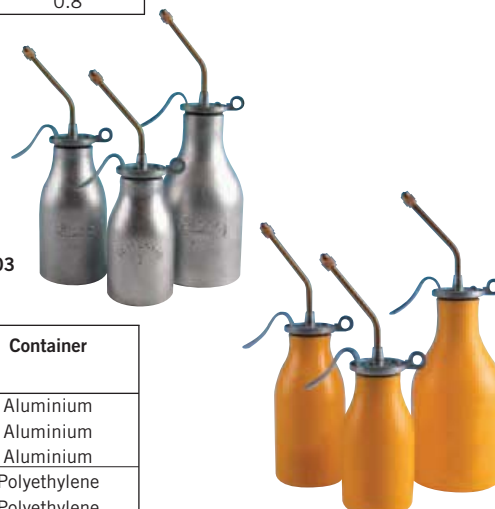


Volume l	64 204...		Empty weight g	Height mm	Nozzles Ø
0.5	005		73	230	0.8
1.0	010		97	300	0.8
2.0	020		470	310	0.8

64 206 Micro-atomiser

does not need any propellant or electrical power supply. Spray angle can be adjusted to a point jet by turning. Can be refilled as often as necessary. The pump mechanisms are nickel-plated to protect them against aggressive media and the valve spheres are made of stainless steel. Nozzle tube length 80 mm

64 206 001 - ...003



64 206 101 - ...103

Volume ccm	64 206...		Empty weight g	Container
500	001		340	Aluminium
300	002		258	Aluminium
200	003		198	Aluminium
500	101		264	Polyethylene
300	102		210	Polyethylene
200	103		202	Polyethylene

64 208 Plastic oilers

without pump, made of polyethylene, elastic, oil, petrol and acid-resistant, with adjustable brass spray tube, tight due to twist lock on the tip of the tube



64 208 001

64 208 002

64 208 003

Volume ccm	64 208...	
125	001	
250	002	
500	003	

64 210 Toolbag oiler

Container made of PE-HD, unbreakable, transparent, screw coupling and spray tube made of brass, spray nozzle with captive nozzle fastener

Volume ccm	64 210...		Tube length mm
75	001		50



64 210 001

64 212 Bellows oiler

made of polyethylene, elastic, unbreakable, oil, petrol and acid resistant



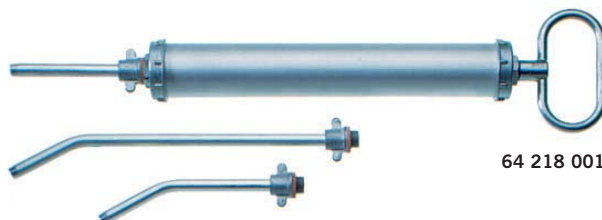
Volume ccm	64 212...	
60	001	



64 212 001

64 218 Universal hand pump

Precision pump, aluminium, single action. The respective medium is drawn in and pressed out through the same opening. For occasional use for extracting anti-freeze, coolant, cleaner's solvent or for oiling. This device is also indispensable for metering fluids and for extracting dust from freshly drilled wall plug holes. Including nozzle tubes in tube Ø 10 mm, tube shape straight and curved, tube length 90 mm, 140 mm, 250 mm.



64 218 001

Stroke volume ccm	64 218...		Ø mm	Empty weight g
250	001		40	412

64 220 Hand pumps

double action. They do work with every stroke: intake, fill. Can be used in all branches of industry, small trade firms and for hobbies, for heating oils, mineral, synthetic and biological oils, cleaner's solvent, coolant, anti-freeze, methylated spirits, petroleum, braking fluid and much more



64 220...

Sleeve tube Ø	64 220...		Stroke volume	Stroke length	Hose length	Empty weight
mm			ml	mm	mm	g
40	001		260	208	600	645
60	002		720	255	600	882

64 222 Measuring beaker

made of polyethylene, break-proof, oil and acid-resistant, with funnel-like pouring spout and measuring scale



64 222...

Capacity litre	64 222...	
0.5	001	
1	002	
2	003	

64 223 Measuring beaker

made of polypropylene, with measuring scale, transparent. Break-proof and stable, oil and acid-resistant



...005

...010

...020

Capacity litre	64 223...	
0.5	005	
1	010	
2	020	

64 224 Oil storage cans

round shape, made of tin plate, with hinged lid and captive tube cap, handle, leakproof due to double-beaded base and welded seam, stable shape



...001

...002

...003

...004

Capacity litre	64 224...	
3	001	
5	002	
10	003	
15	004	

64 226 Funnels

without rim, made of polyethylene, oil and acid resistant, breakproof

Top Ø mm	64 226...	
50	001	
75	002	
100	003	
120	004	
150	005	



64 226...

64 228 Funnels

made of plastic, breakproof, oil, acid resistant, high overflow edge, high flow rate, with interchangeable strainer and external thread for screwing on the flexible extension tube **No. 64 232 001**

Top Ø mm	64 228...	
160	001	



64 228 001

64 232 Flexible extension tube

for screwing onto funnel **No. 64 228...**

Overall length mm	64 232...	
300	001	



64 232 001

64 240 Funnels

with elbowed plastic tube, oil and acid resistant, break-proof, high overflow rim, high flow rate, with interchangeable strainer

Top Ø mm	64 240...	
160	001	



64 240 001

64 242 Replacement strainer

- Suitable for funnel **No. 64 228...** and **64 240...**
- made of brass

Strainer Ø mm	64 242...	
58	001	



64 242 001

64 243 Petrol can

made of sheet steel, stove-enamelled on the inside and outside



...924

Volume litre	64 243...	
5	905	
10	910	
20	920	
Flexible pouring spout	922	
Rigid pouring spout	923	
Cap seal	924	



...922



...923



...905 - ...920

64 244 Petrol can

- suitable for liquid fuels
- made of polyethylene with FLA
- red
- pouring spout is stored in the can
- with flexible pouring spout
- pouring spout with integrated venting
- cap with strip fastening to secure it against lost
- robust and insensitive to impact
- TÜV tested, UN/BAM approval

PRESSOL




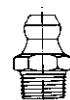
Volume l	64 244...		Size H x L x B mm	Weight g	Long pouring spout mm	Ø pouring spout mm
5	005		237 x 331 x 185	640	195	20
10	010		319 x 329 x 195	820	195	20
20	020		410 x 285 x 229	1270	195	20

64 245 Grease nipple

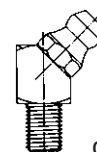
made of zinc steel. Prices quoted are for per 100 nipples

PRESSOL

Type	64 245...			Thread type	Thread length	Overall length	AF hex mm	AF square mm	Angular position	Head Ø mm
H1	002		100	M6 x 1	5.5	15.0	7			
H1	004		100	M8 x 1	5.5	15.0	9			
H1	006		100	M10 x 1	5.5	15.0	11			
H1	008		100	G1/8	5.5	15.0	11			
H2	010		100	M6 x 1	5.5	20.2		9	45°	
H2	012		100	M8 x 1	5.5	20.2		9	45°	
H2	014		100	M10 x 1	5.5	20.5		11	45°	
H2	016		100	G1/8	5.5	20.5		11	45°	
H3	018		100	M6 x 1	5.5	18.0		9	90°	
H3	020		100	M8 x 1	5.5	18.0		9	90°	
H3	022		100	M10 x 1	5.5	18.0		11	90°	
H3	024		100	G1/8	5.5	18.0		11	90°	
M1	026		100	M6 x 1	6	13.5	17			16
M1	028		100	M 8 x 1	6	13.5	17			16
M1	030		50	M 10 x 1	6	17.0	17			16
M1	032		50	G 1/8	6	17.0	17			16



...002 - ...008



...010 - ...016



...018 - ...024



...026 - ...032

64 254 High-pressure push-type grease guns

Hallbauer

DIN 1282, made of precision steel tube, tempered black surface finish, **suitable for viscous oils** and greases of medium consistency, all-purpose tip suitable for taper and spherical grease nipples



64 254...

Tube capacity ccm	64 254...		Body Ø x length mm	Overall length mm	Tip type
60	006		30 x 115	170	Pointed
150	015		40 x 185	240	Pointed
60	106		30 x 115	170	All-purpose
150	115		40 x 185	240	All-purpose



64 258 High-pressure piston-type grease gun

Hallbauer

DIN 1282 fore greases with high consistency, made of precision steel tube, tempered black surface finish, piston tube can be pulled out, therefore also suitable for deeper lubricating points, all-purpose tips suitable for tapered and spherical grease nipples



64 258...

Tube capacity ccm	64 258...		Body Ø x length mm	Overall length mm	Tip type
180	018		44 x 149	328	Pointed
180	118		44 x 149	318	All-purpose



UNIT PRICE FOR PURCHASE OF ONE PACKAGING UNIT PER ORDER NUMBER. PLEASE ALWAYS STATE NUMBER OF ITEMS IN ORDER.

“TOOLS”

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64 262 Push-type grease gun for oils**Hallbauer**

made of precision steel tube, with plastic cap, **also suitable for low viscosity oils**, all-purpose tip suitable for tapered and spherical grease nipples



64 262...

Tube capacity ccm	64 262...		Body Ø x length mm	Overall length mm	Tip type
180	018		44 x 149	240	Pointed
180	118		44 x 149	240	All-purpose

64 266 High-pressure hand-lever grease gun

DIN 1283, 800 bar test pressure, 400 bar working pressure, filled with 400 g cartridge or loose grease (including with filling device), body made of precision steel tube, welded to DIN 2394, internal surface absolutely free of scoring, with TÜV and DLG test marks, connection thread M 10 x 1



64 266 001

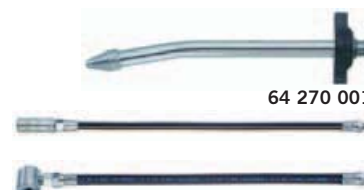
Length (without nozzle tube) mm	64 266...		Grease container Ø mm
405	001		56

64 270 Accessories

for high-pressure hand-lever grease gun **No. 64 266...**, connection thread M 10 x 1



Type	64 270...	
Curved nozzle tube with pointed tip	001	
Curved nozzle tube with hollow tip	002	
Curved nozzle tube with hydraulic tip	003	
Reinforced hose 300 mm long. with hydraulic nozzle	006	
Reinforced hose 500 mm long with hydraulic nozzle	007	
Reinforced hose 300 mm long. with sliding coupling 16 mm Ø	009	
Reinforced hose 500 mm long. with sliding coupling 16 mm Ø	010	



64 270 001

69 145 Greases for high-pressure hand-lever grease gun

Suitable for 64 266...

Volume/cartridge g	69 145...		Type
400	040		Multi-purpose grease, light-coloured
400	140		Long-term high-pressure grease with graphite



69 145 040



69 145 140

64 272 Pneumatic grease gun

can be connected to all types of compressors as well as to truck air lines, the pressure transmission ratio is 1 : 60, i.e. the grease pressure in the reinforced tube is 60 times higher than the air pressure generated by the compressor, recommended working pressure 6 bar, complete with reinforced hose 300 mm long and hydraulic nozzle



64 272 004

Capacity ccm	64 272...		Lubricant quantity per actuation l
500	004		0.9
Replacement hose No. 64 270 006 and 007			

64 273 Pneumatic grease gun

for use with lubricating greases up to NLGI 3, grease temperature up to -10°C. Grease is pumped by means of compressed air, 4 bar, pressure application (charge pressure) by means of hand pump, pressure relief (charge pressure) by means of drain and pressure relief valve, continuous grease pumping by means of compressed air motor, delivery rate / stroke 0.8 cm³, working pressure of compressed air drive 6 bar, minimum pressure (compressed air drive) 2 bar, maximum compressed air drive 8 bar, charge volume 500 cm³, charge options: 400 g grease cartridge DIN 1284, grease charger, 400 g screw-in cartridge



64 273 001

Complete with	64 273...	
1 reinforced hose M 10 x 1, 11 x 300 mm 1 nozzle tube, straight M 10 x 1, 150 mm 2 precision tips 4 BA, M 10 x 1 Hang eye	001	

64 282 Pneumatic lubricator

Suitable for oils and greases up to consistency class 3, including eco greases, equipped with grease follow-up piston, steel dust cap, **3 m long safety greasing hose** and gun with professional Z-joint, particularly smooth running under pressure, with trolley, pressure transmission 1:60, minimum air pressure 3.5 bar, maximum 8.5 bar, noise level 67 db (A), greasing pressure maximum 500 bar, delivery rate 600 cm³/min with free discharge, low-wear operation for long life, for all normal commercially available grease buckets



64 282...

For grease bucket kg	64 282...	
10	010	
15	015	
20	020	
25	025	
50	050	

64 284 Spare parts and accessories

for pneumatic lubricators No. 64 282...

Type	64 284...	
Greasing hose 3.0 m long	001	
Greasing hose 7.5 m long	003	
High-pressure grease gun with nozzle tube	005	
Nozzle tube with 4 jaw professional tip for grease guns	007	

64 800 Inspection lamps

for 230 V, with protective glass and E 27 holder, 5 m cable, hang-up hook, without bulb.

Prod. No. 64 800 010 for bulbs up to max. 60 watt

Prod. No. 64 800 020 for bulbs up to max. 100 watt

for bulb max. watt	64 800...		Type
60	010		with shock-absorbing, impact-proof and resilient protective cage
100	020		robust industrial type (rubber) for continuous use, with protective cage and hinged cover according to EN 60598

Replacement bulbs, see Prod. No. 64 824...

**64 801 Inspection lamp with safety extra-low voltage**

42 V, break-proof, with anti-dazzle facility in the protective cover. Lamp completely ready for use with 5 m H07RN-F, CEE plug with a 60W E 27 bulb for 42V



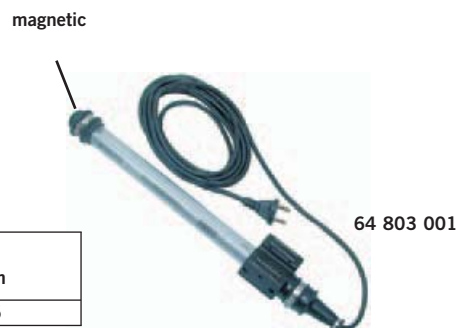
Power watt	64 801...		Length mm	Ø mm
60	006		270	110

**64 803 Fluorescent inspection lamp with safety extra-low voltage**

42 V, 8 watt with 5 m cable H05RN-F, electronic control gear in the handle, with plug for 230V connection



Power watt	64 803...		Length mm	Ø mm
8	001		450	45

**64 804 Fluorescent inspection lamp**

230 V, with resistive power cord and two pin earthing plug for class II apparatus, cable length 5 m



Power watt	64 804...		Length mm	Ø mm
8	001		450	45



64 805 Powerful inspection lamps

for 230V, made of rubber, particularly shock absorbent, handy rubber handle with hexagon, electronic control gear with On/Off switch in the handle, therefore bright, even and flicker-free light to spare the eyes, stable impact and break-proof, highly transparent protective tube made of polycarbonate with anti-glare, rubber connection cable 5 m with two pin plug for Class II apparatus, splash-proof, replaceable compact fluorescent lamp, rotating steel hook for hanging up, degree of protection IP44, splash-proof



64 805 001



64 805 003

Power watt	64 805...		Light output lumen	Length mm
24	001		1800	600
18	003		1200	500

64 806 Halogen lamp, telescopic stand

for 230V, for construction site, workshop, industry, etc., splash-proof, class of protection IP 54, with stable tubular steel frame, rotatable and lockable lamp, with connection cable and plug, for use indoors and outdoors

...010: with universal stand made of particularly stable, plastic coated tubular steel, height adjustable from 70 cm to 200 cm



64 806 001



64 806 101



adjustable
from 70 - 200 cm

64 806 010

Power watt	Type	64 806...	
500	with halogen lamp	001	
500	with stand, with halogen lamp	010	
Halogen bulb, 500 watt, 230 volt		101	
Halogen bulb, 1000 watt, 230 volt		102	

64 810 Freestanding halogen lamp

230 V, for trade and industry and use outdoors with 5 m highly flexible rubber connection cable for outdoor use. Lamp: Super halogen lamp, shockproof. Quality for the highest standards. High-intensity, safe, very good to handle. With special handle, permanently connected to the lamp, the handle cannot be lit by the lamp and therefore heated. With stable protective grille against contact and glass break-age. Very stable, steady frame, surface coated

high-quality industrial type



64 810 001

Power watt	Type	64 810...	
500	with halogen lamp, shockproof	001	

64 811 Freestanding construction lamp with electricity distributor

230 V, for use outdoors. Mobile, anti-dazzle 200 watt lamp with integrated triple electric sockets/electricity distributor and light On/Off switch. Cover made of impact-resistant polycarbonate, therefore maximum transparency and top quality. Lamp can be swivelled with latch locking element. Holder E 27. Extremely stable frame. With full protection handle. 5 m weatherproof rubber cable H07 RN-F 3G 1.5 with plug

Power watt	Type	64 811...	
200	without bulb	001	

For bulbs, see Prod. No. 64 824...



View of the
back

64 811 001

64 812 Inspection lamp

230 volt alternating current, including 5 m power cord, with 2 x 24 W TC fluorescent tubes which ensure high luminosity combined with low energy costs. Lamps have been especially designed for robust use to satisfy all requirements, the additional socket on the side of the lamp enables other equipment to be easily connected, class of protection III, degree of protection IP 44
415 mm x 285 mm x 150 mm

incl. additional socket
on housing



64 812 001

Light intensity lumen	64 812...	
3600	001	

64 812 Magnetic holder for inspection light

- Suitable for inspection lamp **64 812 001**
- With mounting plate, cable rewind, tilt joint, rubber - metal buffer
- Three flat magnetic grippers with 60 kg holding force

Supplied without inspection lamp.



64 812 011

Type	64 812...	
Magnetic holder	011	

64 814 Stand

with mounting device suitable for lamp No. **64 812 001**
145 cm to 250 cm height adjustable



64 814 001

Height cm	64 814...	
145-250	001	

64 824 Bulbs

230 V, E 27 screw base, for lamps No. **64 800...**, **64 811...**

Power watt	64 824...		Type
100	001		shockproof
60	006		normal
100	010		normal
200	020		normal



64 824...

64 835 Halogen machine lamp

- 50 watt luminosity - adequate lighting of the work area even at larger distance
- Lamp head can be rotated through 300°
- Flexible, plastic sheathed metal hose
- Waterproof On/Off switch on the lamp head
- With 5m rubber cable HO7RN-F



...001 and ...002:

- 24 volt type

...003 and ...004:

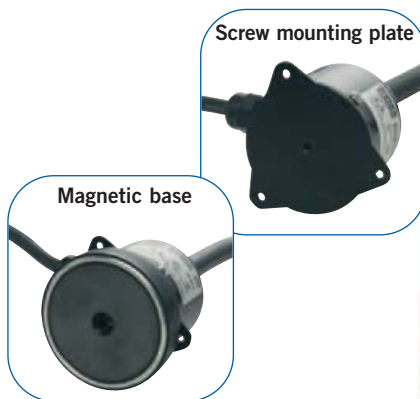
- 230 volt type

...001 and ...003:

- With screw mounting plate

...002 and ...004:

- With magnetic base

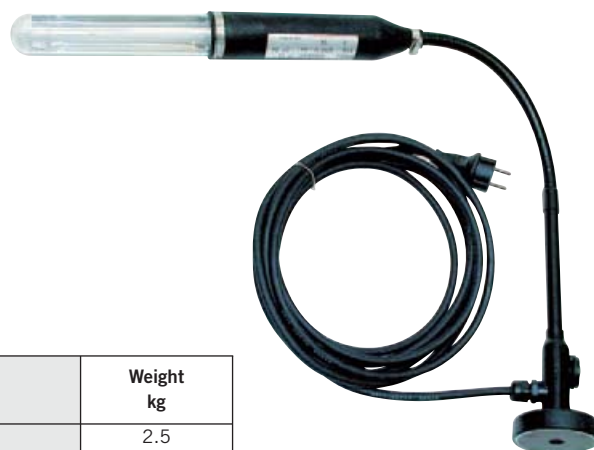


64 835...

Type	64 835...		Weight kg
50 W, 24 V, can be screwed on	001		1.2
50 W, 24 V, with magnetic base	002		1.7
50 W, 230 V, can be screwed on	003		2.7
50 W, 230 V, with magnetic base	004		3.2

64 838 Machine lamps

anti-dazzle with 230 V and 11 watt compact fluorescent lamp, with integrated control gear and switch. Completely ready for use with 5 m connection cable HO7RN-F, integral plug IP 44 and tubes. Flexible metal hose. **With magnetic base**



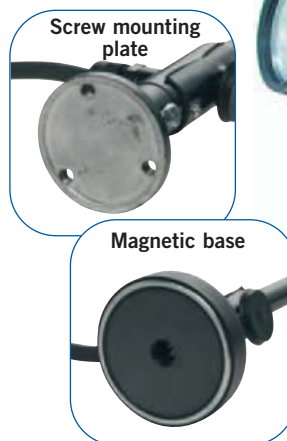
64 838...

Type	64 838...		Weight kg
With magnet 50 kg	001		2.5
With magnet 75 kg	002		3.0

64 842 Machine lamps, 230 volt/24 volt

Anti-dazzle 100 watt machine lamp 230 V with a rubber lamp part and thermal glass safety lens.

The lamp bears the GS mark and is supplied completely ready for use with 5 m connection cable HO7RN-F, integral plug IP 44 and shockproof bulb. Flexible metal hose. Various mounting options. Lamp with switch **64 842 010 - 64 842 013** Machine lamp for safety extra-low voltage as described above, with halogen lamp 100 W/24 volt, base GY 6.35, 5 m HO7RN-F connection cable, with CCE plug 24 V ready for use, lamp with switch



64 842...

Type	64 842... 230 volt	Price O	64 842... 24 volt		Weight kg
With magnet 50 kg	001	138.95	010		2.5
With magnet 75 kg	002	162.80	012		3.0
With screw mounting plate	003	143.40	013		2.0



64 855 LED lamp with rechargeable battery

for local range with NiMH rechargeable battery. High light intensity, white LED, shock-insensitive, virtually unlimited life of the bulb (>50,000 h), very low energy consumption

Average rated life hrs	64 855...		Charging time hrs	Size mm
2	001		16	97 x 45 x 29



64 855 001

64 856 LED lamp with rechargeable battery

Lighting range: > 50 m, very high luminosity due to 4 LEDs, focussed through 4 lenses, clearly limited and uniform beam of light, life of the LEDs - over 50,000 hours, shock-insensitive NiMH rechargeable battery, no exhaustive discharge, no overcharging, no memory effect, average rated life approx. 10 hours, Charging time: max. 14 h

Average rated life hrs	64 856...		Charging time hrs	Size mm
10	001		30	135 x 48 x 48



64 856 001

64 816 Rechargeable battery halogen hand-held spotlight

incl. carry strap +
wall mounting bracket

rechargeable, handy, splashproof work light with switchable pilot/main lamp and electronic emergency lighting function, hermetically sealed rechargeable quality batteries, electronically controlled battery charging by means of integrated power cord, LED charge control, over-charging-proof with exhaustive discharge protection, lamp head can be rotated vertically through approx. 120°, complete with strap handle and wall mounting bracket, LED as pilot lamp: 200 h average rated life

Average rated life of the pilot lamp hrs	Average rated life of the main lamp hrs	64 816...		Charging time hrs	Size mm
200	3.0	001		18	126 x 112 x 336

64 816 001
Similar to
illustrated model.**64 817 Rechargeable emergency lamp**

can be charged from the 230 V mains system, 2 TL6 fluorescent tubes can be switched in single or double tube mode, overcharge-proof due to electronically controlled battery charging, with exhaustive discharge protection

Average rated life hrs	64 817		Charging time hrs	Dimensions mm
4 - 7	001		20 - 24	250 x 85 x 125



64 817 001

64 859 Rechargeable halogen hand-held spotlight

Handy, rechargeable halogen spotlight with battery charge indicator, focussing feature and separate charger, lighting range: 1000 m, - average rated life: 120 min., - bulb: E10, 5.2V/0.85A halogen, - rechargeable battery: NiCd, 4.8V/1.6Ah, - weight: 550 g, Housing material: Plastic, black

64 859...		Size mm
001		290 x 110 x 111



64 859 001

64 861 Pen light

with robust metal casing and pocket clip

...001: including 2 x LR3 AAA batteries with pushbutton switch

...005: Batteries: 2 x mignon (AA) (not included)



64 861 001



64 861 005

Batteries	64 861...		Dimensions L x Ø mm
2 x LR3 AAA	001		140 x 14
-	005		135 x 16

64 862 "Bright Star" torch

shockproof, oil and chemical resistant ribbed housing, long life switch with **edge protection** against inadvertent switching on, space for spare bulb; special reflector with **unbreakable lens**

For replacement batteries, please see Prod. No. 64 866...



64 862 103



64 862 105



64 862 107

For batteries Type / Qty	64 862...		Length mm
2 x mignon AA	103		155
2 x mono D	105		200
3 x mono D	107		265

64 863 Torches

The original from the USA. Robust precision housing made of aluminium, splashproof due to O rings. Can be focussed from point source to floodlight.

...008 and ...014 in gift case incl. batteries

...025 to ...037 with spare bulb in the cap.

Spare bulbs Prod. No. 64 863 108 - 64 863 137 in pack of 2

For replacement batteries, please see Prod. No. 64 866...

MAGLITE



64 863 008



64 863 014



64 863 025



64 863 031



64 863 037

Model	64 863...		Length cm	Batteries Type / Qty	64 863... Bulb		Lamp type
Solitaire	008		8.0	Micro 1	108		Halogen
Mini-MAG	014		14.5	Mignon 2	114		Halogen
2 D-Cell	025		25.0	Mono 2	125		Krypton
3 D-Cell	031		31.5	Mono 3	131		Krypton
4 D-Cell	037		37.5	Mono 4	137		Krypton

64 864 MityLite® torch

Watertight up to 150 m, EX protected (for use in explosive atmospheres), ATEX cat. 3-T4, Material: Polycarbonate, laser spot xenon light,
Lumen: 7.5, Candle power: 6,000
Scope of supply: Laser spot module, light deflector attachment and 2 energizer alkali micro cells (AAA),
...002: LED type



64 864 001



64 864 002

Average rated life of battery h / 10°C	64 864...		Size mm
100	001		121 x 21 x 21
100	002		146 x 23 x 23

64 865 Torch, explosion-proof

Protection class: EX-protected (for use in explosive atmospheres), Zone 0-T6 - suitable for industrial use, watertight, made of shockproof plastic, colour silver, weight 24.5 g, LED: 5 mm, lumen: 8.9 Light beam: white, Scope of supply: shoulder strap and batteries (4x IEC LR4 alkaline button cells).



64 865 002

Average rated life of battery h	64 865...		Size mm
130	002		70 x 25

64 872 "Bright Star Industrial" torch

- CE marking in accordance with UL
- splashproof, degree of protection IP64
- with three-way switch ("On - Off - Flash")
- Krypton bulb
- Metal hang-up ring
- Candle power 4.500
- Approved by the German "Seeberufs-Genossenschaft" (Maritime Employees Association)
- Colour: black

Approved by the German "Seeberufs-Genossenschaft" (Maritime Employees Association)



64 872 001

For batteries	64 872...		Length mm
2 x mono D	001		270

64 875 Portable searchlight

6 volt, plastic, black, with krypton bulb, without battery, suitable battery 64 866 010



64 875 001

64 875...		Size mm
001		180 x 120 x 100

64 877 Heads Up Lite head lamp

3 LED head lamp, splashproof
Dimensions: 60 x 40 x 43 mm, weight 96 g incl. battery, material: ABS plastic, battery housing: Thermoplastic, rubber headband: black, textile headband: grey/black, lamp: black, light beam: white, LED: 3 x 5 mm, lumen: 3 per LED, Battery: 3 x AAA alkali, scope of supply: Rubber headband, incl. batteries, ATEX standard: EX IIG 2G EEx ia IIB T1TRL 03ATEX21005X with 1 LED 150 h, with 3 LED 80 h

splashproof



64 877 001


Average rated life of battery h	64 877..		Size mm
150/80	001		60 x 40 x 43

64 866 Batteries

non-rechargeable

...101 - ...106 Varta alkali manganese batteries with 2 to 3 times longer life and shelf life than conventional zinc carbon batteries.



Model / Type	64 866...		64 866... Varta		Voltage Volt	Dimensions mm	
Mono	001		101		1.5	60.8 x 33 Ø	2
Baby	002		102		1.5	49.6 x 25 Ø	2
Mignon AA	003		103		1.5	50.2 x 13.7 Ø	4
E-block	004		-	-	9	47.6 x 26.3 x 16.9	1
Flat	005		-	-	4.5		1
Micro AAA	006		106		1.5	44.1 x 10.2 Ø	4
Button cells							
Alkaline V13GA	-	-	205		1.5	5.4 x 11.6 Ø	1
Silver oxide SR44W	-	-	207		1.55	5.4 x 11.6 Ø	1
Lithium CR2032	-	-	210		3.0	3.2 x 20.0 Ø	1

64 867 Rechargeable batteries, NiCd and NiMH

rechargeable, 1.2 volt

...001 - ...004: Nickel cadmium

...101 - ...102: Nickel metal hydride



Type	Model	64 867...		Power Ah
NiCd	Mono	001		4.4
NiCd	Baby	002		2.4
NiCd	Mignon	003		1.0
NiCd	Micro	004		0.25
NiMH	Mono	101		7.0
NiMH	Mignon	102		2.5

64 870 Chargers

for (NC) nickel cadmium and (NMH) nickel metal hydride rechargeable batteries. For mignon AA, micro AAA, mono, baby

For rechargeable batteries, see Prod. No. 64 867...



64 870 001

64 870...	
001	

64 873 Battery tester

- Practical battery tester with analog measurement mechanism
- For displaying the battery condition
- For testing all standard batteries including special batteries for cameras and computers
- Test range 1.5 V - 22.5 V

Test range 1.5 V - 22.5 V

The following types of battery can be tested:

1.5 V button cell, 1.5V AAA-N, 1.5 V AA-C, 1.5V D, 3.0 V lithium, 4.5 V block battery, 6.0 V photo battery, 9.0 V 9V block, 12.0 V lighter battery, 22.5 V flashlight battery, 1.5 V photo, 3.0 V photo, 6.0 V photo

Type	64 873...	
BT 105	001	



64 873 001



64 902 Cable reel

with duo safety system, made of breakproof plastic, 4 socket outlets with earthing contact, stable, shockproof tubular steel frame, double safety due to integrated automatic overheating and accident protection, with visual indicator

Cable length m	64 902...		Cable type	Reel
50	001		PVC H05 VV-F 3G 1.5 mm ²	Special plastic



64 902 001

64 906 Cable reel

with duo safety system, robust cable reel made of zinc-plated sheet steel, 4 socket outlets with earthing contact, with protective caps, stable, shockproof tubular steel frame, double safety due to integrated automatic overheating and accident protection, with visual indicator

Cable length m	64 906...		Cable type	Reel
50	001		Rubber H05 RR-F 3 x 1.5 mm ²	Zinc plated sheet steel



64 906 001

64 910 Retractable cable reel

with duo-safety system, power supply extension with 4 VDE standard socket outlets with earthing contact, 10 m high-quality extension cable, easy to wind and unwind, well cleared up and protected, double safety due to automatic overheating and accident protection in the event of overheating or overload

Cable length m	64 910...		Cable type	Reel
10	001		PVC H05 W-F 3 x 1.5 mm ²	Plastic



64 910 001

64 912 Cable reel

for use outdoors, 230 V, double , 3 protective insulation, 3 splash-proof socket outlets with earthing contact with self-closing covers, particularly stable portable frame, powder coated with full protection handle, double safety due to automatic overheating and accident protection with red indicator lamp, with anti-cable twist system

Cable length m	64 912...		Cable type	Reel
40	001		Rubber H07 RN-F 3 G 1.5 mm ²	zinc-plated, high-quality coated sheet steel, with rotary contact
40	004		Breflex XYMM 3 x 1.5 mm ²	made of zinc-plated sheet steel, with special cable (orange) "Breflex Super Solid" for extreme mechanical stresses with very good wear resistance, oil and UV resistant



...001



...004

64 916 CEE cable reels**3-pol, splashproof safety cable reel**

made of highly breakproof special plastic for use outdoors, CEE type plug, 400 volt, with 3-pole safety shutdown, 3 socket outlets, of which 1 CEE connection socket outlet 5-pole, 400 volt, two socket outlets with earthing contact, 230 volt, splashproof with hinged cover, reel made of special plastic



64 916...

Cable length m	64 916...		Cable type
30	001		Rubber H07 RN-F 5 x 2.5
40	002		Rubber H07 RN-F 5 x 1.5

64 920 Power station electricity distributor

for use outdoors, professional electrical power distribution with CEE socket, 400 V and 3 socket outlets with earthing contact 230 V/16 A, splashproof, stylish ergonomic design, housing made of highly breakproof plastic, practical take-up device for storage of the cable, suitable for mounting on the wall



64 920 001

Cable length m	64 920...		Cable type
2	001		Rubber H07 RN-F 5 x 1.5 mm ²

64 928 Extension cables

230 V, with earthing pin plug and coupling

- with practical wall bracket



64 928...

Cable length m	64 928...		Cable type
10	001		Rubber H05 RR-F 3 x 1.5 mm ²
25	002		Rubber H05 RR-F 3 x 1.5 mm ²

64 932 Extension cables for outdoor use

230 V, with earthing pin plug and coupling with cover

- with practical wall bracket

incl. wall bracket



64 932...

Cable length m	64 932...		Cable type
10	001		Rubber H07 RN-F 3 x 1.5 mm ²
25	002		Rubber H07 RN-F 3 x 1.5 mm ²
25	003		Rubber H07 RN-F 3 x 2.5 mm ²

64 934 Four-socket distributor

230 V, for difficult construction site use, heavy-duty rubber cable for use outdoors, IP 44

- ideal for harsh conditions on construction sites, for use in the workshop and for industrial use
- Quality rubber cable (H07 RN-F G1.5)
- with 4 outlet socket power block



64 934 001

Cable length m	64 934...		
5	001		
10	010		



64 934 010

64 936 Three-phase a.c. extension cable

400 V, with CEE connections, red







Cable length m	64 936...		Maximum load ampere	Cable type
10	010		16	H07RNF 5x2.5 mm ²
25	012		16	H07RNF 5x2.5 mm ²
10	020		32	H07RNF 5x4.0 mm ²
25	022		32	H07RNF 5x4.0 mm ²



64 936...

64 938 Power distributor

power distributor can be hung up at the required height, up to 8 socket connections enable working without spaghetti of cables in the work area, up to 4 sockets are arranged in the smallest space on each side, shockproof plastic housing with large tool hook, with 3 m stable, zinc plated steel link chain, connection cable with earthing contact or as CEE type, length 5 m

Type Front side	Type Rear	64 938...	
 4 socket outlets with earthing contact 230 volt	 4 socket outlets with earthing contact 230 volt	001	
 1 CEE socket outlet, 5-pole, 400 volt	 3 socket outlets with earthing contact, 230 volt, splashproof	005	
 2 one-hand couplings for compressed air, hose 5m Ø 6 x 12 mm	 3 socket outlets with earthing contact, 230 volt, splashproof	007	



64 938 001

64 938 005

64 938 007

64 939 Extension sockets

...006 - ...010: with 3 m connection cable and On/Off switch

Colour: black

...025: splashproof, with 2 m rubber connection cable H07RN-F. Industrial type for robust use, with self-closing splashproof covers.

Colour: yellow

with 3 m connection cable



...006



...008



...010

Number of socket outlets	64 939...	
6	006	
8	008	
10	010	
Prod. No. ...025 splashproof type		
5	025	



...025

Industrial type, splashproof

64 941 Solid rubber plug

230 V, industrial type for the toughest use, spacious design,
with thermoplastic strain relief block



64 941 100



64 942 100

64 942 Solid rubber coupling

Type as 64 941...

For cable Ø	64 941...		64 942...	
mm	Socket outlet		Coupling	
6 - 16	100		100	

64 943 CEE connector

nickel-plated pins, 5 pin, 400 volt, 6 H



64 943...

64 944 CEE coupling

nickel-plated sleeves, 5 pin, 400 volt, 6 H



64 944...

Maximum load ampere	64 943... Connector		64 944... Coupling	
16	016		016	
32	032		032	
63	063		063	

64 946 Cable stripping, lead and work knife

Overall length 190 mm



64 946 001



folding

64 946 002

Handle	Blade	64 946...	
Wood	fixed	001	
Plastic	folding	002	

64 947 Cable-stripping pocket knives

with powerful fold open blades and wooden handle



...001



...002



...003

Number of blades	Type	64 947...	
1	strong blade with round wire stripper	001	
2	strong blade and three- square awl	002	
3	strong blade, screwdriver with stripper and awl	003	

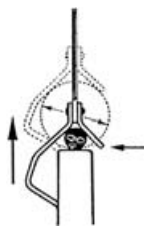
64 948 Cable-stripping knives

- All knife blades are TIN coated
- Exact cutting depth can be set
- Handles made of wearproof plastic
- PVC and cadmium free
- ...001 and ...003:
- For stripping ribbon-type webbed building cables and flat cables
- Spare blade in the handle
- Without pre-cutting blade

...011 to ...021:

- For stripping all commonly used round cables
- With pre-cutting blade
- Spare blade in the handle

JOKARI



TIN coated



64 948 001



64 948 003



64 948 011



64 948 013



64 948 021

For cable Ø mm	64 948...		Blade type	Type	Size L x B x H mm
8 - 28	001		-	27 Secura	130 x 30 x 20
27 - 37	003		-	35 Secura	150 x 30 x 20
8 - 28	011		Hooked	28 Standard	170 x 30 x 120
8 - 28	013		Hooked	28 H Secura	170 x 30 x 120
8 - 28	021		straight	28 G Secura	170 x 30 x 120

Replacement internal blade	64 948...	
for ...011 and ...013	015	



64 948 015

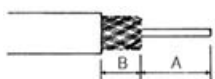
64 968 Sheath and insulation stripping tool

JOKARI

Sheath and insulation stripping tool for all commonly used coax cables.

Also suitable for PVC flex 3 x 0.75 mm².

With length scale. (Replacement blades are not available)



64 968 001

For cable Ø mm	64 968...		Size Length x Ø mm
4.8 - 7.5	001		100 x 15

64 969 In-box sheath stripper

JOKARI

for stripping the sheath off all commonly used round cables e.g.

NYM cable 3 x 1.5 - 5 x 2.5 mm², no need to set the cutting depth

For cable Ø mm	64 969...	
8 - 13	001	



64 969 001

64 970 All-purpose wire stripper

(inside blade) for stripping cables with 8 - 13 mm Ø and stripping conductors 0.2 - 4.0 mm². No adjustment required. With lengthwise cut and insulation stripping device. (Replacement blades are not available).



64 970 001



For cable Ø mm	64 970...		Size Length x Ø mm
4 - 16	001		125 x 25

64 971 Special sheath stripper

For PVC insulated data communication and control cables. Cable with inside push-out blade. Cable from 5 - 15 mm Ø, conductor 0.2 - 4.0 mm². (Replacement blades are not available).



64 971 001

For cable Ø mm	64 971...	
5 - 15	001	

64 974 Micro-precision insulation stripping tool

For electronics and telecommunication cables, 30 - 20 AWG. 6 pre-settable cross-sections with cable cutter and length-stop. Micro-precision insulation stripping tool for electronics and telecommunications cables. Working range from 0.25 - 0.8 mm Ø

For cable Ø mm	64 974...		Size L x B x H mm
0.25 - 0.8	001		100 x 40 x 10



64 974 001

64 952 Metal cable stripping knives

adjustable cutting depth for insulation up to 4.5 mm thick, rotatable blade for round, lengthwise and spiral cuts, retaining clip with integrated cutting edge for breaking open insulation which has been cut into



64 952...

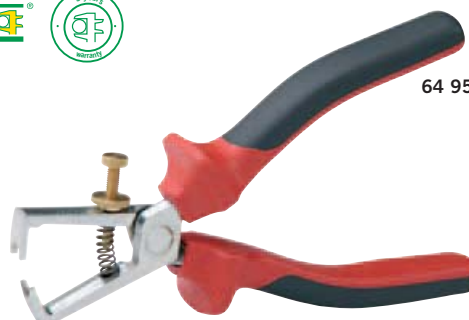
For cable Ø mm	64 952...		Length mm
6 - 25	001		135
25 - 36	002		140

64 957 Wire strippers

for cables and litz wires up to 5 mm diameter, drop forged, individually hardened and tempered using high-frequency induction method, adjusting screw and lock nut for adjusting the cable diameter, opening spring for convenient working,

Type:

Head polished, plastic coated handles



64 957 316

Wire stripping values		64 957...		Length mm
Ø mm	mm ²			
2.5	10	316		160



64 958 Wire strippers

with opening spring

- for single, multi and finely stranded conductors with plastic or rubber insulation
- Adjust using knurled screw and lock nut
- special tool steel, hardened and tempered in oil

Type:

116 Polished head, plastic coated handles

316 Chrome-plated head, handles with two-coloured multi-component sheathing



64 958 116



64 958 316

Wire stripping values		64 958...		Length mm
Ø mm	mm²			
5	10	116		160
5	10	316		160

64 951 Insulation stripping side cutter

- the indispensable pliers for electrical installation
- Precision wire stripping holes for single stranded (solid) conductors 1.5 and 2.5 mm²
- inductively hardened precision cutting edges for soft wire up to Ø 4.0 mm, cutting edge hardness approx. 60 HRC
- Vanadium electric steel, hardened and tempered in oil
- Polished head
- With two-coloured multi-component sheathing



64 951 016



Wire stripping values		64 951...		Length mm
mm²	AWG			
1.5 + 2.5	15 + 13	016		160

64 991 Wiring pliers

- the ideal pliers for cabling work
- for gripping, bending and cutting soft, medium-hard and hard wire
- Precision cutting edges with additional induction hardening, cutting edge hardness approx. 60 HRC
- with precision insulation stripping holes
- for crimping wire end ferrules
- Special grade special tool steel, hardened and tempered in oil
- Polished head
- Plastic coated handle



64 991 116

Wire stripping values		64 991...		Length mm
0.5 - 0.75/1.5/2.5		116		160

64 959 Multi-purpose wire strippers

- Particularly suitable for Teflon, silicone, Radox and rubber
- no damage to the conductor thanks to precisely ground moulded blades
- with adjustable length stop and cable routing
- 4 interchangeable blades



64 959...



Conductor cross-sections mm²	64 959...		Length mm
0.03 - 2.08	020		195
0.14 - 6.00	060		195
2.50 - 10.00	100		195

64 953 Sheath stripping tool

- for removing all insulation layers from cables from \varnothing 25 mm
- cutting depth adjustable up to 5 mm
- suitable for lengthwise and circumference cut
- interchangeable blade (both sides can be used)



64 953 025



For cable \varnothing from mm	64 953...		Length mm
25	025		150
-	125		Replacement blades

64 954 Insulation stripping tool

- ergonomic, automatic wire strippers
 - with integrated safety cutter for conductors up to 2 mm \varnothing (solid conductors)
 - no adjustment to conductor cross-section necessary
- ...016 also suitable for removing sheathing from PVC flex 3 x 0.75 mm², no adjustment required, pliers body made of glass fibre reinforced polyamide



64 954 004



64 954 016

Conductor cross-sections mm ²	64 954...	
0.5 - 4	004	
6 - 16	016	

64 956 Wire strippers, self-adjusting

- compact standard tool for favourable price for all the commonly used cable cross-sections and insulation materials
- for single, multi and finely stranded conductors from 0.2 to 6.0 mm² with standard insulation
- independently adjusts to the different conductor cross-sections, therefore no damage to the conductor
- handy design and low weight
- slender head shape for difficult to access work areas
- with wire cutter for Cu and Al conductors up to max. 2.5 mm²
- with adjustable length stop from 6.0 - 18.0 mm for equal insulation stripping lengths for serial work
- easy to exchange blades
- housing made of tough, glass fibre reinforced plastic with ergonomic soft plastic zone in the handle

Insulation stripping values 0.2 - 6.0 mm²

AWG insulation stripping values: 24 - 10

Length: 180 mm



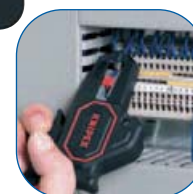
64 956 006



Precise insulation stripping from 0.2 - 6.0 mm²



Wire cutter up to 2.5 mm² max.



Insulation stripping in confined spaces

Conductor cross-sections mm ²	64 956...		Length mm
0.2 - 6	006		180

64 960 Insulation stripping and cutting tools "STRIPAX" and "Mini-STRIPAX"

Weidmüller

for insulation stripping and cutting multiple conductors, including several conductors in one operation with ribbon conductors, double insulated cables in two operations without any special adjustments, no splicing open of the individual conductors



64 960 001



64 960 006



64 960 016

Type	Conductor cross-sections mm	64 960...		Length mm
Mini-STRIPAX	0.08 - 1	001		135
STRIPAX	0.08 - 6	006		200
STRIPAX	6-16	016		200

64 961 Insulation stripping and cutting tool

Primat

for insulation stripping and cutting conductors 0.08 - 6.0 mm² Ø (AWG 20 - 11), multiple conductors, several conductors in one operation for thin ribbon conductors, double insulated cables in two operations without any special adjustments, no splicing open of the individual conductors

with wire cutter



64 961 001

Conductor cross-sections mm ²	64 961...		Length mm
0.08 - 6	001		200

64 962 Wire strippers, self-adjusting

KNIPEX

- for single, multi and finely stranded conductors with plastic or rubber insulation
 - independently adjusts to the different conductor cross-sections, therefore no damage to the conductor
 - Re-adjustable cutting depth for different insulation materials
 - with wire cutter for Cu and Al conductors, multi-stranded up to 10 mm² and single stranded up to 6.0 mm²
 - smooth, easy running mechanism
 - easy to exchange blade, plastic clamping jaws and length stop
 - Low weight
 - housing made of tough, glass fibre reinforced plastic
- Insulation stripping values** 0,03 - 10,0 mm²
Length stop: 3.0 - 18.0 mm
Length: 200 mm



64 962 010



Wire cutter up to
10 mm² multi-stranded

Conductor cross-sections mm ²	64 962...		Length mm
0.03 - 10	010		200

64 963 "Multistrip 10" - self-adjusting multi-purpose wire strippers

- for professional removal of difficult to work on insulations, e.g. Teflon® and Radox® as well as standard insulations of conductors from 0.03 up to 10.0 mm²
- independently adjusts to the different conductor cross-sections, therefore no damage to the conductor
- fine adjustment of the tools for difficult to remove insulations is no longer necessary
- wearproof, screwed cutting clamping jaws made of steel prevent the cable from slipping through
- with wire cutter for Cu and Al conductors, multi-stranded up to 10 mm² and single stranded up to 6.0 mm²
- smooth, easy running mechanism
- blade, length stop and cutting clamping jaws are easy to exchange
- housing made of tough, glass fibre reinforced plastic with ergonomic soft plastic zone in the handle

Insulation stripping values 0.03 - 10.0 mm²

AWG insulation stripping values: 32 - 7

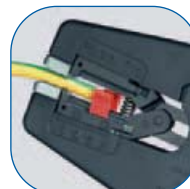
Length: 195 mm



64 963 010



Wire cutter up to 10 mm² multi-stranded



Clamping jaws made of steel with cutting edges prevent the conductor from slipping through



Automatic opening after completing the insulation stripping process

Conductor cross-sections mm ²	64 963...		Length mm
0.03 - 10	010		195

64 964 CST insulation stripping tool

for coaxial cables and round (shielded) data cables, fast resetting for other cable types due to adjustable and interchangeable screw holder, included setting block enables fast pre-setting of the cutting depths, interchangeable cartridges with common blade spacings, blade cartridges can be used on two sides, **basic tool without blade cartridges**, see 64 965...

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64 964 001

Conductor Ø mm	64 964...	
2.5 - 8	001	

64 965 Blade cartridges

for Prod. No. 64 964 001

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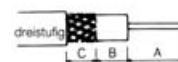


64 965 002



64 965 001

Colour code	Type	64 965...	
green	Insulation stripping dimensions 7.1/5.1 mm = C/B; 2-stage insulation stripping process	001	
blue	Insulation stripping dimensions 6.5 mm = B; 1-stage insulation stripping process	002	



64 966 Cable tie gun

for cable ties within the cross-section range from 2.4 to 4.8 mm, see Prod. No. 64 967...

64 966...	
010	



64 966 010

64 966 Cable tie gun

- universally usable tool
- robust metal housing, low maintenance
- For clamping and automatic cutting of cable ties
- Four-level quick adjustment of the tensile force

HellermannTyton



64 966 101



64 966 103

up to tie width mm	64 966...		Weight g
4.8	101		300
9.0	103		500



64 967 Cable ties

made of 100% pure nylon, pack of 100 ties

...100 - ...138: Colour: natural

...400 - ...438: Colour: black



Size mm	64 967... natural		64 967... black		PU
2.5 x 100	100		400		100
3.5 x 140	114		414		100
4.5 x 200	119		419		100
4.5 x 280	130		430		100
7.5 x 360	138		438		100



64 967 100 - ...138

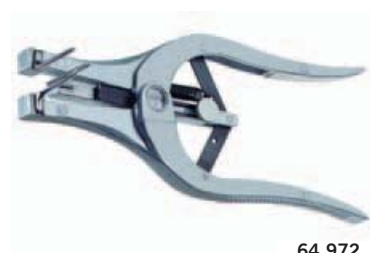


64 967 400 - ...438

64 972 Three pronged pliers

made of injection moulding, lightweight and handy, especially developed for affixing sleeves, prongs made of hardened and tempered, stainless steel, suitable both for small and for large series

For grommet internal Ø mm	64 972...		For cable external Ø mm	Overall length mm	Prong length mm
0 - 1	001		4	190	25
2 - 4	002		15	190	35
4 - 10	003		30	190	52

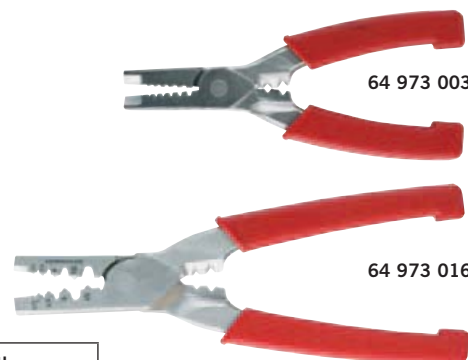


64 972...

64 973 Wire end ferrule pliers

- drop forged with plastic sheathed handles
- cable stripping and cutting device
- for pressing wire end ferrules **DIN 46228 Part 1 + 4**

For cross-sections mm ²	64 973...		Length mm
0.25-2.5	003		155
0.5-16	016		220



64 973 003

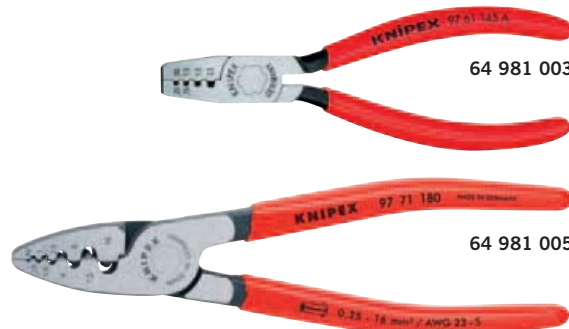
64 973 016

64 981 Wire end ferrule pliers

- for pressing wire end ferrules **DIN 46228 Part 1 + 4**
- Pressing in labelled trapezoidal profiles for secure connection of ferrule and conductor
- Vanadium steel, hardened and tempered in oil
- ...005:
- 9 particularly deep profiles with tapered side surfaces



For cable Ø mm	64 981...		Overall length mm
0.25 - 2.5	003		145
0.25 - 16	005		180



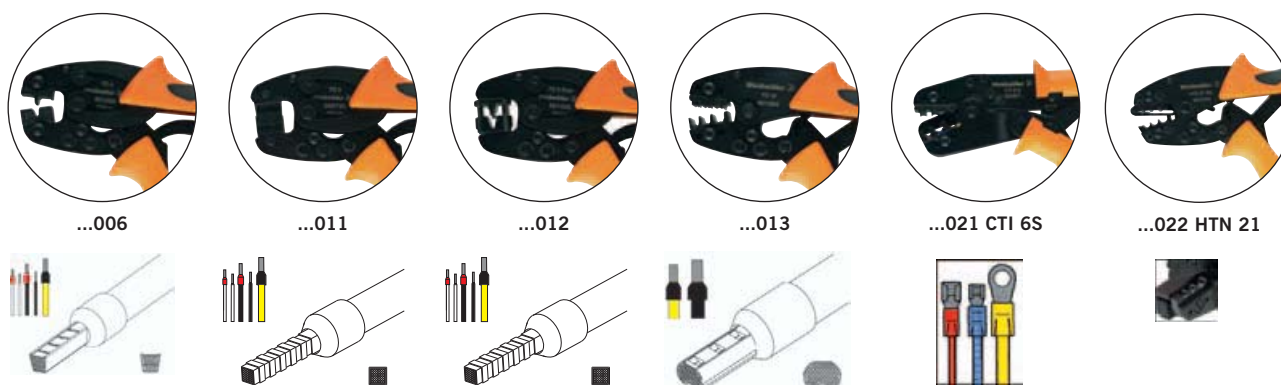
64 981 003

64 981 005

64 980 Crimping tools

for wire end ferrules, crimping according to DIN 46228, only one crimping nest for all cross-sections, forced block ensures quality crimp, ergonomically shaped handles

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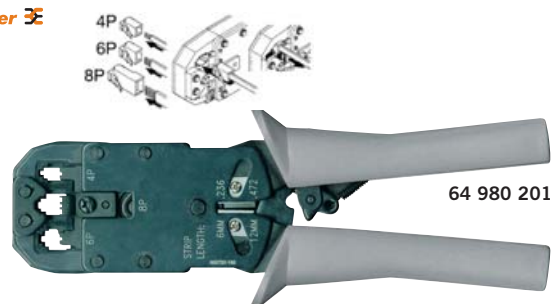


Type	for wire end ferrules	64 980...		Wire end ferrule feed
PZ4	0.5 - 4 mm ² (~ AWG 20 - 12)	006		from the side
PZ3	with and without plastic collar from 0.5 - 6 mm ² short lever path) (~ AWG 20 - 10), four-square pressing, unlocking option in the event of incorrect operation, only one die for the whole cross-section range	011		from the front
PZ6 Roto	with and without plastic collar from 0.25 - 6 mm ² (~ AWG 24 - 10), unlocking option in the event of incorrect operation, only one die for the whole cross-section range, rotatable die	012		from the front or side
PZ16	with and without plastic collars from 6 - 16 mm ² (~AWG 26 - 16) three crimping stations according to the cable cross-sections, approval according to VG 95211	013		from the side
CTI6S	for PVC and polyamide insulated connectors within cross-section range from 0.5 - 6 mm ² (according to DIN 46234), with stop for precise positioning of the contacts, for cable lugs, plug connectors, parallel and series connectors as well as plug-in connectors	021		
HTN21	for un-insulated cable lugs and connectors within the cross-section range from 0.5 - 6 mm ² , such as rolled cable lugs, tubular cable sockets, plug connectors, parallel and series connectors, available with swivelling stop	022		

64 980 Pressing tool

- For modular plug-in connectors
- WE and DEC systems with additional functions
- Cutting and insulation stripping of 8-pole flat or flat oval data cables
- Stops of 4-pole WE connectors
- 6-pole (RJ 11) WE connectors
- For AMP or similar connectors

Silver Line
by Weidmüller



for conductor cross-section mm ²	64 980...		Length mm	Weight g
AWG 28 - AWG 24	201		205	424

64 986 Crimping tool

- Professional tool for cutting and stripping insulation from flat, unshielded telephone cable
- for pressing 6 and 8-pole Western plugs Type RJ 11/12 (9.65 mm wide) and Type RJ 45 (11.68 mm wide)
- exact crimping process due to parallel crimping
- uniformly high crimping quality due to forced lock (releasable)
- force increased by leverage/mechanical advantage for low fatigue work
- with length cutter and sheath stripping blade for ribbon cable 6 and 12 mm long
- head tempered with black finish, handles with two-coloured multi-component sheathing

...003:

- with additional insulation stripping function for round cables



64 986 001



64 986 003

Capacity	64 986...		Length mm
RJ 11/12 (6-pin) 9.65 mm RJ 45 (8-pin), 11.68 mm	001		190
RJ 10 (4-pin), 7.65 mm RJ 11/12 (6-pin) 9.65 mm RJ 45 (8-pin), 11.68 mm	003		200

64 982 Self-adjusting crimping tools for wire end ferrules

- tempered with black finish, with ergonomically shaped two-component handles

...001 and ...008 with side entry

...012 with front entry and side entry up to 2.5 mm²

...015 with front entry



64 982 001



64 982 008



64 982 012



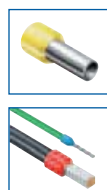
64 982 015

Cross-section range mm ²	64 982...		Crimping surfaces
with side entry			
0.08 - 10	001		4 x profiled
0.08 - 6.0	008		6 x profiled
with front and side entry			
0.08 - 10	012		4 x profiled
with front entry			
0.08 - 16	015		4 x profiled



64 982 Boxed assortment of wire end ferrules

- for insulated and uninsulated wire end ferrules
1.0 / 1.5 / 2.5 / 4.0 mm² (100 pcs),
0.6 / 10.0 mm² (50 pcs)
- Crimping tool 64 982 012
- Wire strippers



64 982 101

Volume	64 982...	
Crimping tool, wire strippers, 4 x 100 pcs from 1.0 - 4.0 mm ² , 2 x 50 pcs from 0.6 - 10.0 mm ²	101	

64 989 Hand crimping tool, PEW 9 series

- smallest known jaw capacity
- high crimping force due to optimum transformation ratios
- best value for money
- good, firm grip due to two-component handles
- ensures optimum, solder-free, electrical connections
- with forced lock for reliable crimping (releasable)
- large range of crimping tools for a wide range of applications
- compact, lightweight design
- Length: 215 mm
- Weight: 490 g



64 989...



Model	64 989...		Profile	Connectors	Application area	Crimping points	Capacity mm ²	Capacity AWG
PEW 9.10	020				coaxial connectors	3	RG 58, 59, 62, 71	
PEW 9.32	030				uninsulated connectors	4	0.5 - 10.0	20 - 7
PEW 9.45	040				uninsulated blade connectors	4	0.1 - 2.5	27 - 13
PEW 9.50	055				uninsulated blade connectors	3	0.5 - 6.0	20 - 10
PEW 9.60	060				insulated connectors	3	0.5 - 6.0	20 - 10
PEW 9.90	070				Wire end ferrules	5	0.25 - 6.0	23 - 10
PEW 9.91	085				Wire end ferrules	3	10.5 - 25.0	7 - 3

64 978 Cable lug assortment

in practical plastic box with lid, made of polycarbonate
Size 355 x 230 x 50 mm incl. partitioning materials

Contents:**...012:**

Cable lug rings, 50 pcs LIR: 1.5M5V; 2.5M5V; 6M6V
Plug connectors, 50 pcs LIP: 1.5R12V; 2.5R12V; 6R14V
Butt connectors, 50 pcs each LIB: 1.5B25VF; 2.5B25VF; 6B26VF
Tab receptacles, 50 pcs each LIF: 1.5F638R; 2.5F638R; 6F638R

...015:

500 pcs each: AEH 1.0/14; 1.5/14
250 pcs each: AEH 0.5/14; 0.75/14; 2.5/14; 4.0/17
100 pcs each: AEH 6.0/20
50 pcs each: AEH 10.0/22; 16.0/24



64 978 012

Volume	64 978...	
12 x 50 pcs from 0.5 - 6 mm ²	012	
12 x 50 pcs from 0.5 - 16 mm ²	015	

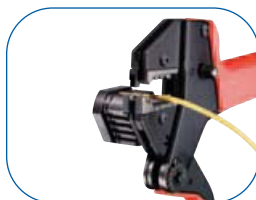
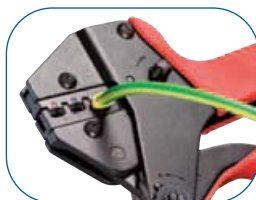


64 985 Crimping tool set

Contents of the case: Tool without crimping insert, tempered black finish, Allen key (AF 2.5 mm), spanner (AF 7 mm) and 2 spare screws (M4 x 10/M4 x 16 mm). The sets are individually equipped with crimping inserts and positioning aids by the user. The set can be equipped with a maximum of 7 crimping inserts and 4 positioning aids (locators)



64 985 103



Model	64 985...		Profile	Connectors	Application area	Crimping points	Capacity		Connector width
							mm ²	AWG	
PEW 12.31	131				Butt and pressure connectors	5	1.5 - 10.0	15 - 7	-
PEW 12.32	132				uninsulated connectors	4	0.5 - 10.0	20 - 7	-
PEW 14.45	145				uninsulated blade connectors	4	0.1 - 2.5	27 - 13	2.8 + 4.8
PEW 12.50	150				uninsulated blade connectors	3	0.5 - 6.0	20 - 10	4.8 + 6.3
PEW 12.60	160				insulated connectors	3	0.14 - 4.0	20 - 10	-
PEW12.71	171				turned contacts	4	0.14 - 4.0	25 - 11	-
PEW 12.71	173				locator for ...171 positioning aid	4	0.14 - 4.0	25 - 11	-
PEW 12.80	180				Western plug	3	4, 6, 8 pole		-
PEW 12.90	190				Wire end ferrules	5	0.25 - 6.0	23 - 10	-
PEW 12.91	191				Wire end ferrules	3	10.0 - 25.0	7 - 3	-
PEW12.10	210				coax connector	3	RG 58/59/62/71		-
PEW 12.159	215				coax connector	6	RG 58/174/316/188		-
PEW 12.674	267				Modular plugs	4	0.5 - 2.5	20 - 13	-

64 980 Crimping tool

Silver Line
by Weidmüller

- For wire end ferrules (according to DIN 46228 T. 1 and 4) with and without plastic collars
- forced lock ensures quality crimp
- unlocking possible in the event of incorrect operation
- only one die for the whole cross-section range
- rotatable die for introduction of the wire end ferrules from the front or from the side



64 980 101

Working range mm ²	64 980...		Length mm	Weight g
0.14 - 4	101		200	363



64 980 Crimping tools

for wire end ferrules, crimping according to DIN 46228, forced lock ensures quality crimp, one crimp nest for all cross-sections

Weidmüller



...001



...002



...003

Type	for wire end ferrules	64 980...		Wire end ferrule feed
4z	0.5 - 4 mm ²	001		from the front
6z	0.5 - 6 mm ²	002		from the side
16z	6 - 16 mm ²	003		from the side
25z	6; 10; 16; 25 mm ²	004		from the side

64 980 Crimping tools

for insulated or non-insulated cable lugs, (according to DIN 46234), forced lock mechanism ensures quality crimp, can be opened in any position if incorrectly pressed

Weidmüller

Type		64 980...	
insulated 0.5 - 6 mm ²		014	
not insulated 0.5 - 6 mm ²		015	
not insulated 10 - 25 mm ²		016	



...014



...015

64 975 Crimping tool

without transmission, with insulation stripping function 0.75 - 6.0 mm²; bolt cutting function and cable cutter

...100 for insulated cable lugs

...105 for uninsulated cable lugs and blade connectors

...110 for uninsulated blade connectors and for insulated cable lugs



64 975 100



64 975 105



64 975 110

For cross-sections mm ²	64 975...		Overall length mm
0.5 - 6	100		220
0.5 - 6	105		225
0.5 - 6	110		240

64 977 Crimping pliers

for insulated cable connections, litz wires and cable insulation are pressed in one operation, lever transmission, with forced lock, head made of precision cast steel, chrome alloy



64 977 001

For cross-sections mm	64 977...		Length mm
0.5 - 6	001		230

64 983 "PUNCHDOWN" termination tool

without knife, for the termination of twisted pair cables on terminal strips with cutting/terminal contacts

Product	64 983...	
Termination tool "PUNCHDOWN"	001	
Accessories:	003	
Blade for 110. terminal strips		
Blade for LSA-Plus strips with scissors function	005	



64 983 001



64 983 003

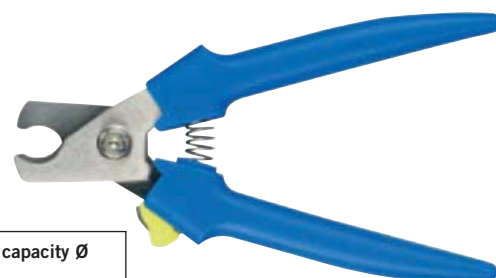


64 983 005

64 994 Cable shears

Shears head made of stainless steel, with opening spring, shockproof plastic handles and practical fastener, for pinch-free cutting of copper and aluminium cables

Overall length	64 994...		Cutting capacity Ø
			mm
160	016		10



64 994 016

64 995 Cable shears

made of special steel, for copper and aluminium control cables for easy cutting, 2-colour safety dip encapsulation 1000V

extra sharp cutting edges (54 HRC)

Overall length	64 995...		Cutting capacity Ø
mm			mm
210	021		20



64 995 021

64 995 Cable shears

with twin cutting edge, enables cables over Ø 20 mm to be cut too, due to initial and final cut the handles always remain in a comfortable position, even when cutting large cross-sections



64 995 023

Overall length	64 995...		Cutting capacity Cu + Al
mm			Ø mm / mm²
200	023		20 / 70



64 997 Wire rope and cable cutters

blades made of C 70, interchangeable and re-adjustable, for cutting armoured aluminium and copper cables, wire rope and round steel bar with a strength of 1600 N/mm², high-strength Al handles with rubber safety grips



64 997 019



64 997 060

Overall length mm	64 997...		Cable cutting capacity mm ²	Wire rope cutting capacity Ø mm	Round steel bar cutting capacity Ø mm
190	019		10	6	4
600	060		150	14	9

64 998 Ratchet action cable cutters for one-hand operation

Cutter head made of high-strength special steel, hardened and painted, low effort due to gradual cutting, ratchet feed, can be unlocked in any cutting position, even large cross-sections are cut without crushing the sheathing, for cutting copper and aluminium cables

Type: 001 - 002 Handles with two-coloured multi-component sheathing

VDE version, see 59 355...



64 998...

64 998 Replacement blades

for ratchet action cable cutters for one-hand operation

Overall length mm	64 998...		64 998... Replace- ment cut- ting heads		Cable cutting capacity Ø mm	Cross- section cutting capacity mm ²
250	001		801		32	240
280	002		802		52	380



64 998 801 - ...802

64 999 Cable cutters

for pinch-free cutting of copper and aluminium cables

- optimum mechanical advantage / leverage due to eccentric drive



64 999 001



64 999 002

Length	64 999...		Cutting capacity mm	Type
260	001		45	Copper cable 300 mm ² finely and multi-stranded, segmental conductor 4 x 70 mm ² multi-stranded, aluminium cable 400 mm ² multi-stranded, segmental conductor 4 x 95 mm ² solid, data/telephone & control cable 45 mm Ø
300	002		52	Copper cable 400 mm ² single and multi-stranded, segmental conductor 3 x 150 mm ² and 1 x 70 mm ² solid, aluminium cable 240 mm ² multi-stranded, data/telephone & control cable 52 mm Ø



64 992 Notching pliers

- for notching out recesses in plastic housing for electrical and sanitary installations
- easy, pulling cut (scissors principle)
- clean cutting edges, precise cutting of the rubber lip on the skirting board
- pliers with different cutting shapes and handle lengths are available
- compact design, low weight
- easy to handle, pliers open automatically
- cutting head: special tool steel
- surface tempered with black finish, red plastic handles



Cutting width	64 992...		Length
mm			mm
16	016		410
20	020		425

64 993 "Pelican" cutter

- for burr-free cutting of plastic panels, skirting boards and cable ducts
- very good cutting effect even up to the tip of the cutters
- uniform, consistent hand-force over the whole length of the cutting edge due to optimum leverage/mechanical advantage
- ergonomic handle design, good handling
- interchangeable cutting blades made of special hardened steel
- Type: tempered with black surface finish with ergonomically shaped two-component handles

**...006:**

- 60 mm cutting length
- **Without** support

...011:

- 110 mm cutting length
- **With** support for plastic panels and cable ducts

max. cutting length	64 993...		Type
mm			
60	006		without support
110	011		with support
Replacement blades			
60	106		suitable for ...006
110	111		suitable for ...011

64 996 Notching pliers for wiring ducts

- special pliers for notching out the web segments of wiring ducts
- variable cutting depth - flow principle
- 80 mm maximum within one cut
- clean, burr-free cut through to the bottom of the duct
- matrix with integrated ejector for cutting waste
- cutting punch with guide keys for centring the pliers
- pliers open independently
- material: special steel, tempered black finish surface
- ergonomically shaped two-component handles



Cutting width	64 996...		max. cutting depth	Length
mm			mm	mm
24	024		80 (variable)	260

64 996 024



65 002 Voltage testers

150 - 250 volt, handle made of cellulose acetate, colourless, transparent, insulated blade, works with single-pole to earth, captive resistance and glow discharge tubes, not replaceable, "GS" tested



65 002 001

65 002 002

Blade width mm	65 002...		Blade length mm	Overall length mm
3	001		60	135
3.5	002		107	200

65 003 Voltage testers

- VDE insulated single-pole voltage tester according to DIN 57680/6 / VDE 0680/6. Up to 250 V alternating voltage to earth
- VANADIUM-EXTRA blade, high-gloss polished and chrome plated, hardened over the whole length, tip tempered with black surface finish
- Cellulose acetate handle, clear, transparent, shockproof with clip



65 003 001

Blade width mm	65 003...		Blade length mm	Overall length mm
3.5	001		42	134

65 006 Voltage testers

150 - 250 volt, according to VDE 0680/6 and DIN 57680/6, handle made of black cellulose acetate, blade insulated, works with single pole to earth, detectable indication due to large glow discharge lamp, captive resistance and glow discharge tubes, non-replaceable, "GS" tested



65 006 001

65 006 002

Blade width mm	65 006...		Blade length mm	Overall length mm
3	001		70	165
3.5	002		100	185

65 010 Extra-low voltage detector

6 - 24 volt, brass housing, with connection cable and alligator clips, with needle tip for testing through car paints or cable strands, tip can be unscrewed



65 010...

Overall length	65 010...		Ø mm	Cable length mm
120	001		12	450
Spare lamp	002		-	-

65 009 Voltage testers

Voltage tester with cable test, low power consumption of 1.5 mA, the pin of the car check is equipped with a sliding mechanism which makes it unnecessary to strip insulation for the purpose of testing, cable length 130 cm, weight 57 g



65 009 001

Model	Nominal voltage range V DC	65 009...		Polarity (+/-)	Size mm
Car Check	3-48	001		ja	137 x 21 x 18

65 008 Voltage tester, non-contact



3 year warranty

...100: Testboy® 100

- Contactless voltage tester with visual display.
- Integrated high-performance LED torch. For fast and precise testing of live conductors!
- 110-1000V AC
- TÜV/GS IEC/EN 61010-1



65 008 100

...110: Testboy® 110

- Contactless voltage tester with visual display.
- Integrated high-performance LED torch. For fast and precise testing of live conductors!
- 12-1000V AC
- TÜV/GS IEC/EN 61010-1



65 008 110

...120: Testboy® 120

- Contactless magnetic field tester with visual display and integrated high-performance LED torch
- TÜV/GS IEC/EN 61010-1



65 008 120

The scope of supply of all models includes:

- 2 x batteries 1.5V AAA Micro

Model	65 008...		Measuring range	Size mm
Testboy 100	100		110 - 1000 V AC	160 x 25
Testboy 110	110		12 - 1000 V AC	160 x 25
Testboy 120	120		all magnetic fields	160 x 25

65 011 Testboy 40 N voltage tester



- For measuring direct and alternating voltages from 6 to 400V
- Phase search to the protective conductor
- User-friendly design with rubberised rubber handle
- TÜV/GS tested
- Overvoltage category CAT III 600V



65 011 040

Measuring range V	65 011...		Display	Size mm	Weight g
6 - 400	040		visual, 8 LEDs	120 x 60 x 30	100

65 013 Testboy 2000 N digital multimeter



- With integrated torch and contactless voltage sensor (detects alternating voltages through the insulation)
- Breakproof ABS housing
- Acoustic signal if resistance < 150 ohm
- ACV bandwidth 50-400 Hz
- Overvoltage category CAT III 600V



65 013 020

Measuring range V	65 013...		Display	Size mm	Batteries
up to 600	020		visual, LCD	140 x 70 x 35	2 x 1.5 V AAA LR 03

65 015 Voltage testers

BENNING

According to new international voltage tester standard IEC/ EN 61243-3 (DIN 0682-401) - increases safety when working with live voltages.



	DUSPOL® digital plus	DUSPOL® analog	DUSPOL® combi	DUSPOL® compact
Display	LCD digital	Plunger coil/LED	LED/LCD	LED
Display levels	1.5 - 750 V	12 - 750 V	12 - 750 V	12 - 750 V
Continuity test	-	-	LCD 600 kW	-
Phase sequence test	Yes/LCD	Yes/LCD	-	-
Single-pole	Yes	Yes	Yes	-
Phase test	LCD	LCD	LCD	-
Polarity test	Yes/LCD	Yes/LED	Yes/LED	Yes/LED
Load application via pushbutton	Yes IS = 200 mA	Plunger coil IS = 50 mA	Yes IS = 200 mA	Yes IS = 200 mA
Vibration alarm	Yes	-	Yes	-
Measuring point lighting	Yes LED	-	-	-
Degree of protection	IP64	IP64	IP64	IP64
65 015...	001	004	013	015

Note: Voltage testers/detectors which are used on electrical systems up to 1000 V must conform with the new standard IEC/EN 61243-3.

65 015 Continuity and voltage tester, contactless

020: Dutest Benning

- Reliable determination of incorrect wiring, contacting errors and cable interruptions
- High and low-resistance continuity test
- Acoustic indication via loud growler
- Visual display via high-contrast LEDs
- Luminous torch function
- Noise (external voltage) protected up to 400 V

...120: Testboy 20

- Conductor and continuity tester with integrated high-performance LED torch function.
- Acoustic and visual display,
- Current warner
- Contactless voltage test, voltage proof up to 400V.
- CAT III 400V,
- TÜV/GS IEC/EN 61010-1



	DUTEST	Testboy® 20
Display	LED	LED
Continuity test	Buzzer + LED 900 W/90 kW	Buzzer + LED 0-250 ohm
Voltage range	-	voltage proof up to 400 V
Degree of protection	IP 40	IP 44
Protection class	-	(3) Cat. III
Measuring range	-	all magnetic fields
Size	125 x 96 x 36	120 x 60 x 30
65 015...	020	120

Note: Voltage testers/detectors which are used on electrical systems up to 1000 V must conform with the new standard IEC/EN 61243-3.



65 024 Voltage tester

- Two-pole voltage test for direct and alternating voltages from 12-690V
- Acoustic continuity test
- Phase sequence test
- FI/RCD tripping (30mA)
- CAT IV 1000V,
- TÜV/GS IEC/EN 61243-3

...020: Profi LED

- With LED display

...030: Profi LCD

- With LCD display
- Resistance measurement up to 2000 ohm

Scope of supply:

- 2 x batteries type AAA



Display	65 024...		Voltage V (AC/DC)	Resistance ohm	acoustic signal ohm	phase display V AC	Temperature °C	Power supply V
10 LEDs	020		12-690	0-500	-	> 100 V AC	- 10 - 55	2 x 1.5
LCD 3.5-digit	030		12-690	0-2000	~ 35	> 100 V AC	- 10 - 55	2 x 1.5

65 026 Voltage testers**...001: Volt Check 3.1**

- PTC-controlled, electronic voltage tester
- for working on electrical systems and for testing for safe isolation (disconnection) from supply
- direct and alternating voltage from 6 V - 400 V.

...005: Combi Check 1.3

- Phase sequence display with clear statement
- Measuring range for direct and alternating current measurements from 6 - 690 V
- Acoustic signal for voltage and continuity test as well as phase test
- Acoustic indication of the conductor resistances for continuity test < 500 kW
- With test tip lighting

...010: Digi Check 3.2

- Two-pole microprocessor controlled voltage tester
- Four-digit LCD display
- Large measuring range from 5 V to 690 V
- Enables continuity and semi-conductor test
- The display can be "frozen" with the HOLD button for measurements in hard to access places.



Model	65 026...		Size mm	Mains voltage range V	Weight g
Volt Check 3.1	001		190 x 25 x 19	6 - 400 AC/DC	70
Combi Check 1.3	005		230 x 55 x 34	6 - 690 AC/DC	135
Digi Check 3.2	010		223 x 50 x 36	5 - 690 AC/DC	120

65 028 Voltage and continuity tester

- MultiSafe DSP 2
- Voltage tester for applied current < 600 V
- **Absolutely safe test tool with five test functions for all areas of power engineering.**
- Protective resistors in both test tips
- Voltage-proof over 12kV - CAT IV
- Voltage up to 1200 V
- Resistance up to 1999 kW
- Rotary field, phase and polarity tester
- Fully automatic test sequence
- Clear signals
- Robust housing




Type	65 028...	
Multisafe DSP 2	001	

65 017 Digital multimeter

Basic measuring types for electricity, voltage, resistance, continuity, diode, capacity and frequency.

Automatic and/or manual measuring range selection,

Overload protection in all areas, automatic cut-out if not used, robust housing types

	Benning MM1	Benning MM3
		
Scope of display	3200	1999
Basic accuracy	0.5 %	0.5%
Voltage AC	1 mV - 600 V	0.1 mV - 600 V
Voltage DC	0.1 mV - 600 V	0.1 mV - 600 V
Current AC	-	0.1 µA - 20 A
Current DC	0.1 µA - 3.2 mA	0.1 µA - 20 A
Resistance	0.1 W - 32 MW	0.1 W - 20 MW
Continuity/diode	Yes	Yes
Frequency	-	1 Hz - 200 kHz
Capacity	-	1 pF - 200 µF
Temperature	-	-
Interface	-	-
Software	-	-
Memory	Hold	-
Data logger function	-	-
Method of measurement	RMS	RMS
Measurement category	CAT I II 600 V	CAT II 600 V
65 017...	001	003



...001




...003

65 019 Digital current probe multimeter

for safe and contactless measurement of higher currents.

Direct and alternating current measurement up to 1000 A AC/DC

	Benning CM2	Benning CM3
		
Scope of display	3999	1999
Basic accuracy	0.5%	1.90%
Voltage AC	0.1 mV - 600 V	-
Voltage DC	0.1 mV - 600 V	-
Current AC	10 mA - 300 A	0.1 A - 600 A
Current DC	10 mA - 300 A	0.1 A - 600 A
Resistance	100 mW - 40 MW	-
Continuity	Yes	-
Frequency	-	-
MIN/MAX memory/ ZERO function	MAX ZERO	-
Measured value/ Peak memory	HOLD -	HOLD -
Method of measurement	RMS	RMS
Pincer opening max.	25 mm	38 mm
Measurement category	CAT II 600 V	CAT II 600 V
65 019...	002	003



...002



...003

75 422 Tool bag

for precision tools

- padded bag for sensitive equipment
- Two pockets with zip
- Handle, loop, belt
- Supplied without tools

For other tool storage systems, please refer to our "Plant & Equipment" catalogue.

Dimensions cm	75 422...		Weight g
24 x 18 x 3	001		700



75 422 001

65 032 Insulating tape

made of black plastic



Length m	65 032...		Width mm
25	001		19



65 032 001

65 038 Fish tapes

Perlon wires made from reinforced "Bayer-Perlon® Monofil", with solid steel ends and additional search springs, approx. 130 mm long, pulling eyebolts on both sides

Length m	65 038...	
10	021	
20	023	



65 038...

65 040 Adapter screw fitter

Adapter and contact screw fitter combined, can be used for 2 - 63 A adapter screws by rearranging, insulated handle

Overall length mm	65 040...	
105	042	



65 040 042

65 041 Scalpel

- For large stresses
- Handle made of forged steel, chrome-plated

MARTOR

completely made of steel



65 041 001

Overall length mm	65 041...	
125	001	
Spare blades, pack of 10	101	

65 042 Safety/automatic knife

- If the blade slips from the material being cut the blade automatically retracts into the handle
- body made of die cast zinc, ergonomic shape
- with 1 trapezoidal blade (60 x 19 x 0.65 mm)

Primat

automatic retraction



65 042 001

For right and left-handed persons

Length mm	65 042...	
142	001	

65 045 All-purpose knife

- strong housing design ensures long durability.
- Blocking mechanism prevents the blade from moving
- one-piece construction
- for easy blade change, without additional tools
- Up to 7 spare blades can be stored in the knife
- Lightweight for fatigue free working
- Ergonomically shaped handle
- Including 3 trapezoidal blades

STANLEY

65 045 001

Length mm	65 045...	
165	001	



65 047 All-purpose knife

Professional knife. Ergonomically shaped. Robust design yet light-weight. Ideal for cutting carpet, cork, vinyl, roofing, gypsum boards. The blade is safely locked with the help of the brass button.

Including 3 blades

...002: Case for titanium knife with practical belt loop

STANLEY

65 047...

Length mm	65 047...	
185	001	
Case	002	

65 050 Bag

for all all-purpose and safety knives, made of wearproof B-Tex with slide-in module for blade dispenser, belt loop and Velcro fastening



65 050 001

Length mm	65 050...	
180	001	

65 054 Combi film cutter

Safety due to concealed blade, handle made of glass fibre reinforced polyamide, substantially easier blade change, integrated metal platelet for slitting open the adhesive tapes of the cardboard box (can also be removed), effortlessly cuts thick films and foils, leather, cardboard box strapping made of plastic and safety straps, TÜV tested.

Important: Always cut strapping of cardboard boxes at 45° angle

MARTOR

65 054 001

Length mm	65 054...	
155	001	
Spare blade	65 076 016	

65 068 All-purpose knife

with fixed blade, all-purpose knife, body made of die cast zinc, ergonomic shape, with 1 trapezoidal blade (60x19x0.65)

Primat

65 068 001

Overall length mm	65 068...	
140	001	4.77

65 070 All-purpose knife

Safety knife **with 5 blade adjustment settings**, body made of die cast zinc, ergonomic shape, easy to push slider thanks to spring system, with 1 trapezoidal blade (60x19x0.65)

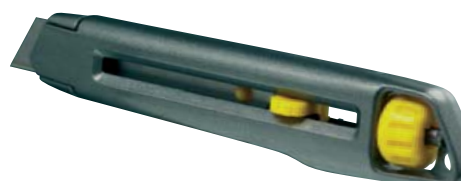
Primat

65 070 001

Overall length mm	65 070...	
155	001	

65 072 All-purpose knife, snap-off blade

ergonomically formed all metal, painted, with patented blade lock, various cutting settings, retractable blade, in the pushed forward position the blade can be fixed by the clamping system, as a result increased safety, including five spare blades in the handle

STANLEY

65 072 002

Cutter blade mm	Overall length mm	65 072...	
18.0	165	002	
9.0	135	003	



65 072 003

65 073 All-purpose knife, snap-off blade

...009: BIKO snap-off blade knife, with 3 blades, 9 mm (1 blade fitted, 2 blades in the magazine), stainless steel blade guide, body made of die cast zinc, ergonomic shape, lock button, with protective cap.

...018: BIKO snap-off blade knife, with 3 blades, 18 mm (1 blade fitted, 2 blades in the automatic loading magazine), the blades are loaded automatically, stainless steel blade guide, body made of die cast zinc, ergonomic shape, with India rubber inlays for optimum holding of the knife in the hand.

Primat

...009



...018

high-quality professional
version – all metal

Cutter blade mm	Overall length mm	65 073...	
9.0	145	009	
18.0	165	018	

65 074 All-purpose knife, snap-off blade

- Blade guide made of metal
- Handle made of unbreakable plastic
- Ergonomic shape

...051:

- Auto-stop locking system
- With practical fixing clip

...053:

- With pushbutton mechanism
- With practical packaging and paint tin opener

...055:

- With thumbwheel lock
- Anti-slip rubber handle inlay
- With practical packaging and paint tin opener

OLFA
CUTTERS & KNIVES

65 074 051



65 074 053



65 074 055

Cutter blade	65 074...		Weight g	Overall length mm
9.0	051		68	160
18.0	053		74	165
18.0	055		80	155

65 076 Blades

...004. ...005



...030



...035



...040 breakproof!



...045

Name	65 076...		Size mm	Type	suitable for knives	Pack of
Cutter blade	006		9 x 0.5	TIN	65 072 003, 65 073 009, 65 074 051	10
Cutter blade	000		18 x 0.5	TIN	65 072 002, 65 073 018, 65 074 053, 65 074 055	10
Cutter blade	004		18 x 112 x 0.5	Predetermined snap off points	65 072 002, 65 073 018, 65 074 053 65 074 055	10
Cutter blade	005		9 x 95 x 0.5	Pred. snap off points	65 072 003	10
Film blade	016		43 x 0.4	Standard strength steel	65 054 001	10
Trapezoidal blade	037		52 x 0.65	TIN	65 073 018, 65 074 053 65 074 055	10
Trapezoidal blade	030		53 x 0.65	Ice hardened	65 073 018, 65 074 053, 65 074 055	10
Trapezoidal blade	035		60 x 0.65	Ice hardened	65 073 018, 65 074 053 65 074 055	10
Trapezoidal blade	040		60 x 0.65	Bimetal	65 073 018, 65 074 053, 65 074 055	10
Hook blade	045		50 x 0.65	Ice hardened	65 073 018, 65 074 053 65 074 055	10

65 077 Belt knife

1-piece, folding, 70 mm



65 077 001



65 077 003

Type	65 077...		Overall length mm	Weight g
lightweight	001		180	84
heavy	003		205	130



65 079 INOX work knife

1-piece, with serrated cutting edge, rustproof with special rigid plastic shells, blade locking via pushbutton (safety knife)



65 079 001

Overall length mm	65 079...	
195	001	

65 080 Insulation knife

Stainless steel, hardness: 57 HRC, double-bladed, "saw finish" for dense and hard material, "serrated" for soft and lightweight material, blade tip suitable for drilling holes, e.g. for wire ropes, cables, stable, nevertheless lightweight and handy polypropylene handle, with finger guard



65 080 001



65 080 002

Blade length mm	65 080...	
200	001	
280	002	

65 082 Multi-functional tool

made of stainless steel, with the following tools:

Combination pliers with wire cutters, 3 slot-head screwdrivers, Phillips screwdriver, awl, ruler with metric and imperial scale 20 cm long, can / bottle opener, metal / wood file, knife, with belt bag



65 082 001

Length folded together mm	65 082...	
100	001	

65 083 Multi-functional tool

Material: 100% stainless steel, 14-piece in leather holster.

...001:

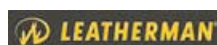
- With new pliers design and scissors with teeth for good grip and clean cutting.

- Zytel® handle inserts ensure ergonomic handles.

...003:

- Successor of the highly popular Wave multi-tool.

- With 2 double-sided bits: Phillips and jeweller's screwdriver



The original!



65 083 001



65 083 003

Type	65 083...		Weight g	Length mm
Fuse TM	001		170	102
Wave 2004 TM	003		241	102

65 085 Pocket tools

Original Swiss tool from VICTORINOX - high-quality, precise and functional.



...001



...003



...005



...007

Number of functions	65 085...		Length mm	Special / additional features
10	001		60	Ball point pen, lamp function (red)
11	003		90	Tooth pick, tweezers, can opener
11	005		110	Large blade latches into place (fixed)
34	007		90	Scissors, pliers, double bits



65 102 Magnastat soldering iron WELLER

Mains voltage soldering iron with automatic temperature control and energy reserve, the Magnastat system provides above-average maintained heat supply and limits the energy supply when the tool is running at no load, the working temperature is chosen via solder tips with temperature sensor, 230 V

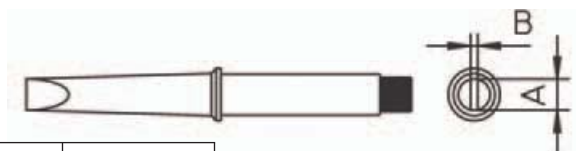


65 102 001

Type	65 102...		Power watt
W 61 C	001		60

65 104 Long-life soldering tips WELLER

with heat sensor, made of copper, with special scale resistant electroplated coating, for soldering iron Prod. No. 65 102...



65 104...

Type	65 104...		Width mm	Temperature range	Type
CT 5 A7	004		1.6	370°C	Flat shape
CT 5 C7	007		3.2	370°C	Flat shape

Further soldering tips available on request

65 115 Magnastat soldering station WELLER

Extra-low voltage soldering iron with magnetic temperature sensor, automatic control ensures fast heating of the soldering tip and maintains the heat supply during soldering, the temperature is adjusted by changing the soldering tip, temperature range 260-425 °C, isolating transformer 220/24 volt, soldering iron TCP-S, 24 volt, with soldering tip PT-B7 and soldering iron holder with cleaning sponge



65 115 001



65 115 101

Type	65 115...		Power watt	Voltage Volt
WTCP-51	001		50	220/24
Replacement soldering iron TCP-S, 24 volt, 50 watt with soldering tip ETB	101		-	-
Replacement magnetic switch for soldering iron TCP-S	103		-	-
Replacement cleaning sponges for soldering iron holder (pack of 5)	104		-	-

65 117 Long-life soldering tips WELLER

for soldering iron Prod. No. 65 115..., made of copper, electroplated finish, with temperature sensor



65 117...



65 117...

Size	65 117...		Width mm	Temperature °C	Type
PT - H7	002		0.8	370	flat
PT - A7	004		1.6	370	flat
PT - B7	006		2.4	370	flat
PT - C7	008		3.2	370	flat
PT - K7	010		1.2	370	Long
PT - L7	012		2	370	Long
PT - O7	016		0.8	370	long, tapered
PT - L8	112		2	400	Long
PT - M8	114		3.2	400	Long
PT - O8	116		0.8	400	tapered

65 120 Electronic soldering stations WELLER

All stations have the following common features: Protection class I, equipotential bonding (normal state hard earthed), antistatic housing, automatic tool detection, EGB proof

...201 and ...205 for applications with lead-free solder



65 120 001

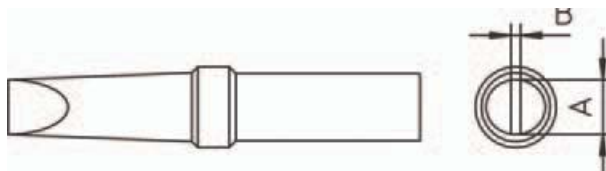


65 120 201

Type	65 120...		Power watt	Type	Soldering iron
WS 51	001		50	analog electronic controls Temperature adjustment with rotary potentiometer Temperature range: 150 - 450°C	LR 21. 24 V 50 watt ET series soldering tips
Replacement soldering irons	101		50	LR 21, 24 V, 50 watt, with soldering tip	
WS 81	201		80	analog electronic controls Temperature adjustment with rotary potentiometer Temperature range: 150 - 450°C Key switch	WSP 80. 24 V 80 watt LT series soldering tips see 65 121...
WSD 81	205		80	digital electronic controls Temperature adjustment via pushbuttons Temperature drop after time (setback) 3-digit digital display for ACTUAL and SETPOINT VALUE Temperature range: 50 - 450°C	WSP 80. 24 V LT series soldering tips see 65 121...

65 121 Soldering tips WELLER

for soldering station Prod. Prod. No. 65 120...



65 121...

Type	65 121...		Type	65 121...		Width mm	Type
ET - H	002		LT-H	102		0.8	Flat shape
ET - A	004		LT-A	104		1.6	Flat shape
ET - B	006		LT-B	106		2.4	Flat shape
ET - C	008		LT-C	108		3.2	Flat shape
ET - D	010		LT-D	110		4.6	Flat shape
ET - K	012		LT-K	112		1.2	Flat shape
ET - L	014		LT-L	114		2.0	Flat shape
ET - M	016		LT-M	116		3.2	Flat shape
ET - S	018		LT-S	118		0.4	Long shape, tapered
ET - O	020		-	-	-	0.8	Long shape, tapered

65 130 Multi-tip series, electronic soldering iron Ersa

230 volt

- low weight
- compact design
- very good guiding due to short distance between solder tip and handle
- industry tested PTC heating elements

Soldering tips under 65 137...

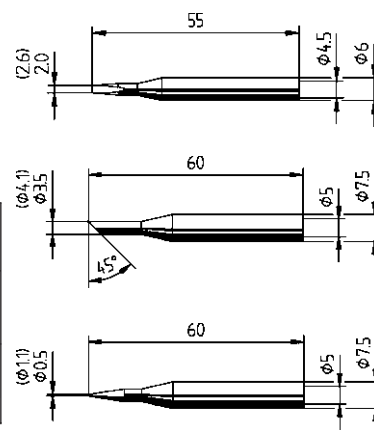


65 130...

Power watt	65 130...		Heating up time approx. sec	Soldering tip temperature
15	002		60	350°C
25	003		60	450°C

65 137 “ERSADUR” long-life soldering tips **ERSA**nickel plated, for soldering irons **Prod. No. 65 130...** and **65 168...**

Type	watt	65 137...	
bevelled 3.6 mm	15	101	
pencil point 1.1 mm	15	104	
chisel shaped 2.6 mm	15	108	
bevelled 4.1 mm	25	201	
pencil point 1.1 mm	25	204	
chisel shaped 3.1 mm	25	208	

**65 140 Standard electric soldering iron****ERSA**

230 volt

- tried and tested tradesman soldering iron
- for work with greater heat requirement, e.g. tin-plating copper cables 1.5 mm² to 10 mm²
- can be used for joining copper plates and pipes as well as for lead glazing

Soldering tips under **65 143...****65 141 Replacement heating element****ERSA**for “ERSA Standard” electric soldering iron **Prod. No. 65 140...**

Power watt	65 140...		65 141...		Heating up time approx. min.	Soldering tip temperature
50	001		001		3	400° C
80	002		002		3	410° C
150	003		003		3	450° C

65 143 “ERSADUR” long-life soldering tips **ERSA**

for “Standard” soldering iron 65 140...

Type	Power watt	65 143...	
bent, chisel shape 3.1 mm	50	001	
bent, chisel shape 4.8 mm	80	101	
chisel shape 4.8 mm	80	104	
bent, chisel shape 5.3 mm	150	201	
chisel shape 5.3 mm	150	204	

**65 145 Electric hatchet style soldering iron** **ERSA**

230 volt

- universal soldering iron for sheet metalworking
- suitable for installation work as well as working on collectors and copper rails
- also suitable for car body evening out work and lead glazing

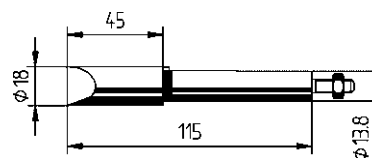
**65 147 Replacement heating element**for electric hatchet style soldering iron **Prod. No. 65 145...**

Power watt	65 145...		65 147...		Heating up time approx. min	Soldering tip temperature
200	001		001		5	470° C
300	002		002		5	470° C
550	003		003		7	600° C



65 149 Copper soldering tips

scale resistant, for electric hatchet style soldering iron **Prod. No. 65 145...**, both sides with 60° angled face



Type	Power watt	65 149...	
chisel shape 18 mm	200	001	
chisel shape 25 mm	300	004	

65 160 Electric soldering iron

230 V

- all-purpose soldering iron tried and tested millions of times
- diverse uses for trade and service soldering tasks
- easy to fit rubber support disc

ERSA

65 160...

Power watt	65 160...		Heating up time min	Soldering tip temperature
30	001		2	380 °C
40	002		2	420 °C

65 163 “ERSADUR” long-life soldering tips**ERSA**

for electric soldering iron **Prod. No. 65 160...**

Type	Power watt	65 163...	
chisel shaped, straight	30/40	001	
angled	30/40	004	
pencil point	30/40	008	



65 163...

65 168 Electronic soldering iron

230 volt

- low weight
- compact design
- very good guiding due to short distance between solder tip and handle
- industry tested PTC heating elements



65 168 001

Power watt	65 168...		Heating up time sec.	Soldering tip temperature °C
16	001		60	350

For soldering tips, see Prod. No. 65 137 101 and 65 137 104

65 174 Multi-TC electric soldering iron**ERSA**

- Powerful temperature-controlled all-purpose soldering iron
- temperature sensor positioned directly under the soldering tip
- PTC heating element for fast heating up
- very high heating efficiency due to internal heating of the soldering tips
- performance class comparable with 150W standard iron
- very large choice of tips
- can be used for microelectronics through to tinning copper cables and lead glazing
- by dispensing with mains transformer and using heat resistant mains cables is ideally suited for service and maintenance

the soldering station
in the handle



65 174 002

For replacement soldering tips, please refer to Prod. No. 65 185...

65 174...	
002	

Voltage:	230 V~
Power:	75W / 350°C
Heating up power:	up to 285 W
Heating up time:	approx. 35s to 300°C
Control technology:	SENSOTRONIC
Temperature range:	250 - 450°C
Weight without supply cable:	approx. 60 g
0760CD	ERSA Multi-TC with ERSADUR long-life tip 842 CD and A 18 stands



65 177 Multi-Sprint quick soldering gun**ERSA**

230 volt

- PTC heating element with 150 W heating output
- very large choice of tips for microelectronics through to lead glazing
- high efficiency due to internally heated solder tips
- heat supply is controlled by pressing the pushbutton
- particularly suitable for service technicians

Power watt	65 177...		Heating up time
75	001		20 s

For soldering tips, see Prod. No. 65 185...



65 177 001

65 181 Soldering station**ERSA**

- 60 W voltage
- Preferably suitable for smaller and medium-sized soldering areas
- Electronic temperature control (ERSA RESISTRONIC)
- With ceramic PTC heating element
- Fast heating up due to high initial power
- High thermal efficiency due to internal heating

Analog 60 model**...001:**

- With Basic tool soldering iron

Analog 60A model**...002:**

- Completely anti-static according to MIL-SPEC/ESA standard
- With Ergo tool soldering iron

RDS 80 model**...003:**

- 80 W voltage
- Power Bargraph display
- Calibration function
- Power - Off function
- With RT80 soldering iron



65 181 001



65 181 003

Model	65 181...		Voltage watt	Heating up time s	Temperature range °C
Analog 60	001		60	60	150 - 450
Analog 60 A	002		60	60	150 - 450
RDS 80	003		80	40	150 - 450

**65 183 DIG2000 soldering station
complete with "Power Tool" soldering iron****ERSA**

- microprocessor controlled soldering station,
- Continuously variable control
- Digital setpoint and actual value display
- 4 program memory for temperature setpoint values
- Automatic tool detection
- Stand-by function 0 - 60 minutes
- Highly precise temperature control with digital PID algorithm based on sensotronic principle
- PTC heating element with high heating output
- Calibration of the tip temperature with the specified setpoint
- Internally heated tips
- Separate connection for equipotential bonding
- For soldering tips, see **Prod. No. 65 185...**



65 183 002

DIG 203A	Technical data	65 183...	
Supply voltage:	230 V~, 50-60 Hz	002	
Secondary voltage:	24 V~		
Power:	80 W		
Temperature range:	continuously variable 50°C - 450°C		
Functional display:	4-digit LED display with menu control		
Type:	totally insulated, anti-static according to MIL-SPEC/ESA standard		
Heating up time:	approx 40 s (to 280°C)		

65 185 Long-life soldering tips

for fast soldering gun Prod. No. 65 177...

and for soldering stations Prod. No. 65 181... , 65 183...

ERSA

Type	65 185...		Type
832 UD	001		pencil tip, extended, 0.4 mm diameter
832 SD	002		pencil point, extended, 0.8 mm diameter
832 BD	003		pencil point 1.0 mm diameter
832 KD	004		chisel shaped, extended, 2.2 mm diameter
832 CD	005		chisel shaped 2.2 mm
832 ED	006		chisel shaped 3.2 mm
832 VD	007		chisel shaped 5.0 mm



65 188 Independent 75 gas soldering set "Basic Set"

ERSA

- Maintenance and service technicians
- with piezo ignition
- continuously controllable output
- after completing the soldering work, simply put on the cap
- run with standard butane
- large choice of tips
- supplied in transport case with reserve space for other tips
- Areas of use: Electronics, electrical engineering, installation, model making

Scope of supply

a gas soldering iron with fitted catalyst tip, a stand and a sponge holder with cleaning sponge



for demanding soldering tasks
without power supply

65 188 Independent 130 "Basic Set" gas soldering set

ERSA

as gas soldering set Independent 75; however, with an output of 25-130 watt



Power W	65 188...		Heating up time Sec.	Soldering tip tempera- ture max.	Weight g	Ignition
15 - 75	005		30 to 183°C	approx. 500°C	73	Piezo
25 - 130	025		30 to 183°C	approx. 580°C	121	Piezo

65 189 Accessories

ERSA

- for gas soldering sets Prod. No. 65 188...

Name	65 189...		Type	suitable for
Replacement gas cartridge	006		100 ml	-
Replacement soldering tip	010		chisel shaped, 1.0 mm Ø	65 188 005
Replacement soldering tip	013		chisel shaped, 3.2 mm Ø	65 188 005
Replacement soldering tip	014		bevelled, 4.8 mm Ø	65 188 005
Hot gas nozzle	015		-	65 188 005
Reflector plate	016		for hot gas nozzle	65 188 005
Burner nozzle	017		-	65 188 005
Hot blade	018		-	65 188 005
Replacement soldering tip	110		Tip 1.0 mm, chisel shaped	65 188 025
Replacement soldering tip	113		Tip 3.2 mm, chisel shaped	65 188 025
Replacement soldering tip	114		Tip 4.8 mm, bevelled	65 188 025
Hot gas nozzle	115		-	65 188 025
Reflector plate	116		-	65 188 025
Burner nozzle	117		-	65 188 025
Hot blade	118		-	65 188 025



65 206 VAC X desoldering gun

the standard multi-purpose desoldering pump.

high intake capacity, ergonomic shape.

The anti-static setup enables desoldering work on modules and sub-assemblies at risk from electrostatic. The long, slender desoldering tip can also be used on very tightly assembled printed circuit boards. Cleaning the pump and replacing the desoldering tips is easy



65 206 010

65 207 Replacement desoldering tip

- Pack

Intake volume ccm	65 206...		65 207...	
11.3	010		010	

91 540 Clevis-type gas igniter

with cylindrical file and flint

Flint mm	91 540...	
3 x 20	201	



91 540 201

91 540 Gas igniter gun

with cylindrical file and flint

Flint mm	91 540...	
2.6 x 5	211	



91 540 211

91 541 Flints

for gas igniters

Dimension mm	for gas igniters	91 541...		Pack
3.0 x 20.0	91 540 201	301		50
2.6 x 5.0	91 540 211	302		100



91 541...

92 995 Solder bars to DIN EN 29453, lead-free

Three-square bars, 400 mm long, Pb free



Name	Melting range °C	92 995...	
Sn-95.5 Ag 3.8 Cu 0.7	217	101	
Sn-99.3 Cu 0.7	227	103	
S-Sn 97 Ag 3	221 - 240	105	
S-Sn 97 Cu 3	230 - 250	107	



92 995...

92 996 "Kolo" solder wire to DIN EN 29453**FELDER**
Löttechnik

soldering flux filled soft solder wire to DIN EN 294 54.1, 1.1.1.B (F-SW 31) for electrical engineering and telecommunications soldering. Soldering flux based on natural or modified natural resins (colophonium) without additives. The soldering flux residues can remain in the soldered area

Ø mm	Designation	Tin content %	Coil size kg	92 996...	
1.0	S-Pb 60 Sn 40	40	0.25	201	
1.0	S-Pb 60 Sn 40	40	0.5	202	
1.0	S-Pb 60 Sn 40	40	1.0	203	
1.5	S-Pb 60 Sn 40	40	0.25	211	
1.5	S-Pb 60 Sn 40	40	0.5	212	
1.5	S-Pb 60 Sn 40	40	1.0	213	
2.0	S-Pb 60 Sn 40	40	0.25	221	
2.0	S-Pb 60 Sn 40	40	0.5	222	
2.0	S-Pb 60 Sn 40	40	1.0	223	
3.0	S-Pb 60 Sn 40	40	0.25	231	
3.0	S-Pb 60 Sn 40	40	0.5	232	
3.0	S-Pb 60 Sn 40	40	1.0	233	
1.0	S-Sn 60 Pb 40	60	0.25	241	
1.0	S-Sn 60 Pb 40	60	0.5	242	
1.0	S-Sn 60 Pb 40	60	1.0	243	
1.5	S-Sn 60 Pb 40	60	0.25	251	
1.5	S-Sn 60 Pb 40	60	0.5	252	
1.5	S-Sn 60 Pb 40	60	1.0	253	
2.0	S-Sn 60 Pb 40	60	0.25	261	
2.0	S-Sn 60 Pb 40	60	0.5	262	
2.0	S-Sn 60 Pb 40	60	1.0	263	
3.0	S-Sn 60 Pb 40	60	0.25	271	
3.0	S-Sn 60 Pb 40	60	0.5	272	
3.0	S-Sn 60 Pb 40	60	1.0	273	



92 996...

65 209 Solder wire dispenser**ERSA**

- optimum add-on for the soldering workplace
- heavy baseplate - excellent stability
- holds of different soldering wire reels (250/500/1000 g)
- optimum unreeling due to conical centring nut
- flexibly supported solder wire guide
- Add-on kit for 2nd reel available as an option
- Supplied without solder wire

Coil Ø mm	65 209...		For solder wire reels g
14	001		250, 500, 1000



65 209...

**92 998 Soldering fluid,
DIN EN 29454.1, 3.1.1.A (F-SW 12)****FELDER**
Löttechnik

Soldering flux for soft soldering of iron, steel, copper, brass, lead and tin plate (for general soldering work)

Container	92 998...	
100 ml bottle	101	
250 ml bottle	102	
500 ml bottle	103	
1000 ml bottle	104	



92 998...

**92 998 Soldering paste to
DIN EN 29454.1, 3.1.1.C (F-SW 21)****FELDER**
Löttechnik

Soldering flux for soft soldering of copper and copper alloys for general soldering work

Container	92 998...	
100 g tin	202	
250 g tin	203	
500 g bottle	205	
1000 g bottle	207	



92 998...

65 526 Ammonium chloride blocks

for cleaning soldering irons

Size mm	65 526...		Supplied form
65 x 45 x 40	001		open
100 x 45 x 20	002		Plastic tub

**65 528 Special plastic bottle**

with sealing lip screw fitting, made from unbreakable, acid and chemical resistant polyethylene, transparent, therefore contents and quantity can always be checked

- printed with "Lötwasser" (soldering fluid)

For volume ccm	65 528...		Type
150	001		yellow transparent



65 528 001

65 615 Multi-purpose soldering lamp

with burner for soft and hard soldering and for other commercial or DIY work, one-hand operation, very fine gas supply control possible, cartridge is protected by a steel bell. Very high impact strength, handle made of polypropylene

- For cartridges, see **Prod. No. 65 618...**

Type	65 615...	
One-hand operation due to adjusting knob	001	
with automatic ignition	003	
with automatic ignition and pilot light lever	005	



65 615...

65 618 Cartridge

with powerful butane/propane mix

- suitable for soldering lamps **Prod. No. 65 615...**

Volume gr	65 618...	
190	001	



65 618 001

65 624 Additional burnerfor soldering lamps **Prod. No. 65 615...**

Name	65 624...		Type
Hard solder burner	001		with distinct, bundled flame for hard soldering in the copper pipe installation and for other hard soldering work on iron, steel, Inox and aluminium
Flat burner	002		with wide flame for uniform heating of surfaces, for burning off paint, tin-plating, browning wood, etc.
Soldering iron	003		for soft soldering work without direct flame, attach to fine solder burner Prod. No. 65 624 004
Fine solder burner	004		with its own nozzle, narrow, pointed flame for soft and hard soldering of intricate soldering points



65 624 001



65 624 002



65 624 003



65 624 004

66 001 Wad punch

DIN 7200, Shape A, extra quality, interior conical, painted handle, punch bright, for production of seals and sealing rings from rubber, leather, felt, etc.

Size mm	66 001...	
2	002	
3	003	
4	004	
5	005	
6	006	
7	007	
8	008	
9	009	
10	010	
11	011	
12	012	
13	013	
14	014	
15	015	
16	016	
17	017	
18	018	
19	019	
20	020	
21	021	
22	022	
23	023	
24	024	
25	025	
26	026	
27	027	
28	028	
29	029	
30	030	
32	032	
34	034	
35	035	
36	036	
38	038	
40	040	
42	042	
44	044	
45	045	
46	046	
48	048	
50	050	
52	052	
55	055	
56	056	
58	058	
60	060	
65	065	
70	070	



66 001...

66 005 Hole inserts

for trouble free punching of rubber, cardboard, cork, felt etc, by placing two punchers in the holder, sealing rings can be made in one work step

Number of blades	66 005...		Hole Ø mm 2 mm increasing
10	001		3 - 20
15	002		3 - 30
20	003		3 - 40
25	004		3 - 50
30	005		3 - 60



66 005...

Screw punch / Sheet drill

- Punch holes in thin walled materials quickly, effortlessly, neatly and without fins with few hand motions.
- Improved support using 3-point cut, therefore less deformation of the punched part. This prevents damage to the tension bolt.
- The ball bearing makes handling even easier and faster. Force exertion is reduced by approx. 67%.
- Before using the screw punch the tension bolt must absolutely be lubricated with cutting spray or cutting paste.
- The metric tension bolts on the RUKO screw punches are the highest quality grade and therefore are designed for extreme loads. If lost, conventional fine thread metric screws can also be used for a short term replacement.
- Especially well suited for use with spanners, hand hydraulic punches or foot hydraulic punches.
- Special sizes are available on request



Guideline values for the use of screw punches

Tension bolt mm	Steel sheet mm	Stainless steel sheet mm	Non-ferrous metal and light-alloys mm	Plastics
M 8.0 x 1.0	2	1	4	4
M 10.0 x 1.0	2	1	4	4
M 12.0 x 1.5	3	2	4	4
M 16.0 x 1.5	3	2	4	4

66 010 Screw punch / Sheet drill

- 3-point cut stamp
- Material thickness up to 4mm
- Material: special thickness
- Tension bolt: metric fine thread above MF 10 strength class 12.9
- Suitable for steel sheet, stainless steel sheet, non-ferrous and light alloy metals, plastics



66 012 Screw punch / Sheet drill

- Design like 66 010..., however with ball bearing screws



66 010...

with ball bearing screws



66 012...

Hole Ø mm	Opening dimensions	Tension bolt	66 010... Standard	66 012... Ball bearing
12.7	M 12 / PG 7	MF 8	127	-
14.0	-	MF 8	140	-
15.2	PG 9	MF 10	152	152
16.0	-	MF 10	160	160
16.5	M 16	MF 10	165	165
18.0	-	MF 10	180	180
18.6	PG 11	MF 10	186	186
20.0	-	MF 10	200	200
20.4	M 20 / PG 13.5	MF 10	204	204
21.0	-	MF 10	210	210
22.0	-	MF 10	220	220
22.5	PG 16	MF 10	225	225
24.0	-	MF 10	240	240
25.0	-	MF 10	250	250
25.4	M 25	MF 10	254	254
27.0	-	MF 10	270	270
28.3	PG 21	MF 12	283	283
30.0	-	MF 12	300	300
31.0	-	MF 12	310	310
32.0	-	MF 12	320	320
32.5	M 32	MF 12	325	325
35.0	-	MF 12	350	350
37.0	PG 29	MF 12	370	370
38.0	-	MF 12	380	380
40.0	-	MF 12	400	400
40.5	M 40	MF 16	405	405
47.0	PG 36	MF 16	470	470
48.0	-	MF 16	480	480
50.0	-	MF 16	500	500
50.5	M 50	MF 16	505	505
51.0	-	MF 16	510	510
54.0	PG 42	MF 16	540	540
55.0	-	MF 16	550	550
60.0	~ PG 48	MF 16	600	600
63.5	M 63	MF 16	635	635



66 018 Screw punch sets

in plastic case



Set contents	66 018...	
6 screw punches Ø 15.2 (PG 9) - 18.6 (PG 11) + 20.4 (PG 13.5) - 22.5 (PG 16) + 32.0 mm + 28.3 (PG21) 1 cone cutter drill bit size 1 1 cutting paste 30 g 2 tension bolts M 10 x 1.0 x 45 quality grade 12.9 1 tension bolt M 12 x 1.5 x 55 quality grade 12.9	002	
8 screw punches Ø 15.2 (PG 9) - 18.6 (PG 11) - 20.4 (PG 13.5) - 22.5 (PG 16) - 28.3 (PG 21) - 37 - 47= PG 36 - 54= PG 47 1 cone cutter drill bit size 2 Cutting paste 30 g 2 ball bearing screws M 10 x 1.0 x 50 quality grade 12.9 1 ball bearing screw M 12 x 1.5 x 60 quality grade 12.9 1 ball bearing screw M 16 x 1.5 x 70 quality grade 12.9	009	



66 018 002



66 018 009

66 022 Screw punch sets

with compact hydraulic punch in plastic case



Set contents	66 022...	
1 Hydraulic compact hand punch 8 screw punches Ø 15.2 (PG 9) - 18.6 (PG 11) - 20.4 (PG 13) - 22.5 (PG 16) - 28.3 (PG 21) - 37.0 - 47.0 54.0 mm 1 cone cutter drill bit size 2 1 cutting paste 30 g 1 spacer bushing 1 adapter screw M 10 x 1.0 mounting 3/4" UNF 1 adapter screw M 12 x 1.5 mounting 3/4" UNF 1 adapter screw M 16 x 1.5 mounting 3/4" UNF	001	



66 022 001

66 025 Spare parts

compatible with screw punch



Designation	66 025...	
1 adapter screw M 10 x 1.0 mounting 3/4" UNF	003	
1 adapter screw M 12 x 1.5 mounting 3/4" UNF	005	
1 adapter screw M 16 x 1.5 mounting 3/4" UNF	008	
Replacement screw M 8 x 1.0 x 40 quality grade 10.9	010	
Replacement screw M 10 x 1.0 x 45 quality grade 12.9	012	
Replacement screw M 12 x 1.5 x 55 quality grade 12.9	015	
Replacement screw M 16 x 1.5 x 60 quality grade 12.9	018	
Replacement screw with ball bearing M 10 x 1.0 x 50 quality grade 12.9	020	
Replacement screw with ball bearing M 12 x 1.5 x 60 quality grade 12.9	023	
Replacement screw with ball bearing M 16 x 1.0 x 70 quality grade 12.9	025	



66 025 010 -...018



66 025 020 -...025

66 035 Lever-action revolving punch pliers

- ergonomically shaped plastic handles
- with 2 - 2.5 - 3 - 3.5 - 4 - 4.5 mm punches
- 70% less force

70% less force



66 035 001

Length mm	66 035...	
250	001	

66 037 Revolving punch pliers

- made of sheet steel
- with 2 - 2.5 - 3 - 3.5 - 4 - 4.5 mm punches



66 037 001

Overall length mm	66 037...	
220	001	



66 039 Circular template cutter

with one blade, polished wooden handle and millimeter divisions, for cutting circular templates and sealing rings of rubber, leather, paper, pressboard and plastic. By using an additional blade holder (see Fig. 2) and another blade, sealing rings can be made in one work step.



Fig. 2:
incl. additional blade holder and blade

Size	66 039...		For circular Ø mm
1	001		200
3	003		400

66 049 Seal, ring and plate cutter device

for fast cutting of seals, rings and plates of klingerit, rubber, asbestos, leather, felt, cardboard, plastic, hard plastics and soft metals, as well as all cuttable materials, **the inside and outside cuts can be done with size 2 in one work step**, fixed dimension scales are provided on the blade carriers for exact and fast setting of the cutting tools, the cutting tools are adjustable in every direction, a few turns are sufficient to perform a clean and error-free cut, the operation of the device is easy and handy, including table and a blade of tool steel, cutting table thickness 20 mm



66 049...

Size	Cutting range mm	Cutting table mm	66 049...	
1	30 - 300	420 x 320	001	
2 *	30 - 300	420 x 320	002	
3	30 - 600	700 x 620	003	

* Inside and outside cut at the same time

66 051 Replacement cutting blade

for ring cutting device No. 66 049...

Type	66 051...	
Tool steel	001	
Sintered carbide	002	



66 051 001



66 051 002

Extensive range of sealing material available on request. Contact your field sales technical consultant

Novatec Premium II

Kevlar fibres in a graphite compound
Colour: blue with black honeycomb pattern and anti-stick coating
Working temperature: max. 250°C
Pressure: max. 100 bar,
Compliance with: DVGW, HTB; KTW; WRC; BAM; TA-Air
Intended use: Universal seal, for piping in the general chemical industry, in system, equipment and machine construction, and in the beverage and food industry,
Available in plates with thicknesses of 0.5; 1.0; 1.5; 2.0 und 3.0mm.



Novaphit SSTC

Graphite with expanded metal insert from 1.4404
Working temperature: max. 550°C
Compliance with: DVGW; HTB; KTW; WRC; BAM;
Intended use: For piping in the general chemical industry, in system, equipment and machine construction, and in the beverage and food industry and power station area.




For all applications, even under extreme conditions and cycling load.
Available in plates in thicknesses 1.0; 2.0 mm and 3.0 mm.

- Other seal materials of fibre materials, e.g. (Novapress Universal) and elastomer materials such as NBR, EPDM and FPM are available in rolls or pre-cut.
- All seal materials can also be delivered as DIN or ANSI dimensions or cut to drawing on short order.
- More flat seals, such as grooved, spiral and rubber steel seals on request.
- Elastomer formed parts and O-rings to standard or application-specific from NBR, EPDM, FEPV, PTFE and FFPM.
- Axial face seals in various designs on request.

66 103 Tool markers

for self-marking of numbers, with beaded edge and hanger hole,
diameter 30 mm, per piece

Type	66 103...		
Brass	001		20
Aluminium	002		50



66 103 001



66 103 002

66 105 Marking template sets

Numbers 0 - 9, zinc plate

66 107 Marking template sets

Capital letters A - Z, zinc plate

Font height mm	66 105... 0 - 9		66 107... A - Z	
30	030		030	
40	040		040	
50	050		050	
60	060		060	
80	080		080	



66 105...



66 107...

66 110 Number punch sets

Numbers 0 - 9, normal quality, for marking workpieces with a
strength up to 120 kp/mm², hardness on the engraving 58 - 60 HRC,
type face acc. to DIN 1451, in plastic box

	0	0	0	0	0	0	0	0	0
Font height mm	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10.0	12.0
66 110...	020	025	030	040	050	060	080	100	120



66 110...

66 111 Letter punch sets

Capital letters A - Z, normal quality, for marking in workpieces with a
strength up to 120 kp/mm², hardness on the engraving 58 - 60 HRC,
type face acc. to DIN 1451, in plastic box

	A	A	A	A	A	A	A	A	A
Font height mm	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10.0	12.0
66 111...	020	025	030	040	050	060	080	100	120



66 111...

66 114 Impact hand stamping tool

- Stamping number roller turns easily in every desired position and is locked by a fixing pin.
- Part numbers can be set in seconds
- The set number can be read on the front of the holder in the field of view.
- Compact design, marking in any desired work position possible
- With depth limiter
- Each stamping number roll has eleven position, including a blank space
- Special wheels (logos, symbols, letters) available on request.

Font height mm	66 114...		max. number of stamped digits mm	max. length of stamping mm
1.5	015		14	21
2.0	020		10	20
2.5	025		8	20
3.0	030		7	21
4.0	040		10	40
5.0	050		8	40
6.0	060		7	42



...015 - ...030



...040 - ...060

66 115 Precision steel stamp

- Separate letters and numbers, which can be put together in a holder to mark a complete word, name or a part number.
- Hardness: from 59 to 63 HRC
- Marking materials up to 1300 N/mm₂ strength possible
- Clear, neat type face on all metals with the same quality with one stroke. Faster and more efficiently implemented than individual stamps.
- Carefully collected selection of 100 steel types (letters, numbers, commas, periods, &-symbol, diagonal lines and dashes) and diverse empty spaces, complete with a hand holder.

...030 and ...050:

- Available in a sturdy plastic box with separate divisions for each type and space for a holder and application tools

...060:

- Available in a sturdy wooden box with separate divisions for each type and space for a holder and application tools



66 115...

Font height mm	66 115...		Sizes of steel type			Number of steel types in the holder	Number of inter- mediate pieces
			Width mm	Length mm	Height mm		
3	030		3.2	6.4	22.2	9	8
5	050		4.8	6.4	22.2	8	7
6	060		6.4	9.5	19.0	8	7

66 116 Table marking device

P 3000

PROFEN

Marking options:

- Marking window: 100 x 100 mm
- Height of the part to be marked: up to 280 mm
- Font size: from 0.5 to 80 mm (in intervals of 0.1mm)
- Font types: Linear, angular, circular, inversed, mirror, reflex, CE

Technical description:

- Power supply: 115 V, 230 V (50 - 60 Hz)
- Output: 120 W
- Length: 420 mm, Width: 270 mm, Height: 740 mm
- Weight: 29 kg
- Marking tools for version:
pneumatic = PN12, electromagnetic = EM 11

Available accessories on request:

- Service unit for the compressed air
- Thickness gauge
- Foot pedal for triggering the marking (for office or industrial environment)
- Control terminal for cycle start and cycle end
- Standard plate carrier (noise damper)
- Magnet clamber for nameplates
- Software for WINDOWS® and RS 232 connection cable
- Motorised rotating axis
- Nameplate automation
- Barcode reader

übersichtliches Display



Use without PC



Also available as portable marking gun

Type	Model	66 116...	
P 3000 PN	Table device - pneumatic	001	
P 3000 EM	Table device - electromagnetic	002	
RPN 12	Replacement embossing tip for 66 116 001	020	
RPN 22	Replacement embossing tip for 66 116 001	021	
REM 11	Replacement embossing tip for 66 116 002	022	



Motorised rotating axis for marking round workpieces (circumference) and other accessories available on request.

Circular marking



66 117 Compressed air engraving pen GST 540**MANNESMANN
DEMAG**

- for writing, engraving of hardened steels, metals, glass, plastic, ceramic and stone
- Simple tip change
- Extremely low vibration level
- Noise level under 65 dB (A)
- 1 medium embossing needle (66117021) included in scope of delivery
- Embossing tip made of Sintered carbide



66 117 001

more compressed air tools
are on page 1290

Frequency sec.	66 117...		Size mm	Weight kg	Air consumption m ³ /min	Vibration approx. m/s	Noise level db (A)	Connection thread
540	001		17 x 162	0.15	0.09	2.5	65	R 1/4

Replacement embossing tip for 66 117 001	66 117...	
fine	020	
medium	021	
coarse	022	

66 118 Electro-engraver

in a set with diamond, Sintered carbide and hardened styluses,
as well as two modeling tips for soft metals such as copper, tin and
aluminium foil



66 118 001

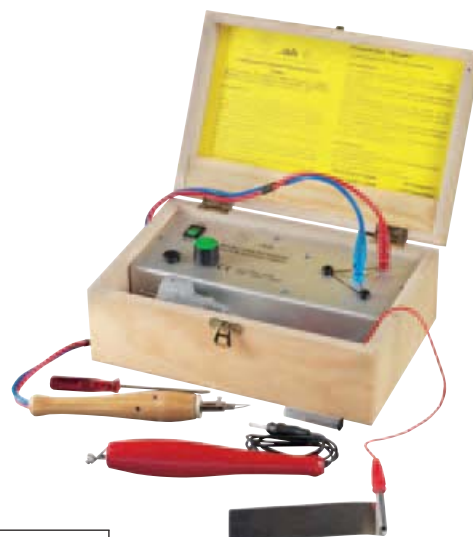
Output Watts	66 118...	
25	001	

66 119 Freehand electric arc engraver

Use: For marking all electrically conductive workpieces, such as
hardened tools, templates, fixtures, machine parts, material samples,
drills, milling cutters, measuring devices, reamers

Application: The special transformer is switched by DC current
between power and engraver, with electric engraving the holder
should be held so that the electrode stands slightly vertical, when
the workpiece is touched a short intensive arc forms, this burns the
desired type face permanently in all metals,

- the tungsten-thorium electrodes can be sharpened at any time with
a file or grinding disk
- Device complete with 3 tungsten-thorium electrodes and trans-
former, 6-way controllable, in wooden box



66 119 001

Connection voltage	66 119...		Electrode size mm
230 V / 50 Hz	001		1.4 x 25

Electric engraver for non-conducting materials available on request

Spare and wear parts for 66 119...

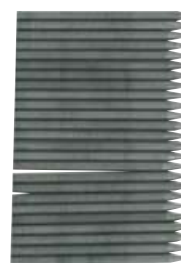
66 119 004

Spare part	66 119...	
Engraving grip Primo for metal for electrodes Ø 1.4 x 25mm	004	
3 tungsten electrodes Ø 1.4 x 25mm	005	
25 tungsten electrodes Ø 1.4 x 25mm	006	

66 119 005



66 119 006



66 122 Labelling machines

Label POINT 150

light, mobile hand unit for simple and fast jobs, for professional labelling

- ergonomic ABC keyboard
- up to two lines per label
- writes on 9 and 12 mm D1 labelling tape
- Selection between 6 font sizes and 4 frames
- Print preview
- incl. 12 mm D1 labelling tape black-on-white



66 122 010

Label POINT 250

the ideal hand unit for frequent labelling work, up to mirror printing

- handy keyboard
- writes on 6, 9 and 12 mm D1 labelling tape
- used with batteries or power adapter (see 66 128...)
- combinable font styles and effect
- up to two lines per label
- incl. 12 mm D1 labelling tape black-on-white



66 122 020

Label POINT 350

outstanding variety of functions, from electrical and technical symbols to barcode, the Label POINT 300 offers versatile character selection, which makes it the ideal labelling device for numerous work areas

- Memory for 10 labels plus special functions for easy editing
- writes on 6, 9, 12 and 19 mm D1 labelling tape
- Barcodes: UPC-E, Code 39, Code 128, EAN 13, EAN 8, UPC-A
- combinable font styles and effect
- up to four lines per label
- used with batteries or power adapter (see 66 128...)
- incl. 19 mm D1 labelling tape black-on-white



66 122 030

Model	66 122...		Size mm	Weight g
Label POINT 150	010		98 x 50 x 156	298
Label POINT 250	020		112 x 52 x 187	300
Label POINT 350	030		114 x 70 x 212	519

66 124 Labelling device

Label MANAGER 150

- simple to use, easily manageable function keys
- large, partially graphic display
- ergonomic keyboard (Qwertz)
- navigation buttons
- patented RACE- technology for fast access to umlauts (similar to SMS input on cell phones)
- for D1-tape 6, 9 and 12 mm wide
- manual tape cutter
- 3 font types
- extensive symbol selection
- prints up to 2 lines
- use with 5 AAA batteries or power adapter Item no. 66 128...
- incl. 12 mm tape, black-on-white



66 124 015

Model	66 124...		Size mm	Weight g
Label MANAGER 150	015		170 x 120 x 54	350



66 127 Labelling device

Label MANAGER 450

- independent or PC linked use (DYMO software)
- Memory for 25 labels plus special functions for easy editing
- current date/time display, which can be printed on the label
- horizontal and vertical label printing
- navigation help for simple menu use
- storage of preferred formats
- writes on 6, 9, 12, 19 and 24 mm D1 labelling tape•
- with 5 fonts as well as all Windows fonts (with PC connection)
- automatic tape cutting
- combinable font styles and effects
- up to five lines per label
- used with batteries or power adapter (see 66 128...)
- Print logos and pictures/graphics with PC connection
- large display for optimum text input, correction and preview
- Barcodes: UPC-E, Code 39, Code 128, EAN 13, EAN 8, UPC-A
- incl. 24 mm D1 labelling tape black-on-white and PC labelling software
- Software download also from www.dymo.de/Kundendienst possible



PC-use possible

66 127 004

Model	66 127...		Size	Weight g
Label MANAGER 450	004		215 x 245 x 85	700

66 128 Power adapter

compatible with labelling machines:

- 66 122 020
- 66 122 030
- 66 124 015
- 66 127 004



66 128 010

Size mm	66 128...		Colour
106 x 92 x 55	010		black

66 131 Labelling tape

in cassette, self-adhesive, tape length 7 m, with slit back for simple peeling of labels compatible with No. 66 122... - 66 127...



66 131...

Colour design		66 131... Width 12 mm		66 131... Width 19 mm	
	black on transparent	001		101	
	black on white	003		103	
	red on white	005		105	
	black on red	007		107	
	black on yellow	009		109	
	white on black	011		111	
	blue on white	013		113	

removable easily
and without
residue,

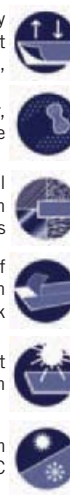
resistant against water,
oil and grease

adheres to almost all
clean and smooth
surfaces

simple peeling of
labels due to slit on
back

resistant against
UV radiation

Heat resistant from
-30° to + 150°C



66 140 Sealing pliers

for lead seals, nickel-plated design, grips covered with plastic



66 140...

For seal Ø mm	66 140...		Overall length mm
8	008		130
10	010		170
12	012		220

66 143 Spiral lead seal

zinc plated, DIN 1367, on 1 kg spools



66 143 001

Wire thickness mm	66 143...		Spool holds approx. m
0.5 / 0.3	001		400

66 145 Lead seal

DIN 1719, per 1 kg



66 145...


Ø mm	66 145...		Weight per 1000 pieces kg	Number per kg Qty
8	008		1.2	890
10	010		2.3	430
12	012		3.6	280

66 151 Carpenter's pencil

oval, from processed wood, painter



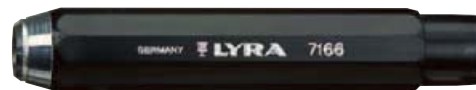
66 151 001

Overall length mm	66 151...		
240	001		12

66 153 Chalk holder

for marking chalk, pressure mechanism, black

For marking chalk see Item. No. 66 155...



66 153 001

Overall length mm	66 153...	
115	001	

66 155 Marking chalk

hexagonal, size 110 x 11 mm, pack = 12 pcs

fits chalk holder Item no. 66 153...



66 155 001



66 155 002



66 155 003



66 155 004

Colour	66 155...	
blue	001	
red	002	
yellow	003	
white	004	

66 157 Blackboard chalk

rectangular, size 90 x 13 mm, paper-wrapped, pack = 12 pcs



66 157 001

Colour	66 157...	
white	001	

66 159 Soapstone chalk rectangular, no wrapping, size 100 x 10 mm, pack = 50 pcs

66 159 001

Colour	66 159...	
weiß	001	

66 163 Metal etcher

For fast inscribing on steel, copper, nickel, tin, lead, non-ferrous metal alloys and stainless steels; surfaces to be marked must be metallic bright; the handy plastic holder contains two interchangeable refills with intensive acting etching solution; in normal cases the intensive black colour appears immediately and is permanent - if necessary can be removed with emery cloth; exposure time is different depending on type of metal, but the marking is visible after a few seconds at the latest



66 163...

Type	66 163...	
Complete metal etcher	001	
Refills	002	

66 165 Marker pins

Aluminium tube with ball tip, for marking all surfaces, marking width 3 mm



66 165 001

Colour	66 165...	
white	001	
yellow	002	
red	003	



66 165 002



66 165 003

66 169 Felt tip marker

permanent marking on all surfaces



66 169 001



66 169 012

Marking width mm	Colour	66 169...	
8	black	001	
8	red	004	
4	black	008	
4	red	012	



66 170 Paint marker

Felt tip marker with pump, paint pen with alcohol base. High UV resistance



66 170 001



66 170 002



66 170 004

Marking width mm	Colour	66 170...	
4	white	001	
4	yellow	002	
4	black	004	

66 175 Marking spray

Industrial marking paint with high percentage of pigment and extremely short drying time, for compact and very visible marking



66 175 001



66 175 002



66 175 003




66 175 004

Colour	66 175...		Contents ml
white	001		500
neon-yellow	002		500
pink	003		500
orange	004		500

66 203 Plastic protective netting

highly elastic tube, protects very sensitive surfaces, fits the inserted workpieces optimally, protects corners and edges on shafts and tools, reduces risk of damage, encloses the parts to be protected securely and tightly, does not absorb moisture, price per pack!

Ø mm	66 203...		Colour	 m
6 - 15	001		red	250
20 - 40	005		yellow	50
30 - 60	007		green	50
50 - 100	009		red	50
90 - 200	011		yellow	50



66 203...

66 250 Coolant hoses

made of nickel-plated steel wound sleeve and an interior plastic hose, exterior damage-proof and absolutely leakproof, steel connection and drain nozzle

Screw-in threaded connector (inches)	Nominal length mm	66 250...		Bending radius mm
G 1/4	320	032		65
G 1/4	400	040		65
G 3/8	400	140		80
G 3/8	500	150		80
G 1/2	400	240		100
G 1/2	500	250		100
G 1/2	630	263		100



66 250...

66 252 Shut-off valves

for coolant hoses No.: 66 250...

Screw-in-inch	66 252...		Overall length mm
G 1/4	001		45
G 3/8	002		45
G 1/2	003		55



66 252...

66 266 Coolant modular hose system 1/4" and 1/2"

- Basic hardware for most applications
- Includes practical, reusable plastic box



66 266 301



66 266 401

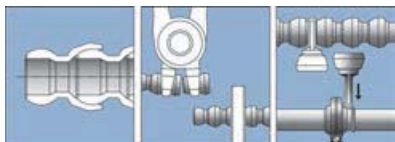
Designation	66 266...		Contents
1/4" assortment, 23-piece	301		3 hoses each 280 mm, 2 round nozzles 1.6 mm, 3 round nozzles 3.2 mm, 2 round nozzles 5.6 mm, 1 flat nozzle 24 mm, 1 flat nozzle 24 mm, 7-hole 1.5 mm, 2 Y-branch, 1 double socket, 2 threaded nipple R 1/8, 3 threaded nipples R 1/4, 1 adapter for Loc-Line, 1 assembly pliers, 1 separating wedge
1/2" assortment, 20-piece	401		3 hoses each 265 mm, 3 round nozzles 10 mm, 1 flat nozzle 30 mm, 1 flat nozzle 60 mm, 1 flat nozzle 30 mm, 6-hole, 3.3 mm, 1 Y-branch, 1 Y-branch reduction, 1 reduction 1/2" to 1/4", 3 threaded nipple R 1/2, 2 threaded nipple R 3/8, 1 adapter for Loc-Line, 1 assembly pliers, 1 separating wedge

66 266 Coolant modular hose system

Maxiflex System 3200 (Ø 1/4") und 3400 (Ø 1/2").



You are currently using another system? No problem!
You can find the correct adapters at the bottom of the table.



Practical basic assortments are
located on the previous pages.

Ø 1/4"				Ø 1/2"			
	66 266...		Contents		66 266...		Contents
	010		Maxiflex-Set: 1 nipple R 1/4", 1 nozzle Ø 3.2 mm, 22 joints, Length: 320 mm		110		Maxiflex-Set: 1 nipple R 1/2", 1 nozzle Ø 10 mm, 12 joints, Length: 320 mm
	015		Pack with 22 joints, Length: 280 mm		115		Pack with 12 joints, Length 265 mm
	016		Pack with 80 joints, Length: 1,000 mm		116		Pack with 48 joints, Length 1000 mm
	020		Pack with 4 nozzles Ø 1.6 mm		117		Pack with 4 jointed pipe segments. Length: 440 mm
	022		Pack with 4 nozzles Ø 3.2 mm		120		Pack with 4 Nozzles Ø 10 mm
	024		Pack with 4 nozzles Ø 5.6 mm		126		Pack with 2 Hole type nozzles 30 mm wide
	026		Pack with 2 hole type nozzles 24 mm wide		128		Pack with 2 Flat nozzles 30 mm wide
	028		Pack with 2 flat nozzles 24 mm wide		132		Pack with 4 Angle nozzles Ø 7 mm
	030		Pack with 4 angle nozzles Ø 1.6 mm		134		Pack with 4 Angle nozzles Ø 10 mm
	032		Pack with 4 angle nozzles Ø 3.2 mm		136		Pack with 2 multi-hole angular nozzles. 8 x Ø 3.2 mm
	034		Pack with 4 angle nozzles Ø 5.6 mm		140		Pack with 2 reducers, 1/2" auf 1/4"
	036		Pack with 2 multiple hole angle nozzles, 7 x Ø 2 mm		150		Pack with 4 double sockets, Ball end
	050		Pack with 4 double sockets, Ball end		152		Pack with 4 double nipples
	052		Pack with 4 double nipples		154		Pack with 4 threaded nipples R 3/8"
	054		Pack with 4 threaded nipples R 1/8"		156		Pack with 4 threaded nipples R 1/2"
	056		Pack with 4 threaded nipples R 1/4"		158		Pack with 2 Y-branches
	058		Pack with 2 Y-branches				Pack with 2 Y-piece reducers. 1/2" to 1/4"
	060		Pack with 2 shut-off valves		160		Pack with 2 shut-off valves
	070		Separating wedge		170		Separating wedge
	072		Assembly pliers		172		Assembly pliers
	090		Pack with 4 adapters for LOC-LINE® and ARIANA Cool-Line®				Pack with 4 adapters for LOC-LINE® and ARIANA Cool-Line®



66 502 Compressed air pistols

Pistol shaped, made of anodised aluminium, activated by lever, operating pressure 2 - 6 bar, nozzle bore 1.5 mm



66 502...

Size	66 502...		Connection
1	001		with bushing 6 mm
2	002		with bushing 9 mm
3	003		with male nipple for couplings

66 503 Compressed air pistol with safety and noise damping nozzle

Powerful compressed air pistol made of forged aluminium (surface anodised) for heavy duty work. Combined with a safety and noise damping nozzle (noise level only 77 dB (A) at 6 bar operating pressure), max. operating pressure 10 bar, working pressure 4 - 6 bar, operating temp. -10°C to 50°C, air consumption 335 l/min. (p=6 bar)



66 503 001

Connection	66 503...	
with coupling plug	001	

66 503 Safety and noise damping nozzle

Made of zinc die casting, chrome-plated (nozzle) and aluminium (nipple). Improved work conditions due to significant lowering of the noise level compared to conventional nozzles. The blowing force is up to 2.5 times higher than conventional one-hole blowing nozzles.



66 503 010

For compressed air pistols	66 503...	
66502... and 66503001	010	

66 504 Extension insert

150 mm, for aimed blowing for hard to get to points, air consumption the same as normal nozzles, fits compressed air pistols
No. 66 502... and 66 503 001...



66 504 001

Length mm	66 504...	
150	001	

66 505 Compressed air pistols

for compressed air cleaning, attractive, ergonomic design, compressed air volume is dosed easily with the outlet low noise level, internal threads R 1/4



66 505 001



66 505 003



66 505 015

Type	66 505...	
8 mm straight tube	001	
8 mm bent tube	003	
6 mm bent tube	005	
8 x 300 mm straight tube	012	
8 x 500 mm straight tube	015	



66 507 Pressure washing gun

ewo

universal safety and high pressure washing gun in higher quality and performance class. For flexible applications, for connection to water or emulsion pumps for drilling fluid. Housing made of anodised aluminium. Lever, hand wheel, nozzles and bushings of brass. Shackle of nickel-plated steel. Handle case ultra-mid. Nozzle 2 mm diameter. Operating pressure max. 40 bar, Operating temperature 0° to 90°C

Connection	66 507...	
Hose bushing 1/2"	001	



66 507 001

66 508 Hand tyre pressure gauge

ewo

calibrated, fill, release pressure and check with one grip of the handle, high-quality, concentric manometer 80 mm diameter, scale divisions in bar and psi. Manometer largely protected against impact by self-contained plastic protective cap, the manometer is secured against over pressure and can be loaded to the end value of the respective display range

Measurement range bar	Measurement range psi	Plug	66 508...	
0 - 10	140	lever plug	001	
0 - 10	140	two-sided	002	

Professional design



66 508...

64 292 Spray guns for compressed air

with Hostalen- plastic canister, matte transparent, compressed air connection G 1/4" with screw-on hose connection for hose with 5 - 6 mm inside diameter, operating pressure 3 - 4 bar, the spray stream can be set on the nozzle as required

Container capacity Liter	64 292...		Type
0.7	001		with straight spray tube
0.7	002		with swiveling nozzle



64 292 001



with swiveling nozzle

64 292 002

64 296 Sand blasting guns for compressed air

for removing rusty spots, which are impossible or difficult to reach with grinding wheels and other tools, connection with nipple for self-shutoff hose coupling, with hardened nozzle, blast furnace slag can be used as blast medium, when using quartz sand (grain size 7) for commercial use the regulation on dangerous working material from Sept 17, 1971, Appendix II Paragraph 3 is to be followed

Container capacity kg	62 296...		Operating pressure bar	Nozzle Ø mm	Working distance mm
1	001		4 - 6	4	300
	002		Replacement nozzle, hardened, 4 mm Ø		



64 296...

Quick couplings

made of steel, zinc plated and passivated, springs of stainless steel, seals of nitrile rubber, applications with rough handling, drops from elevated heights, driving over with vehicles, etc.

66 532 Quick coupling

with external threads



Thread inch / mm	66 532...	
G 1/4 / 6.3	001	
G 3/8 / 10.0	005	
G 1/2 / 12.5	008	

with external threads



66 532...

66 535 Quick coupling

with internal threads



Thread inch / mm	66 535...	
G 1/4 / 6.3	001	
G 3/8 / 10.0	005	
G 1/2 / 12.5	008	



with internal threads

66 535...

66 538 Quick coupling

with hose nipple



Ø inch / mm	66 538...	
1/4 / 6.3	001	
3/8 / 10.0	005	
1/2 / 12.5	008	



66 538...

with hose nipple

66 540 Connection nipple

with external threads



Thread inch / mm	66 540...	
G 1/4 / 6.3	001	
G 3/8 / 10.0	005	
G 1/2 / 12.5	008	



66 540...

with external threads

66 543 Connection nipple

with internal threads



Thread inch / mm	66 543...	
G 1/4 / 6.3	001	
G 3/8 / 10.0	005	
G 1/2 / 12.5	008	



66 543...

with internal threads

66 548 Push-on bushings



Diameter inch / mm	66 548...	
1/4 / 6.3	001	
3/8 / 10.0	005	
1/2 / 12.5	008	



66 548...

66 552 Distributors

made of brass, with internal threads



66 554 Distributors

made of brass, single-handed couplings



66 552 001

66 552 003



66 554 101

66 554 103

Designation	Thread G	66 552...		66 554...	
two-way	3/8"	001		101	
two-way	1/2"	002		102	
three-way	3/8"	003		103	
three-way	1/2"	004		104	



66 560 Compressed air accessories

brass, MS 58, coupling locking on one side, NW 7



Designation	External / internal threads	Connection	66 560...	
Coupling	ET	G 1/4"	001	
	ET	G 3/8"	002	
	ET	G 1/2"	003	
Coupling	IT	G 1/4"	005	
	IT	G 3/8"	006	
	IT	G 1/2"	007	
Coupling with hose connection	-	6 mm	009	
		9 mm	011	
		13 mm	012	
Push-on bushing	-	6 mm	013	
		9 mm	014	
		13 mm	015	
Hose nipple	ET	G 1/8"	016	
	ET	G 1/4"	017	
	ET	G 3/8"	018	
	ET	G 1/2"	019	
Hose nipple	IT	G 1/8"	022	
	IT	G 1/4"	023	
	IT	G 3/8"	024	
	IT	G 1/2"	025	
Hexagon union nut	-	G 1/4"	028	
	-	G 3/8"	029	
	-	G 1/2"	031	
Hose bushing G 1/4"	-	6 mm	038	
Hose bushing G 3/8"	-	9 mm	039	
	-	9 mm	044	
Hose bushing G 1/2"	-	6 mm	047	
	-	9 mm	048	
	-	13 mm	049	
Threaded bushing G 1/8"	ET	6 mm	052	
	ET	9 mm	053	
Threaded bushing G 1/4"	OT	6 mm	056	
	OT	9 mm	057	
Threaded bushing G 3/8"	ET	6 mm	061	
	AG	9 mm	062	
	ET	13 mm	063	
Threaded bushing G 1/2"	OT	9 mm	066	
	OT	13 mm	067	
Double nipple with taper	OT	G 1/8" x 1/8"	072	
	OT	G 1/8" x 1/4"	073	
	ET	G 1/4" x 1/4"	074	
	ET	G 1/4" x 3/8"	075	
	ET	G 3/8" x 3/8"	076	
	ET	G 3/8" x 1/2"	077	
	ET	G 1/2" x 1/2"	078	
	ET	G 1/2" x 3/4"	079	
	ET	G 3/4" x 3/4"	081	
Reducing nipple	IT/ET	G 1/8" x 1/4"	088	
	IT/ET	G 1/4" x 3/8"	089	
	IT/ET	G 3/8" x 1/2"	091	
	IT/ET	G 1/2" x 3/4"	092	
	IT/ET	G 3/4" x 1"	093	
Socket	IT	G 1/8"	097	
	IT	G 1/4"	098	
	IT	G 3/8"	099	
	IT	G 1/2"	101	
	IT	G 3/4"	102	
Screw plug with hexagon socket	OT	G 1/8"	121	
	OT	G 1/4"	122	
	ET	G 3/8"	123	
	ET	G 1/2"	124	
	ET	G 3/4"	125	

Coupling
66 560 001 - ...003Coupling
66 560 005 - ...007Coupling with hose connection
66 560 009 - ...012Push-on bushing
66 560 013 - ...015Hose nipple
66 560 016 - ...019Hose nipple
66 560 022 - ...025Hexagonal union nut
66 560 028 - ...031Hose bushing
66 560 038 - ...049Threaded busing
66 560 052 - ...067Double nipple with taper
66 560 072 - ...081Reducing nipple
66 560 088 - ...093Socket
66 560 097 - ...102Screw plug with hexagon socket
66 560 121 - ...125

66 565 Sealing tape

for all thread systems, for gas, water, steam, heat, prevents rusting, guaranteed reliable sealing, resistant to aggressive chemicals, comes on a 12 m roll

Tape width mm	66 565...		Tape thickness mm	
12	001		0.1	10



66 565 001

66 566 Compressed air hose drum

operating pressure 17 bar, axial connection enabled rolling/unrolling during operation, complete with single-handed quick connections, connection hose and wall bracket

Hose length m	66 566...		Hose Ø mm
20	001		9/15
20	002		6/12



66 566...

66 568 Spiral hoses

nylon, completely outfitted with connection coupling and plug-in sleeve with kink protection spring

Working length m	66 568...		Hose mm
2.5	001		6 x 8
5	002		6 x 8
7.5	003		6 x 8



66 568...

66 572 Compressed air hoses

PVC hose with perlon fabric insert

Hose size mm	66 572...		Liquid test pressure at 20° C bar	Roll m
6 x 3	051		25	50
9 x 3	052		22	50
13 x 3.5	053		19	50



66 572...

66 573 Air hoses

for compressed air containing lubrication as well as industrial water for medium-heavy applications.

Standard: DIN 20018, **Operating pressure:** 10 bar air/ 16 bar water

Burst pressure: 54 bar, **Temperature range:** from -30°C to +50°C

Inner core: black, smooth, **Outer covering:** black, smooth, aging and weather resistant



66 573...

Inner Ø mm	66 573...		Wall thickness mm	Outer Ø mm	Roll m
13	001		5	23	40
19	002		6	31	40
25	003		7	39	40

66 574 Garden hoses

black / green transparent, long service-life and flexible, cadmium-free, **burst pressure 20 bar**



66 574...


Ø inch	66 574...		Roll m
1/2	001		20
1/2	002		30
1/2	003		50
3/4	007		50
1	010		50

66 575 Hose clamps

special steel, with chamfered band edges, bright galvanised, large clamping area, can be placed on without difficulty and without lost time in closed condition



66 575...

Clamping range mm	66 575...		Clamp width mm	
8 - 12	012		9	100
10 - 16	016		9	100
12 - 20	020		9	100
16 - 25	025		9	100
20 - 32	032		9	100
25 - 40	040		12	50
32 - 50	050		12	50
40 - 60	060		12	25
50 - 70	070		12	25
60 - 80	080		12	25
70 - 90	090		12	25
80 - 100	100		12	10
90 - 110	110		12	10
110 - 130	130		12	10
120 - 140	140		12	10
130 - 150	150		12	5
150 - 170	170		12	5
170 - 190	190		12	1
190 - 210	210		12	1
210 - 230	230		12	1
220 - 240	240		12	1
230 - 250	250		12	1

66 577 Hose clamp

malleable cast iron, two-part with jaws



66 577...

for SLW	66 577...		Hose OD / clamping range mm
1/2" = 13mm	001		22 - 29
3/4" = 19mm	002		28 - 34
1" = 25mm	003		32 - 40

66 578 Jaw couplings

malleable cast iron, with bushing

For hose diameter mm	66 578...	
13	001	
19	002	
25	003	



66 578...

66 579 Jaw couplings

malleable cast iron, with internal threads and hexagonal

Internal thread inch	66 579...		Hexagon mm
G 1/2	001		27
G 3/4	002		32
G 1	003		41



66 579...

66,580 Jaw couplings

malleable cast iron, with external threads and hexagonal

External threads inch	66 580...		Hexagon mm
G 1/2	101		27
G 3/4	102		32
G 1	103		41



66 580...

66 582 Tap cock

self-sealing, malleable cast iron with brass taps and ventilation with screwed-on coupling

Connection thread inch	66 582...	
G 1/2	101	
G 3/4	102	
G 1	103	



66 582...

66 583 Rubber seal

for jaw coupling Item no. 66 578... - 66 582...

Colour	66 583...	
black	001	



66 583 001

66 584 Garden hose jaw couplings

brass, for water

For hose inch	66 584...	
3/8	001	
1/2	003	
3/4	005	
1	007	



66 584...

66 586 Garden hose jaw couplings

brass, for water, with internal thread

Internal thread inch	66 586...	
G 3/8	101	
G 1/2	103	
G 3/4	105	
G 1	107	



66 586...

66 587 Garden hose jaw couplings

brass, for water, with external thread

External thread inch	66 587...	
G 3/8	001	
G 1/2	003	
G 3/4	005	
G 1	007	



66 587...

66 588 Rubber seal

for jaw coupling No. 66 584... - 66 587...

Colour	66 588...	
black	001	



66 588 001

66 589 Spray nozzle

hot-pressed brass, Siro shape, fixed hose bushing, swivel nozzle head, lockable and infinitely variable

Hose size inch	66 589...	
1/2	001	
3/4	002	



66 589...

66 590 Water hose drum

special hose 1/2" with cloth insert and spirally wrapped cross pattern, highly elastic and heavy-duty, with hose quick coupling, water stop and adjustable plastic spray nozzle

Hose length	66 590...	
20	001	



66 590 001

66 594 Filter

standard series with plastic container, housing of zinc die casting

Internal thread inch	66 594...		Overall length mm	Total width mm	Flow volume at 6 bar m
3/8	001		154	56	65
1/2	002		196	87	280
1	003		213	90	380



66 594...

66 595 Drain valve

automatic, black, plastic coated, the separated condensation lifts the floater and triggers the automatic draining

External thread inch	66 595...		Ø mm
1/4	001		42



66 595 001

66 596 Pressure regulator

standard series, relieving, brass housing



66 596 103



66 596 103



66 596 103

Internal thread	66 596...		Overall length	Total width	Manometer diameter	Control range	Flow volume
inch			mm	mm	mm	bar	m
3/8	101		130	54	50	0.5 - 10	65
1/2	102		170	82	63	0.5 - 10	150
1	103		186	90	63	0.5 - 10	320

66 597 Oil mist lubricator

standard series with plastic container, zinc die casting housing

Internal thread	66 597...		Overall length	Total width	Flow volume at 6 bar
inch			mm	mm	m
3/8	001		170	56	75
1/2	002		211	87	260
1	003		229	90	440



66 597...

66 598 Pressure regulator with filterstandard series, relieving, zinc die casting housing, polycarbonate container, container volume 25 cm³,Nr. 66 598 003 Container capacity 80 cm³

Internal thread	66 598...		Overall length	Total width	Manometer Ø	Control range	Flow volume
inch			mm	mm	mm	bar	bar m
1/4	001		220	56	50	0.5 - 10	55
3/8	002		220	56	50	0.5 - 10	60
1/2	003		306	87	63	0.5 - 10	175



66 598...

66 599 Service units

standard series, three-part, consisting of filter, pressure regulator and oil mist lubricator

Internal thread	66 599...		Overall length	Total width	Manometer Ø	Control range	Flow volume
inch			mm	mm	mm	bar	m
1/4	001		186	196	40	0.5 - 10	30
3/8	002		186	196	40	0.5 - 10	35
1/2	003		227	281	63	0.5 - 10	120



66 599...

**Compressed air conditioning- Variobloc**

ewo

- easy handling
- high capacity
- long service life
- manufactured acc. to EN 963

**Request the detailed documents.**

VOC conforming spraying systems



In addition to a drastic reduction of solvent discharge, the VOC guidelines for solvent legislation, valid since August 24, 2001, also require application equipment with a transfer rate > 65 %. For new operations this must immediately be implemented; for existing operations the transition period is until 2007 at the latest.

66 701 Universal paint gun



Type SATA LM 2000 B RP

reliable paint gun in RP technology for processing of primers and paint systems of all types. The fine atomisation ensures economical and highly efficient work with high transfer rate. Gun with 0.6 l plastic container and 1.3 mm nozzle. A wide spectrum of nozzles of flexible applications are available as accessories (see 66 715...)

Inlet pressure bar	66 701...		Air consumption NI/min	Spraying distance cm
3.0	010		260	18 - 23



66 701 010

66 712 Paint gun



Type: SATAjet GR

Universal gun for robust applications with high capacity, over-spray free working even with high viscosity media, thanks to wide horn technology clogging of the air nozzles is reliably prevented. Gun with 0.6 l plastic container and nozzle 1.5 W

Inlet pressure bar	66 712...		Air consumption NI/min	Spraying distance cm
3.5	002		330	18 - 23



66 712 002

66 715 Accessories for SATA paint gun



Designation	Type	Fits paint gun no.	66 715...	
SATA cleaning set	for efficient cleaning of the paint gun		001	
SATA paint screen	increases paint quality by avoiding particle inclusions		003	
Micrometer with manometer	for exact spray pressure adjustment directly on the paint spray gun		005	
Flow container	plastic with a filling capacity of 0.6l with measurement scale and drip catcher, external threads M 16 x 1.5	66 701 001 66 701 005 66 701 010	007	
Flow container	Internal thread M 16 x 1.5	66 712 002	008	
Paint air hose	High quality, anti-static air hose acc. to DIN 8541, prevents sparking and fires from electrostatic charging, diameter 9 mm, 10 m long, completely assembled with nipple and quick coupling, ensures high paint quality		012	



66 715 001



66 715 003



66 715 005



66 715 007



66 715 008



66 715 012

66 715 Nozzle sets for SATA paint guns

SATA



66 715...

Nozzle sets	66 715...		suitable for	
			66 701 010	66 712 002
0.8	068		•	
1.0	070		•	
1.3	073		•	
1.6	076		•	
1.8	078		•	
2.0	080		•	
2.5	085		•	
3.0	090		•	
1.3 W	103			•
1.5 W	105			•
1.7 W	107			•
2.0 W	120			•
2.5 W	125			•
3.0 W	130			•

66 720 Paint spray gun “Minipaint”

Type:

Compact and handy small paint gun in reduced spray and environmentally friendly HVLP design with high part transfer rate (66 - 80%) with simultaneous low operating pressure (2.0 - 2.5 bar). Equipped with stainless steel nozzle components for processing water-based paints. Especially suitable for smaller surfaces, partial painting of vehicles, as well as a variety of decorative painting. Quality and precision in detail, paired with optimum ergonomics as a guarantee for perfect results.

Advantages of the HVLP system:

- excellent surface finish
- versatile application possibilities in vehicle, metal and wood work, as well as in industry
- conforming to legal requirements (VOC)
- low paint consumption
- low emissions
- high efficiency

Technical data:

Working pressure: 2 - 2.5 bar / 26.8 - 35.8 psi

Max. material temperature: 40 °C

Air consumption at 2 bar: 90 - 100 l/min

Weight: 570 g

ewo



66 720 001

Designation	66 720...		Connection
Paint gun with nozzle Ø 0.7 mm in plastic case Contents: Paint gun, flow cup (plastic), replacement part kit, key, cleaning set, G 1/4 steel coupling nipple, lubrication oil	001		G 1/4 external threads

66 720 Spare parts for paint spray gun “Minipaint”

ewo



Designation	66 720...		Contents ccm
Nozzle set consisting of: spray head, paint nozzle, paint needle	011		Ø 0.7 mm
Nozzle set consisting of: spray head, paint nozzle, paint needle	013		Ø 1.0 mm
Nozzle set consisting of: spray head, paint nozzle, paint needle	015		Ø 1.2 mm
Air micrometer 2 bar	021		-
Sealing set	101		-
Flow cup with cover	103		75
Flow cup with cover	105		250



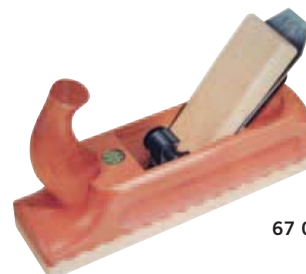
“TOOLS”

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67 012 Wooden German jack plane

with hornbeam sole, integrated frog and ready to use plane iron (blade)

Iron width mm	67 012...		Overall length mm
48	001		240



67 012 001

67 016 Smoothing plane

with hornbeam sole, integrated frog and ready to use plane iron (blade)

Iron width mm	67 016...		Overall length mm
48	001		220



67 016 001

67 020 Double rabbet plane

made of hornbeam, with ready to use plane iron

Iron width mm	67 020...		Overall length mm
30	001		270



67 020 001

67 022 Joiner's hammer

DIN 5109, with ash shaft, painted black, ground striking face and pein

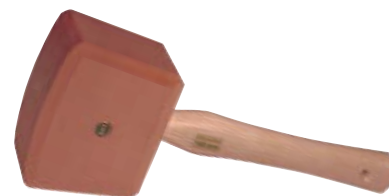


67 022...

Face height mm	67 022...		Weight g
20	020		190
22	022		230
28	028		450

67 026 Joiner's mallet

made of heavy beechwood, shaft profiled for good, comfortable grip, glued and wedged in, fine varnish finish



67 026...

Mallet head mm	67 026...	
105 x 65	010	
140 x 80	020	

67 040 Paring chisel

Cutting edge finely ground and ready for use, **can be resharpened**, Blade length 140 mm, with hornbeam handle



67 040...

Width mm	67 040...	
4	004	
6	006	
8	008	
10	010	
12	012	
14	014	
16	016	
18	018	
20	020	
22	022	
24	024	
26	026	
30	030	

67 042 Gouge

Cutting edge finely ground and ready for use, **can be resharpened**, Blade length 140 mm, with hornbeam handle



67 042...

Width mm	67 042...	
6	006	
10	010	
12	012	
16	016	
18	018	
25	025	

67 051 Hand drill

- stable design
- closed housing,
- with 2 speeds
- additional handle can be used on left or right-hand side



67 051 001

Capacity mm	67 051...		Overall length mm
10	001		355

67 053 Hand brace

with four jaw chuck, with ring ratchet and ball bearing palm stock, **completely zinc plated**



67 053 002

Overall length mm	67 053...		Operating diameter mm
380	002		260

67 060 Machine auger bits

with cylinder shank, 3 clamping faces and threaded spur tip, one entering tap and one main cutting edge



67 060...

Drill bit Ø mm	Overall length mm	Working length mm	Shank Ø mm	67 060...	
6	235	160	6	006	
8	235	160	8	008	
10	235	160	10	010	
12	235	160	12	012	
14	235	160	12	014	
16	235	160	12	016	
20	235	160	12	020	
24	235	160	12	024	
10	450	360	10	110	
12	450	360	12	112	
14	450	360	12	114	
16	450	360	12	116	
18	450	360	12	118	
20	450	360	12	120	
24	450	360	12	124	
30	450	360	12	130	

67 064 Machine wood twist drill bits

DIN 7487 E, cylindrical throughout, with centring tip, 2 main cutting edges and protruding cutting edges



67 064...

Drill bit Ø mm	67 064...		Overall length mm
4	004		75
5	005		85
6	006		95
8	008		115
10	010		130
12	012		150
14	014		160
16	016		180
18	018		190
20	020		205

**67 065 Wood twist drill bit sets**

CV steel in box

Contents Qty	Contains Ø mm	67 065...	
5	4 / 5 / 6 / 8 / 10	001	
8	3 / 4 / 5 / 6 / 7 / 8 / 9 / 10	005	



67 065...

67 067 Wood drill bit with hexagon connection end

- Connection end: 1/4" hexagonal shank
- True-running precision
- For use in all cordless screwdrivers and drills with hexagonal toolholder
- Drill bit (tip and spiral) cut from one solid piece
- HSS steel
- Precision ground cutting edges
- Precise, strip-free drilled holes in softwood and hardwood



67 067...

Ø mm	67 067...		Overall length mm
2	002		62
3	003		74
4	004		88
5	005		99
6	006		106
8	008		110
10	010		133

Set:

Number of drill bits Qty	67 067...		Ø mm
5	105		2. 3. 4. 5. 6

For wood drill bits with hexagon connection end, please see 10 515...



67 067 105

67 070 Machine Forstner bits

Standard type, with centring tip, two main cutting edges and peripheral cutting edge



67 070...

Drill bit Ø mm	67 070...		Overall length mm	Shank mm
10	010		90	8 x 30
12	012		90	8 x 30
14	014		90	8 x 30
15	015		90	8 x 30
16	016		90	8 x 30
18	018		90	8 x 30
20	020		90	8 x 30
22	022		90	8 x 30
24	024		90	8 x 30
25	025		90	8 x 30
26	026		90	8 x 30
28	028		90	8 x 30
30	030		90	8 x 30
35	035		90	10 x 30
40	040		90	10 x 30
45	045		90	10 x 30
50	050		90	10 x 30

67 071 Machine Forstner bit set

in wooden box, 5 piece



67 071 001

Contains Ø mm	67 071...	
15 / 20 / 25 / 30 / 35	001	

67 076 Countersink bit

with cylindrical shank, 7 cutting edges,
Overall length 90 mm



67 076...

Ø mm	67 076...		Shank mm
13	013		8 x 30
16	016		8 x 30
20	020		8 x 30

67 084 Scratch awl

Special vanadium steel blade, bright nickel plated, handle
made of shockproof plastic



67 084 002

67 085 Square reamer

Special vanadium steel blade, bright nickel plated, handle made
of shockproof plastic



67 085 002

67 084...		67 085...		Blade mm	Overall length mm
002		002		100 x 6	185

67 092 Cabinet scraper

Rectangle, made of steel



67 092 001

Size mm	67 092	
150 x 60 x 0.8	001	

67 093 Glass cutter

with nickel plated top and wooden handle, turret with 6 wheel patterns made of stainless steel



67 093 001

For glass thickness mm	Overall length mm	67 093...	
3 - 4	130	001	
Replacement cutting wheels (per doz)		002	

67 094 Sintered carbide glass cutter

with nickel plated top, flat, unbreakable plastic handle, Sintered carbide cutter wheels ground and lap polished



67 094 001

For glass thickness mm	Overall length mm	67 094...	
2 - 12	135	001	
Replacement Sintered carbide cutter wheels (each)		002	

67 096 Diamond glass cutter

high gloss nickel plated, large head with two notches and clamp, oval wooden handle, with bevelled and ground diamond for slightly dragging cut

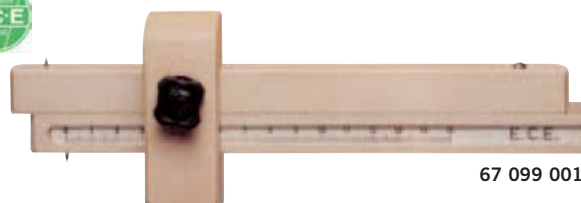


67 096 005

for glass thickness mm	67 096...		Overall length mm
3 - 5	005		130

67 099 Scratch gauge

made of hornbeam, two individually adjustable rails with integrated mm scales 0 - 150 mm, slender scribe made of steel



67 099 001

Scale length mm	67 099...	
150	001	

67 100 Frankfurter shovel

Ruhr-Brillant Frankfurter shovel, size 5, specially hardened, red powder coated, without handle

Size	67 100...		Blade size mm
5	001		300 x 270



67 100 001

67 102 Holsteiner shovel

Ruhr-Brillant Holsteiner shovel, size 2, 3/4 high, specially hardened, red powder coated, without handle

Size	67 102...		Blade size mm
2	001		270 x 250



67 102 001

67 104 Dutch shovel

Ruhr-Brillant Dutch shovel, size 2, 3/4 high, specially hardened, red powder coated, without handle

Size	67 104...		Blade size mm
2	001		300 x 250



67 104 001

67 106 Rimmed shovel

Ideal rimmed shovel, size 7, silver powder coated, without handle

Size	67 106...		Blade size mm
7	001		370 x 310



67 106 001

67 108 Construction spades

Ideal construction spades, made from one piece of taper rolled special steel, size 2, oil tempered and hardened, sand blasted, ash T handle 85 cm

Size	67 108...		Blade size mm
2	001		285 x 185 / 180



67 108 001

67 112 Shovel handle

67 112 001

Length mm	67 112...	
1300	001	

67 120 Contractors' bucket

Plastic, black

Contents litre	67 120...	
12	001	



67 120 001

67 125 Water bucket

made of strong sheet steel, hot-dip galvanised

Contents litre	67 125...	
11	001	



67 125 001

67 205 Bricklayers' trowels

with straight neck

...001 and ...002: Normal type

...101 and ...102: stainless type

Blade length mm	67 205...		Type
160	001		normal
180	002		normal
160	101		stainless steel
180	102		stainless steel



67 205...

67 209 Berner plastering trowels

with straight neck

Blade length mm	67 209...	
120	001	
140	002	
160	003	



67 209...

67 211 Gauging trowels

with S neck

Blade length mm	67 211...	
140	001	
160	002	

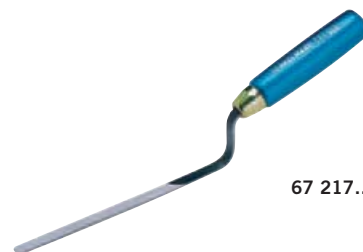


67 211...

67 217 Hamburger jointer trowels

stainless type

Blade size mm	67 217...	
170 x 8	102	
170 x 10	103	
170 x 12	104	
170 x 14	105	



67 217...

67 219 Smoothing trowels

with curved, painted handle,

...002: stainless type

Blade size mm	67 219...		Blade thickness mm	Type
280 x 130	001		0.7	normal
280 x 130	002		0.7	stainless steel



67 219...

67 268 Float

made of plastic

Length mm	67 268...		Width mm
280	002		140



67 268 002

67 284 Plasterers' knife

with straight neck

Blade length mm	67 284...		Blade width mm	Type
90	001		40	stainless steel
93	002		50	stainless steel
98	003		60	stainless steel
110	005		80	stainless steel



67 284...

67 304 Adhesive and grout spreader, serrated edge

with wide handle and hang hole

Width 180 mm

Square teething mm	67 304...	
6 x 6	006	
8 x 8	008	



67 304...

67 308 Painters filling knife

with oval wooden handle, forged blade, hardened and finely ground, hang hole

Blade width mm	67 308...	
20	002	
30	003	
40	004	
50	005	
60	006	
80	008	
100	010	



67 308...

67 312 Japanese scraper set

medium-hard type, with acid resistant PVC handles

Quantity	67 312...		Blade widths mm
4	001		50 - 80 - 100 - 120



67 312 001

67 316 Plaster mixing cup

made of soft PVC, black, tapered, bulbed shape

Ø mm	67 316...		Height mm
130	001		95



67 316 001

67 322 Knee pads

per pair, shell shape made of soft foam

Type	67 322...	/pair
with rubber straps	001	
Replacement rubber straps	002	



67 322 001

67 844 Paper towels

blue, for easy wiping and for the hands, more hygienic than coloured cleaning cloths, more effective than cleaning wool, **absorbent, strong, low lint content**



Type	67 844...		Size
Large roll, perforated, with 1000 towels, 2 ply	001		22 x 38
Large roll, perforated, with 1000 towels, 2 ply	003		36 x 36
Large roll, perforated, with 1000 towels, 3 ply	005		36 x 36



67 844...

67 845 Paper towels, 4 ply

white, for removing oil and grease, especially in corners and along edges, the economic and efficient alternative to jersey fabrics and coloured cleaning cloths, **hard-wearing and tear resistant, solvent resistant**

Type	67 845...		Size
Large roll, perforated, with 700 towels, 4 ply	001		30 x 38



67 845 001

67 846 Wall mounted holder for paper towels

for holding large rolls, with tear off device for perforated paper towels. Supplied without paper towels.



67 846 001

Type	67 846...		Width cm
chrome plated	001		bis 40

67 847 Floor stand

mobile, stable and strong, for holding large rolls, with tear off device for perforated paper towels and holder for waste sack. Supplied without paper towels and waste sacks.



67 847 003

Type	67 847...		Roll width up to cm
Tubular steel, painted	003		40

67 881 First aid case

SÜHNEN

- Made of stable ABS plastic
- Dimensionally stable, impact proof, temperature resistant, splash proof, dust-tight
- Wall-mounting bracket with 90° stop locking device
- Striking orange colour
- Adjustable inner dividers
- Smooth running turnlock fasteners
- Strengthened handle
- **Can be sealed**
- Handy handle buttons for easy removal of the case
- Transparent cover panels?
- All-round rubber seal
- First aid coloured pictograms

...005 to ...007:

- Job-related pictogram and labelling
- Including additional equipment depending on occupational group



67 881 001 + 67 881 002



...005



...007



...009

Filled according to	67 881...		Size mm	Usage
DIN 13 157	001		260 x 170 x 110	Standard
DIN 13 169	002		400 x 300 x 150	Standard
DIN 13 157	005		400 x 300 x 150	Workshop, repair and maintenance companies
DIN 13 157	007		400 x 300 x 150	Metalworking
DIN 13 157	009		400 x 300 x 150	for the whole mechanical engineering industry

67 884 First aid cabinet

SÜHNEN

Cabinet basic shell made of 0.75 mm thick sheet steel, frame made from one piece, rounded corners and edges, with hanging device, security lock with two keys, two doors, two shelves, height-adjustable, doors with three filing holders each



67 884 002

Filled to	67 884...		Size mm
DIN 13 169	002		404 x 462 x 170

67 882 First aid box, aluminium

- Cabinet basic shell made of 2 mm anodised aluminium
- Rounded corners and edges with hanging device
- Security lock with two keys
- One door
- Two height-adjustable shelves
- Dust tight, maintenance free, splash proof

Top quality made of
2 mm anodised aluminium

Filled to	67 882...		Size mm
DIN 13157	030		300 x 370 x 160
DIN 13169	040		400 x 450 x 160



67 882...

67 885 Fills

Refill packs for first aid boxes fulfil all requirements of the UVV49, BGV A1 and GUV0.3

SÜHNGEN

Filled to	67 885...		Contents Qty
DIN 13169	001		141
DIN 13157	003		72



67 885...

67 891 Plaster dispensers**Dispenser:**

- Made of high-strength ABS plastic
- Including wall bracket and fixing materials
- Striking orange colour
- With three compartments, transparent cover with tunnel compartment

Plasters:

- aluderm® - aluplast wound plasters with aluminium vacuum coated wound dressing and absorbent non-woven with BACTEKILLER
- breathable, absorbent, promotes skin formation and healing
- also suitable for people with sensitive skin
- individually hygienically sealed
- Contains 90 plasters in 4 sizes

SÜHNGEN

Contents	67 891...		Size mm
25 strips 72 x 25 mm 25 strips 72 x 19 mm 25 fingertip dressing 15 finger dressings 120 x 20 mm	090		160 x 122 x 57



67 891 090

67 895 Plaster dispensers

When pulled out of the dispenser one half of the plaster is ready to stick and must be used immediately.
Replace and remove with special key only.

SÜHNGEN

Type	67 895...	
Plaster dispenser - filled, 190 x 40 x 110 mm, with special key, basic fitout with 1 refill each 67 895 003 and 67 895 004	001	
Refill packs:		
Refill plaster strips - elastic, 24 plasters 7.2 x 1.8 cm + 16 plasters 7.2 x 2.5 cm	003	
Refill plaster strips - waterproof, 27 plasters 7.2 x 1.9 cm + 18 plasters 7.2 x 2.5 cm	004	



...001



...004



...003

68 002 NTS hand riveter

with opening spring, working range: up to 5 mm Ø aluminium and 4 mm Ø stainless steel,

Features: nozzle 10/24 in working position, 10/18, 10/27, 10/32 on the riveter housing, 1 nozzle spanner, maintenance instructions with spare parts list

GESIPA

with 4 nozzles



68 002 001

Tool stroke mm	68 002...		Weight g	Overall length mm
8	001		480	275

68 002 “Nietboy” hand riveter kit

in practical case, with extensive accessories

GESIPA

Set consisting of	68 002...	
1 NTS hand riveter, 1 twist drill, 100 blind rivets 4mm Ø short, medium, long, washers, riveting guide	010	



68 002 010

68 005 NTX hand riveter

Working range up to 5 mm Ø aluminium and 4 mm Ø stainless steel,

Features: nozzle 10/24 in working position, 10/18, 10/32 on the riveter housing, 1 nozzle spanner, maintenance instructions with spare parts list

GESIPA

Tool stroke mm	68 005...		Weight g	Overall length mm
8	001		575	260



68 005 001

68 005 “Senior Nietbox” hand riveter kit

Weight approx. 3.75 kg, dimensions 340 x 205 x 40 mm, in stable metal case, with extensive accessories

GESIPA

Set consisting of	68 005...	
1 NTX hand riveter, 12 blind rivet sizes, 3 mm + 4 mm Ø, made of different materials, 1 nozzle spanner	010	



68 005 010

68 007 Flipper hand riveter

Working range up to 5 mm Ø aluminium and 4 mm Ø stainless steel,

Features: nozzles 10/24 in working position, 10/18, 10/29 on the rivet collector, 1 nozzle spanner on the rivet collector, maintenance instructions with spare parts list

GESIPA

Total stroke mm	68 007...		Individual stroke mm	Weight g	Overall length mm
16.2	001		1.8	750	212



68 007 001

68 011 HN 2 long arm lever riveter

Working range from 3.0 to 6.4 mm Ø all materials,

Features: Nozzle 16/32 in working position, 16/29, 16/36, 16/40, 16/45 in the handles, mandrel collector in working position, maintenance instructions with spare parts list

GESIPA

with 5 nozzles



68 011 001

Tool stroke mm	68 011...		Weight kg	Overall length mm
10	001		1.85	570

68 014 SN 2 lazy tong riveter

Working range from 3.0 to 6.4 mm Ø all materials, features:
Nozzle 16/32 in working position, 16/29, 16/36, 16/45 enclosed,
1 nozzle spanner, maintenance instructions with spare parts list

GESIPA

68 014 001

Tool stroke mm	68 014...		Length closed mm	Length opened mm	Weight kg
11	001		294	832	2.1

68 014 Replacement gripping jaws

3 pce, for 68 011 001 (HN2) and 68 014 001 (SN2)

68 014...	
010	



68 014 010

68 018 Battery operated blind rivet tools electro-mechanical**GESIPA**

all tools are cordless and operated with 12 V output voltage.

Incl. quick charger and sheet steel case

AccuBird 68 018 001: Working range: Blind rivets up to 5 mm Ø all materials. BULB-TITE® blind rivets 4; 5.2 and 6.3 mm Ø aluminium and steel. Nozzles: 17/24 in working position, 17/27, 17/29, 17/32 in the rivet magazine. 1.7 Ah.

PowerBird 68 018 003: Working range: Blind rivets from Ø 4.8 mm steel up to 6.4 mm all materials. BULB-TITE® blind rivets up to Ø 7.7 mm, all materials. MEGA GRIP® blind rivets up to Ø 6.4 mm, all materials. Nozzles: 17/32 in working position, 17/36, 17/40, 17/45 in the rivet magazine, spanner: SW 12 (cover of the magazine), quick charger: 230 V/50 Hz, rechargeable power battery: 12 V; 2.0 Ah.

FireBird 68 018 005: Working range up to M 10 aluminium, up to M 8 steel and up to M 6 stainless steel. Threaded mandrel and nozzle M 6 in working position, 1 Allen key, threaded mandrel and nozzle M 4 and M 5 in the magazine. 1.7 Ah.



Accu Bird



68 018 001



Power Bird



68 018 003



Fire Bird



68 018 005

Blind rivet Ø mm	Material	Rivets/Battery charge	Nozzle
68 018 001 AccuBird			
68 018 011 Spare rechargeable battery for AccuBird			
2.4	Aluminium	1900	17/18
3.0 and 3.2	Aluminium	1300	17/24
3.0 and 3.2	Steel	1100	17/24
3.0 and 3.2	Stainless steel	1000	17/24
4.0	Aluminium	1000	17/24
4.0	Steel	900	17/27
4.0	Stainless steel	800	17/29
4.8 and 5.0	Aluminium	700	17/29
4.8 and 5.0	Steel	500	17/32
4.8 and 5.0	Stainless steel	400	17/36
68 018 003 PowerBird			
68 018 013 Spare rechargeable battery for PowerBird			
4.8 and 5.0	Steel	500	17/32
4.8 and 5.0	Stainless steel	400	17/36
6.0	Aluminium	400	17/36
6.0	Steel	220	17/40
6.4	Aluminium/PG aluminium	300	17/45
6.4	Steel	180	17/45
68 018 005 FireBird			
68 018 015 Spare rechargeable battery for FireBird			
M 3	Aluminium	600	
M 3	Steel/Stainless steel	550	
M 4	Aluminium	520	
M 4	Steel/Stainless steel	480	
M 5	Aluminium	480	
M 5	Steel/Stainless steel	400	
M 6	Aluminium	400	
M 6	Steel/Stainless steel	300	
M 8	Aluminium	340	
M 8	Steel	180	
M 10	Aluminium	300	

68 023 Blind riveter, pneumatic-hydraulic



- Gripping mechanism, with positively driven jaws and pneumatic pressing
- Very long tool life
- Secure, non-slip grip of the mandrels
- High setting forces and low weight
- Faster work cycle
- Optimised stroke for each tool
- Low air consumption due to double use of the air for setting and extracting
- Low vibration and sound insulated
- Low actuation force
- With 4 (...002), or 3 (...003) nozzles

Tool stroke mm	68 023...		Weight kg	Setting force at 5 bar	Working range
18	002		1.6	9000 N	up to 5 mm Ø all materials, 6mm Ø Aluminium/steel
25	003		1.9	14000 N	up to 6.4 mm Ø all materials




68 023...

68 040 Aluminium blind rivet with zinc plated steel shaft and flat round head. Supplied in packs only.



68 040...


Shank Ø mm	68 040...		Rivet length mm	Grip length mm	
3	004		4	0.5 - 1.5	500
3	006		6	2.5 - 3.5	500
3	008		8	3.5 - 6.5	500
3	010		10	5 - 8	500
3	012		12	7 - 10	500
3	016		16	10 - 12.5	500
3	018		18	12.5 - 15.5	250
4	106		6	1.5 - 3.5	500
4	108		8	3.5 - 6	500
4	110		10	5 - 7.5	500
4	112		12	6.5 - 10	500
4	116		16	8 - 12.5	500
4	118		18	11 - 15	500
5	206		6	0.5 - 3.5	500
5	208		8	2 - 5	500
5	210		10	3.5 - 7	500
5	212		12	5 - 9.5	500
5	214		14	7 - 11.5	500
5	216		16	8.5 - 13	500
5	218		18	10.5 - 15	500
5	225		25	17 - 21	250
5	221		21	17 - 21	250

zinc plated

68 044 Aluminium blind rivet with stainless steel shaft and flat round head. Supplied in packs only.



68 044...

Shank Ø mm	68 044...		Rivet length mm	Grip length mm	
3	006		6	2.5 - 3.5	500
3	008		8	3.5 - 6.5	500
3	010		10	5 - 8	500
3	012		12	7 - 10	500
4	106		6	1.5 - 3.5	500
4	108		8	3.5 - 6	500
4	110		10	5 - 7.5	500
4	112		12	6.5 - 10	500
4	116		16	8 - 12.5	500

Stainless steel




68 048 Stainless steel blind rivet

with stainless steel shaft A 2 (1.4541) and flat round head.
Supplied in packs only.

GESIPA

Stainless steel

68 048...

Shank Ø mm	68 048...		Rivet length mm	Grip length mm	
3	006		6	1 - 3	500
3	008		8	3 - 5	500
3	010		10	5 - 7	500
3	012		12	7 - 9	500
4	106		6	1.5 - 2.5	500
4	108		8	2.5 - 4.5	500
4	110		10	4.5 - 6.5	500
4	112		12	6.5 - 8.5	500
5	208		8	1.5 - 4	500
5	210		10	4 - 6	500

68 034 "PunchBird" electric metal hole punch**GESIPA**

for fast hole punching in sheet metals

- electro-mechanical
- 12 V cordless with high power output
- new type of gripper system for the tension bolts
- no changing of tension bolts on the punching tool
- large number of punches per battery charge
- low tool weight
- Ø 22 mm: max. 2.0 mm sheet steel or 1.5 mm sheet stainless steel
- Ø 35 mm: max. 1.5 mm sheet steel or 1.0 mm sheet stainless steel

Technical data:

Driving power: 13 kN

Weight: 2.4 kg with rechargeable battery

Working time: approx. 18 sec. per punch

Punches per battery charge: approx. 250

Scope of supply: Quick change rechargeable power battery 12 V/2.0 Ah (NiCd),

1 quick charger, in case

Hole punches not included in the scope of supply.

Driving power kN	68 034...		Weight kg
13	001		2.4

68 035 Hole punches

for "PunchBird" hole punch

GESIPA

Ø mm	68 035...	
15.2	015	
16.0	016	
18.6	018	
20.4	020	
22.5	022	
28.3	028	
32.0	032	
35.0	035	



68 035...


68 305 S plugs

suitable for all concrete and masonry materials, for fixing objects to be fixed with wood or particle board screws, resistant against weathering and ageing, rust, rotting and temperatures from -40° to +80° C.

Supplied in packs only.

fischer  **BEFESTIGUNGSSYSTEME**

68 305...

Type	68 305...	/100	Drill bit Ø mm	Drill hole depth mm	
S4	004		4	25	200
S5	005		5	35	100
S6	006		6	40	100
S8	008		8	55	100
S10	010		10	70	50
S12	012		12	80	25
S14	014		14	95	20
S16	016		16	100	10

69 012 Freezer Spray

for locating faults in case of thermal interruptions, cools fast, avoids heat damage during soldering, temperature range up to 45 °C cooling



Contents ml	69 012...		Container
400	040		Aerosol can



69 012 040

69 015 Compressed air spray

blows away loose dust from inaccessible places such as keyboards, printers, etc.



Contents ml	69 015...		Container
400	040		Aerosol can



69 015 040

69 028 Stainless steel spray

fast drying, abrasion resistant, short-term heat resistant up to + 300 °C, for making good damaged stainless steel parts, effective surface treatment, this stainless steel spray reliably adheres to all metal parts, most plastics, glass, wood, stone, cardboard,
Use: The surface to be sprayed must be clean and free of grease and rust, shake can thoroughly for approx. 2 minutes before use, use temperature 18 - 25 °C, if several coats applied, allow 5 minutes drying time for each before spraying next coat



Contents ml	69 028...		Container
400	040		Aerosol can



69 028 040

69 030 Zinc spray, special

resistant against salt, rust and water, fast-drying, can be painted over, temperature resistant up to + 500 °C, high corrosion resistance, particularly suitable as a primer as well as final protective coat after welding, cutting, drilling and grinding



Contents ml	69 030...		Container
400	040		Aerosol can



69 030 040



69 031 Zinc spray, light, bright

Adheres to metals and provides long-term protection against corrosion.

**Uses:**

- for all vehicle body work
- for making good damaged hot-dip galvanizing
- as intermediate coat in spot welding

Technical characteristics:

Colour: silver grey, bright and shiny like fresh hot-dip galvanizing.

Temperature resistance: up to +500 °C

Forms a smooth and pore-free film, quick-drying, can be spot welded, electrically conductive.

Contents ml	69 031...		Container
400	040		Aerosol can



69 031 040

69 032 Aluminium spray

high-quality long-term protection, protects against rust and corrosion, heat resistant up to +800 °C, this high-quality aluminium spray provides maximum corrosion protection for all metallic surfaces, resistant against temperature and weathering effects, diverse versatile uses, very good abrasion resistance,

Uses: Vehicle rims, exhaust systems, furnaces, air conditioning and ventilation systems, pipes, turbines, vessels, truck bodies, etc.



Contents ml	69 032...		Container
400	040		Aerosol can



69 032 040

69 034 Zinc aluminium spray

Maximum corrosion protection for all metallic surfaces. Fast drying, can be painted without additional primer. Versatile due to resistant, flexible, non-greasy, electrically conducting protective film which can be soldered on.

**Uses:**

- Protection for bright and electroplated ferrous materials
- for making good damaged zinc plated parts
- for coating weld and drilled areas

Technical characteristics:

Heat resistant up to approx. +500 °C. Best results at room temperatures (over 16 °C). Silvery shine, dust dry at 20 °C after 15 minutes.

Contents ml	69 034...		Container
400	040		Aerosol can



69 034 040

69 040 Leak detector spray

with corrosion protection, DIN DVGW tested, non-flammable, non-toxic, for fast and reliable checking of: pipes and fittings, brake systems and cooling systems, welded and soldered connections, gas systems and compressed air systems



Contents ml	69 040...		Container
400	040		Aerosol can



69 040 040



69 045 Corrosion inhibitor

ideal protective film for preserving tools and precision parts



Contents ml	69 045...		Container
400	040		Aerosol can



69 045 040

69 050 Release spray

Prevents adhesion and sintering on the gas nozzle and on the surface of the workpiece. After treatment, workpieces can be easily painted, electroplated, black finished (chemically treated) and anodised.

Uses:

- protects weld nozzles
- acts as a release agent for inert gas shielded welding and electric welding

Technical characteristics:

Does not contain silicone

Colour: clear



Contents ml	69 050...		Container
400	040		Aerosol can



69 050 040

69 055 Silicone spray

Lubricant, anti-sieze and release agent, which cares, protects and lubricates; it is used wherever dirt, oil and greases cause contaminations, parting agent for plastics technology; rubber parts do not become brittle and are maintained; metal parts are protected against rust and damp; plastics do not become friable; protects tools and equipment, impregnates without greasing, **do not use if parts are to be subsequently treated (painted, printed, etc.)**



Contents ml	69 055...		Container
400	040		Aerosol can



69 055 040

69 058 White grease spray

All-purpose grease, for vehicles, workshop, industry and household, high-performance grease for all moving parts, the white spray grease forms an extremely resilient, water resistant lubricant and anti-seize film, has a wear-reducing effect and provides protection against corrosion



Contents ml	69 058...		Container
400	040		Aerosol can



69 058 040



69 075 Compressed air oil / compressor oil

- For lubrication of pneumatic tools
- Non water soluble mineral oil
- For mixing with pipe oiler or compressed air oiler
- Try to avoid formation of oil mist

Contents ml	69 075...		Container
500	005		Soft bottle
1000	010		Soft bottle



69 075 005

69 093 Penetrating oil

quick acting, highly active all-purpose maintenance oil, for all metals, properties: loosens rust, displaces water, creates immediate contact, particularly good penetration capability, even in difficult to access places, protects against corrosion, lubricates moving parts, reduces wear



Contents ml	69 093...		Container
400	040		Aerosol can



69 093 040

69 095 Rust remover

with multiple effect, removes rust lightning fast, the all-purpose helper for industry and trade, new active ingredient combination with high capillary effect, very good creep properties, removes rust on screws, bolts, joints, etc., protects metals against corrosion, displaces moisture, forms a separating layer between bright metals and prevents squeaking noises



Contents ml	69 095...		Container
400	040		Aerosol can



69 095 040

69 100 WD 40 multi-purpose spray

cleans tools and machines of oil and dirt and protects against corrosion, displaces liquid and protects electrical and electronic parts

...045:

Sprays precisely in small localised areas and over larger surfaces - thanks to the fold-away tube on the spray head. Ideal for the workshop or operations. Your advantage: Never again will you have to look for a small tube, no more attaching tube, one hand remains free.



69 100 040



69 100 045



+



69 100 500

Contents ml	69 100...		Container
400	040		Aerosol can
450	045		Aerosol can
5000	500		Canister with hand-held atomiser

69 120 Multi-7 fine maintenance



7-fold effect; rust remover, cleaner, contact spray, corrosion inhibitor, water displacer, active lubricant, penetrating oil; high-performance spray for many areas, multi-7 infiltrates and displaces moisture, prevents voltage losses and leakage currents, penetrates the finest gaps and capillary voids, removes rust, cleans stubborn dirt, removes squeaking and creaking, protects metallic surfaces against corrosion and provides an outstanding lubricating effect

Contents ml	69 120...		Container
150	015		Aerosol can
400	040		Aerosol can



69 120 015

69 125 "Ballistol" all-purpose oil

Rust inhibitor, high penetration capability, disinfecting capacity, low surface tension, lubricating activity for moving parts. BALLISTOL does not gum, does not age and penetrates even the finest capillary cracks. Very hypoallergenic.

Use for all types of tools, universal use.

Contents ml	69 125...		Container
200	020		Aerosol can



69 125 020

69 140 Adhesive chain and rope lubricant



Intensive adhesion and wear reducing, extremely resilient lubricant with extraordinary adhesive capability, corrosion inhibiting effect, for open gear units, ropes, chains, chain drives, etc., the product's elasticity enables lasting, corrosion-resistant long-term lubrication which penetrates even the smallest voids

Contents ml	69 140...		Container
400	050		Aerosol can



69 140 050

69 143 Adhesive lubricant

Universal use as lubricant and corrosion protection on guideways, etc. Extreme water resistance, high lubricating film strength and top adhesion enable it to be used in even the most unfavourable operating conditions. Outstanding underseal for vehicles.

Uses:

Spray lubrication of sprockets, steering racks, chains, steel cables and other sliding surfaces

Technical characteristics:

- Temperature resistance: -25 °C to +180 °C

Contents ml	69 143...		Container
500	040		Aerosol can



69 143 040



69 145 Multi-purpose grease

...140 with colloidal graphite

Multi-purpose grease for lubricating rolling contact and plain friction bearings, as well as for mixed film lubrication, at all slip velocities allowed for grease lubrication. Friction and wear reduction even under high loads and stresses, protection of the bearing against contamination. Corrosion proofing, maintenance of the lubricating effect even in seawater.

Uses:

Agricultural machines, construction equipment, trucks, tractors, lifts, chargers, water pumps, etc.

Technical characteristics:

- Temperature resistance: -30 °C to +130 °C

Type	69 145...	
Multi-purpose grease in 400 g cartridge	040	
Long-term high-pressure grease with graphite in 400 g cartridge	140	



69 145 040



69 145 140

69 149 Low viscosity adhesive grease spray

Natural coloured long-term grease for rolling contact and plain friction bearings, excellent oxidation resistance, water resistant, good adherence and protects against corrosions. Designed for lubricating under difficult operating conditions as well as for highly loaded rolling contact and plain friction bearings.

Uses:

For lubricating motor vehicles, industrial and construction machines

Technical characteristics:

Temperature resistance: -30 °C to +120 °C (short term up to 140 °C also)
Colour: natural coloured/light-coloured

Contents ml	69 149...		Container
500	040		Aerosol can



69 149 040

69 151 High-pressure adhesive grease

For lubricating rolling contact and plain friction bearings, as well as for mixed film lubrication, at all slip velocities allowed for grease lubrication. Anti-corrosion protection of sliding parts, especially cables. Protects against corrosion, resistant against aggressive water, gases and alkali solutions.

Uses:

- open gears, screws, hinges
- Rolling contact and plain friction bearings, water pumps, water turbines, lock gates, vehicle washes, etc.

Technical characteristics:

- Temperature resistance: -25 °C to +80 °C
- Protects against seawater and salty air, good media resistance

Contents ml	69 151...		Container
500	040		Aerosol can



69 151 040

69 153 Battery post grease

Special red grease for battery (terminal) posts and water pumps

Uses:

Protects against corrosion of battery posts

Technical characteristics:

- Temperature resistance: -30 °C to +60 °C

Contents ml	69 153...		Container
500	040		Tube



69 153 040

69 159 Multi-purpose Vaseline

Resin and acid-free, excellent all-purpose grease for lubricating locks, bearings, bolts, etc.



69 159 008

Contents gr	69 159...		Container
50	008		Tube

69 165 Graphite

Large crystalline natural graphite, finely ground, grease-free, odourless

Uses:

- lubricates
- prevents dry locks, not previously lubricated, from freezing

Technical characteristics:

Colour: black



69 165 005

Contents g	69 165...		Container
50	005		Bottle

69 200 Anti-seize

...005 **Loctite 8060** Aluminium-based anti-seize for screws, nuts, pipe connections, heat exchangers, etc.

Typical Uses: Wheel hub connections

...006 **Loctite 8065** Copper-based anti-seize for screws, nuts, pipe connections, heat exchangers, etc.

Typical Uses: Exhaust pipes, brake calliper screws



69 200 005



69 200 006

Contents g	69 200...		Product
20	005		Aluminium
20	006		C5-A® copper

69 210 Anti-Seize thermal spray

white, metal-free construction spray, designed for extreme conditions such as high pressure, temperatures, corrosion, etc., resistant against water, steam, salt solutions, gas, acids, alkali solutions, etc. **Examples of use:** for **disengaging** heated screws on engines, turbines, burners and generators, for **lubricating** highly stressed screws and plug-in connections made of stainless steel, steel and non-ferrous metals, do not use with oxygen and acetylene



69 210 040

Contents ml	69 210...		Container
400	040		Aerosol can

69 215 Teflon spray

Teflon based, firm drying permanent release, lubricant and anti-seize agent

Uses:

- For lubricating saw blades, threads, drawers, instruments, chutes, conveyor equipment
- Highly effective release agent for woodwork and plastic and rubber processing

Technical characteristics:

- Grease-free
- Temperature resistance: -80 °C to +260 °C



69 215 040

Contents ml	69 215...		Container
400	040		Aerosol can



69 218 Precision engineering oil

Guaranteed resin and acid-free, clear, low viscosity, petroleum white oil, can be universally used as an oil-based rust preventative and for lubricating bicycle wheels, sewing machines, household and office machines, locks and tools, etc.

Contents ml	69 218...		Container
100	001		Small plastic bottle



69 218 001

69 250 Coolant stick and cutting pastes

Optimum performance for thread tapping both manually and on drills, ideally suited for cooling and lubrication

...003 solid form for applying

...012 + ...075 in soft form



Products are chlorine free and are not deemed to be dangerous substances.



69 250 075



69 250 003

Type	Weight g	69 250...	
Lubricant stick (wax)	300	003	
Cutting paste	120	012	
Cutting paste	750	075	

69 257 Cooling lubricant / tapping fluid (concentrate)



Products are chlorine free and are not deemed to be dangerous substances.

Coolant and cutting/chip removal agent with high degree of protection against corrosion, and with EP additives for the highest standards.

Uses:

Foam stable, very suitable for CNC machines with high pressures. Can be used for all materials, also very suitable for high-strength steels and internally cooled tools. Particularly suitable for non-ferrous metalworking. Can be used as 1:25 (4% solution) for light up to 1:10 (10% solution) for very difficult cutting and chip removal.

Advantages:

- Increased tool life compared to conventional coolants and cutting/chip removal agents.
- No sticking, regardless of the concentration used.
- Very hypoallergenic, pH value at 5% approx. 8.9.
- No dangerous substances, chlorine, nitrite and formaldehyde-free.
- High degree of protection against corrosion even at low concentrations (from 3 %).
- High-pressure additives prevent tearing off of the lubrication film; even under the highest stresses in molecular strength it remains on the cutting tool.

Uses:

Stir the coolant concentrate into required quantity of water or make the required emulsion ready for use using a mixer.

Semi-transparent emulsion (mineral oil fraction 40%). Product matched with bed track oils 68 and 220 (demulsifying).

Contents litre	69 257...		Container
5	005		Disposable canister
10	010		Disposable canister
25	025		Disposable canister
209	200		Drum



69 257 200

69 257 005 - ...025



69 259 W 71-10 EcoLube® cooling lubricant

Description: Mineral oil, multifunctional emulsion
Properties: Mineral oil based, concentration 4-10%
Uses: General machining and cutting, all materials, similar to Primat EcoLube® 97-10, all-purpose use
Advantages/benefits: Very good scavenging action (multifunctional), compatible with mixed materials and mixed processing, good corrosion protection
Compatibility: All Primat EcoLube® cooling lubricants are compatible with the usual hydraulic, bed track and spindle oils available on the market

Contents kg	69 259...		Container
25	025		Canister
69	069		Canister
100	100		Canister



69 259...

69 261 W 97-10 EcoLube® cooling lubricant

Description: Vegetable oil added, multifunctional emulsion, Primarily aluminium machining/cutting
Properties: Based on renewable raw materials made from plants, Concentration 5-7%
Uses: General cutting/chip removal, all materials, especially for aluminium cutting and stainless steel machining, single flute reaming
Advantages/benefits: Very good lubrication performance at low concentrations, compatible with mixed material and mixed machining, finely dispersed, boron-free
Compatibility: All Primat EcoLube® cooling lubricants are compatible with the usual hydraulic, bed track and spindle oils available on the market

Contents kg	69 261...		Container
29	029		Canister
69	069		Canister
195	195		Drum



69 261...

69 265 W 46-81 EcoLube® grinding concentrate

Description: Oil-free, grinding water additive
Properties: Fully synthetic, concentration 3-4%
Uses: All grinding operations, all materials
Advantages/benefits: Very good foam characteristics, low adhesive characteristics, good protection against corrosion, good emulsion shelf life and good abrasive disc tool life
Compatibility: Primat EcoLube® grinding concentrate is compatible with the usual hydraulic bed track and spindle oils available on the market

Contents kg	69 265...		Container
34	034		Canister
230	230		Drum
1120	920		Container



69 265...

69 270 Cutting oil

High quality all-purpose cutting oil based on natural raw materials.



Products are chlorine free and are not deemed to be dangerous substances.

Uses:

For medium to very difficult cutting and chip removal. Tried and tested with high alloy and stainless steels. Ideally suited for drilling, thread tapping, reaming, groove-drawing, countersinking, turning, milling and sawing. All steel grades, alloyed and unalloyed.

All cast metal grades, e.g. cast steel, grey cast iron and malleable cast iron. Aluminium and copper as well as all chrome, nickel compounds; titanium, manganese. Universal use for cutting, chip removal and forming/shaping, as well as in cooling circuits and in minimum lubrication systems.

...100 also for high-pressure spraying systems

Advantages:

- Low tool wear
- Economical to use
- Maximum tool lives
- Greater cutting speeds and precise machining

Properties:

- Natural product
- Biologically degradable
- Made from renewable raw materials
- Chlorine and mineral oil free



69 270 050 + ...100



69 270 005



69 270 003

Contents litre	69 270...		Container
0.25	002		Spray bottle
0.3	003		Aerosol can
0.5	005		Spray bottle
5	050		Disposable canister
10	100		Disposable canister

69 277 VG - 5 thread cutting agent

for drinking water systems.



Product is chlorine free and is not deemed to be a dangerous substance.

Tested according to the DVGW Leaflet and approved with the DVGW Test Number DW 0201AS3147 as a thread cutting agent for all machines, filling blocks and cutting tools for the installation of drinking water systems.

Uses:

Pour, undiluted and not mixed with other cutting agents, into the cleaned cutting agent vessel. Ensure good wetting / rinsing of the tools during cutting. Keep the equipment clean.

Typical characteristics:

- Mineral oil free
- Water free
- Free of chlorine compounds
- Fully synthetic
- Does not corrode pipes, cutting tools, pipe cutting machines
- No sticking or resinification due to drying
- Can be stored from -20 °C to +50 °C (minimum values)
- Pumpable up to at least -10 °C
- In accordance with the regulations, the VG 5 thread cutting agent is dyed red so that any residues in the pipes are found during flushing.

Technical details:

Liquid, red identification colour, almost odourless, density at 20 °C 1.05 g/cm³, viscosity at 15 °C approx. 30 mPas, pH value in 10 g/l water approx. 8, dissolves in water with any ratio, test method DIN 51 757



69 277 050

Contents litre	69 277...		Container
5	050		Disposable canister



69 314 Emulsion maintenance case

- For all measurements according to TRGS 611
- In stable plastic case, with padded inserts and document compartment
- with recess for hand-held refractometer

Case contents:

- Nitrite test strips (100)
- Nitrate test strips (100)
- Total hardness test strips (100)
- pH test strips (100)
- Bacteria test set (3 test tubes)
- Measuring beaker
- Thermometer, digital



69 314 005

69 314...	
005	

69 315 Hand-held refractometer

for checking emulsions and grinding solutions as well as coolants and lubricant liquids

Advantages: longer tool life expectancy, prevention of rust due to emulsions mixed with too low concentrations, possibility of varying the emulsion concentration according to the requirements during operation, scale in degrees, well lit and easy to read. Resolution 0.2 % Brix



69 315 001

Measuring range %	69 315...	
0 - 32	001	

**69 350 PU oil binder**

- PU foam granules type III/R, suitable for roads and rain
- Oil binder for all traffic areas as well as for workshops and industry
- Binds oils, greases, lubricants and fuels and all other leaked liquids
- Water repellent
- Bulk density: approx. 390 g/l
- 1 l oil binder binds 0.42 l oil
- Contents: 40 l = approx. 18 kg, Grading range: 0.5–4 mm
- The product's own low weight helps to cut disposal costs

69 353 Oil binder

- Mineral binder type III/R
- Binds oils, greases, lubricants and fuels and all other leaked liquids
- Suitable for traffic areas
- Bulk density: approx. 700 g/l
- 1 l oil binder binds 0,43 l oil
- Contents: 30 l = approx. 20 kg, Grading range: 0.5–1 mm

69 356 PU oil binder, buoyant

- PU foam granules type I/II R, buoyant
- Ideal oil binder for workshops and industry as well as for bodies of water
- Binds oils, greases, lubricants and fuels and all other leaked liquids
- Bulk density: approx. 245 g/l
- 1 l oil binder binds 0,52 l oil
- Contents: 50 l = approx. 12 kg, Grading range: 0.5–4 mm
- The product's own low weight helps to cut disposal costs

Contents l	Prod. No.:		Size
40	69 350 040		18 kg bag
30	69 353 020		20 kg bag
50	69 356 050		12 kg bag



69 410 Brake cleaner

Universal cleaning agent which contains a special degreasing solvent. Removes stubborn dirt thoroughly and gently, quick-drying.

Uses:

Cleaning of drum and disc brakes, brake pads, springs, shoes, clutches, couplings, etc.

Technical characteristics:

Free of aromatic and halogenated (CH, CFC) hydrocarbons, acetone, butanol, ethyl acetate, etc.

98% pure active ingredient, contains Co2T2 as propellant



Contents ml	69 410...		Container
500	005		Aerosol can



69 410 005

69 413 Stainless steel cleaner and maintenance spray

Maintains, cleans and protects stainless steel surfaces. Treated surfaces can be easily cleaned without scouring.

Uses:

Stainless steel surfaces of dishwashers, work surfaces, cabinets, etc.

Technical characteristics:

Also cleans large surfaces without streaking

Contents ml	69 413...		Container
400	004		Aerosol can



69 413 004

69 420 Cold cleaner

solvent-free, with quick releasing de-emulsification property, slightly alkaline, removes heavy soiling with oil and grease

Contents l	69 420...		Container
5	005		Canister
10	010		Canister
25	025		Canister



69 420 010

69 423 Workshop cleaner

- aqueous, alkaline cleaner for cleaning and degreasing machines, tools, workshop equipment, vehicles, etc.
- effectively removes oils, greases, resins, waxes, nicotine, insect dirt, food residues, soot, bitumen and tar splashes, etc.
- cleans metals, plastic, tiles, wood, rubber, etc.
- mild on the material being cleaned and non-abrasive
- biologically degradable according to EU Directives
- phosphate-free
- not subject to mandatory labelling in accordance with Dangerous Substances Regulations and EU Directives
- non-combustible
- highly concentrated, can be diluted up to 40 times
- corrosion inhibitors ensure temporary protection against corrosion
- oil separator compatible, tested according to ÖNORM B 5105

Contents ml	69 423...		Container
1000	001		Spray bottle



69 423 001

69 426 Special spray cleaner

with active formula for fast service use, highly active cleaner for thorough degreasing of all metals, removes resinified residues, wax, release agents, etc., displaces water, removes oil, grease, dirt and adhesive residues, check rubber and plastic parts for compatibility before spraying

Degreases all metals


Contents ml	69 426...		Container
500	005		Aerosol can



69 426 005

69 430 Washing-up liquid

in soft bottles

Contents ml	69 430...		
750	075		14
1000	100		10




69 430 075



69 430 100

69 432 Dishwasher cleaner

Somat Professional tabs, in box


Contents kg	69 432...		
1	001		6



69 432 001

69 433 Rinse aid

Somat, for dishwashers, in a soft bottle


Contents ml	69 433...		
1000	100		8



69 433 100

69 435 All-purpose cleaner

Ajax liquid, in a soft bottle

Contents ml	69 435...		
1000	100		12



69 435 100

69 439 Glass cleaner

Universal cleaner for windows and glass panes. Effortlessly removes nicotine residues, oil and grease.

Uses:

Cleaning windows, glass panes, mirrors, headlamps, frames, etc.

Technical characteristics:

Cleans thoroughly, without streaks

Contents ml	69 439...		Container
500	005		Spray bottle



69 439 005



"TOOLS"

UNIT FOR PURCHASE OF ONE PACKAGING UNIT PER ORDER NUMBER. PLEASE ALWAYS STATE NUMBER OF ITEMS IN ORDER.
 Demo Kazakhstan - 090501 Republic of Kazakhstan, West Kazakhstan Oblast, Aktau, Pramzone, BKKS office complex
 Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

69 442 “Scheibenklar” windscreen cleaner

Ensures reliable frost protection up to -30 °C (tested according to ASTM). Creates a clear view in the summer and winter.

Uses:

Frost protection and intensive cleaner for clear view

Technical characteristics:

Biologically degradable, with citrus fragrance.

Contents ml	69 442...		Container
5000	050		Canister



69 442 050

69 445 Special cleaner**for TFT screens and LCD displays**

For mild cleaning of TFT and LC displays of PC and TV screens, laptops, PDAs, mobile phones, touch screens and navigation systems. The stable active foam cleans without solvents such as alcohol, petrol-based cleaner's solvent or ammonia.

Contents ml	69 445...		Container
200	001		Aerosol can



69 445 001

69 450 Oil sweeping wood shavings

- impregnated with soap
- with floor maintenance components
- sand-free
- Product is not to be used as an oil absorbent

Contents kg	69 450..		Container
25	001		Box



69 450 001

Hand protection

in the “Safety Products” catalogue

69 460 Acetone

Low boiling point solvent with excellent solvent power for acetate, nitro-cellulose and methacrylate paints.

**Uses:**

- for diluting paint
- as paint stripper/varnish remover
- dissolves heavy, oily, greasy and resinified dirt
- auxiliary agent in the processing of plastics

Technical characteristics:

Strong solvent and cleaning power, highly soluble in water, highly flammable.

Contents l	69 460...		Container
1	010		Tin



69 460 010

69 461 All-purpose nitro thinner

Specially developed thinner for all common paints such as nitro-cellulose, hard gloss and chlorinated rubber paints. High solvent power promotes the paint's flow properties and therefore lends the paint a high gloss finish.

**Uses:**

- Thinner and cleaning agent for painting and decorating firms
- For car body and vehicle manufacturing
- Cleaning painting equipment and spray guns

Technical characteristics:

Contains residue-free evaporating solvent.

Contents l	69 461...		Container
1	010		Tin



69 461 010

69 462 White spirit

Thinner and cleaning agent for painting and decorating firms and DIY enthusiasts. Excellent cleaning agent for parquet and linoleum floors, tools. For thinning paints. Can be used in brush, roller, immersion and spraying methods.

**Uses:**

- Cleaning tools, e.g. brushes and rolls
- Removing dirt, grease and paint stains
- Thinning oil and synthetic resin and brushing varnishes
- Use on wood and stone floors, glass, textiles

Technical characteristics:

Mineral oil product, lower rate tax, may not be used as a propellant, heating material or lubricant.

Contents l	69 462..		Container
1	010		Tin



69 462 010

69 463 Methylated spirits

The high alcohol fraction makes it ideally suitable for cleaning and degreasing, thinning paints, as a solvent and as protection against frost.

**Uses:**

- Cleaning and degreasing glass, plastic, chrome, rubber
- Thinning spirit varnishes
- Anti-freeze in windscreen washer systems (1:2)

Technical characteristics:

94% by vol. ethyl alcohol, highly flammable

Contents l	69 463..		Container
1	010		Soft bottle



69 463 010



69 469 Solvent 50 Super label remover

Tried and tested in trade & industry and households for decades. The KONTAKT CHEMIE label remover penetrates the paper label and dissolves the adhesive. After a short time the label can be effortlessly removed in one go. Also for removing adhesive residues of vignettes or tar stains.

- New, redeveloped recipe for maximum solvent power
- Attachable metering brush for precise application for small labels too
- No more scratching, scraping, smoothing over!

Contents ml	69 469...		Container
200	002		Aerosol can



69 469 002

69 471 Cockpit spray

For refreshing colour and maintenance of plastic parts.

Uses:

For maintenance of dashboards, plastic roof linings, plastic trim and panelling in a vehicle.

Technical characteristics:

Anti-static effect

Contents ml	69 471...		Container
400	004		Aerosol can



69 471 004

69 473 Mould remover

For cleaning stained, dark joints in bathrooms and damp rooms and operating areas as well as black (mould) areas in rooms. Does not affect or damage textiles, stone, marble, tiles or other sensitive surfaces.

Uses:

- Initial accretions of mould, prevents new mould growth
- Against algae, moss, mildew, fungi
- Against infestations of joints, tiles, stone, etc.

Immediate and long-term effect

Technical characteristics:

Chlorine-free and safe to use, odourless, biologically degradable.

Contents ml	69 473...		Container
500	050		Spray bottle



69 473 050

69 474 Loctite 7063 cleaner and degreaser**LOCTITE**

Universal cleaner for cleaning and degreasing parts before applying adhesives and sealants. Evaporates quickly and without residues.

Ideal surface preparation of glued surfaces.

Can be used on metals, glass, rubber, most plastics as well as painted surfaces. No risk of flash rust on water sensitive parts. Contains no ozone depleting substances

Contents ml	69 474...		Container
400	005		Aerosol can



69 474 005

69 476 Loctite 7061 Superclean**LOCTITE**

Ideal for cleaning metals, as well as for removing labels, marking paint, etc. **Contains acetone**

Contents ml	69 476...		Container
400	004		Aerosol can



69 476 004

69 478 Super foam**LOCTITE**

Versatile foam cleaner for cleaning inside and outside cars. Cleans door trims, upholstery, chrome and plastic parts as well as bumpers. Also suitable for use in the household for tiles, synthetic leather, glass, painted surfaces, roller shutter blinds and window frames

Contents ml	69 478...		Container
400	004		Aerosol can



69 478 004

**69 963 Loctite 7200
Gasket remover****LOCTITE**

Removes hardened gaskets, seals and adhesives from most metal surfaces within 10 to 15 minutes. Dissolves and removes lubricant, soot, dried oil, grease and paint. Also suitable for use on wood.

Contents ml	69 963...		Container
400	040		Aerosol can



69 963 040

69 509 Loctite 7850 hand cleaner**LOCTITE**

With pumice. Natural hand cleaner made from citrus peel extracts, mineral oil free, contains important hand conditioning substances such as jojoba oil, lanolin and aloe. Hand cleaner for highly soiled hands, e.g. after car repairs. The addition of ground pumice increases the deep action and removes dirt without aggressive solvents

Contents ml	69 509...		Container
400	040		Bottle
3000	300		Pump canister with wall bracket



...040



...300

69 511 Loctite 7855 hand cleaner**LOCTITE**

Apart from finely ground pumice, also contains four important skin conditioning substances: lanolin, aloe, jojoba oil and vitamin E. Removes residues of polyurethane, paint, resin, adhesive, silicone, tar, varnish, filler compound, primer, oil-based paint, grease, lubricant. Ideal for painters, decorators, fitters and mechanics.

Contents ml	69 511...		Container
400	040		Bottle
1750	175		Dispenser



...040



...175



69 513 Loctite 7840 "Natural Blue" cleaner

Biologically degradable, solvent-free, non-toxic and non-combustible, can be diluted with water.
Removes grease, oil, cutting oil and workshop dirt.

LOCTITE

...007



...050



...200

Contents l	69 513...		Container
0.75	007		Spray bottle
5.00	050		Canister
20.00	200		Canister

69 516 Invisible glove

For protecting hands. Simply rub into the hands before starting the work and rinse off again with water after finishing the work.

Uses:

Protects against oil, dirt and paint, petrol, varnish, etc.

Technical characteristics:

Ingredients: Glycerine, water, silicates, sodium, tollomates, xanthan gum, stearic acid, perfume

Contents l	69 516..		Container
1	010		Tin



69 516 010

69 520 "TRAVABON" skin barrier cream

Properties: Protects the skin when working in oily and water-insoluble substances, makes it easier to clean the skin, increased protective effect due to skin protecting pigments

Protects against, for example: Oils, paints, varnishes, graphite, metal dust, soot, water-insoluble substances

Description: Cream (suspension), water soluble, grease and silicone-free, with special dirt binding emulsifiers, scented

STOKO

Contents ml	69 520...		Container
100	001		Tube
1000	010		Soft bottle



69 520 001



69 520 010

69 524 "STOKO PROTECT+" soft cream

Properties: Protects the skin during work in wet conditions, stabilises, regenerates and strengthens the skin barrier, quickly absorbed, with active complex made of bisabol oil and hamamelis (witch hazel)

Protects against, for example: Frequent contact with aqueous substances such as water-miscible oils and cooling lubricants, aqueous solutions of pigments, acids, alkaline solutions, salts, cleaning agents and disinfectants, cement, lime and fertiliser, wearing of occlusive protective clothing

Description: Soft cream (3-phase W/O/W emulsion), conditioning (slightly greasy), contains no colourants/dyes, silicone-free, unscented, HACCP assessed

STOKO

69 524 001

Contents ml	69 524...		Container
100	001		Tube
1000	010		Soft bottle



69 524 010

69 527 “STOKO UV 27 Special” skin barrier cream

Properties: Sun protection factor 27, broad protective effect due to combination of UV-A and UV-B filters, UV-C protection to protect the skin during electric and arc welding, extremely waterproof, protective film resistant against transpiration, penetrates skin quickly

Protects against, for example: intensive UV radiation during extreme sun exposure, electric welding and arc welding

Description: Cream (W/O emulsion), silicone-free, medium conditioning properties (grease content), free of preservatives, scented, contains bisabol oil and vitamin E



69 527 001

Contents ml	69 527...		Container
100	001		Tube

69 531 “STOKO Emulsion” skin protection

Properties: Protects the skin against softening during work in moist conditions and while wearing protective clothing, firms the skin under mechanical stresses, makes it easier to clean the skin when soiled with dyes

Protects against, for example: When wearing gloves, mechanical stress due to e.g. tools, glass fibres; dyes & colourants

Description: Lotion (O/W emulsion), slightly conditioning (greasy), silicone-free, with EUCORIOL® skin protectant, scented

69 531 002



69 531 010

Contents ml	69 531...		Container
250	002		Bottle
1000	010		Soft bottle

69 540 “STOKO HAIR & BODY” shower gel

Properties: Shower gel with conditioner for combined body and hair washing, good hypoallergenic properties, with attractive fresh fragrance

Effective against: slight soiling

Description: Shower gel, with hypoallergenic sugar surfactant, matched to the pH value of human skin, soap free, scented

69 540 002



69 540 020

Contents ml	69 540...		Container
250	002		Tube
2000	020		Soft bottle

69 545 “FRAPANTOL” skin cleaner

Properties: Special creamy skin cleaner with mild cleaning power

Effective against: slight soiling

Description: Liquid cleaner, with washing raw materials which are kind to the skin, matched to the pH value of human skin, with pearl lustre, uncoloured, soap free, unscented



69 545 010

Contents ml	69 545...		Container
1000	010		Rigid bottle



69 548 “SOLOPOL” hand cleaner

Properties: Hand cleaner with scrubbing agent for heavy-duty skin cleansing, strong cleaning power, patented formulation

Effective against: e.g. oils, greases, soot, graphite, metal dust, lubricants

Description: Paste, with STOKOPON® cleaning system (natural oil and surfactants), matched to the pH value of human skin, solvent free, with biologically degradable, patented scrubbing agent ASTOPON® (refined walnut shell powder), with EUCORNOL® skin protectant, soap free, scented



Contents ml	69 548...		Container
2000	020		Soft bottle



69 548 020

69 551 “KRESTOPOL” hand cleaner

Properties: Hand cleaner with scrubbing agent for extreme soiling, very strong cleaning power, patented formulation

Effective against: e.g. oils, greases, soot, graphite, metal dust, lubricants

Description: Paste, with STOKOPON® cleaning system, matched to the pH value of human skin, solvent free, with biologically degradable, patented scrubbing agent ASTOPON® (refined walnut shell powder), with EUCORNOL® skin protectant, soap free, scented



Contents ml	69 551...		Container
250	002		Tube
2000	020		Soft bottle



69 551 002



69 551 020

69 555 Hand cleaning paste

kind to the skin, does not contain sand, creamy.

Special skin protectants protect and care for the hands.



Contents l	69 555...		Container
10	010		Tub



69 555 010

**69 558 “KRESTO KWIK WIPES”
hand cleaning towels**

Properties: Hand cleaning towels for gentle heavy-duty skin cleansing, for fast cleaning and pre-cleaning without water, good hypoallergenic properties, fresh fragrance

Effective against: e.g. oils, greases, soot, lubricants

Description: Hand cleaning towels, moistened, with safe solvent, scented



Contents Qty	69 558...		Container
70	007		Tub with 70 wipes



69 558 007



69 570 “STOKOLAN” skin care cream

Properties: Care cream for hands and face, tried and tested for stressed skin, quickly absorbed, has a calming effect on the skin; highly effective skin care

Skin type: all skin types

Description: Cream (O/W emulsion), silicone free, scented



69 570 001

Contents ml	69 570...		Container
100	001		Tube
1000	010		Soft bottle



69 570 010

69 573 “STOKO VITAN” skin care cream

Properties: Care lotion for hands and face as well as the whole body, with grape seed oil, urea, allantoin, vitamin E for sustained and effective counteracting of the daily loss of moisture and natural skin oils, absorbs well, for care after washing or showering and after work which severely dries out the skin, with very high skin care effect

Skin type: Especially recommended for dry and very dry skin

Description: Lotion (W/O emulsion), silicone free, scented, HACCP assessed



69 573 001

...001 Care cream

...005 Care lotion

Contents ml	69 573...		Container
100	001		Tube
1000	010		Soft bottle



69 573 010

69 575 “ESTOLAN” skin care cream

Properties: Care cream for hands and face, light basic care, is absorbed very quickly, slightly conditioning (slightly greasy) effect

Skin type: all skin types

Description: Cream (O/W emulsion), silicone free, scented



69 575 001

Contents ml	69 575...		Container
100	001		Tube
1000	010		Soft bottle



69 575 010

69 590 Dispenser systems

Stoko Mat Vario: Wall-mounted dispenser made of stainless steel, white coated, for holding 1000 or 2000 ml soft bottles

Stoko Vario Ultra: Wall-mounted dispenser made of impact-resistant plastic, white, for holding 1000 or 2000 ml soft bottles



69 590 001

69 590 003

For soft bottles volume 1000 or 2000 ml	Type	69 590...	
Stoko Mat Vario	Stainless steel	001	
Stoko Vario Ultra	Plastic	003	



69 600 PATTEX strong adhesive

for gluing wood-based materials, rubber, leather, cork, felt, hard PVC, soft foams, metal, and may more.



69 600...



69 600...

Contents g	69 600...		Container
50	050		Tube
125	125		Tube
650	650		Tin

69 605 Ponal**Material:**

Ready to use, water-based woodworker's white glue

Intended use:

Glues all types of wood, wood-based materials and HPL panels.
For assembly and construction gluing, joint gluing, surface gluing

Is transparent when dry, short-term water resistance

Consumption: around 150 g/m²

Pressure: at least 15 N/cm²

Contents g	69 605...		Container
225	025		Soft bottle
760	076		Soft bottle



69 605...

69 607 Spray adhesive

An easy and convenient spray adhesive compound for use in many areas. As contact or pressure sensitive adhesive, depending on its use. Glues cardboard boxes, cardboard, leather, rubber, and many more. Has a high adhesive strength and dries quickly. Temperature range: up to approx. 80 °C



Contents ml	69 607...		Container
400	040		Aerosol can



69 607 040

69 609 Loctite 534 gasket stick

Solid form adhesive. Adhesive for solid seals and gaskets. For fixing during construction assembly and installation. For use on all rubber, cork, paper or metal seals or gaskets.



Contents g	69 609...		Container
19	019		Adhesive stick



69 609 019

69 612 Instant adhesive (super glue)

Glues smooth and porous materials.

**Uses:**

Ceramics, wood, rubber, plastic, PVC, glass, metal, etc.

Technical characteristics:

Temperature resistance: -50 °C to +80 °C

Glued gap: 0.05-0.1 mm, firm to touch after between 3-30 seconds

Sets through moisture in air

Contents g	69 612...		Container
3	003		Tube



69 612 003

69 614 PATTEX superglue

for all immediate repairs of all kinds of different materials, e.g. porcelain, ceramics, wood, leather, rubber, plastics, metal, cork, cardboard

Contents g	69 614...		Container
3	003		Tube



69 614 003



69 617 Loctite 401 instant adhesive

All-purpose instant adhesive (cyanoacrylate). Glues all kinds of different materials (metals, rubber, wood, cardboard, ceramics as well as most plastics) to themselves and each other. Very high strength in small gaps

LOCTITE

...003

...005

...020

...050

Contents g	69 617...		Container
3	003		Tube
5	005		Bottle
20	020		Bottle
50	050		Bottle

69 618 Loctite 480 instant adhesive

Black, impact resistant instant adhesive. For gluing metal/metal and metal/rubber. Top resistance against shear and impact loads. Fixes small plastic gear wheels onto metal axles. Fixing rubber seals or gaskets onto metal parts. Gluing magnets in plastic housings

LOCTITE

69 618 020

Contents g	69 618...		Container
20	020		Bottle

69 619 Loctite 4850 instant adhesive

Flexible instant adhesive, use in the manufacture, maintenance and repair of flexible materials as well as for fixing flexible parts onto dimensionally stable substrates

LOCTITE

69 619 005

69 619 020

Contents g	69 619...		Container
5	005		Bottle
20	020		Bottle

69 621 Loctite 454 all-purpose instant adhesive

Instant adhesive gel for gluing metals, composite materials, wood, cork, foam, leather, cardboard, paper and ceramics. Good gap-filling capacity. Recommended for use on vertical surfaces or for overhead work.

Also suitable for automated product application

LOCTITE

...003



...020

Contents g	69 621...		Container
3	003		Tube
20	020		Tube

69 625 Fast epoxy adhesive

For fast bonding of different material pairs. Flowable product!

**Uses:**

- for high-strength gluing and as filling compound for parts made of ceramic, stoneware, wood, metal, etc.

Technical characteristics:

Temperature resistance: -40 °C to +100 °C

Glued gap: >0.05 mm, firm to touch after approx. 5 - 10 minutes

Setting: two-component adhesive



69 625 004

Contents ml	69 625...		Container
24	004		Syringe

69 628 2-component adhesive 330/7388

Two-component adhesive with high tensile and shear strength. Bonds virtually all materials with each other and themselves (except rubber). High resistance to solvents, moisture as well as high impact resistance and peel strength. No mixing of the components. Apply activator to a surface, apply glue to the opposite piece and join the parts together. Ideal for bonding metal/metal

Contents ml	69 628...		Container
50/40	025		Tube/can



69 628 025

69 630 Loctite 3430 epoxy adhesive

Five minute, 2-component epoxy adhesive, for uses requiring visually transparent bonding. Ideal for gluing glass, decorative panels and displays as well as general do-it-yourself applications. Specifications: Medium viscosity, highly transparent, high-strength



Contents ml	69 630...		Container
24	024		Syringe

69 630 024

69 631 Loctite 3450 epoxy adhesive

Five minute 2 component epoxy adhesive suitable for gap repairs and filling. Ideal for gluing and filling damaged components. For repairing cracks in housings. Specifications: Medium viscosity, steel-filled, high strength

Contents ml	69 631...		Container
25	025		Syringe



69 631 025



69 633 Loctite 3463 epoxy adhesive**LOCTITE**

Fast-setting 2 component epoxy adhesive suitable for emergency repairs to metal parts. Ideal for sealing leaking vessels and pipes, filling oversized threaded holes, smoothing welds and repairing small cracks in castings. Specifications: Steel-filled, workable, also sets under water



...050



...114

Contents g	69 633...		Container
50	050		Stick
114	114		Stick

69 635 Loctite 406 instant adhesive**LOCTITE**

Fast gluing of rubber (including EPDM), plastics and elastomers. Used in conjunction with Loctite® 7239 primer, even difficult to bond plastics can be glued to each other.

Uses:

Gluing silicone rubber onto a plastic housing of a vehicle lock system. Fixing a plastic part onto a fire extinguisher. Making O rings with the Loctite O-Ring set



69 635 020

Contents ml	69 635...		Container
20	020		Bottle
100	050		Bottle

69 636 Loctite 495 instant adhesive**LOCTITE**

- low viscosity
- for gluing rubber, metal and plastic
- very suitable for narrow gaps



69 636 020

Contents g	69 636...		Container
20	020		Bottle
50	050		Bottle
100	100		Bottle
500	500		Bottle

69 648 Adhesive and sealant remover

For gentle removal of adhesive and sealant/gasket residues. Replaces mechanical tools.

Uses:

For fast removal of old gasket remains, set adhesive residues as well as varnishes and paints, oils, resins, tars, greases, lubricants and slip agents

Technical characteristics:

Colour: clear, slightly turbid, strong releasing effect

Contents ml	69 648...		Container
400	040		Aerosol can



69 648 040

69 650 Pipe and thread seals

prevent corrosion in the thread, seal up to burst pressure and have excellent resistance to most media used in industry



69 650...

Contents	69 650...		For thread joints up to	Initiating torque	max. residual torque	Fixture strength at room temp steel/steel minutes	Temperature resistance	Use
Gr.				Thread Nm	Nmm ²		°C	
50	005		M 80 R3	18 - 22	10 - 14	15 - 30	-55 to +150	low strength, for sealing pipe and threaded joints, removable
50	010		M 20 R3/4	12 - 16	18 - 24	10 - 20	-55 to +150	medium-hard, for hydraulic and pneumatic sealing, for threaded through joints, universal use, removable
50	015		M 80 R3	7 - 10	2 - 4	20 - 40	-55 to +150	for sealing pipe and threaded joints with Teflon additive, removable
50	020		M 56 R2	15 - 35	25 - 45	60 - 90	-55 to +150	high-strength, extra strong pipe and hydraulic seal for sealing and fixing

69 653 Loctite 577 thread seal

liquid thread seal for sealing and locking metal threads up to max. R3"(M80). Suitable for metal threads only, ideal for hydraulic and pneumatic circuits, e.g. brake systems, air conditioning systems or power assisted steering, permanent and reliable sealing effect, replaces hemp, pastes, PTFE tapes



69 653 005

Contents ml	69 653...		Container
50	005		Tube
250	250		Tube



69 653 250

69 655 Loctite 55 thread seal

for use on plastic and metal threads, especially for the heating and plumbing sector, Loctite 55 replaces hemp, pastes and PTFE tapes, Approvals: DVGW test mark DV-5142 AU 0166 (based on tests to DIN 30660, EN 751-2), KTW recommendation, BS 6920



69 655 015

Contents m	69 655...		Container
150	015		Tin

69 658 Loctite 561 thread seal

Suitable for all coarse thread joints made of metal which are once more to be made easy to release



69 658 006

Contents g	69 658...		Container
19	006		Stick

69 665 Acrylic

High-quality, single component acrylic dispersion sealing compound for indoor and outdoor seals, can be painted over.

Uses:

- Sealing joints and connections with up to 15% deformation.
- Cracks in masonry and plaster
- Filling/smoothing over cracks in all kinds of walls, etc.

Technical characteristics:

Temperature resistance: -20 °C to +80 °C

Working temperature: -5 °C to +30 °C



Colour	69 665...		Container
transparent	001		310 ml, cartridge
white	003		310 ml, cartridge



69 665...

69 668 Silicone sealant

permanently elastic, fungicidal, all-purpose sealant and adhesive for indoor and outdoor use which sets virtually without shrinkage, temperature resistant from -50 °C to +150 °C (short-term up to +180 °C)



Colour	69 668...		Container
transparent	001		310 ml, cartridge
white	003		310 ml, cartridge
grey	005		310 ml, cartridge



69 668...

69 670 Silicone

Single component, silicone-based jointing compound, permanently elastic, acetate cross-linking, cannot be painted over. Fast skin formation, good adhesion on glass, enamel, tiles and stainless steel.

Uses:

- Jointing and sealing glass and windows
- For joints in kitchens and in sanitary areas
- Weather-exposed expansion joints in outdoor areas and for interior finishings, etc.

Technical characteristics:

Working temperature: +1 °C to +30 °C

Temperature resistance: -60 °C to +200 °C

Colour	69 670...		Container
transparent	001		310 ml, cartridge
white	003		310 ml, cartridge
grey	005		310 ml, cartridge



69 670...

69 672 Plumbing silicone, acetate cross-linking



Single component jointing compound, for sealing joints in sanitary rooms, bathrooms and kitchens. With fungicidal effect for sanitary applications. Very good workability, good adhesion, fast skin formation, mould inhibitor.

Uses:

- Sealing joints in damp rooms, connection joints in kitchens
- Construction, assembly, installation and sealing of shower cubicles and saunas, etc.
- Not suitable for aquariums

Technical characteristics:

Optimum resistance against household chemicals

Basis: Polysiloxane

Temperature resistance: -60 °C to +200 °C

Colour	69 672...		Container
transparent	001		310 ml, cartridge
white	003		310 ml, cartridge
grey	005		310 ml, cartridge



69 672...

69 673 High-temperature silicone

Silicone-based adhesive and sealant specially developed for sealing engines and machine parts. Cannot be painted over.

Uses:

As substitute for most solid seals in engines, machines, etc.

Technical characteristics:

Temperature resistance: to +250 °C (short-term up to +300 °C)

69 673...		Container
020		310 ml, cartridge



69 673 020



69 675 Silicone remover

with brush and spatula/filling knife
A ready to use gel for removing cured sealants.

Uses:

Removal of cured silicones, MS polymers, butyl sealants and acrylate sealants

Contents ml	69 675...		Container
100	001		Tube



69 675 001

69 679 PU sealant

for metalworking

Single component, polyurethane-based jointing compound with high modulus. Permanently elastic after curing, excellent chemical resistance.

Uses:

- Sealing and adhesive applications in the construction and metalworking industries
- Structural bonding in vibrating constructions, etc.

Technical characteristics:

Good adhesion to different materials.

Temperature resistance: -30 °C to +90 °C

Can be painted over after curing

Resistant to hydraulic oil

Contents ml	69 679...		Container
310	005		Cartridge



69 679 005

69 680 Construction adhesive

Neoprene rubber based, pasty adhesive containing solvent. Suitable for indoor and outdoor use. Levels out slight unevenness on the bonding surface.

**Uses:**

- Gluing skirting boards, sills, decorative mouldings, ceramics, etc. on wood, concrete, stone, metal
- Not suitable for polystyrene, PP and PE

Technical characteristics:

Fast drying, water resistant

Setting: Firm to touch in 20 minutes

Contents ml	69 680...		Container
310	031		Cartridge



69 680 031

69 685 PU construction foams

Cure to form a semi-hard, mainly closed pore, firm foam. Ageing resistant, rotting and vermin proof. Very good adhesion to all materials such as concrete, masonry, plaster, etc. with diverse uses.



Contents ml	69 685...		Type	Container
500	005		1 component foam	Spray can
500	010		Rapid foam	Spray can
400	040		2 component foam	Spray can



69 685 005



69 690 Manual caulking guns

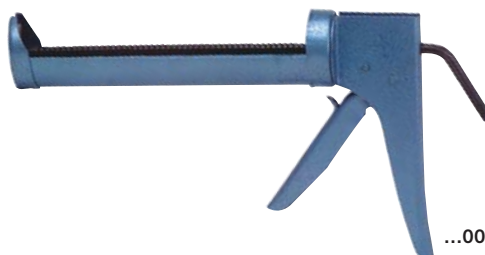
for 310 ml cartridges,

...005 Professional type, very stable, also suitable for tough, viscous products

...010 closed craftsman gun, handle made of die casting, soft long stroke, with contour piston



...001



...003



...005



...010

Type	69 690...	
Half-open frame without gear rack	001	
Half-open frame with gear rack	003	
Skeleton	005	
Closed	010	
replacement tip for ...010	110	

69 700 Hylomar permanently plastic all-purpose seal

does not harden, withstands even extreme sealing problems. High temperature range of -50 °C to +300 °C. Unlimited shelf life, even if the container is already open.



Contents ml	69 700...		Container
80	008		Tube

69 700 008

69 700 Loctite 668 shaft/hub connection

LOCTITE

Solid form. Medium strength joint adhesive. Suitable for difficult to access areas to be glued. Recommended as all-purpose jointing product with medium strength.

Contents g	69 700...		Container
19	019		Stick



69 700 019

69 703 Retaining compounds

are applied as liquids and penetrate the surface roughness of the workpieces where they completely fill the voids of the parts to be joined and after they have fully cured establish an absolute adhesive force closure



69 703...

Contents	69 703...		Gap	Initiating torque thread	Compressive shear strength in	Fixture strength at room temp steel/steel minutes	Temperature resistance	Use
Gr.				Nm	Nmm ²		°C	a
50	001		0.01 - 0.10	25 - 30	17 - 22	5 - 10	-55 to +150	for gluing on and in shafts, bearings and bushings, very low viscosity, hard to remove
50	010		0.05 - 0.20	35 - 45	20 - 35	2 - 5	-55 to +150	High-strength retaining compound, for bonding parts to be joined which are subject to high dynamic stresses, fast curing
50	020		0.05 - 0.12	30 - 35	25 - 35	2 - 5	-55 to +175	Retaining compounds with particularly high strength for bonding in bearings and bushings, difficult to remove

69 706 Loctite 603 retainer



Oil-tolerant retainer with wide range of uses, particularly suitable for fixing bearings, tolerates slight oil-type soiling, for gaps from 0.05 mm to 0.1 mm wide, tested and recommended by leading rolling contact bearing manufacturers, Temperature range -55 to +150 °C

Contents ml	69 706...		Container
10	010		Bottle
50	050		Bottle
250	250		Bottle



...010

...050

...250

69 708 Loctite 638 retainer



Special retainer with very large gap filling capacity and fast fixture strength (setting). For gaps up to 0.25 mm wide. Temperature resistant up to 150 °C. Fixture strength (setting) achieved after 5 minutes

Contents ml	69 708...		Container
10	010		Bottle
50	050		Bottle
250	250		Bottle



...010

...050

...250

69 710 Loctite 648 retainer



All-purpose retainer with a temperature resistance up to 175 °C. Gap filling capacity up to 0.15 mm wide. Fixture strength (setting) after 5 minutes. For bonding bushings, bearings and other cylindrical objects

Contents ml	69 710...		Container
5	005		Bottle
10	010		Bottle
50	050		Bottle
250	250		Bottle



...005

...010

...050

...250



69 712 Flange sealants

are solvent-free sealants applied in liquid form; a seal is formed by air exclusion and metal contact which adapts to and reliably seals the shape of the area it is sealing



69 712...

Contents	69 712...		Gap	Fixture strength at room temp steel/steel minutes	Final strength hrs	Temperature resistance °C	Use
Size			mm				
50	001		0.3	20 - 40	6 - 24	-55 to +150	particularly suitable for smooth surfaces, can be applied to narrow webs with rolls or brushes, flexible
50	003		0.5	15 - 30	6 - 24	-55 to +150	all-purpose product for almost all production and repair uses, flexible

69 714 Loctite 5910 flexible flange sealants



permanently elastic surface sealant for non-torsionally rigid flanges and for plastic/plastic and metal/plastic combinations. Can also be used as replacement for solid seals

Contents ml	69 714...		Container
50	050		Cartridge
300	300		Cartridge



...050

...300

69 716 Loctite 518 flexible flange sealants



Seals gaps up to 0.5 mm thick, also ideal for aluminium flanges; due to its gel-like consistency, this product is ideally suitable for overhead work as well as for work on vertical surfaces (does not drip)

Contents ml	69 716...		Container
25	025		Syringe
50	050		Cartridge



...025

...050

69 718 Loctite 548 flexible flange sealants



Solid form. Recommended for all torsionally stiff iron, steel and aluminium flanges

Contents g	69 718...		Container
18	018		Stick



69 718 018



69 728 Threadlockers

for vibration and shock-free locking of all types of transversely and axially loaded threaded connections



69 728...

Contents	69 728...		For thread joints up to	Initiating torque	max. residual torque	Fixture strength at room temp steel/steel minutes	Temperature resistance	Use
Size				Thread Nm	Nmm²		°C	
50	001		M 56 R2	7 - 10	2 - 4	20 - 40	-55 to +150	low strength, sealing of coarse threads up to R2, removable
50	003		M 24	14 - 18	5 - 8	10 - 20	-55 to +150	medium hard, for locking screws and hydraulic connections, under vibration and impact, normal removability
50	005		M 36	17 - 22	8 - 12	10 - 20	-55 to +150	for locking screws subject to impact and vibration, all-purpose product, normal removability
50	007		M 20 R 1/2	28 - 35	50 - 65	10 - 20	-55 to +150	high-strength, all-purpose product for locking and sealing threaded bolts and cylindrical parts, difficult to remove
50	009		M 80 R3	10 - 15	12 - 18	15 - 30	-55 to +150	for large threaded parts, for locking and sealing

69 730 Loctite 243 threadlocker

locks screws, nuts and studs against loosening under vibrations and simultaneously seals, for threads up to M36, can be removed with normal tools, all-purpose product, can be used instead of Loctite 242

Contents ml	69 730...		Container
5	005		Bottle
10	010		Bottle
50	050		Bottle
250	250		Bottle

**69 732 Loctite 2701 threadlocker**

locks screws, nuts and studs subject to high vibration and impact stresses to prevent them from loosening and simultaneously seals. For permanent threaded connections which must not be allowed to come undone, difficult to remove with normal tools (heat to 300°C), also suitable for fixing parts to be joined together

Contents ml	69 732...		Container
5	005		Bottle
10	010		Bottle
50	050		Bottle



69 734 Threadlocker

...004 **Loctite 248** Suitable for all threaded connections made of metal. Recommended for uses requiring dismantling with hand tools - pumps, compressors, gears, machine tools, presses and retaining screws

...006 **Loctite 268** Recommended for threaded connections which generally do not have to be undone again - wheel suspensions, bearing covers and studs in pumps or engines

LOCTITE


69 734 004



69 734 006

Contents g	Thread size	69 734...		Functional strength hrs	Product property
19	up to M 50	004		after 6	medium strength
19	up to M 50	006		after 24	high strength

69 736 Screw assembly paste

for very high temperatures, low friction value, prevents sticking/fusing and sticking due to rusting of screws, fitting pieces/shims and sliding surfaces, temperature range of -30 °C to + 1200 °C

Contents g	69 736...		Container
500	001		Tin



69 736 001

69 740 Loctite 510 sealant

Anaerobic, single-component surface and flange sealant for sealing dimensionally stable metal surfaces. High-strength with a temperature resistance up to max. 200 °C. Cures under exclusion of under oxygen and metal contact of the fitting parts. Recommended for sealing stiff flanges in pumps, clutches/couplings, gears and engine blocks. For sealing dimensionally stable metal parts.

LOCTITE

Contents ml	69 740...		Container
50	050		Bottle



69 740 050

69 742 Loctite 542 sealant

Thread seal for highly stressed fine thread connections made of metal in hydraulic and pneumatic systems
For use in mechanical engineering, the automotive industry and in agricultural and construction machines

LOCTITE

Contents ml	69 742...		Container
10	010		Bottle
50	050		Bottle
250	250		Bottle



69 742 050

69 744 Loctite 572 sealant

Recommended for all coarse threads made of metal in which slow curing of the thread seal is required.
For example: Fittings, taps, valves.

LOCTITE

Contents ml	69 744...		Container
50	050		Bottle
250	250		Bottle



69 744 050

69 760 Cold metal

an epoxy kit for quick repairs, fills holes, grooves and scratches in tanks, barrels/drums, pipes, etc., adheres, among other things, to metal, wood and to damp substrates and under water.



69 760 114

Contents g	69 760...		Container
114	114		Bar

69 763 Liquid metal

an epoxy kit for in-situ repairs, fills cracks, holes, incorrectly made drill holes and much more, practical double syringe, ensures correct mix ratio

Contents ml	69 763...		Container
24	024		Double syringe
50	050		Double syringe
-	150		Press for 50 ml syringe



69 763...

69 770 Loctite 660 Quick Metal

for easy repair of bearings, bushings and shafts, high strength, simultaneously prevents rusting, particularly suitable for bridging large gaps, ideal for backlash compensation in knocked out featherkeys and wedge profiles

LOCTITE

Contents ml	69 770...		Container
50	050		Bottle



69 770 050

69 850 "Multi - Tape" repair tape

Self-welding breakdown and repair tape, used on power and distribution cables up to 46 kV, protects against corrosion on metal pipes. A universal product for repairing hoses too, which guarantees water and ozone resistance. Length: 5 m

Roll width mm	69 850...	
19	001	



69 850 001

69 852 Fabric tape

particularly strong adhesive, tearproof, UV resistant, also suitable for sealing metal or plastic pipes, 50 m long role

Roll width mm	69 852...	
50	001	



69 852 001

69 855 Adhesive tapes

PVC, self-adhesive, ideal visual aid for organising and sorting,
66 m long roll



Colour	69 855...		Roll width mm
white	001		19
red	005		19
yellow	008		19
blue	012		19

69 858 Masking tapes

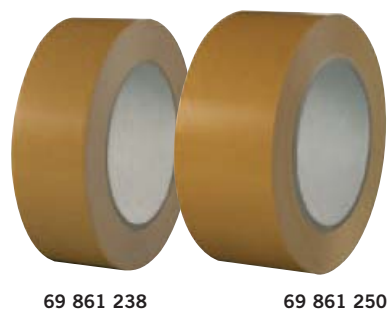
Standard quality, heat resistant up to 60 °C, for painting and
decorating work, 50 m long roll

Roll width mm	69 858...	
19	519	
30	530	
50	550	

**69 861 Double-sided adhesive tapes**

For connecting, holding and fixing all kinds of different materials.
Extremely tearproof and strongly adherent. Heat resistant up to
70 °C. Cold resistant up to -20 °C.

Roll width mm	Roll length m	69 861...	
38	25	238	
50	25	250	

**69 863 Packing tapes**

PP self-adhesive, 66 m long roll

Colour	Roll width mm	69 863...	
transparent	50	001	
brown	50	003	

**69 865 Adhesive tape dispenser**

with tape tension brake, for adhesive tapes No. 68 593...
Supplied without adhesive tape

for roll width mm	69 865...	
50	001	





Extract from the "Welding and Cutting" catalogue

96 201 Antox 71 E, colourless pickling paste

Uses: For removing oxide and scale and temper colours and tarnishing on welds, for pickling surfaces, very high yield

Container kg	Yield m/m ²	96 201...		Exposure time min.
2	80 - 150 / 5 - 8	101		5-60



96 201 101

96 201 Antox 73 E, pickling paste

Uses: Pickling of welds and surfaces in one operation

Container kg	Yield m/m ²	96 201...		Exposure time min.
10	60 - 10	201		5 - 60



96 201 201

96 201 Antox 80 E, pickling paste

Uses: Pickling stainless steel parts using immersion methods

Container kg	Yield m/m ²	96 201...		Exposure time min
30	approx. 4	403		5 - 60



96 201 403

96 201 Antox NP neutralisation paste

Uses: Neutralises highly acidic stainless steel pastes containing hydrofluoric acid, e.g. Antox 71 E, on the metal surface

Container kg	Yield m/m ²	96 201...		Exposure time min.
2	approx. 4	601		5 - 60



96 201 601

96 201 Pickling brush



96 201 713

Length mm	Type	96 201...		Head width mm
460	bent	713		50

96 280 KD Check

in 500 ml aerosol can

KARL DEUTSCH

Type	96 280...		Description
KD Check RDP-1, red	050		Penetrant
KD Check PR-2	100		Cleaner
KD Check SD-1	150		Developer



96 280 050

...100

...150

96 285 Indicator

Indicator/detecting agent for the magnetic powder crack test

KARL DEUTSCH

Type	96 285...	
Fluxa concentrate, black 0, 500 ml aerosol can	010	
Fluxa background colour, white, 400 ml aerosol can	050	



...010

...050

96 287 Indicator, fluorescent

Indicator/detecting agent for the magnetic powder crack test

KARL DEUTSCH

Type	96 287	
Fluxa concentrate, HS-0, 500 ml aerosol can	050	



...050

96 300 Crack tester

Non-destructive material test, red-white, according to the penetrant method for making cracks and pores visible, CFC free.

Procedure:

- Spray on Contrast Red
- Leave to take effect for at 5 minutes
- Wash off with cleaner and leave to dry
- Thinly spray on developer
- Imperfection becomes visible after 1-2 minutes

Description	96 300...		Container ml
Contrast Red	101		500
Cleaner	201		500
Developer, wipe resistant	301		500
Developer, can be wiped off	311		500



96 300 101



96 301 Welding anti-spatter spray

Silicone free. Prevents spatter from adhering to workpiece surfaces and to the gas nozzles during welding, CFC free
...203 Without dichloromethane

Container / aerosol can ml	96 301...	
400	201	
400	203	



96 301...

96 301 Düsofix welding anti-spatter paste

for MIG/MAG inert gas burner, prevents spatter from adhering

Container / can g	96 301...	
300	301	



96 301 301

96 301 Release agent/anti-spatter agent, ready to use

environmentally friendly release agent containing water for inert gas and electric welding

- Prevents spatter from burn onto the workpieces and therefore avoids laborious reworking of the workpieces
- Easy to remove the slag during arc welding with electrodes, also for V welds
- Very easy to clean welds
- Also prevents spatter from burning into the weld equipment heads during inert gas and contact welding
- If used properly, no subsequent difficulties during painting, zinc plating, electroplating, bluing, etc.
- Fully non-combustible and therefore safe to use at the workplace
- Product is not a dangerous substance and does not require mandatory labelling
- No waste spray cans
- No release of CFC/CH or combustible propane/butane

Contents	96 301...		Type
500 ml	220		Spray bottle
5 kg	225		Canister
10 kg	230		Canister
25 kg	235		Canister



96 301 230



96 301 220

96 502 Aluminium adhesive tape

...301 - ...307 with masking tape

Width mm	96 502...	
25	301	
38	304	
50	307	
25	321	
38	324	
50	327	



96 502...