

HERMANN JAEGER GMBH - HAMBURG / GERMANY



TOOLS - 1010.7

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HERMANN JAEGER GMBH - HAMBURG / GERMANY

ARCH PUNCHES - DIN 7200 - MADE IN GERMANY

Series 010

for cardboard, rubber, leather, etc.

Range 1,0 to 7,0 mm diam. increasing by 0,5

Range 7,0 to 120 mm diam. increasing by 1,0 mm

INCH sizes from 1/32 to 4.1/2"



No. 010

ROUND PUNCHES - DIN 7200 - MADE IN GERMANY

Series 020

for cardboard, rubber, leather, etc.

Range 1,0 to 7,0 mm diam. increasing by 0,5

Range 7,0 to 25 mm diam. increasing by 1,0 mm

INCH sizes from 1/32 to 1"



No. 020

ARCH PUNCHES / ROUND PUNCHES IN SETS

Series 012 contains Arch Punches of series 010
packed in plastic roll-bags

Art. 012.0810 = 8 pcs. 3 - 25 mm
3-6-8-10-12-16-20-25 mm

Art. 012.0510 = 10 pcs. 3 - 25 mm
3-5-7-8-10-13-16-19-22-25 mm

other sets are available

Series 022 contains Round Punches of series 020

Art. 022.0052 = 10 pcs. 3 - 25 mm
3-5-7-8-10-13-16-19-22-25 mm

other sets are available

No. 012



EYELET PUNCHES FOR H+B EYELETS



Order No.	mm	weight/kg
1550000	00	0,575
1550001	0	0,580
1550010	1	0,600
1550020	2	0,650
1550030	3	0,625
1550040	4	0,625
1550050	5	0,625
1550060	6	0,625
1550070	7	0,625
1550080	8	0,625
1550090	9	0,850
1550100	10	0,850
1550110	11	1,080
1550120	12	1,080
1550130	13	1,300
1550140	14	1,300

REVOLVING PUNCH AND EYELET PLIER

Order No.	Length	Weight	Handles
0920-3601	225 mm 9"	324 g	plastic- coated / red
	Eyelets		
0920-3620	'A' 19g	iron nickel-plated	
0920-3620	'B' 22g	iron nickel-plated	
0920-3620	'C' 28g	iron nickel-plated	
0920-3620	'A' 22g	polished brass	
0920-3620	'B' 28g	polished brass	
0920-3620	'C' 31g	polished brass	



Automatic lock function, nickel-plated, ergonomical shaped plastic-handles.



HERMANN JAEGER GMBH - HAMBURG / GERMANY

STENCILS, MADE FROM ZINC PLATE, DIN 1451

Numbers 0 - 9	Letters A - Z	Sizes mm
2010	3010	10 mm
2015	3015	15 mm
2020	3020	20 mm
2025	3025	25 mm
2030	3030	30 mm
2040	3040	40 mm
2050	3050	50 mm
2060	3060	60 mm
2070	3070	70 mm
2080	3080	80 mm
2090	3090	90 mm
2100	3100	100 mm
2120	3120	120 mm
2150	3150	150 mm
2180	3180	180 mm
2200	3200	200 mm
2250	3250	250 mm
2300	3300	300 mm

bigger sizes are available, please specify



NUMBER & LETTER PUNCHES

S- Quality, pointed
for marking workpieces
with a strength of 600-800 N/mm²
Hardness at the engraving 58-60 HRC
up to size 15 mm packed in blue plastic boxes

No. 100
No. 101

No. 100 = Numbers from 0 - 9 = 9 pcs.
No. 101 = Capital Letters from A - Z + sign & = 27 pcs.

Size mm	Sq. X L mm	weights 0-9	A - Z
1-3	6 x 65	150 g	500 g
4	7 x 65	200 g	600 g
5	8 x 65	300 g	800 g
6	9 x 75	400 g	1200 g
7	11 x 76	600 g	1850 g
8	11 x 76	600 g	1850 g
10	12 x 80	800 g	2300 g
12	14 x 80	1100 g	3100 g
15	16 x 85	1500 g	4300 g
16	16 x 85	1500 g	4300 g
20	15 x 25 x 95	2500 g	7400 g



RP- Quality, with round-face-dot-style character
for marking workpieces
with a strength of up to 1600 N/mm²
Hardness at the engraving 58-60 HRC
Hardness at the stamping head 38-46 HRC
up to size 10 mm packed in blue plastic boxes

No. 143
No. 144

No. 143 = Numbers from 0 - 9 = 9 pcs.
No. 144 = Capital Letters from A - Z + sign & = 27 pcs.

Size mm	Sq. X L mm	weights 0-9	A - Z
2	7 x 75	300 g	800 g
3	8 x 75	350 g	1000 g
4	9 x 78	500 g	1300 g
5	10 x 78	600 g	1600 g
6	12 x 84	850 g	2400 g
8	16 x 90	1600 g	4600 g
10	16 x 90	1600 g	4600 g



NUMBER & LETTER PUNCHES

R- Quality, pointed
with low-stress engraving and hardened and
tempered stamping heads, silky-dulled design
Hardness at the engraving 58-60 HRC
Hardness at the stamping head 38-46 HRC

No. 140
No. 141

No. 100 = Numbers from 0 - 9 = 9 pcs.
No. 101 = Capital Letters from A - Z + sign & = 27 pcs.

Size mm	Sq. X L mm	weights 0-9	A - Z
2	7 x 65	300 g	800 g
3	8 x 75	350 g	1000 g
4	9 x 78	500 g	1300 g
5	10 x 78	600 g	1600 g
6	12 x 84	850 g	2400 g
8	16 x 90	1600 g	4600 g
10	16 x 90	1600 g	4600 g



EUROTYPE Fount Set

Assortment of type stamps with a size of character
from 1 up to 5 mm, including a type holder for
manual use (tempered stamping head) or
mechanical use (shank for installation in a press),
in an unbreakable plastic box.

No. 165

All pieces are nickel-plated (rustproof)

Contents: 100 pcs. Types
A-Z and 0-9,
/ slash,
. full stop,
, comma,
- hyphen and blank spacers



European-Norm

Size of characters mm	content pcs.	measurements mm
1,0	19	1,5 x 4 x 19
1,5	19	1,5 x 4 x 19
2,0	14	2,0 x 4 x 19
2,5	15	2,5 x 6 x 19
3,0	13	3,0 x 6 x 19
4,0	10	4,0 x 8 x 19
5,0	8	5,0 x 8 x 19



MASTUS



LEAD SEALING PLIERS



25/0000p	Lead Sealing Plier 130 mm polished
25/000p	Lead Sealing Plier 150 mm polished
25/00p	Lead Sealing Plier 170 mm polished
25/0Ap	Lead Sealing Plier 190 mm polished
25/0Bp	Lead Sealing Plier 220 mm polished
25/0000npr	Lead Sealing Plier 130 mm nickel-plated red PVC-coated
25/000npr	Lead Sealing Plier 150 mm nickel-plated red PVC-coated
25/00npr	Lead Sealing Plier 170 mm nickel-plated red PVC-coated
25/0Anpr	Lead Sealing Plier 190 mm nickel-plated red PVC-coated
25/0Bnpr	Lead Sealing Plier 220 mm nickel-plated red PVC-coated
25/0000npb	Lead Sealing Plier 130 mm nickel-plated blue PVC-coated
25/000npb	Lead Sealing Plier 150 mm nickel-plated blue PVC-coated
25/00npb	Lead Sealing Plier 170 mm nickel-plated blue PVC-coated
25/0Anpb	Lead Sealing Plier 190 mm nickel-plated blue PVC-coated
25/0Bnpb	Lead Sealing Plier 220 mm nickel-plated blue PVC-coated
25/0000np	Lead Sealing Plier 130 mm nickel-plated
25/000np	Lead Sealing Plier 150 mm nickel-plated
25/00np	Lead Sealing Plier 170 mm nickel-plated
25/0Anp	Lead Sealing Plier 190 mm nickel-plated
25/0Bnp	Lead Sealing Plier 220 mm nickel-plated



31/9Ap	Ticket Plier 120 mm polished w. standard hole 3 mm diam.
31/10Ap	Ticket Plier 145 mm polished w. standard hole 3 mm diam.
31/11Ap	Ticket Plier 165 mm polished w. standard hole 3 mm diam.
31/9Anp	Ticket Plier 120 mm nickel-plated w. standard hole 3 mm diam.
31/10Anp	Ticket Plier 145 mm nickel-plated w. standard hole 3 mm diam.
31/11Anp	Ticket Plier 165 mm nickel-plated w. standard hole 3 mm diam.

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GRIP WITH WIRE CUTTER

Order No.	Length	Weight	Capacity	
0100-0104	110 mm 4.5/16"	110 g	22 mm 7/8"	No. 10-110
0100-0105	140 mm 5.1/2"	170 g	30 mm 1.1/8"	
0100-0107	180 mm 7"	355 g	35 mm 1.3/8"	No. 10-180
0100-0110	250 mm 10"	545 g	50 mm 2"	No. 10-250
0100-0112	300 mm 12"	900 g	65 mm 2.1/2"	No. 10-300

Semi-circular gripping jaws.

Application field: round and flat materials



PRISMA-GRIP

Order No.	Length	Weight	Capacity	
0110-0118	180 mm 7"	350 g	30mm 1.1/8"	No. 12-180
0110-0125	250 mm 10"	555 g	35mm 1.3/8"	
0110-0130	300 mm 12"	900 g	50mm 2"	No. 12-300

Longitudinal groove in the top jaw.

Application field: round and flat materials



PARALLEL-PLUS-GRIP

Order No.	Length	Weight	Capacity	
0150-0150	250 mm 10"	580 g	45mm 1.3/4"	No. 15-250

Combined jaw shape with one pivoting jaw.

Application field: round and flat materials



PARALLEL-GRIP

Order No.	Length	Weight	Capacity	
0160-0160	250 mm 10"	700 g	50 mm 2"	No. 16-250

For parallel clamping.

Application field: flat and shaped materials



GRIP WITH STRAIGHT JAWS

Order No.	Length	Weight	Capacity	
0200-0207	180 mm 7"	355 g	35 mm 1.3/8"	No. 20-180
0200-0210	250 mm 10"	510g	40 mm 1.1/2"	
				No. 20-250

Application field: flat materials.



IDEAL-GRIP

Order No.	Length	Weight	Capacity	
0250-0251	180 mm 7"	370 g	35 mm 1.3/8"	No. 25-180
0250-0252	250 mm 10"	575 g	50 mm 2"	
				No. 25-250

Combined jaw shape.

Application field: flat, round, shaped and square materials.



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CHAIN-GRIP-PLIER			
Order No.	Length	Weight	Capacity
0280-0280	250 mm 10"	930 g	150 mm 6"
Spare Chain 0280-1280		315 g	150 mm 6"

No. 28-250

No. 28-1280



The spare and extension chain doubles the capacity to diam. 300 mm /12"

WELDING-GRIP			
Order No.	Length	Weight	Capacity
0300-0300	280 mm 11"	790 g	60 mm 2.3/8"

with steel jaws

No. 30-280sj



Order No.	Length	Weight	Capacity
0300-0301	280 mm 11"	935 g	70 mm 2.3/4"

with malleable cast iron jaws

No. 30-250cj



GRIP FOR TUBES			
Order No.	Length	Weight	Capacity
0320-0320	280 mm 11"	790 g	10-90 mm 3/4"-3.1/2"

with steel jaws

No. 32-280sj



Order No.	Length	Weight	Capacity
0320-0321	280 mm 11"	935 g	10-90 mm 3/4"-3.1/2"

with malleable cast iron jaws

No. 32-280cj



C-CLAMP-GRIP			
Order No.	Length	Weight	Capacity
0340-0340	175 mm 7"	235 g	50 mm 2"
0340-0341	280 mm 11"	710 g	90 mm 3.1/2"

No. 34-175

No. 34-280



Order No.	Length	Weight	Capacity
0340-0342	460 mm 18"	1090 g	220 mm 9.1/2"
0340-0343	600 mm 24"	1345 g	320 mm 12.1/2"

No. 34-460

No. 34-600



Order No.	Length	Weight	Capacity
0340-0344	500 mm 20"	1520 g	350 mm 13.3/4"

No. 34-500



Application field: ideal for bulky workpieces

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PARALLEL-C-CLAMP-GRIP

Order No.	Length	Weight	Capacity
0350-0350	175 mm 7"	260 g	40 mm 1.1/2"
0350-0351	280 mm 11"	780 g	90 mm 3.1/2"

with moveable jaws

No. 35-175

No. 35-280



Order No.	Length	Weight	Capacity
0350-0352	460 mm 18"	1170 g	225 mm 8.3/4"
0350-0353	600 mm 24"	1415 g	295 mm 11.3/4"

with moveable jaws

No. 35-460

No. 35-600



Order No.	Protective caps, pair
0350-0355	

No. 0350-0355



LONG-NOSE-GRIP

Order No.	Length	Weight	Capacity
0360-0364	130 mm 5"	115 g	30 mm 1.3/16"
0360-0360	165 mm 6.1/2"	190 g	40 mm 1.1/2"
0360-0361	240 mm 9.1/2"	380 g	55 mm 2.11/64"

No. 36-130

No. 36-165

No. 36-240



Application field: ideal for gripping in tapering spaces.

GRIP FOR SHEET-METAL

Order No.	Length	Weight	Capacity
0370-0370	180 mm 7"	470 g	45 mm 1.3/4"

Width of jaws 80 mm
3.1/8"

Application field: ideal for bending sheet metal

No. 37-180



PINCH-OFF-GRIP

Order No.	Length	Weight	Capacity
0380-0380	250 mm 10"	500 g	25mm 1"

Forged jaws

No. 38-250



Application field: brass and copper pipes used in refrigeration and heating systems.

TUCAN - GRIP

Order No.	Length	Weight	Capacity
Tucan	210 mm	400 g	45 mm

TUCAN



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FITTINGS WRENCH			
Order No.	Length	Weight	Capacity
0450-0800	275 mm	700 g	60mm
	11"		2.3/8"
	burnished		
0450-0802	275 mm	700 g	60mm
	11"		2.3/8"
	chromium-plated		
0450-0820	Protective jaw set		

No. 80-275bu

No. 80-275cp

No. 82



No. 80-275bu

No. 80-275cp

No. 82



Burnished, with polished top box, with protective jaws.

Chromium-plated, with red handle, with protective jaws.

Application field: bathroom area.

VALVE-SPRING-COMPRESSOR			
Order No.	Length	Weight	Capacity
0500-0500	290 mm	1175 g	70 - 225 mm
	11.1/2"		3 - 9"
	with straight jaws		
0500-0510	290 mm	1290 g	40 - 225 mm
	11.1/2"		1.3/4 - 9"
	with straight and curved jaws		



Valve Spring Compressor No. 50 is a C-shaped tool with a red handle and a threaded rod with a conical base. It is designed to compress valve springs.



Valve Spring Compressor No. 51 is a C-shaped tool with a red handle and a threaded rod with a conical base. It is designed to compress valve springs. The image shows two versions of the tool, one with straight jaws and one with curved jaws.

No. 50

No. 51



With straight jaws.

With straight and curved jaws.

Changeable jaws, bright nickel plated,
application field: light motor vehicle engines

Order No.	Length	Weight	Capacity
0500-520	390 mm	3210 g	85 - 280 mm
	15"		3.3/8 - 11"

No. 52



With straight and curved jaws.

Changeable jaws, bright nickel plated,
application field: heavy engines
(e. g. bus, tractor, truck etc.)



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PISTON-RING-PLIER					
Order No.	Length	Weight	Capacity		
0600-0601	200 mm 8"	235 g	50 - 100 mm 2 - 4"		No. 60/1
0600-0602	240 mm 9.1/2"	340 g	90 - 150 mm 3.1/2 - 6"		No. 60/2

Bright nickel plated, handles plastic-coated.

Application field: dismounting and fitting piston rings.



PISTON-RING-COMPRESSOR				
Order No.	Height	Weight	Capacity	 No. 70/0
0700-0700	50 mm 2"	115 g	40 - 75 mm 1.1/2 - 3"	

Infinitely adjustable with clamping wrench, special spring steel, tightening strap blue, ties white, lock and spanner bright nickel plated.

Application field: motor vehicle pistons.

Order No.	Height	Weight	Capacity	
0700-0701	80 mm 3"	245 g	57 - 125 mm 2.1/4 - 5"	No. 70/1
0700-0711	100 mm 4"	265 g	57 - 125 mm 2.1/4 - 5"	No. 70/1a
0700-0702	80 mm 3"	285 g	90 - 175 mm 3.1/2 - 7"	No. 70/2
0700-0721	100 mm 4"	310 g	90 - 175 mm 3.1/2 - 7"	No. 70/2a

Infinitely adjustable with clamping wrench, special spring steel, tightening strap blue, ties white, lock and spanner bright nickel plated.

Application field: motor vehicle pistons.

Order No.	Height	Weight	Capacity	
0700-0703	165 mm 6.1/2"	540 g	90 - 175 mm 3.1/2 - 7"	No. 70/3

Infinitely adjustable with clamping wrench, special spring steel, tightening strap blue, ties white, lock and spanner bright nickel plated.

Application field: motor vehicle pistons.



STRAP-WRENCH				
Order No.	Length	Weight	Capacity	
0740-0741	230 mm	285 g	160 mm	
	9"		6.1/2"	
0740-0742	230 mm	310 g	240 mm	
	9"		9.1/2"	
Order No.	Replacement strap			
0740-0743	Nr. 0749-0741			No. 74/1E
	730 mm (28.3/4") / 70 g			
0740-0744	Nr. 0749-0742			No. 74/2E
	920 mm (36.1/4") / 90 g			

Bright nickel plated, non-slip textile strap, plastic-coated handle.

Application field: motor vehicle, bathroom area



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STRAP-WRENCH

Order No.	Length	Weight	Capacity
	280 mm		280 mm
0740-0745	11"	440 g	11"
Order No.	Replacement strap		
	Nr. 0749-0745		
0740-0745	1000 mm (39.1/2")	100 g	

No. 74/5

No. 74/5E



Chromium-plating, with forged handle made of chrome-vanadium-steel, heavy model, with non-slip textile strap.
Application field: ideal for trucks and construction machinery.

FILTER-WRENCH

Order No.	Length	Weight	Capacity
	230 mm		70 - 75 mm
0760-0765	9"	465 g	2.3/4 - 3"
	240mm		85 - 95 mm
0760-0766	9.1/2"	475 g	3.1/3-3.3/4"

No. 76/5

No. 76/6

Hinged handle black

Order No.	Length	Weight	Capacity
	230 mm		65 - 80 mm
0760-0767	9"	470 g	2.1/2-3.5/32"

No. 76/7

Hinged handle black

Order No.	Length	Weight	Capacity
	250 mm		75 - 110 mm
0760-0768	10"	505 g	3 - 4.5/16"

No. 76/8

Hinged handle black.

Order No.	Length	Weight	Capacity	Toothing
	140 mm		65 - 80 mm	5
0760-0771	5.1/2"	185 g	2.1/2-3.5/32"	No. 77/1
	160mm		80-110 mm	7
0760-0772	6.1/4"	220 g	3.5/32-4.5/16"	No. 77/2

With 1/2"-square drive

Order No.	Length	Weight	Capacity	Toothing
	210 mm		65 - 80 mm	5
0760-0773	8.1/4"	285 g	2.1/2-3.5/32"	No. 77/3
	230 mm		75-110 mm	7
0760-0774	9"	320 g	3 - 4.5/16"	No. 77/4

Standard handle red.

Order No.	Length	Weight	Capacity
	130 mm		60 - 80 mm
0760-0761	5.1/8"	205 g	2.3/8-3.5/32"
	150mm		70-110 mm
0760-0762	5.7/8"	215 g	2.3/4-4.5/16 "

No. 76/1

No. 76/2

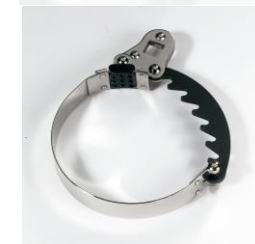
Bright nickel plated, with 1/2"-square drive

Order No.	Length	Weight	Capacity
	220 mm		60 - 80 mm
0760-0763	8.5/8"	305 g	2.3/8 - 3.5/32'
	240 mm		70-110 mm
0760-0764	9.1/2"	325 g	2.3/4 - 4.5/16'

No. 76/3

No. 76/4

Bright nickel plated, with plastic-coated handle



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REVOLVING PUNCH			
Order No.	Length	Weight	
0910-3500	225mm 9"	260 g	bright
0910-3501	225mm 9"	260 g	bright nickel-plated
0910-3505	225mm 9"	260 g	powder-coated

No. 350



Additional hole diameter indicator, automatic lock function, exchangeable tubes Ø 2,0/ 2,5/ 3,0/ 3,5/ 4,0/ 4,5 mm, illustration nickel-plated. Finishes: bright, zink-plated, powder-coated, chrome-plated.



Order No.	Length	Weight	
0910-3509	225mm 9"	325 g	Handles plastic-coated / red

Bright nickel-plated

No. 350



REVOLVING PUNCH AND EYELET PLIER			
Order No.	Length	Weight	
0920-3601	225 mm 9"	324 g	Handles plastic-coated / red
	Eyelets	100 piece	
0920-3620	'A' 19g	iron nickel-plated	
0920-3620	'B' 22g	iron nickel-plated	
0920-3620	'C' 28g	iron nickel-plated	
0920-3620	'A' 22g	polished brass	
0920-3620	'B' 28g	polished brass	
0920-3620	'C' 31g	polished brass	

No. 360



Automatic lock function, nickel-plated, ergonomical shaped plastic-handles.

LEVER ACTION-REVOLVING PUNCH PLIER		
Order No.	Length	Weight
0930-3701	250 mm 10"	430 g

No. 370

Additional hole diameter indicator, nickel-plated, ergonomical shaped plastic-handles, exchangeable tubes Ø 2,0-4,5 mm

70% less force.



ACCESSORY PARTS	
Order No.	Safety-tube-exchanger
0950-3750	
Order No.	Tube-exchange-set
0950-3761	2,0/2,5/3,0/3,5/4,0/4,5 mm
Order No.	Tube-enlargement-set
0950-3762	1,0/1,5/5,0/5,5/6,0 mm

No. 375



exchanger, extended application range (patent).



128/1= cross ref. 187-180

Catapilar type Strap Wrench 690 mm, green belt, in polybag

E128/1= cross ref. 187E-180

Spare Belt for Art. No. 128/1=ELORA187-180

128/1= cross ref. 187-180BOX

Catapilar type Strap Wrench 690 mm, green belt, in polybag + blue box

CIRCLIP PLIERS

CV Circlip Plier A 1/130 mm- 5.1/4" ext. straight
 CV Circlip Plier A 2/175 mm- 7 " ext. straight
 CV Circlip Plier A 3/220 mm- 8.3/4" ext. straight
 CV Circlip Plier A 4/310 mm-12.1/4" ext. straight
 CV Circlip Plier A11/130 mm- 5.1/4" ext. bent
 CV Circlip Plier A21/175 mm- 7 " ext. bent
 CV Circlip Plier A31/220 mm- 8.3/4" ext. bent
 CV Circlip Plier A41/310 mm-12.1/4" ext. bent
 CV Circlip Plier J 1/130 mm- 5.1/4" int. straight
 CV Circlip Plier J 2/175 mm- 7 " int. straight
 CV Circlip Plier J 3/220 mm- 8.3/4" int. straight
 CV Circlip Plier J 4/310 mm-12.1/4" int. straight
 CV Circlip Plier J11/130 mm- 5.1/4" int. bent
 CV Circlip Plier J21/175 mm- 7 " int. bent
 CV Circlip Plier J31/220 mm- 8.3/4" int. bent
 CV Circlip Plier J41/310 mm-12.1/4" int. bent



Finish:
 chrome plated
 gun metal
 plastic coated hdl's.



int. bent J11 - J41



ext. bent A11 - A41



int. straight J1 - J4



ext. straight A1 - A4



external, chrome-plated, w/long spring



external, plastic-dipped hdl's. w/standard spring

Circlip ring size	8-25 mm	18-75 mm	40-100 mm	85-200 mm
int.	J1 / J11	J2 / J21	J3 / J31	J4 / J41

Circlip ring size	10-28 mm	19-60 mm	40-100 mm	85-200 mm
ext.	A1 / A11	A2 / A21	A3 / A31	A4 / A41



- 136/175 Adjustable Wrench ROLLBLITZ 175 mm- 7 "
- 136/225 Adjustable Wrench ROLLBLITZ 225 mm- 9 "
- 136/275 Adjustable Wrench ROLLBLITZ 275 mm-10.5"
- 136/315 Adjustable Wrench ROLLBLITZ 315 mm-12 "
- 136/360 Adjustable Wrench ROLLBLITZ 360 mm-14 "

- 236/225 Curved Adjustable Wrench ROLLBLITZ 225 mm - 9"
- 236/315 Curved Adjustable Wrench ROLLBLITZ 315 mm - 12"



MADE IN AUSTRIA



Please see WILL main catalogue



Oberflächenfinish und Griffgestaltung

Finish and handle design

	N ohne Griffbeschichtung without handle coating	P Griffe mit Tauchplastik plastic coated handles	SL schwere, transparente Griffe heavy transparent handles	SLU schwere, gedeckte Griffe heavy opaque handles
A3 Gelenkflächen poliert joint area polished				
B3 Gelenkflächen poliert, phosphatiert joint area polished, phosphated				
C3 Gelenkflächen poliert, verchromt joint area polished, chromium plated				
C4 Gelenkflächen hochglanz- poliert, verchromt joint area mirror polished, chromium plated				
C5 hochglanzpoliert, verchromt mirror polished, chromium plated				

PLIERS



SAW schwere, transparente Griffe heavy transparent handles	SAWU schwere, gedeckte Griffe heavy opaque handles	VDE-SF direkt aufgespritzte 1000 V Isoliergriffe directly injected 1000 V insulating handles	2K schwere, gedeckte 2-Komponenten-Griffe heavy opaque 2-component handles	2K-ESD schwere, gedeckte 2-Komponenten-Griffe, elektrisch ableitend (dissipativ) heavy opaque 2-component handles, electric diverted (dissipativ)
				
				
				
				
				
				



Original **ODUR-*Fit***





Art. 139 Saw Set Plier 190 mm hammer lacquer indiv. in polybag/12pcs. carton



No. 1100 - BERGER Gardening Shear,
straight, aluminium handles, replaceable
blade + hook, length 215 mm



No. 1104 - BERGER Gardening Shear,
angle cutting head, aluminium handles,
replaceable blade + hook, length 185
mm



No. 1200 - BERGER Gardening Shear,
drop forged, repl. blade, length 215 mm



No. 1746 - BERGER Gardening Shear,
30° angled cutting head, drop forged,
multicomp.hdl.,length 195 mm



No. 1760 - BERGER Gardening Shear,
drop forged, length 215 mm



No. 2100 - BERGER Grass Shear,
chromed blade 120 mm, ring lock, length
310 mm



No. 4280 - BERGER Lopping Shear,
forged, hook and blade replaceable,
length 830 mm



No. 4590 - BERGER Hedge Shear
comfort, chromed, waved edges 250mm,
buffer, length 540 mm



No. 5600 - BERGER Transplanter, red,
size 85 x 305 mm



No. 5610 - BERGER Transplanter, red,
size 35 x 285 mm

BERGER Hoe and Fork, heart shaped,
red metal, size 65 x 296 mm



61510



61511

No. 61511 - BERGER Pruning Saw no. 61510 with safety cover no. 5115, wooden handle



61952



61953

No. 61953 - BERGER Pole Saw no. 61952 with safety cover no. 5119

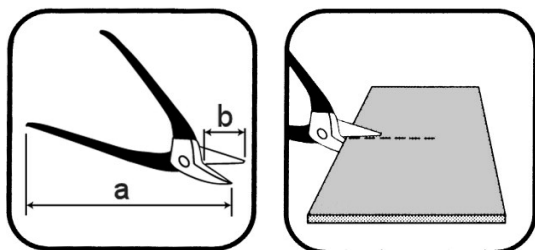


No. 74800 - BERGER Telescopic handle, alu., 3-parts, 1.75 - 4.65 m adjustable, min. 1.75 m

BERGER

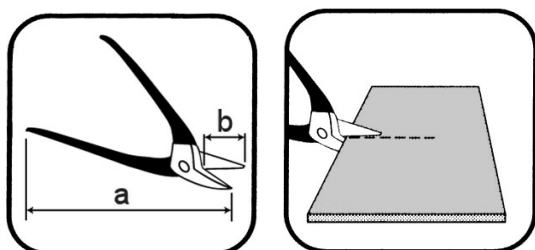
Gardening Tools - Made in Germany

TIN SNIPS



D-159 English pattern snips for long straight cuts

D159/200	English pattern Tin Snip 200 mm - 8" without spring
D159/250	English pattern Tin Snip 250 mm - 10" without spring
D159/300	English pattern Tin Snip 300 mm - 12" without spring
D159/350	English pattern Tin Snip 350 mm - 14" without spring
D159/250-F	English pattern Tin Snip 250 mm - 10" w. normal spring
D159/300-F	English pattern Tin Snip 300 mm - 12" w. normal spring
D159/350-F	English pattern Tin Snip 350 mm - 14" w. normal spring



D-146 American pattern snips for long straight cuts

D146P/200	American pattern Tin Snip 200 mm - 8" PVC-coated handles
D146P/250	American pattern Tin Snip 250 mm - 10" PVC-coated handles
D146P/300	American pattern Tin Snip 300 mm - 12" PVC-coated handles
D146P/350	American pattern Tin Snip 350 mm - 14" PVC-coated handles

JEWELLERS' SNIPS



D-70-1



D-72-1



D-74-1



D-76-1

CIRCULAR CUTTERS



U-2-200	Circular gasket cutter, 1 knife, till diam. 200 mm
U-2-300	Circular gasket cutter, 1 knife, till diam. 300 mm
U-2-400	Circular gasket cutter, 1 knife, till diam. 400 mm
U-2-600	Circular gasket cutter, 1 knife, till diam. 600 mm
U-2-800	Circular gasket cutter, 1 knife, till diam. 800 mm
U-2-1000	Circular gasket cutter, 1 knife, till diam. 1000 mm
U-2-1200	Circular gasket cutter, 1 knife, till diam. 1200 mm
U-3-200	Circular gasket cutter, 2 knives, till diam. 200 mm
U-3-300	Circular gasket cutter, 2 knives, till diam. 300 mm
U-3-400	Circular gasket cutter, 2 knives, till diam. 400 mm
U-3-600	Circular gasket cutter, 2 knives, till diam. 600 mm
U-3-800	Circular gasket cutter, 2 knives, till diam. 800 mm
U-3-1000	Circular gasket cutter, 2 knives, till diam. 1000 mm
U-3-1200	Circular gasket cutter, 2 knives, till diam. 1200 mm
U-8	Spare knife
U-9	Knife holder

HERMANN JAEGER GMBH - HAMBURG / GERMANY

DOUBLE OPEN-ENDED SPANNERS, CV-STEEL, DIN 3110



WIESEMANN

MADE IN GERMANY

No. 200

5,5 x 7	125	20	10
6 x 7	125	22	10
7 x 8	138	29	10
7 x 9	140	38	10
8 x 9	138	30	10
8 x 10	145	38	10
9 x 11	155	51	10
10 x 11	155	46	10
10 x 12	155	48	10
11 x 13	162	58	10
11 x 13	172	65	10
12 x 13	170	64	10
12 x 14	170	69	10
13 x 14	180	79	10
13 x 15	187	86	10
13 x 17	192	107	10
14 x 15	188	87	10
14 x 17	195	93	10
16 x 17	200	116	10
16 x 18	200	119	10
17 x 19	215	154	10
18 x 19	215	149	10
19 x 22	230	196	10
19 x 24	220	234	10
20 x 22	230	188	10
21 x 23	240	224	10
22 x 24	245	254	10
24 x 26	260	294	10
24 x 27	260	320	10
25 x 28	275	356	10
27 x 29	295	460	10
27 x 30	295	456	10
27 x 32	295	440	10
30 x 32	315	460	10
30 x 36	325	714	5
32 x 36	325	674	5
36 x 41	360	984	5



Sets in carton / Sets in plastic wallet

6 pcs.	8 pcs.	12 pcs.
6 x 7	6 x 7	6 x 7
8 x 9	8 x 9	8 x 9
10 x 11	10 x 11	10 x 11
12 x 13	12 x 13	12 x 13
14 x 15	14 x 15	14 x 15
16 x 17	16 x 17	16 x 17
	18 x 19	18 x 19
	20 x 22	20 x 22
		21 x 23
		24 x 26
		25 x 28
		27 x 32

Sets in display carton

8 pcs.
6 x 7
8 x 9
10 x 11
12 x 13
14 x 15
16 x 17
18 x 19
20 x 22



HERMANN JAEGER GMBH - HAMBURG / GERMANY

DOUBLE OPEN-ENDED SPANNERS, CV-STEEL, DIN 3110



WIESEMANN

1/4 x 5/16	145	35	10
5/16 x 3/8	140	30	10
3/8 x 7/16	156	44	10
7/16 x 1/2	170	65	10
1/2 x 9/16	170	70	10
9/16 x 5/8	185	100	10
19/32 x 11/16	190	84	10
5/8 x 11/16	200	127	10
5/8 x 3/4	215	154	10
3/4 x 7/8	230	216	10
13/16 x 7/8	230	216	10
15/16 x 1	265	308	10
1.1/16 x 1.1/4	290	478	10

MADE IN GERMANY

No. 200



Sets in carton

6 pcs.

8 pcs.

3/8 x 7/16	1/4 x 5/16
1/2 x 9/16	3/8 x 7/16
19/32 x 11/16	1/2 x 9/16
5/8 x 3/4	19/32 x 11/16
13/16 x 7/8	5/8 x 3/4
15/16 x 1	13/16 x 7/8
	15/16 x 1
	1.1/16 x 1.1/4



DOUBLE-OFFSET RINGSPANNERS, CV-STEEL, DIN 838

Sets in carton / Sets in plastic wallet

6 pcs.

8 pcs.

12 pcs.

6 x 7	6 x 7	6 x 7
8 x 9	8 x 9	8 x 9
10 x 11	10 x 11	10 x 11
12 x 13	12 x 13	12 x 13
14 x 15	14 x 15	14 x 15
16 x 17	16 x 17	16 x 17
	18 x 19	18 x 19
	20 x 22	20 x 22
		21 x 23
		24 x 26
		25 x 28
		27 x 32

Sets in display carton

8 pcs.

6 x 7
8 x 9
10 x 11
12 x 13
14 x 15
16 x 17
18 x 19
20 x 22



No. 100

Sets in carton

6 pcs.

8 pcs.

3/8 x 7/16	1/4 x 5/16
1/2 x 9/16	3/8 x 7/16
19/32 x 11/16	1/2 x 9/16
5/8 x 3/4	19/32 x 11/16
13/16 x 7/8	5/8 x 3/4
15/16 x 1	13/16 x 7/8
	15/16 x 1
	1.1/16 x 1.1/4



HERMANN JAEGER GMBH - HAMBURG / GERMANY

DOUBLE-OFFSET RINGSPANNERS, CV-STEEL, DIN 838



WIESEMANN

MADE IN GERMANY

6 x 7	180	46	10
7 x 8	180	52	10
8 x 9	195	68	10
8 x 10	190	65	10
9 x 10*	205	81	10
9 x 11	205	89	10
10 x 11	205	81	10
10 x 12	225	110	10
10 x 13	225	100	10
11 x 13*	225	120	10
11 x 14	225	120	10
12 x 13	225	115	10
12 x 14	225	115	10
13 x 14	230	149	10
13 x 15	230	152	10
13 x 17	250	171	10
14 x 15	235	144	10
14 x 17	245	182	10
16 x 17	255	194	10
16 x 18	260	202	10
17 x 19	295	238	10
18 x 19	295	234	10
19 x 22	305	296	10
19 x 24	315	318	10
20 x 22	305	288	10
21 x 23	320	334	10
22 x 24	315	332	10
24 x 26	340	448	10
24 x 27	340	444	10
24 x 30	350	558	10
25 x 28	350	534	10
27 x 30	355	570	10
27 x 32	370	604	10
30 x 32	370	592	10
30 x 36	410	852	5
32 x 36	410	822	5
36 x 41	455	1192	5
1/4 x 5/16	180	54	10
5/16 x 3/8	190	65	10
3/8 x 7/16	200	72	10
7/16 x 1/2	215	101	10
1/2 x 9/16	235	137	10
9/16 x 5/8	250	190	10
19/32 x 11/16	255	192	10
5/8 x 11/16	255	198	10
5/8 x 3/4	280	236	10
3/4 x 7/8	305	320	10
13/16 x 7/8	300	294	10
15/16 x 1	335	466	10
1.1/16x1.1/4	370	504	10



No. 100



INCH Sizes



HERMANN JAEGER GMBH - HAMBURG / GERMANY

DOUBLE-OFFSET RINGSPANNERS, CV-STEEL, DIN 838



WIESEMANN

MADE IN GERMANY

6 x 7	95	12	10
8 x 9	110	22	10
10 x 11	120	33	10
12 x 13	140	48	10
14 x 15	150	56	10
16 x 17	165	70	10
17 x 19	180	93	10
18 x 19	180	86	10
19 x 22	200	110	10
20 x 22	200	110	10
21 x 23	210	140	10
24 x 27	250	216	10
25 x 28	260	262	10
30 x 32	290	330	10
32 x 36	335	362	5



No. 140



Sets in carton / Sets in plastic wallet

6 pcs.	8 pcs.
6 x 7	6 x 7
8 x 9	8 x 9
10 x 11	10 x 11
12 x 13	12 x 13
14 x 15	14 x 15
17 x 19	16 x 17
	18 x 19
	20 x 22



DOUBLE-OFFSET RINGSPANNERS, BI-HEXAGONAL CV-STEEL



6 x 7	115	30	10
8 x 9	130	38	10
10 x 11	150	54	10
12 x 13	170	68	10
14 x 15	190	111	10
16 x 17	220	133	10
18 x 19	250	202	10
20 x 22	280	274	10
21 x 23	285	320	10
24 x 26	300	360	10
25 x 28	325	480	10
27 x 32	340	500	10

No. 150



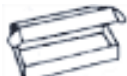
Sets in carton / Sets in plastic wallet

6 pcs.	8 pcs.	12 pcs.	
6 x 7	6 x 7	6 x 7	21 x 23
8 x 9	8 x 9	8 x 9	24 x 26
10 x 11	10 x 11	10 x 11	25 x 28
12 x 13	12 x 13	12 x 13	27 x 32
14 x 15	14 x 15	14 x 15	
16 x 17	16 x 17	16 x 17	
	18 x 19	18 x 19	
	20 x 22	20 x 22	



HERMANN JAEGER GMBH - HAMBURG / GERMANY

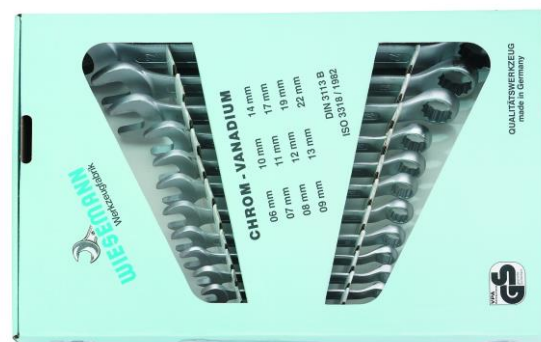
COMBINATION SPANNERS, CV-STEEL, DIN 3113-B



WIESEMANN

MADE IN GERMANY

No. 300



INCH s



6	110	17	10
7	120	22	10
8	130	28	10
9	140	31	10
10	150	36	10
11	160	54	10
12	170	65	10
13	175	71	10
14	185	80	10
15	195	93	10
16	225	119	10
17	210	130	10
18	235	142	10
19	250	196	10
20	270	210	10
21	285	248	10
22	295	262	10
23	295	260	5
24	330	386	5
25	355	418	5
26	355	404	5
27	360	438	5
28	360	444	5
29	395	626	5
30	395	626	5
32	435	722	5
1/4	110	19	10
5/16	130	29	10
3/8	145	42	10
7/16	160	50	10
1/2	170	74	10
9/16	185	86	10
19/32	195	100	10
5/8	210	121	10
11/16	220	130	10
3/4	250	192	10
13/16	280	252	10
7/8	295	268	10
15/16	330	390	5
1	360	432	5
1,1/16	360	444	5
1.1/8	395	638	5
1.1/4	440	762	5

Sets in carton

06-22 mm	12 pcs.	6 -14, 17, 19, 22
06-22 mm	17 pcs.	6 - 22
06-32 mm	25 pcs.	6 - 28, 30, 32

Sets in plastic wallet

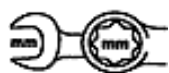
08-17 mm	6 pcs.	8, 10, 11, 13, 15, 17
08-19 mm	8 pcs.	8, 9, 10, 11, 13, 15, 17, 19
06-22 mm	12 pcs.	6, 8 - 15, 17, 19, 22
06-22 mm	12 pcs.	6 - 11, 13, 14, 15, 17, 19, 22

Sets in carton

3/8 - 7/8	8 pcs.	3/8, 7/16, 1/2, 9/16 5/8, 11/16, 3/4, 7/8
1/4 - 1/2	12 pcs.	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 15/16, 1

HERMANN JAEGER GMBH - HAMBURG / GERMANY

COMBINATION SPANNERS, CV-STEEL, DIN 3113-A, RING SIDE 15° OFFSET



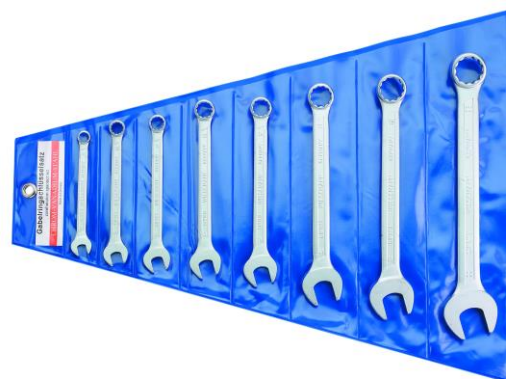
WIESEMANN

MADE IN GERMANY

No. 350

6	100	15	10
7	110	19	10
8	120	23	10
9	130	26	10
10	140	37	10
11	150	42	10
12	160	56	10
13	170	63	10
14	180	74	10
15	190	90	10
16	200	100	10
17	210	120	10
18	220	149	10
19	230	168	10
20	250	180	10
21	250	200	10
22	270	228	10
23	270	282	5
24	290	324	5
25	290	312	5
26	310	412	5
27	310	390	5
28	310	432	5
29	340	500	5
30	340	510	5
32	370	566	5
34	420	820	5
36	450	1015	5
38	450	1015	5
41	480	1325	5
1/4	100	14	10
5/16	120	23	10
3/8	130	31	10
7/16	150	42	10
1/2	170	65	10
9/16	180	73	10
19/32	175	75	10
5/8	200	113	10
11/16	210	129	10
3/4	320	163	10
13/16	250	210	10
7/8	270	256	10
15/16	290	308	10
1	290	362	10
1.1/16	310	452	10
1.1/8	310	392	10
1.1/4	370	590	10

INCH sizes



Sets in carton 6 pcs. 3/8-3/4
3/8, 7/16, 1/2, 9/16, 5/8, 3/4

Sets in carton 8 pcs. 1/4-3/4
1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4

Sets in carton 12 pcs. 1/4-1.1/4
1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4
7/8, 1, 1.1/16, 1.1/4

Sets in carton / Sets in plastic wallet

08-19 mm 6 pcs. 8, 10, 11, 13, 17, 19
08-22 mm 8 pcs. 8, 10, 11, 13, 14, 17, 19, 22
06-22 mm 12 pcs. 6 - 14, 17, 19, 22

06-32 mm 12 pcs. 6, 8, 10, 13, 14, 17, 19, 22, 24, 27, 30, 32

Sets in display carton

08^~22 mm 8 pcs. 8, 10, 11, 13, 14, 17, 19, 22

HERMANN JAEGER GMBH - HAMBURG / GERMANY

SLOGGING RING WRENCH, DIN 7444, DROP FORGED STEEL, GREY



WIESEMANN

MADE IN GERMANY

22	165	230	1
24	165	230	1
27	180	320	1
30	190	360	1
32	190	360	1
36	205	500	1
41	230	700	1
46	240	950	1
50	255	1100	1
55	270	1360	1
60	280	1600	1
65	300	2100	1
70	330	2800	1
75	330	2700	1
80	360	3900	1
85	360	3600	1
90	390	5400	1
95	390	4900	1
100	420	6200	1
105	420	6000	1
110	450	8600	1
115	450	8100	1
120	480	9550	1
125	480	9700	1
130	520	13200	1
135	520	12900	1
140	520	13800	1
145	580	19500	1
150	580	18200	1
155	580	17600	1
160	580	19000	1
165	650	28600	1
170	650	28000	1
175	650	27400	1
180	650	26300	1
185	700	33000	1
190	700	32500	1
195	700	32000	1
200	700	31500	1



No. 600



Other sizes up to 235 mm as well as AF- or W-size upon request

HERMANN JAEGER GMBH - HAMBURG / GERMANY

OPEN JAW SLOGGING WRENCH, DIN 133, DROP FORGED STEEL, GREY



WIESEMANN

MADE IN GERMANY

24	180	300	1
27	180	300	
30	190	400	1
32	190	500	1
36	215	700	1
41	235	900	1
46	255	1200	1
50	275	1500	1
55	300	1900	1
60	320	2600	1
65	340	3300	1
70	375	4200	1
75	375	4100	1
80	408	6000	1
85	408	5900	1
90	445	7800	1
95	445	7700	1
100	485	11700	1
105	485	11500	1
110	510	14100	1
115	510	13300	1
120	545	16400	1
125	545	15500	1
130	575	19800	1
135	575	19200	1
140	575	19000	1
145	640	27300	1
150	640	27100	1
155	640	27000	1
160	640	26500	1
165	715	40000	1
170	715	39000	1
175	715	38000	1
180	715	37000	1
185	715	36800	1
190	800	39500	1
195	800	39000	1
200	800	38500	1
205	800	38000	1
210	810	38020	1



No. 610



Other sizes MM- as well as AF- or W-size upon request

HOOK WRENCHES

54585	Hook Wrench DIN 1819A with nose, 12-14
54593	Hook Wrench DIN 1819A with nose, 16- 20
54601	Hook Wrench DIN 1819A with nose, 25- 28
54619	Hook Wrench DIN 1819A with nose, 30- 32
54627	Hook Wrench DIN 1819A with nose, 34- 36
54387	Hook Wrench DIN 1819A with nose, 38- 45
54635	Hook Wrench DIN 1819A with nose, 40- 42
54643	Hook Wrench DIN 1819A with nose, 45- 50
54650	Hook Wrench DIN 1819A with nose, 52- 55
54668	Hook Wrench DIN 1819A with nose, 58- 62
54403	Hook Wrench DIN 1819A with nose, 65- 70
54676	Hook Wrench DIN 1819A with nose, 68- 75
54684	Hook Wrench DIN 1819A with nose, 80- 90
54429	Hook Wrench DIN 1819A with nose, 85- 92
54692	Hook Wrench DIN 1819A with nose, 95-100
54445	Hook Wrench DIN 1819A with nose, 98-105
54700	Hook Wrench DIN 1819A with nose, 110-115
54718	Hook Wrench DIN 1819A with nose, 120-130
54726	Hook Wrench DIN 1819A with nose, 135-145
54734	Hook Wrench DIN 1819A with nose, 155-165
54742	Hook Wrench DIN 1819A with nose, 180-195
54767	Hook Wrench DIN 1819A with nose, 230-245
54783	Hook Wrench DIN 1819A with nose, 280-300
54791	Hook Wrench DIN 1819A with nose, 320-345
54817	Hook Wrench DIN 1819A with nose, 380-400

54874	Hook Wrench DIN 1810B with pin, 12 - 14
54882	Hook Wrench DIN 1810B with pin, 16 - 18
54890	Hook Wrench DIN 1810B with pin, 20 - 22
54908	Hook Wrench DIN 1810B with pin, 25 - 28
54916	Hook Wrench DIN 1810B with pin, 30 - 32
54924	Hook Wrench DIN 1810B with pin, 34 - 36
54932	Hook Wrench DIN 1810B with pin, 40 - 42
54940	Hook Wrench DIN 1810B with pin, 45 - 50
54957	Hook Wrench DIN 1810B with pin, 52 - 55
54965	Hook Wrench DIN 1810B with pin, 58 - 62
54973	Hook Wrench DIN 1810B with pin, 68 - 75
54981	Hook Wrench DIN 1810B with pin, 80 - 90
54999	Hook Wrench DIN 1810B with pin, 95 -100
55004	Hook Wrench DIN 1810B with pin, 110 -115
55012	Hook Wrench DIN 1810B with pin, 120 -130
55020	Hook Wrench DIN 1810B with pin, 135 -145
55038	Hook Wrench DIN 1810B with pin, 155 -165
55046	Hook Wrench DIN 1810B with pin, 180 -195
55061	Hook Wrench DIN 1810B with pin, 230 -245

51201	Adj. Hook Wrench with nose, 20-42 mm dia.
51219	Adj. Hook Wrench with nose, 40-90 mm dia.
51227	Adj. Hook Wrench with nose, 95-165 mm dia.



DIN 1819 A



DIN 1810 B



51201

REVERSABLE NUT ROTATOR

	range	pin size	
40477	7 - 40	1,5 x 2	Reversible Nut Rotator
40485	7 - 40	2,0 x 2,5	Reversible Nut Rotator
40493	7 - 40	2,5 x 3,0	Reversible Nut Rotator
40618	11 - 60	3 x 4	Reversible Nut Rotator
40626	11 - 60	4 x 5	Reversible Nut Rotator
40634	11 - 60	5 x 6	Reversible Nut Rotator
40758	14 - 100	5 x 6	Reversible Nut Rotator
40766	14 - 100	6 x 7	Reversible Nut Rotator
40774	14 - 100	8 x 8	Reversible Nut Rotator
40899	22 - 125	8 x 8	Reversible Nut Rotator
40907	22 - 125	10 x 10	Reversible Nut Rotator
40915	22 - 125	12 x 12	Reversible Nut Rotator
50914	11 - 60	3	Reversible Nut Rotator, cranked
50922	11 - 60	4	Reversible Nut Rotator, cranked
50930	14 - 90	5	Reversible Nut Rotator, cranked
50948	14 - 90	6	Reversible Nut Rotator, cranked



40618



50914



Hexagon

All tools are manufactured from high quality chrome-vanadium steel (59 Cr-Mo-V4) - with a black or nickel plated (on a copper flash) finish.

HaFu Ballpoint are also available with a chrome-plated finish.

Manufactured only to recognised ISO specifications (ISO 2936, ISO 2936L, DIN 6911)

The very latest manufacturing technology ensures HaFu tools conform to the highest dimensional accuracy.

Chamfered version: the entire head of the tool is machined for maximum accuracy.

High quality Hexagon Key Wrenches incorporating the HaFu-Ballpoint.

Sets of HaFu profiles are available in FABLIX®, FABLIX DUO®, FOLDEX®, FOLDEX DUO® holders, as well as the new HaFu point-of-sale box and many other arrangements.



TORX®



TAMPER-TORX®

As an authorised licensee, HaFu produces all TORX®-Tools from the original blueprint and references gauges of Camcar Textron USA. By adopting their most upto-the-minute standards, we guarantee the performance and precision of these tools.

Tamper-TORX®-Keys with a drilled hole – for securing with a locking pin.

HaFu combines years of experience – producing the established range of TORX®-Tools – with manufacture of the very latest series of TORX®-Ballpoint products.



Multi-Spline Key

XZN-Wrenches conforming to DIN ISO 65253.

This profile is designed specifically for screws subjected to high torsional stress.



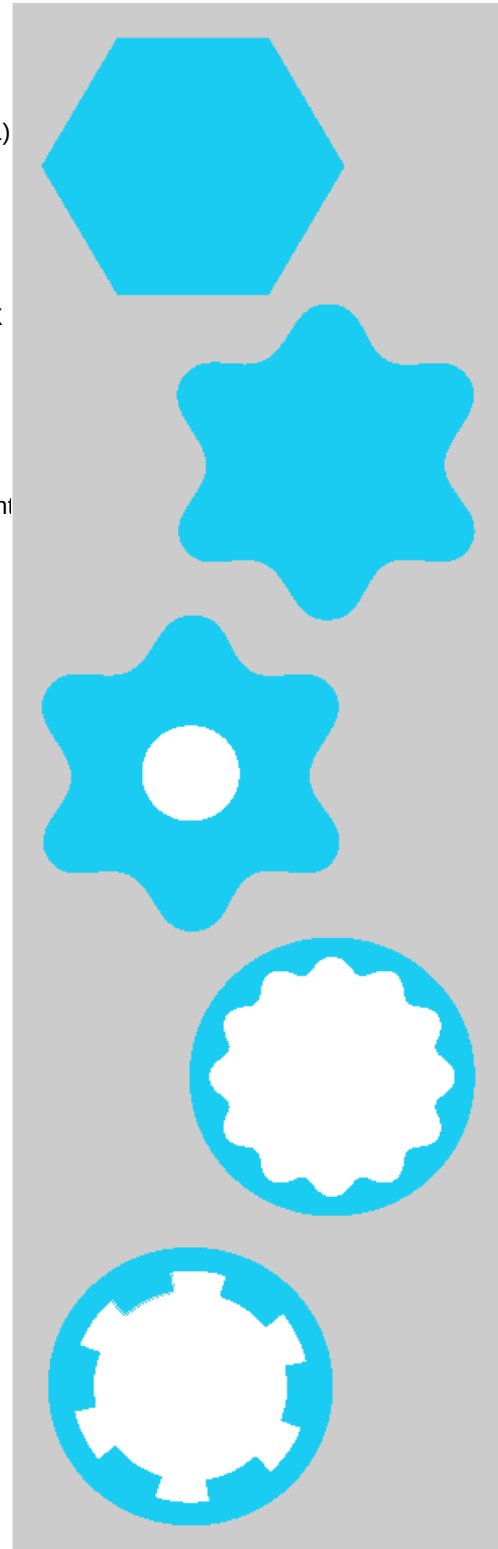
Spline Key

Ribe-Spline Key

Special Tools

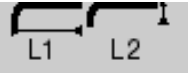
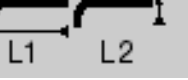
Working directly from blueprints, HaFu manufactures a wide variety of special tools – both hexagon and round profiles.

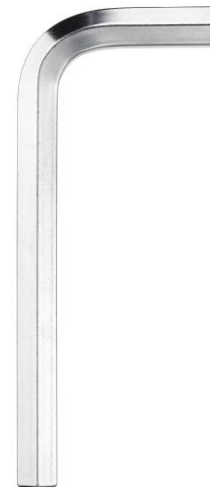
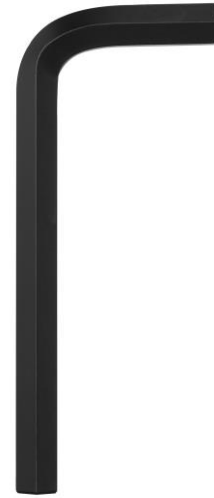
Reduction; double bending; special surfaces.



200 Hexagon Key Wrenches ISO 2936

Chrome-Vanadium-Steel (59 Cr-Mo-V4)

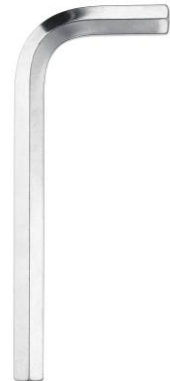
Order-No. black	Order-No. nickel pl.	 mm	 L1 L2	
200-007-01		0.7	33 x 7	100
200-009-01		0.9	33 x 11	100
200-015-01	200-015-02	1.5	46.5 x 15.5	100
200-020-01	200-020-02	2	52 x 18	100
200-025-01	200-025-02	2.5	58.5 x 20.5	100
200-030-01	200-030-02	3	66 x 23	100
200-035-01	200-035-02	3.5	69.5 x 25.5	100
200-040-01	200-040-02	4	74 x 29	100
200-045-01	200-045-02	4.5	80 x 30.5	100
200-050-01	200-050-02	5	85 x 33	100
200-055-01	200-055-02	5.5	90.5 x 35.5	100
200-060-01	200-060-02	6	96 x 38	100
200-070-01	200-070-02	7	102 x 41	50
200-080-01	200-080-02	8	108 x 44	50
200-090-01	200-090-02	9	114 x 47	25
200-100-01	200-100-02	10	122 x 50	25
200-110-01	200-110-02	11	129 x 53	25
200-120-01	200-120-02	12	137 x 57	25
200-130-01	200-130-02	13	145 x 63	20
200-140-01	200-140-02	14	154 x 70	20
200-150-01	200-150-02	15	161 x 73	20
200-160-01	200-160-02	16	168 x 76	10
200-170-01	200-170-02	17	177 x 80	10
200-180-01	200-180-02	18	188 x 84	10
200-190-01	200-190-02	19	199 x 89	10
200-200-01	200-200-02	20	200 x 90	5
200-210-01	200-210-02	21	211 x 96	5
200-220-01	200-220-02	22	222 x 102	5
200-240-01	200-240-02	24	248 x 114	bulk
200-270-01	200-270-02	27	277 x 127	bulk
200-300-01	200-300-02	30	315 x 142	bulk
200-320-01	200-320-02	32	347 x 157	bulk
200-360-01	200-360-02	36	391 x 176	bulk
200-410-01		41	442 x 194	bulk
200-460-01		46	490 x 212	bulk
200-500-01		50	570 x 230	bulk
200-550-01		55	605 x 235	bulk
Order-No. black	Order-No. nickel pl.	 mm	 L1 L2	
SB-packed				
200-015-81	200-015-82	1.5	46.5 x 15.5	10
200-020-81	200-020-82	2	52 x 18	10
200-025-81	200-025-82	2.5	58.5 x 20.5	10
200-030-81	200-030-82	3	66 x 23	10
200-040-81	200-040-82	4	74 x 29	10
200-050-81	200-050-82	5	85 x 33	10
200-060-81	200-060-82	6	96 x 38	10
200-070-81	200-070-82	7	102 x 41	5
200-080-81	200-080-82	8	108 x 44	5
200-100-81	200-100-82	10	122 x 50	5
200-120-81	200-120-82	12	137 x 57	5



200 Hexagon Key Wrenches ISO 2936

Chrome-Vanadium-Steel (59 Cr-Mo-V4)

Order-No. black	Order-No. nickel pl.	A.F. = mm	L1 L2	
200-028-51		0.28 = 0.7	33 x 7	100
200-035-51		0.35 = 0.9	33 x 11	100
200-364-51	200-364-52	3/64 = 1.19	41 x 13	100
200-005-51	200-005-52	0.05 = 1.27	41 x 13	100
200-116-51	200-116-52	1/16 = 1.59	47 x 16	100
200-564-51	200-564-52	5/64 = 1.98	52 x 18	100
200-332-51	200-332-52	3/32 = 2.38	58 x 20	100
200-764-51	200-764-52	7/64 = 2.77	66 x 23	100
200-180-51	200-180-52	1/8 = 3.18	66 x 23	100
200-964-51	200-964-52	9/64 = 3.57	72 x 26	100
200-532-51	200-532-52	5/32 = 3.97	74 x 29	100
200-316-51	200-316-52	3/16 = 4.76	85 x 33	100
200-732-51	200-732-52	7/32 = 5.56	91 x 36	100
200-140-51	200-140-52	1/4 = 6.35	96 x 38	100
200-932-51	200-932-52	9/32 = 7.14	102 x 42	50
200-516-51	200-516-52	5/16 = 7.94	108 x 44	50
200-113-51	200-113-52	11/32 = 8.73	114 x 47	50
200-380-51	200-380-52	3/8 = 9.53	122 x 50	25
200-716-51	200-716-52	7/16 = 11.11	130 x 53	25
200-120-51	200-120-52	1/2 = 12.70	145 x 63	20
200-916-51	200-916-52	9/16 = 14.29	154 x 69	20
200-580-51	200-580-52	5/8 = 15.88	176 x 76	10
200-340-51	200-340-52	3/4 = 19.05	199 x 89	10
200-780-51	200-780-52	7/8 = 22.20	222 x 102	5
200-100-51	200-100-52	1 = 25.40	275 x 125	bulk



Order-No. black	Order-No. nickel pl.	A.F. = mm	L1 L2	
SB-packed				
200-116-91	200-116-92	1/16 = 1.59	47 x 16	10
200-564-91	200-564-92	5/64 = 1.98	52 x 18	10
200-332-91	200-332-92	3/32 = 2.38	58 x 20	10
200-180-91	200-180-92	1/8 = 3.18	66 x 23	10
200-532-91	200-532-92	5/32 = 3.97	74 x 29	10
200-316-91	200-316-92	3/16 = 4.76	85 x 33	10
200-732-91	200-732-92	7/32 = 5.56	91 x 36	10
200-140-91	200-140-92	1/4 = 6.35	96 x 38	10
200-516-91	200-516-92	5/16 = 7.94	108 x 44	5
200-380-91	200-380-92	3/8 = 9.53	122 x 50	5
200-120-91	200-120-92	1/2 = 12.70	145 x 63	5

Hexagon - metric

200 Hexagon Key Wrenches ISO 2936

Chrome-Vanadium-Steel (59 Cr-Mo-V4)

Order-No. black	Order-No. nickel pl.		Series 225
225-166-01	225-166-02	2-6 mm	2-2.5-3-4-5-6 = 6-pce.
225-180-01	225-180-02	2-10 mm	2-2.5-3-4-5-6-8-10 = 8-pce.



Order-No. black	Order-No. nickel pl.		Series 230
230-166-01	230-166-02	2-6 mm	2-2.5-3-4-5-6 = 6-pce.
230-180-01	230-180-02	2-10 mm	2-2.5-3-4-5-6-8-10 = 8-pce.
230-104-01	230-104-02	2-14 mm	2-2.5-3-4-5-6-8-10-12-14 = 10-pce.



Order-No. black	Order-No. nickel pl.		Series 231
231-180-01	231-180-02	2-10 mm	2-2.5-3-4-5-6-8-10 = 8-pce.



Hexagon - inch

200 Hexagon Key Wrenches ISO 2936

Chrome-Vanadium-Steel (59 Cr-Mo-V4)

Order-No. black	Order-No. nickel pl.		Series 225
225-264-51	225-264-52	5/64-1/4"	5/64-3/32-1/8-5/32-3/16-1/4 = 6-pce.
225-288-51	225-288-52	5/64-3/8"	5/64-3/32-1/8-5/32-3/16-1/4-5/16-3/8 = 8-pce.



Order-No. black	Order-No. nickel pl.		Series 230
230-284-51	230-284-52	0.05-1/4"	0.05-1/16-5/64-3/32-1/8-5/32-3/16-1/4 = 8-pce.
230-208-51	230-208-52	0.05-3/8"	0.05-1/16-5/64-3/32-1/8-5/32-3/16-1/4-5/16-3/8 = 10-pce.



Order-No. black	Order-No. nickel pl.		Series 231
231-288-51	231-288-52	5/64-3/8"	5/64-3/32-1/8-5/32-3/16-1/4-5/16-3/8 = 8-pce.





Series 207 - red = metric / yellow = inch

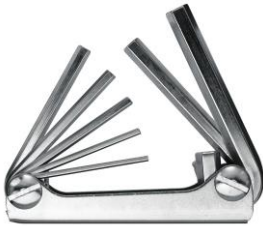
Series 235 - red = metric / yellow = inch



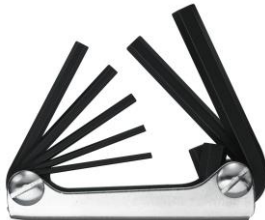
Series 238 - red = metric / yellow = inch



Series 208 - red = metric / yellow = inch



series 270



series 271 / 272 - red = metric / yellow = inch

Quality Tools

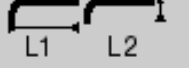


Made in Germany

Hexagon – metric

210 Hexagon Key Wrenches ISO 2936 L, extra long

Chrome-Vanadium-Steel (59 Cr-Mo-V4)

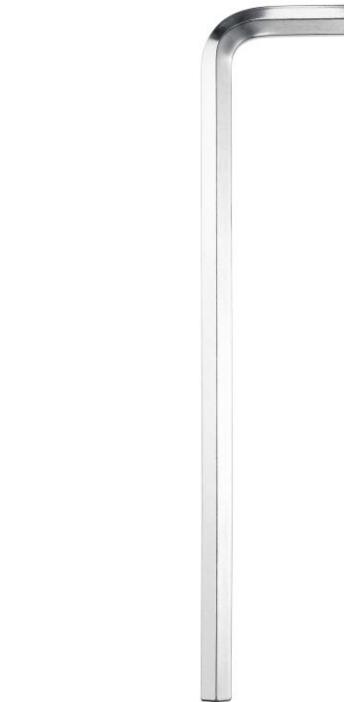
Order-No. black	Order-No. nickel pl.	 mm	 L1 L2	
210-015-01	210-015-02	1.5	91.5 x 15.5	50
210-020-01	210-020-02	2	102 x 18	50
210-025-01	210-025-02	2.5	114.5 x 20.!	50
210-030-01	210-030-02	3	129 x 23	50
210-035-01	210-035-02	3.5	140 x 25.5	50
210-040-01	210-040-02	4	144 x 29	50
210-045-01	210-045-02	4.5	156 x 30.5	50
210-050-01	210-050-02	5	165 x 33	50
210-055-01	210-055-02	5.5	175 x 35.5	50
210-060-01	210-060-02	6	186 x 38	50
210-070-01	210-070-02	7	197 x 41	25
210-080-01	210-080-02	8	208 x 44	25
210-090-01	210-090-02	9	219 x 47	25
210-100-01	210-100-02	10	234 x 50	25
210-110-01	210-110-02	11	247 x 53	10
210-120-01	210-120-02	12	262 x 57	10
210-130-01	210-130-02	13	277 x 63	10
210-140-01	210-140-02	14	294 x 70	10
210-170-01	210-170-02	17	337 x 80	5
210-190-01	210-190-02	19	379 x 89	5
210-220-01	210-220-02	22	422 x 102	5
210-240-01	210-240-02	24	472 x 114	bulk
210-270-01	210-270-02	27	527 x 127	bulk

Order-No. black	Order-No. nickel pl.	 mm	 L1 L2	
SB-packed				
210-015-81	210-015-82	1.5	91.5 x 15.5	10
210-020-81	210-020-82	2	102 x 18	10
210-025-81	210-025-82	2.5	114.5 x 20.!	10
210-030-81	210-030-82	3	129 x 23	10
210-040-81	210-040-82	4	144 x 29	10
210-050-81	210-050-82	5	165 x 33	10
210-060-81	210-060-82	6	186 x 38	10
210-070-81	210-070-82	7	197 x 41	5
210-080-81	210-080-82	8	208 x 44	5
210-100-81	210-100-82	10	234 x 50	5
210-120-81	210-120-82	12	262 x 57	5

210 Hexagon Key Wrenches ISO 2936 L, extra long

Chrome-Vanadium-Steel (59 Cr-Mo-V4)

Order-No. black	Order-No. nickel pl.	Series 213		
213-166-01	213-166-02	2–6 mm	2–2.5–3–4–5–6 = 6-pce.	
213-180-01	213-180-02	2–10 mm	2–2.5–3–4–5–6–8–10 = 8-pce.	



210 Hexagon Key Wrenches ISO 2936 L, extra long

Chrome-Vanadium-Steel (59 Cr-Mo-V4)

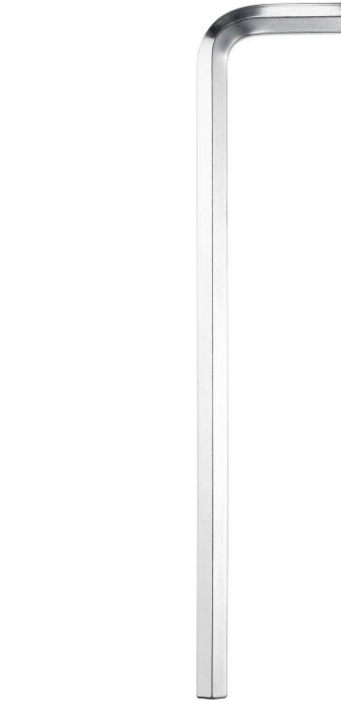
Order-No. black	Order-No. nickel pl.	A.F. = mm	L1 L2	
210-116-51	210-116-52	1/16 = 1.59	92 x 16	50
210-564-51	210-564-52	5/64 = 1.98	102 x 18	50
210-332-51	210-332-52	3/32 = 2.38	114 x 20	50
210-180-51	210-180-52	1/8 = 3.18	129 x 23	50
210-964-51	210-964-52	9/64 = 3.57	140 x 26	50
210-532-51	210-532-52	5/32 = 3.97	144 x 29	50
210-316-51	210-316-52	3/16 = 4.76	165 x 33	50
210-732-51	210-732-52	7/32 = 5.56	176 x 36	50
210-140-51	210-140-52	1/4 = 6.35	186 x 38	50
210-932-51	210-932-52	9/32 = 7.14	207 x 42	25
210-516-51	210-516-52	5/16 = 7.94	208 x 44	25
210-113-51	210-113-52	11/32 = 8.73	233 x 47	25
210-380-51	210-380-52	3/8 = 9.53	234 x 50	25
210-716-51	210-716-52	7/16 = 11.11	261 x 53	10
210-120-51	210-120-52	1/2 = 12.70	293 x 63	10
210-916-51	210-916-52	9/16 = 14.29	294 x 69	10
210-580-51	210-580-52	5/8 = 15.88	336 x 76	5
210-340-51	210-340-52	3/4 = 19.05	379 x 89	5
210-780-51	210-780-52	7/8 = 22.20	422 x 102	5
210-100-51	210-100-52	1 = 25.40	525 x 125	bulk

Order-No. black	Order-No. nickel pl.	A.F. = mm	L1 L2	
SB-packed				
210-116-91	210-116-92	1/16 = 1.59	92 x 16	10
210-564-91	210-564-92	5/64 = 1.98	102 x 18	10
210-332-91	210-332-92	3/32 = 2.38	114 x 20	10
210-180-91	210-180-92	1/8 = 3.18	129 x 23	10
210-532-91	210-532-92	5/32 = 3.97	144 x 29	10
210-316-91	210-316-92	3/16 = 4.76	165 x 33	10
210-732-91	210-732-92	7/32 = 5.56	176 x 36	10
210-140-91	210-140-92	1/4 = 6.35	186 x 38	10
210-516-91	210-516-92	5/16 = 7.94	208 x 44	5
210-380-91	210-380-92	3/8 = 9.53	234 x 50	5
210-120-91	210-120-92	1/2 = 12.70	293 x 63	5

210 Hexagon Key Wrenches ISO 2936 L, extra long

Chrome-Vanadium-Steel (59 Cr-Mo-V4)

Order-No. black	Order-No. nickel pl.		Series 213
213-264-51	213-264-52	5/64-1/4"	5/64-3/32-1/8-5/32- 3/16-1/4 = 6-pce.
213-288-51	213-288-52	5/64-3/8"	5/64-3/32-1/8-5/32-3/16- 1/4-5/16-3/8 = 8-pce.





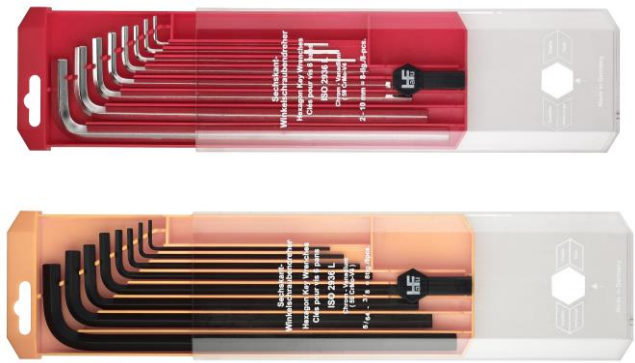
Series 211 - red = metric / yellow = inch



Series 224 / 214 - red = metric / yellow = inch



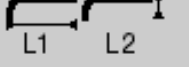
Series 217



Series 218

250 Hexagon Key Wrenches ISO 2936

Special steel

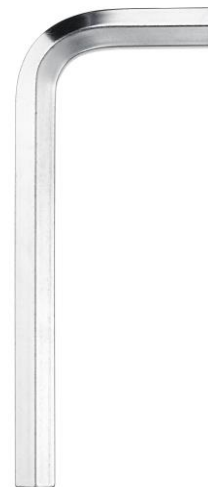
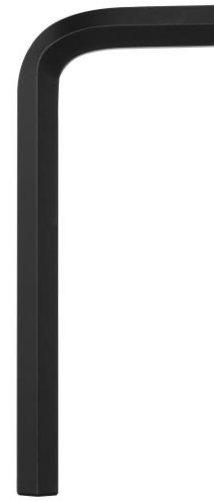
Order-No. black	Order-No. nickel pl.	 mm	 L1 L2	
250-015-01	250-015-02	1.5	46.5 x 15.5	100
250-020-01	250-020-02	2	52x18	100
250-025-01	250-025-02	2.5	58.5 x 20.5	100
250-030-01	250-030-02	3	66 x 23	100
250-035-01	250-035-02	3.5	69.5 x 25.5	100
250-040-01	250-040-02	4	74 x 29	100
250-045-01	250-045-02	4.5	80 x 30.5	100
250-050-01	250-050-02	5	85 x 33	100
250-055-01	250-055-02	5.5	90.5 x 35.5	100
250-060-01	250-060-02	6	96 x 38	100
250-070-01	250-070-02	7	102 x 41	50
250-080-01	250-080-02	8	108 x 44	50
250-090-01	250-090-02	9	114 x 47	25
250-100-01	250-100-02	10	122 x 50	25
250-110-01	250-110-02	11	129 x 53	25
250-120-01	250-120-02	12	137 x 57	25
250-130-01	250-130-02	13	145 x 63	20
250-140-01	250-140-02	14	154 x 70	20
250-150-01	250-150-02	15	161 x 73	20
250-160-01	250-160-02	16	168 x 76	10
250-170-01	250-170-02	17	177 x 80	10
250-180-01	250-180-02	18	188 x 84	10
250-190-01	250-190-02	19	199 x 89	10
250-200-01	250-200-02	20	200 x 90	5
250-210-01	250-210-02	21	211 x 96	5
250-220-01	250-220-02	22	222 x 102	5
250-240-01	250-240-02	24	248 x 114	bulk
250-270-01	250-270-02	27	277 x 127	bulk
250-300-01	250-300-02	30	315 x 142	bulk
250-320-01	250-320-02	32	347 x 157	bulk
250-360-01	250-360-02	36	391 x 176	bulk
250-410-01		41	442 x 194	bulk
250-460-01		46	490 x 212	bulk
250-500-01		50	570 x 230	bulk
250-550-01		55	605 x 235	bulk

Order-No. black	Order-No. nickel pl.
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255-186-01	255-186-02	1.5-6 mm	Series 255
255-180-01	255-180-02	2-10 mm	1.5-2-2.5-3-4-5-5.5-6 = 8-pce.
255-192-01	255-192-02	2-12 mm	2-2.5-3-4-5-6-8-10 = 8-pce.
			2-2.5-3-4-5-6-8-10-12 = 9-pce.

Order-No. black	Order-No. nickel pl.
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260-186-01	260-186-02	1.5-6 mm	Series 260
260-190-01	260-190-02	2-10 mm	1.5-2-2.5-3-4-5-5.5-6 = 8-pce.
260-102-01	260-102-02	2-12 mm	2-2.5-3-4-5-5.5-6-8-10 = 9-pce.
260-114-01	260-114-02	2-14 mm	2-2.5-3-4-5-5.5-6-8-10-12 = 10-pce.
			2-2.5-3-4-5-5.5-6-8-10-12-14 = 11-pce.



Quality Tools



Made in Germany

Hexagon - inch

250 Hexagon Key Wrenches

Special steel

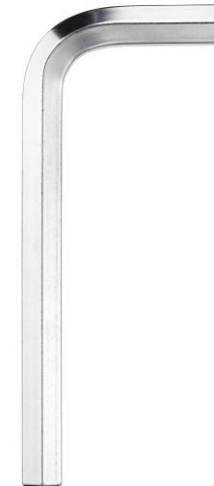
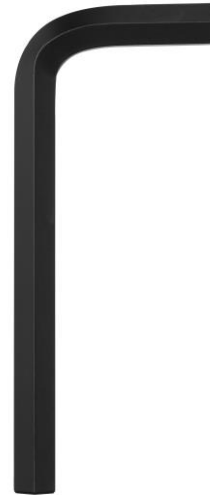
Order-No. black	Order-No. nickel pl.	A.F. = mm	L1 L2	
250-364-51	250-364-52	3/64 = 1.19	41 x 13	100
250-005-51	250-005-52	0,05 = 1.27	41 x 13	100
250-116-51	250-116-52	1/16 = 1.59	47 x 16	100
250-564-51	250-564-52	5/64 = 1.98	52 x 18	100
250-332-51	250-332-52	3/32 = 2.38	58 x 20	100
250-764-51	250-764-52	7/64 = 2.77	66 x 23	100
250-180-51	250-180-52	1/8 = 3.18	66 x 23	100
250-964-51	250-964-52	9/64 = 3.57	72 x 26	100
250-532-51	250-532-52	5/32 = 3.97	74 x 29	100
250-316-51	250-316-52	3/16 = 4.76	85 x 33	100
250-732-51	250-732-52	7/32 = 5.56	91 x 36	100
250-140-51	250-140-52	1/4 = 6.35	96 x 38	100
250-932-51	250-932-52	9/32 = 7.14	102 x 42	50
250-516-51	250-516-52	5/16 = 7.94	108 x 44	50
250-113-51	250-113-52	11/32 = 8.73	114 x 47	50
250-380-51	250-380-52	3/8 = 9.53	122 x 50	25
250-716-51	250-716-52	7/16 = 11.11	130 x 53	25
250-120-51	250-120-52	1/2 = 12.70	145 x 63	20
250-916-51	250-916-52	9/16 = 14.29	154 x 69	20
250-580-51	250-580-52	5/8 = 15.88	176 x 76	10
250-340-51	250-340-52	3/4 = 19.05	199 x 89	10
250-780-51	250-780-52	7/8 = 22.20	222 x 102	5
250-100-51	250-100-52	1 = 25.40	275 x 125	bulk

Order-No. black	Order-No. nickel pl.
--------------------	-------------------------

255-274-51	255-274-52	1/16-1/4"	1/16-5/64-3/32-1/8-5/32-3/16-1/4 = 7-pce.
255-288-51	255-288-52	5/64-3/8"	5/64-3/32-1/8-5/32-3/16-1/4-5/16-3/8 = 8-pce.
255-292-51	255-292-52	5/64-1/2"	5/64-3/32-1/8-5/32-3/16-1/4-5/16-3/8-1/2 = 9-pce.

Order-No. black	Order-No. nickel pl.
--------------------	-------------------------

260-284-51	260-284-52	1/16-1/4"	1/16-5/64-3/32-1/8-5/32-3/16-7/32-1/4 = 8-pce.
260-298-51	260-298-52	5/64-3/8"	5/64-3/32-1/8-5/32-3/16-7/32-1/4-5/16-3/8 = 9-pce.
260-202-51	260-202-52	5/64-1/2"	5/64-3/32-1/8-5/32-3/16-7/32-1/4-5/16-3/8-1/2 = 10-pce.
260-216-51	260-216-52	5/64-9/16"	5/64-3/32-1/8-5/32-3/16-7/32-1/4-5/16-3/8-1/2-9/16 = 11-pce.





Series 266 / 270 red = metric / yellow = inch



Series 266 red = metric / yellow = inch

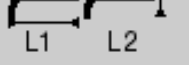


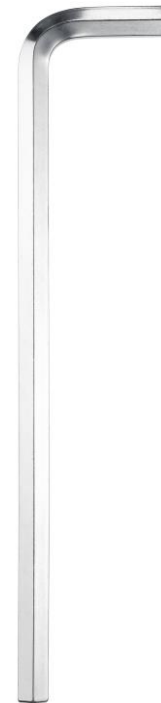
Series 281 red = metric / yellow = inch



280 Hexagon Key Wrenches ISO 2936 L, extra long

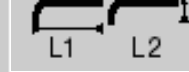
Special steel

Order-No. black	Order-No. nickel pl.	 mm	 L1 L2	
280-015-01	280-015-02	1.5	91.5 x 15.5	50
280-020-01	280-020-02	2	102 x 18	50
280-025-01	280-025-02	2.5	114.5 x 20.1	50
280-030-01	280-030-02	3	129 x 23	50
280-040-01	280-040-02	4	144 x 29	50
280-050-01	280-050-02	5	165 x 33	50
280-060-01	280-060-02	6	186 x 38	50
280-070-01	280-070-02	7	197 x 41	25
280-080-01	280-080-02	8	208 x 44	25
280-100-01	280-100-02	10	234 x 50	25
280-120-01	280-120-02	12	262 x 57	10
280-140-01	280-140-02	14	294 x 70	5
280-170-01	280-170-02	17	337 x 80	5
280-190-01	280-190-02	19	379 x 89	5



280 Hexagon Key Wrenches ISO 2936 L, extra long

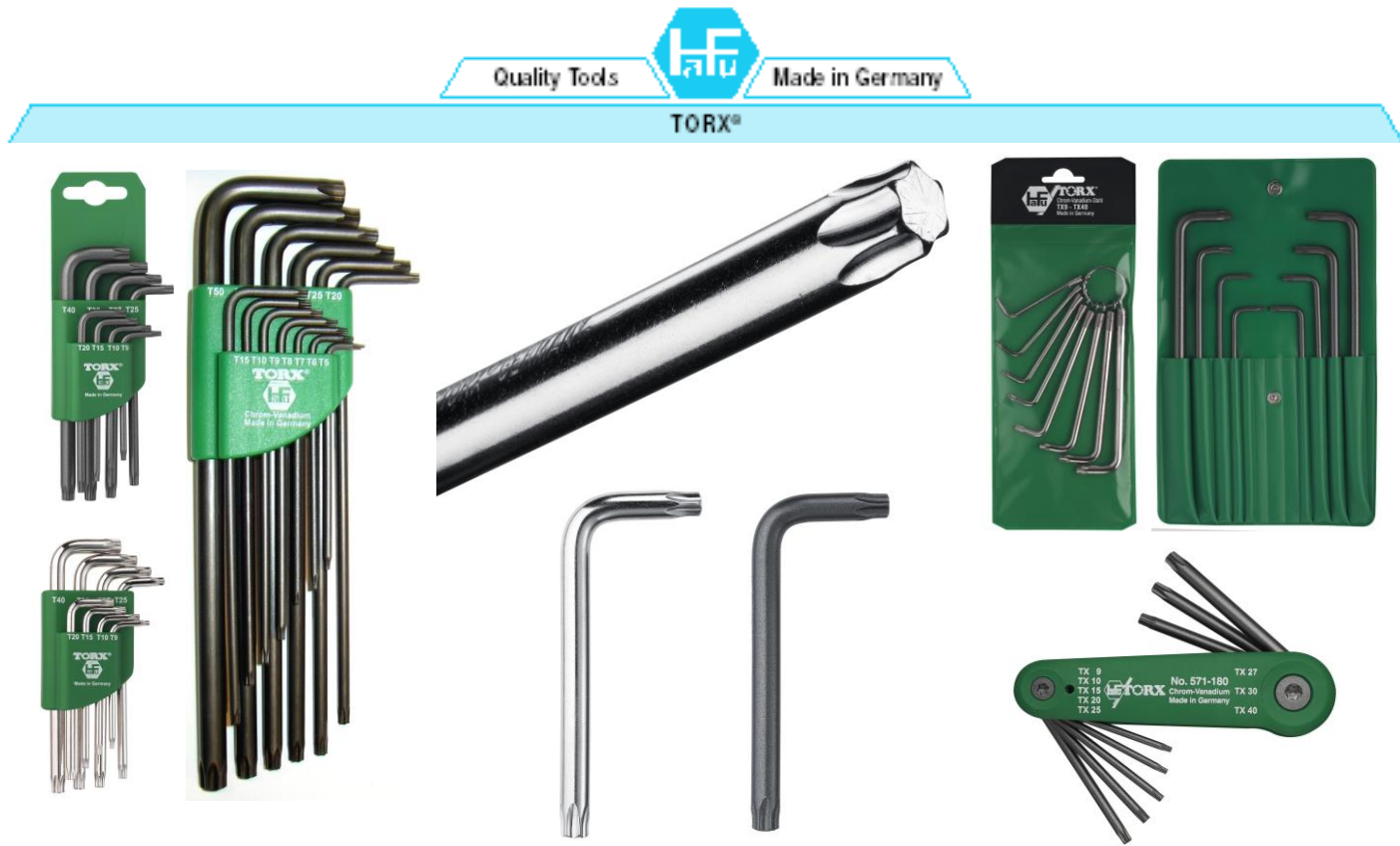
Special steel

Order-No. black	Order-No. nickel pl.	 A.F. = mm	 L1 L2	
280-116-51	280-116-52	1/16 = 1.59	92 x 16	50
280-564-51	280-564-52	5/64 = 1.98	102 x 18	50
280-332-51	280-332-52	3/32 = 2.38	114 x 20	50
280-180-51	280-180-52	1/8 = 3.18	129 x 23	50
280-532-51	280-532-52	5/32 = 3.97	144 x 29	50
280-316-51	280-316-52	3/16 = 4.76	165 x 33	50
280-140-51	280-140-52	1/4 = 6.35	186 x 38	50
280-516-51	280-516-52	5/16 = 7.94	208 x 44	25
280-380-51	280-380-52	3/8 = 9.53	234 x 50	25
280-120-51	280-120-52	1/2 = 12.70	293 x 63	10
280-916-51	280-916-52	9/16 = 14.29	294 x 69	10

Order-No. black	Order-No. nickel pl.		Series 284
284-190-03	284-190-04	1.5-10 mm	1.5-2-2.5-3-4-5-6-8-10 = 9-pce.
284-102-03	284-102-04	1.5-12 mm	1.5-2-2.5-3-4-5-6-8-10-12 = 10-pce.
284-208-53	284-208-54	1/16-3/8	1/16-5/64-3/32-1/8-5/32-3/16-7/32-1/4-5/16-3/8 = 10-pce.
284-212-53	284-212-54	1/16-1/2	1/16-5/64-3/32-1/8-5/32-3/16-7/32-1/4-5/16-3/8-1/2 = 11-pce.

Packing / make-up of the set Series 284 similar to below pictures





TAMPER-TORX®
TORX-Key Wrenches for TORX screws with security-pin



TORX® - Ballpoint





Please see the separate main HaFu catalogue

Hexagon

Chrome-Vanadium-Steel-59Cr-Mo-V4)

Hexagon Key Wrenches ISO 2936

Hexagon Key Wrench Sets

Folding Sets (FOLDEX® and FOLDEX® DUO)

Extra long version ISO 2936L

Blades with handle

Hexagon Key Wrench Sets DIN 6911

Hexagon

(Special Steel)

Hexagon Key Wrenches ISO 2936

Hexagon Key Wrench Sets

Extra long version ISO 2936 L

Hexagon-Ballpoint

Hexagon Key Wrenches

Hexagon Key Wrench Sets

FABLIX® · FABLIX® DUO · FOLDEX® · FOLDEX® DUO

Blades with handle

TORX®

TAMPER-TORX®

TORX®-Ballpoint

Keys

Key Sets

Folding Sets (FOLDEX® · FOLDEX® DUO)

Blades with handle

Multi-spline-key

Keys

Key Sets

Folding Sets

Ribe spline-key

Keys

Key sets

ISO 2936 / 2936 L ·

DIN 6911 · TORX® · XZN · Ribe

Technical data

HERMANN JAEGER GMBH - HAMBURG / GERMANY

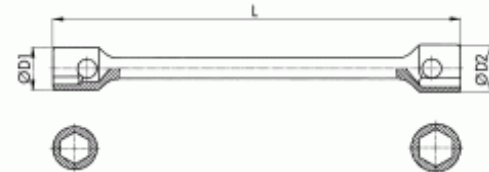
RIM WRENCHES - TOMMY BARS

Wheel Nut Wrenches for trucks drop forged, hardened
torque according DIN 899

Code #	Size mm	Length mm	D 1 / D 2	Weight g
70 5350 000	19 x 22	380	30/34	980
70 4000 000	19 x 24	400	30/37	1000
70 5110 000	22 x 24	400	34/37	1000
70 5210 000	22 x 27	400	34/41	1200
70 5000 000	24 x 27	400	37/41	1300
70 5700 000	27 x 30	400	41/45	1400
70 5500 000	27 x 33	400	41/48	1350
70 5750 000	28 x 33	400	42/48	1450
70 5800 000	30 x 32	400	45/47	1700
70 5900 000	30 x 33	400	45/48	1450
70 5950 000	32 x 33	400	47/48	1450



	Size AF			
70 5100 000	7/8 x 15/16	400	34/37	1000
70 5200 000	7/8 x 1 1/16	400	34/41	1200
70 5400 000	15/16 x 1 1/16	400	37/41	1300



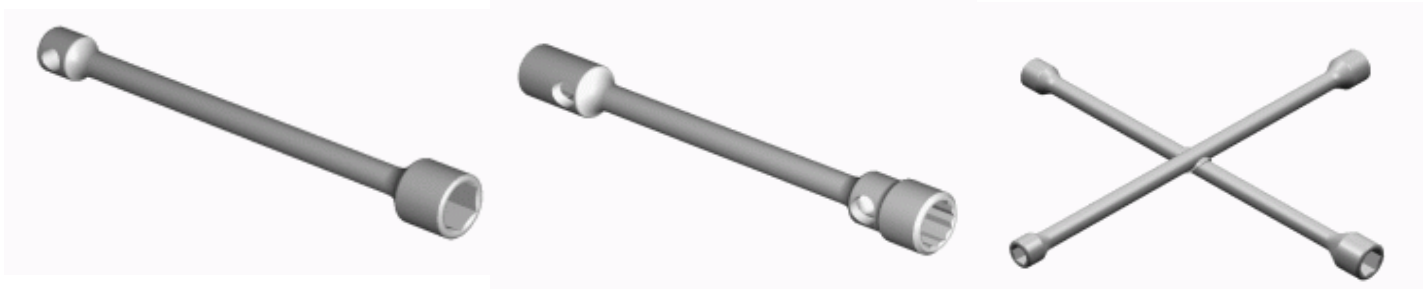
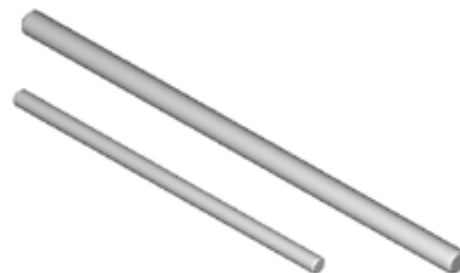
	Size W			
70 3500 000	5/8 x 3/4	400	42/48	1450

FINISHES

short cut	description	korrosion-resistance			Price
B	gun metal			low	
PH	phosphated		medium		basic
L	lacquered		medium		basic
CTL	dip painting	high			
ZN	zinc plated	high			
PV	powder coated	high			
CR	chrome plated	high			

Tommy Bar, hardened
torque according DIN 900

Code #	Diam.mm	for hole	Length mm	Weight g
70 3010 012	12	12,5	250	225
70 3010 100	18	19	500	1000
70 3010 200	18	19	600	1200
70 3010 500	20	21	500	1230
70 3010 630	20	21	630	1400
70 3010 800	22	23	800	2400
70 3011 000	22	23	1000	3000



HERMANN JAEGER GMBH - HAMBURG / GERMANY

TYRE LEVERS - PRY BARS

Tyre levers

Torque according DIN 900

Code #	Size mm	Length	Finish	Weight gr
70 7040 000	20 x 12	400	silver lacq.	600
70 7050 000	20 x 12	500	silver lacq.	750
70 7060 000	20 x 12	600	silver lacq.	940
70 7070 000	23 x 13	700	silver lacq.	1320



Tyre levers (Michelin)

Torque according DIN 900

Code #	Size mm	Length	Finish	Weight gr
70 7540 000	20 x 12	400	silver lacq.	610
70 7550 000	20 x 12	500	silver lacq.	770
70 7560 000	20 x 12	600	silver lacq.	960
70 7570 000	23 x 13	700	silver lacq.	1350



Pry Bar

Torque according DIN 900

Code #	Size mm	Length	Finish	Weight gr
71 3800 211		570	phosphated	1450



Pry Bar Round Head

Torque according DIN 900

Code #	Size mm	Length	Finish	Weight gr
70 7640 000		400	zinc plated	410





Size	Expansion range mm	Length of rolls mm	Ext. dia. of tube Zoll / inch	Weight kg
0	10 - 11,5	20	1/2"	0,2
1	13 - 15	20	5/8"	0,2
2	16 - 18,5	20	3/4"	0,3
3	19 - 22	20	7/8"	0,3
4	22 - 25,5	25	1"	0,4
5	25 - 28,5	25	1 1/8"	0,5
1	26 - 30	30	1 1/4"	0,8
2	29 - 34	30	1 3/8"	0,8
3	32 - 37	30	1 1/2"	1
4	35 - 41	30	1 5/8"	1
5	37 - 44	30	1 3/4"	1,1
6	40 - 46	30	1 7/8"	1,2
7	44 - 51	30	2"	1,7
8	47 - 55	30	2 1/8"	1,8
9	50 - 58	30	2 1/4"	2,1
10	56 - 65	30	2 1/2"	2,4
11	60 - 70	35	2 5/8"	3,5
12	63 - 73	35	2 3/4"	3,7
13	68 - 79	35	3"	3,9
14	74 - 86	35	3 1/4"	4,6
15	80 - 92	35	3 1/2"	5
16	85 - 97	35	3 3/4"	5,5
17	90 - 102	35	4"	6
18	98 - 110	35	4 1/4"	7



Size	Expansion range mm	Length of rolls mm	Length of expansion mm	Square mm	Weight kg
MB 000	4,2 - 4,7	13	06. Okt	1/4"	0,03
MB 00	4,6 - 5,1	13	06. Okt	1/4"	0,03
MB 0	5,0 - 5,6	13	06. Okt	1/4"	0,03
MB 11	5,4 - 6,0	25	13 - 22	1/4"	0,04
MB 12	5,7 - 6,3	25	13 - 22	1/4"	0,04
MB 13	6,2 - 6,8	25	13 - 22	1/4"	0,04
MB 14	6,6 - 7,2	25	13 - 22	1/4"	0,05
MB 15	6,9 - 7,5	25	13 - 22	1/4"	0,05
MB 16	7,4 - 8,4	25	13 - 22	1/4"	0,06
MB 17	7,8 - 8,8	25	13 - 22	1/4"	0,06
MB 18	8,2 - 9,2	25	13 - 22	1/4"	0,07
MB 19	8,6 - 9,7	25	13 - 22	1/4"	0,07
MB 20	8,9 - 10	25	13 - 22	1/4"	0,07
0	9,6 - 11,2	28	Dez 25	9	0,2
1	10,6 - 12,2	28	Dez 25	9	0,2
2	11,5 - 13,5	28	Dez 25	9	0,2
3	12,5 - 14,5	36	15 - 32	9	0,3
1	13,5 - 15,5	36	15 - 32	9	0,3
2	14,5 - 16,9	45	20 - 40	9	0,4
3	15,5 - 17,9	45	20 - 40	9	0,4
4	16,5 - 19,5	50	20 - 45	9	0,6
5	17,3 - 20,3	50	20 - 45	9	0,6
6	18,3 - 21,3	50	20 - 45	9	0,6
7	19 - 22	50	20 - 45	9	0,7
8	20 - 23	50	20 - 45	9	0,8
9	21 - 24,5	50	20 - 45	12	0,8
10	22 - 25,5	50	20 - 45	12	1
11	23 - 26,5	50	20 - 45	12	1,1
12	24 - 28	55	25 - 50	14	1,1
13	26 - 30	55	25 - 50	14	1,1
14	28 - 32	55	25 - 50	14	1,1
15	30 - 34	55	25 - 50	14	1,4
16	32 - 36	55	25 - 50	14	1,5
17	34 - 38	55	25 - 50	14	1,5
18	36 - 41	62	25 - 55	16	2,1
19	38 - 43	62	25 - 55	16	2,1
20	40 - 45	62	25 - 55	16	2,2
21	42 - 47	62	25 - 55	16	2,9
22	44 - 50	68	25 - 60	18	3,1
23	46 - 52	68	25 - 60	18	3,2
24	48 - 55	68	25 - 60	18	3,8
25	50 - 57	68	25 - 60	18	3,8
26	52 - 59	68	25 - 60	18	3,8
27	54 - 61	68	25 - 60	18	4,5
28	56 - 63	68	25 - 60	18	4,6
29	58 - 65	68	25 - 60	18	4,6
30	60 - 68	68	25 - 60	22	5,3
31	62 - 70	68	25 - 60	22	5,4
32	64 - 72	68	25 - 60	22	5,5



Size	Expansion range mm	Length of rolls mm	Length of expansion mm	Square mm	Weight kg
4	14 - 16,5	20	15	9	0,1
5	15 - 17,5	25	20	9	0,1
6	16 - 18,5	25	20	9	0,1
7	17 - 20	25	20	9	0,1
8	18 - 21	25	20	9	0,2
9	19 - 22	25	20	9	0,2
10	20 - 23	25	20	9	0,2
11	21 - 24	30	22	9	0,3
12	22 - 25	30	22	9	0,3
13	23 - 26	30	22	9	0,3
14	24 - 27	30	22	9	0,3
15	25 - 28	30	22	9	0,4
1	26 - 31	35	27	12	0,4
2	29 - 34	35	27	12	0,5
3	32 - 37	35	27	12	0,6
4	35 - 40	35	27	14	0,7
5	37 - 43	35	27	14	0,8
6	40 - 46	35	27	14	0,9
7	44 - 50	40	30	16	1,2
8	47 - 54	40	30	16	1,4
9	50 - 57	40	30	16	1,6
10	56 - 64	40	30	16	1,7
11	60 - 69	45	35	18	2,5
12	63 - 72	45	35	18	2,8
13	68 - 77	45	35	22	3,3
14	74 - 86	45	35	22	3,8
15	80 - 92	50	40	26	5
16	85 - 97	50	40	26	5,6
17	90 - 102	50	40	26	6
18	98 - 110	50	40	26	7



Swivel-Arm Pullers

Mini-models, type series 41-0 and 42-0

Extra-strong design with hexagonal spindle heads

(13 mm / 1/2" across flats)

Art. No.	Version	Spread - Reach	Weight
41-0	2-arm	60 mm (2.7/8") - 40 mm (1.5/8")	0,20 kg
42-0	3-arm	60 mm (2.7/8") - 40 mm (1.5/8")	0,25 kg

41-0



Two-arm and three-arm mini-pullers

Small, handy models for automotive electrical systems, battery terminals, light engineering, electrical service shops, etc.

Art. No.	Version	Spread - Reach	Weight
41-1	2-arm	65 mm (2.9/16") - 65 mm (2.9/16")	0,20 kg
41-2	2-arm	80 mm (3.1/4") - 80 mm (3.1/4")	0,25 kg
42-1	3-arm	65 mm (2.9/16") - 65 mm (2.9/16")	0,30 kg
42-2	3-arm	80 mm (3.1/4") - 80 mm (3.1/4")	0,35 kg

41-2



Two-arm pullers, type series 201

with reversible double-end jaws

Art. No.	Version	Spread - Reach	Weight
201-0	2-arm	100 mm (4") - 75 mm (3")	0,8 kg
201-1	2-arm	150 mm (6") - 85 mm (3.1/4")	1,0 kg
201-2	2-arm	220 mm (8") - 130 mm (5.1/4")	2,5 kg
201-3	2-arm	300 mm (12") - 260 mm (10")	4,7 kg
201-4	2-arm	380 mm (15") - 300 mm (12")	5,2 kg

201-0



Three-arm pullers, type series 202

with reversible double-end jaws

Art. No.	Version	Spread - Reach	Weight
202-0	3-arm	100 mm (4") - 75 mm (3")	1.0 kg
202-1	3-arm	150 mm (6") - 85 mm (3.1/4")	1.2 kg
202-2	3-arm	220 mm (8") - 130 mm (5.1/4")	3.0 kg
202-3	3-arm	300 mm (12") - 260 mm (10")	6.4 kg
202-4	3-arm	380 mm (15") - 300 mm (12")	7.1 kg

202-3



Two-arm pullers, type series 205

With adjustable-length arms

Art. No.	Version	Spread - Reach	Weight
205-00	2-arm	100 mm (4") - 100 mm (4")	0,5 kg
205-01	2-arm	150 mm (6") - 150 mm (6")	1,0 kg
205-02	2-arm	250 mm (10") - 250 mm (10")	2,5 kg
205-1	2-arm	300 mm (12") - 300 mm (12")	5,0 kg
205-2	2-arm	400 mm (16") - 400 mm (16")	6,5 kg
205-3	2-arm	500 mm (20") - 500 mm (20")	9,1 kg

205-2



Three-arm pullers, type series 206
With adjustable-length arms

Art. No.	Version	Spread - Reach	Weight
206-00	3-arm	100 mm (4") - 100 mm (4")	0,7 kg
206-01	3-arm	150 mm (6") - 150 mm (6")	1,4 kg
206-02	3-arm	250 mm (10") - 250 mm (10")	3,2 kg
206-1	3-arm	300 mm (12") - 300 mm (12")	6,8 kg
206-2	3-arm	400 mm (16") - 400 mm (16")	8,7 kg
206-3	3-arm	500 mm (20") - 540 mm (21")	12,7 kg

206-2



Separators, type series 15
Press the separator jaws together by uniformly tightening the nuts on both sides.

Art. No.	Opening A	Distance B	Weight
15-0	5 - 60 mm	60 mm	0,6 kg
15-1	12 - 75 mm	75 mm	1,0 kg
15-2	22 - 115 mm	115 mm	2,2 kg
15-3	25 - 155 mm	155 mm	4,5 kg
15-4	30 - 200 mm	200 mm	10,8 kg
15-5	30 - 250 mm	250 mm	16,0 kg

15



Pulling tools, type series 18
For use with a separator, screw the pulling bolts into the tapholes in the separator jaws.

Art. No.	Opening A	Length B max	Weight
18-0	50-110 mm	150 mm	0,85 kg
18-1	60-150 mm	200 mm	1,7 kg
18-2	60-200 mm	250 mm	3,2 kg
18-3	80-300 mm	300 mm	6,2 kg
18-4	120-380 mm	350 mm	13,9 kg
18-5	150-440 mm	400 mm	20,7 kg

18-2



Complete sets of separators and pulling tools
in metal cases

Sets, type series 15
with standard separators

Art. No.	15-K	15-A	15-B	15-C	15-D
separator	15-0	15-1	15-2	15-3	15-4
pulling	18-0	18-1	18-2	18-3	18-4
ext.pair	18-1-P	19-1-P	19-2-P	19-3-P	19-4-P
Capacity	60 mm	75 mm	115 mm	155 mm	200 mm
Weightt					
incl. case	2,7 kg	4,7 kg	8,4 kg	14,7 kg	32,0 kg

15-B

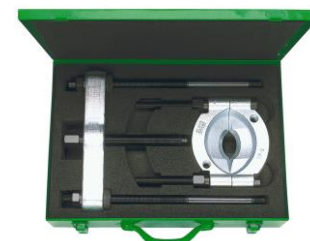
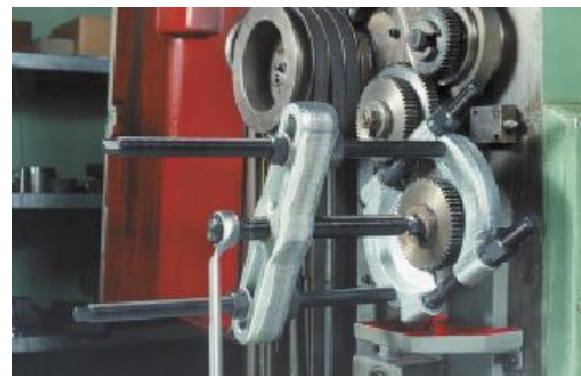


Figure 1



Figure 3



Safety spring compressors, type series 65 and 66

These safe, universal spring compressors, with their modest space requirements, are especially easy to handle and, thanks to their adjustable connection clip, can be used for most standard helical springs with diameters ranging from 110 to 180 mm. They therefore present an economical alternative to far more expensive, complicated models.

These tools are in compliance with the „German Safety Regulations of Vehicle Maintenance“ (ZH 1/454) of the relevant German employer's liability insurance association and, following successful testing, have been awarded the Equipment Safety Certificate with the „GS“ mark.

„Universal“ spring compressor, type series 65



This handy universal tool is for use in replacing helical springs, in the assembled or disassembled condition, on cars weighing up to 2000 kg.

Art. No.	working range		Weight
	depth	diametric capacity	
65-1	100 - 250 mm (4 - 10")	110 - 180 mm (4.1/4-7")	3,1 kg
65-2	200 - 400 mm (8 - 16")	110 - 180 mm (4.1/4-7")	3,3 kg
65-3	100 - 400 mm (4 - 16")	110 - 180 mm (4.1/4-7")	4,2 kg

Operation:

- 1) Adjust the connecting clip to the required helical spring diameter, and insert the pin to lock it in place.
- 2) Attach the claws of the spring compressor to the spring coils (normally, three coils are sufficient), and secure them against slippage by tightening the locking screws on the sides.
- 3) Compress or relax the helical spring by alternately and uniformly actuating both threaded spindles with the aid of hand tools (wrench, ratchet handle).



„MacPherson“ spring compressors, type series 66



The ideal tool for use in replacing helical springs with up to 2500 N spring force on dismantled „MacPherson“ (or other) strut assemblies of the kind used on VWs, AUDIs, BMWs, Porsches, DATSUNS, RENAULTs, VOLVOs, TOYOTAs, MAZDAs and numerous other makes.

Art. No.	working range		Weight
	depth	diametric capacity	
66-1	100 - 250 mm (4 - 10")	110 - 180 mm (4.1/4-7")	3,1 kg
66-2	200 - 400 mm (8 - 16")	110 - 180 mm (4.1/4-7")	3,3 kg
66-3*	100 - 400 mm (4 - 16")	110 - 180 mm (4.1/4-7")	4,2 kg

*Type 66-3 consists of a type-66-2 spring compressor and two additional short threaded rods.





Nut Splitters

For splitting jammed or stripped nuts without damage to the bolt.
Nut splitter chisels are wearing parts. Blunt, notched or broken
chisels must be replaced immediately.

Mechanical nut splitters, type series 54

Double-edged models exerting twice the normal splitting force on
irretrievable nuts in quality classes 5, 6 and 8.

Art. No.	nut size mm	nut size AF	Weight
54-2	10-27	13/32 - 1.1/16"	0,4 kg
54-3	17-36	11/16 - 1.7/16"	0,7 kg



54-3

Mechanical nut splitters, type series 55

For splitting irretrievable nuts in quality classes 6 and below.

Art. No.	nut size mm	nut size AF	Weight
55-0	4-10	5/32-13/32"	0.10 kg
55-1	10-18	7/16-11/16"	0.22 kg
55-2	19-27	3/4-11/16"	0.44 kg
55-3	27-36	11/8-17/16"	0.66 kg
55-4	32-50	15/16-2"	2,60 kg



55-4

Hydraulic nut splitters, type series 56

For splitting irretrievable nuts in quality classes 5, 6, 8 and 10.

Their offset shape makes these tools useful for confined spaces.

Their hydraulic system minimizes the manual effort.

Art. No.	nut size mm	nut size AF	Weight
56-1	7-22	9/32-7/8"	0,76 kg
56-2	22-36	7/8-17/16"	2,80 kg



56-1





Art.No. open-end	Art.No. ring	Size
133-24	406-24	24 mm
133-27	406-27	27 mm
133-30	406-30	30 mm
133-32	406-32	32 mm
133-34	406-34	34 mm
133-36	406-36	36 mm
133-41	406-41	41 mm
133-46	406-46	46 mm
133-50	406-50	50 mm
133-55	406-55	55 mm
133-60	406-60	60 mm
133-65	406-65	65 mm
133-70	406-70	70 mm
133-75	406-75	75 mm
133-80	406-80	80 mm
133-85	406-85	85 mm
133-90	406-90	90 mm
133-95	406-95	95 mm
133-100	406-100	100 mm
133-105	406-105	105 mm
133-110	406-110	110 mm
133-115	406-115	115 mm
133-120	406-120	120 mm



133



406



408



402

Art.No. ring	Size
408-27	1.1/16"
408-30	1.3/16"
408-32	1.1/4"
408-35	1.3/8"
408-38	1.1/2"
408-41	1.5/8"
408-42	1.11/16"
408-46	1.13/16"
408-47	1.7/8"
408-50	2"
408-54	2.1/8"
408-55	2.3/16"
408-58	2.1/4"
408-65	2.9/16"
408-68	2.5/8"
408-70	2.3/4"
408-75	3"
408-80	3.1/8"



Spanner Extensions

402-460 mm for 402-27 to -30
 402-610 mm for 402-32 to -41
 402-760 mm for 402-46 to -55
 402-860 mm for 402-60 to -80

Art.No. ring	Size
402-24	24 mm
402-27	27 mm
402-30	30 mm
402-32	32 mm
402-36	36 mm
402-41	41 mm
402-46	46 mm
402-50	50 mm
402-55	55 mm
402-60	60 mm
402-65	65 mm
402-70	70 mm
402-75	75 mm
402-80	80 mm



402-460



Double ended ring spanners, deep offset DIN 838
Series 1002 metric 6 x 7 mm to 36 x 41 mm
Series 1002-Z inches 1/4 x 5/16" to 1.1/16 x 1.1/4"



1002

Double ended ring spanners, straight DIN 837B
Series 1004 metric 6 x 7 mm to 20 x 22 mm



1004

Double ended open jaw spanners DIN 3110
Series 1006 metric 6 x 7 mm to 36 x 41 mm
Series 1006-Z inches 3/8 x 7/16" to 15/16 x 1"



1006

Combination spanners DIN 3113
Series 1007 metric 5,5 to 41 mm
Series 1007-Z inches 1/4 to 1.1/4"



1007

All spanners are available in the usual set-combinations packed in printed cardboard boxes or in strong roll-wallets



Please refer to the KUKKO main catalogue



500-wooden handle



shape of OPTIMA hdl.



500+2K UNIVERSA hdl.

500-115	TURNUS F-Clamp UNIVERSA	150 x 50 mm / 15 x 5 mm, with red wooden handle
500-119	TURNUS F-Clamp UNIVERSA	200 x 50 mm / 15 x 5 mm, with red wooden handle
503-016	TURNUS F-Clamp UNIVERSA	160 x 80 mm / 22 x 6 mm, with red wooden handle
503-020	TURNUS F-Clamp UNIVERSA	200 x 80 mm / 22 x 6 mm, with red wooden handle
503-025	TURNUS F-Clamp UNIVERSA	250 x 80 mm / 22 x 6 mm, with red wooden handle
503-030	TURNUS F-Clamp UNIVERSA	300 x 80 mm / 22 x 6 mm, with red wooden handle
503-120	TURNUS F-Clamp UNIVERSA	200 x 100 mm / 30 x 8 mm, with red wooden handle
504-025	TURNUS F-Clamp UNIVERSA	250 x 120 mm / 30 x 8 mm, with red wooden handle
504-030	TURNUS F-Clamp UNIVERSA	300 x 120 mm / 30 x 8 mm, with red wooden handle
504-040	TURNUS F-Clamp UNIVERSA	400 x 120 mm / 30 x 8 mm, with red wooden handle
504-050	TURNUS F-Clamp UNIVERSA	500 x 120 mm / 30 x 8 mm, with red wooden handle
504-060	TURNUS F-Clamp UNIVERSA	600 x 120 mm / 30 x 8 mm, with red wooden handle
504-080	TURNUS F-Clamp UNIVERSA	800 x 120 mm / 30 x 8 mm, with red wooden handle
504-100	TURNUS F-Clamp UNIVERSA	1000 x 120 mm / 30 x 8 mm, with red wooden handle
504-303	TURNUS F-Clamp UNIVERSA	300 x 140 mm / 35 x 9 mm, with red wooden handle
504-404	TURNUS F-Clamp UNIVERSA	400 x 175 mm / 35 x 9 mm, with red wooden handle
503+016	TURNUS F-Clamp UNIVERSA	160 x 80 mm / 22 x 6 mm, with 2-compo handle (2K)
503+020	TURNUS F-Clamp UNIVERSA	200 x 80 mm / 22 x 6 mm, with 2-compo handle (2K)
503+025	TURNUS F-Clamp UNIVERSA	250 x 80 mm / 22 x 6 mm, with 2-compo handle (2K)
503+030	TURNUS F-Clamp UNIVERSA	300 x 80 mm / 22 x 6 mm, with 2-compo handle (2K)
503+120	TURNUS F-Clamp UNIVERSA	200 x 100 mm / 30 x 8 mm, with 2-compo handle (2K)
504+025	TURNUS F-Clamp UNIVERSA	250 x 120 mm / 30 x 8 mm, with 2-compo handle (2K)
504+030	TURNUS F-Clamp UNIVERSA	300 x 120 mm / 30 x 8 mm, with 2-compo handle (2K)
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504+080	TURNUS F-Clamp UNIVERSA	800 x 120 mm / 30 x 8 mm, with 2-compo handle (2K)
504+100	TURNUS F-Clamp UNIVERSA	1000 x 120 mm / 30 x 8 mm, with 2-compo handle (2K)
504+303	TURNUS F-Clamp UNIVERSA	300 x 140 mm / 35 x 9 mm, with 2-compo handle (2K)
504+404	TURNUS F-Clamp UNIVERSA	400 x 175 mm / 35 x 9 mm, with 2-compo handle (2K)



SUPERCRAFT NON-REBOUND HAMMERS



Series 3366, white nylon inserts, hard, hickory handle
Available sizes : 20 - 25 - 30 - 35 - 40 - 45 - 50 - 60 - 70 - 80 mm



Series 3366-sledge hammer, white nylon inserts, hard, hickory handle
Available sizes : 80 - 100 mm

3366-081



SUPERCRAFT white nylon inserts, hard, sizes 20 to 100 mm



SUPERCRAFT Spare handles



SIMPLEX 3008, cast iron housing, ashwood handle, white nylon inserts on both sides



SIMPLEX 3009, cast iron housing, ashwood handle, soft metal inserts on both sides



EH-3208 Nylon Spare head, hard



EH-3209 Soft metal spare head



EH-3011 Spare housing, cast iron,
compl. with screw / nut / spring washer





various set combinations are available

Please see separate catalogue



Set No. 254 - 30 pcs.



for individual bumping tools please see separate catalogue



A wide range of special hammers
can be found in the PICARD master catalogue



BUMPING HAMMERS



Made in Germany



- | | |
|---------|--|
| 2001/22 | Yellow Bumping Hammer 22 mm |
| 2002/27 | Yellow Bumping Hammer 27 mm |
| 2003/32 | Yellow Bumping Hammer 32 mm |
| 2004/35 | Yellow Bumping Hammer 35 mm |
| 2005/40 | Yellow Bumping Hammer 40 mm |
| 2006/50 | Yellow Bumping Hammer 50 mm |
| 2007/60 | Yellow Bumping Hammer 60 mm |
| 2401/22 | Yellow Spare Hammer Heads (pair of 2 pcs.) 22 mm |
| 2402/27 | Yellow Spare Hammer Heads (pair of 2 pcs.) 27 mm |
| 2403/32 | Yellow Spare Hammer Heads (pair of 2 pcs.) 32 mm |
| 2404/35 | Yellow Spare Hammer Heads (pair of 2 pcs.) 35 mm |
| 2405/40 | Yellow Spare Hammer Heads (pair of 2 pcs.) 40 mm |
| 2406/50 | Yellow Spare Hammer Heads (pair of 2 pcs.) 50 mm |
| 2407/60 | Yellow Spare Hammer Heads (pair of 2 pcs.) 60 mm |

plastic



- | | |
|---------|---|
| 2101/22 | Milky White Bumping Hammer 22 mm |
| 2102/27 | Milky White Bumping Hammer 27 mm |
| 2103/32 | Milky White Bumping Hammer 32 mm |
| 2104/35 | Milky White Bumping Hammer 35 mm |
| 2105/40 | Milky White Bumping Hammer 40 mm |
| 2106/50 | Milky White Bumping Hammer 50 mm |
| 2107/60 | Milky White Bumping Hammer 60 mm |
| 2501/22 | Milky White Spare Hammer Heads (pair of 2 pcs.) 22 mm |
| 2502/27 | Milky White Spare Hammer Heads (pair of 2 pcs.) 27 mm |
| 2503/32 | Milky White Spare Hammer Heads (pair of 2 pcs.) 32 mm |
| 2504/35 | Milky White Spare Hammer Heads (pair of 2 pcs.) 35 mm |
| 2505/40 | Milky White Spare Hammer Heads (pair of 2 pcs.) 40 mm |
| 2506/50 | Milky White Spare Hammer Heads (pair of 2 pcs.) 50 mm |
| 2507/60 | Milky White Spare Hammer Heads (pair of 2 pcs.) 60 mm |

nylon



ENGINEER HAMMERS

Engineer Hammers, DIN 1041

3001010120	100 g
3002010120	200 g
3003010120	300 g
3004010120	400 g
3005010120	500 g
3008010120	800 g
3010010120	1000 g
3015010120	1500 g
3020010120	2000 g



with handle protection

3001011110	100 g
3002011110	200 g
3003011110	300 g
3004011110	400 g
3005011110	500 g
3008011110	800 g
3010011110	1000 g



SLEDGE HAMMERS

Sledge Hammers DIN 1042-GS approved
with light ash-wood handle

3030015121	3000 g
3040015121	4000 g
3050015121	5000 g
3060015121	6000 g
3080015121	8000 g
3010015121	10000 g



with light hickory-wood handle

3030015129	3000 g
3040015129	4000 g
3050015129	5000 g
3060015129	6000 g
3080015129	8000 g
3010015129	10000 g



Club Hammers, DIN 6475

30100301	1000 g
30125301	1250 g
30150301	1500 g
30200301	2000 g

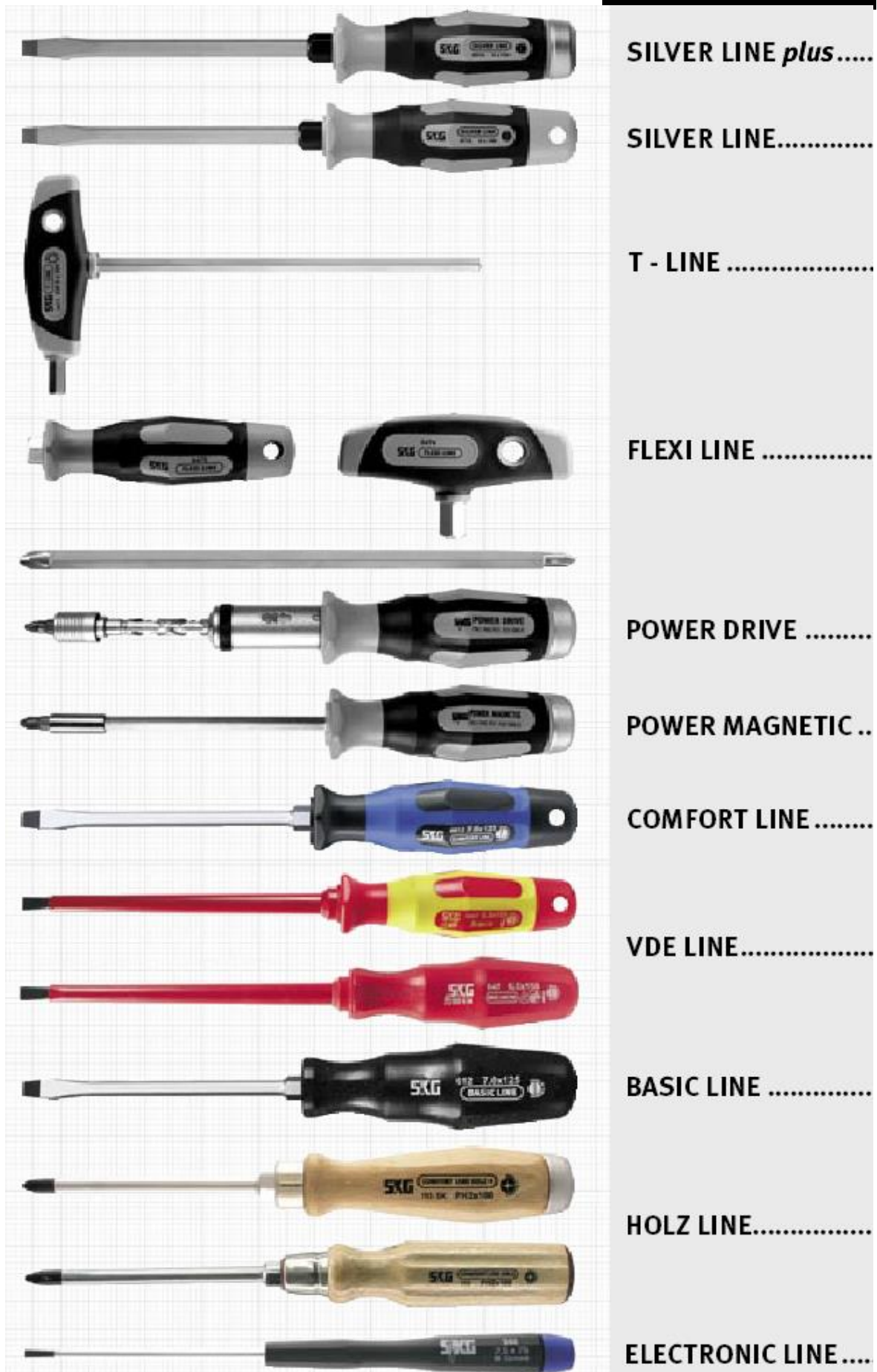


110.25	Ashwood Hammer Handle	250 mm, DIN 5111 - f.	50 g
110.26	Ashwood Hammer Handle	260 mm, DIN 5111 - f.	100 g
110.28	Ashwood Hammer Handle	280 mm, DIN 5111 - f.	200 g
110.30	Ashwood Hammer Handle	300 mm, DIN 5111 - f.	300 g
110.31	Ashwood Hammer Handle	310 mm, DIN 5111 - f.	400 g
110.32	Ashwood Hammer Handle	320 mm, DIN 5111 - f.	500 g
110.33	Ashwood Hammer Handle	330 mm, DIN 5111 - f.	600 g
110.35	Ashwood Hammer Handle	350 mm, DIN 5111 - f.	800 g
110.36	Ashwood Hammer Handle	360 mm, DIN 5111 - f.	1,0 kg
110.38	Ashwood Hammer Handle	380 mm, DIN 5111 - f.	1,5 kg
110.40	Ashwood Hammer Handle	400 mm, DIN 5111 - f.	2,0 kg
110.45	Ashwood Hammer Handle	450 mm, DIN 5111 - f.	2,0- 3,0 kg
110.50	Ashwood Hammer Handle	500 mm, DIN 5111 - f.	3,0 kg
111.60	Ashwood Hammer Handle	600 mm, DIN 5112 - f.	3,0- 4,0 kg
111.70	Ashwood Hammer Handle	700 mm, DIN 5112 - f.	3,0- 4,0 kg
111.80	Ashwood Hammer Handle	800 mm, DIN 5112 - f.	5,0- 6,0 kg
111.90	Ashwood Hammer Handle	900 mm, DIN 5112 - f.	8,0-10,0 kg
111.92	Ashwood Hammer Handle	920 mm, DIN 5112 - f.	12,0-15,0 kg
111100	Ashwood Hammer Handle	1000 mm, DIN 5112 - f.	12,0-15,0 kg
201.08	Wooden File Handle	18 x 80 mm, standard	
201.09	Wooden File Handle	20 x 90 mm, standard	
201.10	Wooden File Handle	22 x 100 mm, standard	
201.11	Wooden File Handle	25 x 110 mm, standard	
201.12	Wooden File Handle	28 x 120 mm, standard	
201.13	Wooden File Handle	30 x 130 mm, standard	
201.14	Wooden File Handle	32 x 140 mm, standard	
201.15	Wooden File Handle	34 x 150 mm, standard	
201.16	Wooden File Handle	36 x 160 mm, standard	
601.35	Beechwood Mallet, round head	Ø 35 x 70 mm, DIN 7762A	
601.40	Beechwood Mallet, round head	Ø 40 x 80 mm, DIN 7762A	
601.50	Beechwood Mallet, round head	Ø 50 x 100 mm, DIN 7762A	
601.60	Beechwood Mallet, round head	Ø 60 x 120 mm, DIN 7762A	
601.70	Beechwood Mallet, round head	Ø 70 x 140 mm, DIN 7762A	
601.80	Beechwood Mallet, round head	Ø 80 x 160 mm, DIN 7762A	
601.90	Beechwood Mallet, round head	Ø 90 x 180 mm, DIN 7762A	



Hammer handles also available in HICKORY wood

Please ask for SKG main catalogue





Art. 24090 Voltage Tester acc. DIN, VDE / GS approved
150-250 Volts, ergonomic tri-angled handle 88x21 mm
stainless steel clip, grounded blade 3,0 x 65 mm

SECUPEN®



17150C SECUPEN Voltage Tester 3.5 x 138 mm, 100-250 V, in plastic holder, PU 20/1000
17150 SECUPEN Voltage Tester 3.5 x 138 mm, 100-250 V, without plastic holder, PU 40/1000

VOLTAGES TESTERS

451P-WG Voltage Tester 120 mm snap cap white
 451P-YG Voltage Tester 120 mm snap cap yellow
 451PS-WG Voltage Tester 120 mm screw cap white
 451PS-YG Voltage Tester 120 mm screw cap yellow
 451PM-WG Voltage Tester 120 mm brass cap white
 451PM-YG Voltage Tester 120 mm brass cap yellow

452P-WG Voltage Tester 140 mm snap cap white
 452P-YG Voltage Tester 140 mm snap cap yellow
 452PS-WG Voltage Tester 140 mm screw cap white
 452PS-YG Voltage Tester 140 mm screw cap yellow
 452PM-WG Voltage Tester 140 mm brass cap white
 452PM-YG Voltage Tester 140 mm brass cap yellow

457PM-WG Voltage Tester 190 mm brass cap white
 457PM-YG Voltage Tester 190 mm brass cap yellow



452 P / 452 PM

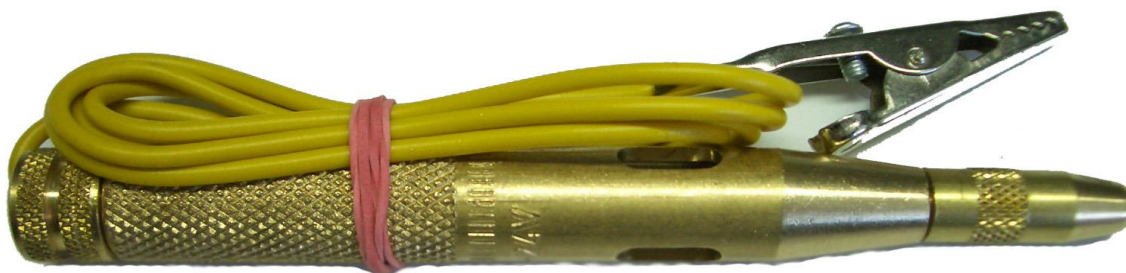


457 PM



Head 452 PM - 452 P - 457 PM

CARLIGHT TESTERS



4598T Carlight Tester all brass in plastic wallet



4518ZA/T Carlight Tester Set = 4518 A+4518 Z

EURO-1 VOLTAGE TESTERS



45300



45800



- 45300/150b Voltage Tester EURO-type 150 mm, 100-500 V, light blue coloured handle
- 45300/150o Voltage Tester EURO-type 150 mm, 100-500 V, orange coloured handle
- 45800/190b Voltage Tester EURO-type 190 mm, 100-500 V, light blue coloured handle
- 45800/190o Voltage Tester EURO-type 190 mm, 100-500 V, orange coloured handle

EURO-1 VOLTAGE TESTERS



- 45400/150r Voltage Tester EURO 2-type 150 mm, 125-250 V, red handle
- 45900/190r Voltage Tester EURO 2-type 190 mm, 125-250 V, red handle



SCREWDRIVERS



170-075 w/2-component handle

Art.No.	Width x blade length
170-075	5,5 x 100 mm
170-100	6,5 x 125 mm
170-125	6,5 x 150 mm
170-150	8,0 x 150 mm
170-175	8,0 x 175 mm
170-200	10,0 x 200 mm
170-250	12,0 x 250 mm

ENGINEER'S SCREWDRIVER



170-E-060 w/2-component handle

Art.No.	Width x blade length
170-E060	2,5 x 60 mm
170-E075	3,0 x 75 mm
170-E100	3,5 x 100 mm
170-E125	4,0 x 125 mm
170-E304	4,5 x 300 mm
170-E150	5,5 x 150 mm
170-E200	5,5 x 200 mm
170-E306	6,0 x 300 mm

SCREWDRIVER ELECTRICIAN

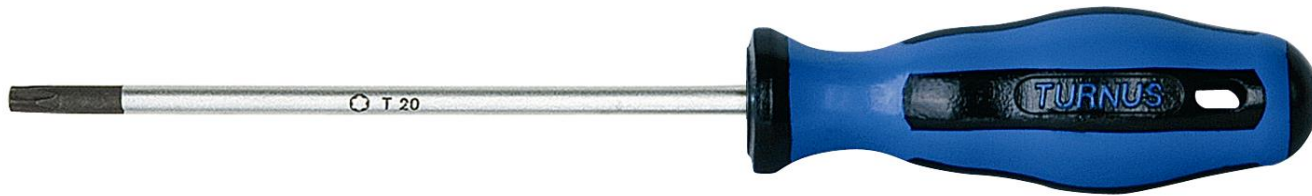


170-PH w/2-component handle

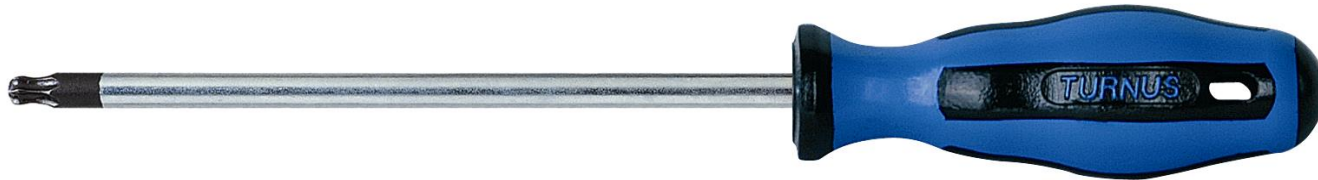
PHILIPS / POZIDRIV SCREWDRIVER

Art.No.	Art.No.	Size x blade length
170-PH006	170-PZ006	PH 0 / PZ 0 x 60 mm
170-PH108	170-PZ108	PH 1 / PZ 1 x 80 mm
170-PH130	170-PZ130	PH 1 / PZ 1 x 300 mm
170-PH210	170-PZ210	PH 2 / PZ 2 x 100 mm
170-PH230	170-PZ230	PH 2 / PZ 2 x 300 mm
170-PH315	170-PZ315	PH 3 / PZ 3 x 150 mm

SCREWDRIVERS



170-T10 TX w/2-component handle



170-T109 TX ball headed w/2-component handle

TX / TX-BALLHEAD / Tamper-TX SCREWDRIVER

Art.No. TX	Art.No. TX-ball	Art.No. Tamper-TX	Size x blade length
170-T06	-	-	TX 06 x 60 mm
170-T07	-	-	TX 07 x 60 mm
170-T08	-	-	TX 08 x 60 mm
170-T09	170-T109	170-T209	TX 09 x 60 mm
170-T10	170-T110	170-T210	TX 10 x 80 mm
170-T15	170-T115	170-T215	TX 15 x 80 mm
170-T20	170-T120	170-T220	TX 20 x 100 mm
170-T25	170-T125	170-T225	TX 25 x 100 mm
170-T27	170-T127	170-T227	TX 27 x 120 mm
170-T30	170-T130	170-T230	TX 30 x 120 mm
170-T40	170-T140	170-T240	TX 40 x 130 mm
170-T45	-	170-T245	TX 45 x 130 mm

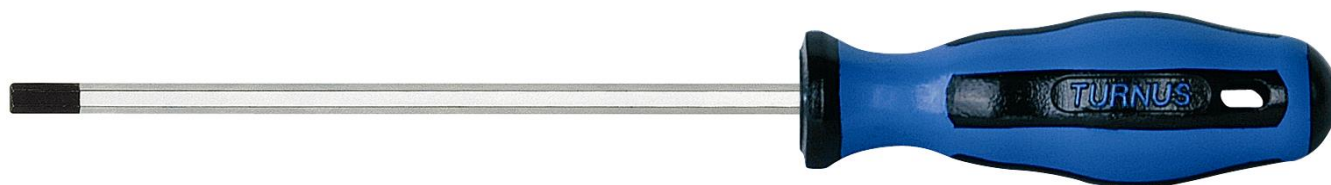


170-K002 ballhead w/2-component handle

BALLHEAD SCREWDRIVER

Art.No.	Ball-diam. x blade length
170-K002	2 x 100 mm
170-K003	3 x 100 mm
170-K004	4 x 100 mm
170-K005	5 x 150 mm
170-K006	6 x 150 mm
170-K008	8 x 150 mm
170-K010	10 x 150 mm

SCREWDRIVERS



170-IV1 inner square (Robertson) w/2-component handle

INNER SQUARE SCREWDRIVER

Art.No.	Square x blade length
170-IV1	1 x 100 mm
170-IV2	2 x 100 mm
170-IV3	3 x 125 mm

TW SCREWDRIVER

Art.No.	TW x blade length
170-TW2	2 x 80 mm
170-TW3	3 x 80 mm
170-TW4	4 x 80 mm
170-TW5	5 x 80 mm



170-S035 Nut driver w/2-component handle

NUT DRIVER

Art.No.	hex x blade length
170-S035	3,5 x 125 mm
170-S040	4,0 x 125 mm
170-S045	4,5 x 125 mm
170-S050	5,0 x 125 mm
170-S055	5,5 x 125 mm
170-S060	6,0 x 125 mm
170-S070	7,0 x 125 mm
170-S080	8,0 x 125 mm
170-S090	9,0 x 125 mm
170-S100	10,0 x 125 mm
170-S110	11,0 x 125 mm
170-S120	12,0 x 125 mm
170-S130	13,0 x 125 mm
170-S140	14,0 x 125 mm
170-S170	17,0 x 125 mm



170-998 Bit holder w/2-component handle

BIT HOLDER

Art.No. hex x blade length
170-998 1/4" x 125 mm



191-999 Bit holder w/magazine 6 parts



191-000 Bit ratchet - magnetic holder w/magazine 6 parts

Art.No. Contents of magazine
191-999 PH 1, PH 2, PZ 1, PZ 2, slot 0,8 x 5,5 + 1,2 x 6,5
191-000 PH 1, PH 2, PZ 1, PZ 2, slot 0,8 x 5,5 + 1,2 x 6,5



170-005 Screw driver set in cardboard box, 5 pcs

Set contents PZ 1 x 80 mm - PZ 2 x 100 mm - slot 3,0 x 75 mm
slot 3,5 x 100 mm - 4,0 x 125 mm



170-006 Screw driver set in cardboard box, 6 pcs

Set contents

PH 1 x 80 mm - PH 2 x 100 mm - slot 3,5 x 100 mm
slot 4,0 x 125 mm - 5,5 x 150 mm - 6,5 x 150 mm



170-010 Screw driver set in cardboard box, 10 pcs

Set contents

PH 1 x 80 mm - PH 2 x 100 mm - PZ 1 x 80 mm - PZ 2 x 100 mm
slot 3,0 x 75 mm - 4,0 x 125 mm - 5,0 x 100 mm - 6,5 x 150 mm
slot 8,0 x 150 mm - GS Voltage Tester



171-0806 Screw driver, slot, with turning cap

Art.No.	Tip x Width x blade length
171-0806	0,2 x 0,8 x 60 mm
171-1206	0,2 x 1,2 x 60 mm
171-1506	0,25 x 1,5 x 60 mm
171-1806	0,3 x 1,8 x 60 mm
171-2006	0,4 x 2,0 x 60 mm
171-2506	0,4 x 2,5 x 60 mm
171-2507	0,4 x 2,5 x 75 mm
171-3010	0,5 x 3,0 x 100 mm
171-3015	0,5 x 3,0 x 150 mm
171-3024	0,5 x 3,0 x 240 mm
171-3510	0,6 x 3,5 x 100 mm
171-3515	0,6 x 3,5 x 150 mm
171-4010	0,8 x 4,0 x 100 mm
171-4015	0,8 x 4,0 x 150 mm



171-PH Screw driver, PHILLIPS, with turning cap



171-PZ Screw driver, POZIDRIV, with turning cap

Art.No.	Art.No.	Size x blade length
171-PH000	-	PH000 x 60 mm
171-PH00	-	PH00 x 60 mm
171-PH0	171-PZ0	PH0 / PZ0 x 60 mm
171-PH108	171-PZ1	PH1 / PZ1 x 80 mm
171-PH118	-	PH1 x 185 mm
171-PH128	-	PH1 x 285 mm



171-T Screw driver, TX, with turning cap



171-S Hexagon driver, with turning cap



171-SK Hexagon driver, ball-point head, with turning cap

Art.No. TX	Art.No. Hexagon	Art.No. Hex.-ball	blade length
171-T01	171-S07 - 0,7 mm	171SK15 - 1,5 mm	60 mm
171-T02	171-S09 - 0,9 mm	171SK20 - 2,0 mm	60 mm
171-T03	171-S13 - 1,3 mm	171SK25 - 2,5 mm	60 mm
171-T04	171-S15 - 1,5 mm	171SK30 - 3,0 mm	60 mm
171-T05	171-S20 - 2,0 mm		60 mm
171-T06	171-S25 - 2,5 mm		60 mm
171-T07	171-S30 - 3,0 mm		60 mm
171-T08			60 mm
171-T09			60 mm
171-T10			80 mm
171-T15			80 mm
171-T20			100 mm



171-ST Nut driver, with turning cap

Art.No. - Size	
171-ST15 - 1,5 mm	171-ST35 - 3,5 mm
171-ST20 - 2,0 mm	171-ST40 - 4,0 mm
171-ST25 - 2,5 mm	171-ST45 - 4,5 mm
171-ST30 - 3,0 mm	171-ST50 - 5,0 mm
171-ST32 - 3,2 mm	171-ST55 - 5,5 mm



Art. No.
171-R006
171-R106
171-R206

Contents
Slot 1,5x60 - 2,0x60 - 2,5x75 - PH 00x60 - PH 0x60 - PH 1x60
TX04 - TX05 - TX06 - TX07 - TX08 - TX10
Hex 2,5 - 3,0 - 3,5 - 4,0 - 5,0 - 5,5 mm



Art. No.
171-SB05

Contents
Slot 1,5x60 - 1,8x60 - 2,5x75 - 3,0x100 - 4,0x100

SCREWDRIVERS



172-075 wooden handle w/leather cap

Art.No.	Width x blade length
172-075	3,5 x 75 mm
172-090	4,5 x 90 mm
172-100	5,5 x 100 mm
172-125	6,5 x 125 mm
175-150	8,0 x 150 mm
172-175	10,0 x 175 mm
172-200	12,0 x 200 mm
172-250	14,0 x 250 mm

ENGINEER'S SCREWDRIVER



172-PH1 wooden handle w/leather cap



172-PZ1 wooden handle w/leather cap

PHILIPS / POZIDRIV SCREWDRIVER

Art.No.	Art.No.	Size x blade length
172-PH1	172-PZ1	PH 1 / PZ 1 x 80 mm
172-PH2	172-PZ2	PH 2 / PZ 2 x 100 mm
172-PH3	172-PZ3	PH 3 / PZ 3 x 150 mm
172-PH4	172-PZ4	PH 4 / PZ 4 x 200 mm



Art. No. 172-006

Contents

Slot 3,5 x 75 - 4,5 x 100
Slot 5,5 x 100 - 6,5 x 100
PH1 x 80 - PH 2 x 100

HERMANN JAEGER GMBH - HAMBURG / GERMANY

VDE - SCREWDRIVERS 1000V



176-075 VDE Slot Screwdriver, insulated

Art.No.	Width x blade length
176-075	2,5 x 75 mm
176-100	3,5 x 100 mm
176-125	5,5 x 125 mm
176-150	6,5 x 150 mm



176-PH1 VDE PH Screwdriver, insulated



176-PZ1 VDE PZ Screwdriver, insulated

Art.No.	Art.No.	Size x blade length
176-PH0	176-PZ0	PH 0 / PZ 0 x 60 mm
176-PH1	176-PZ1	PH 1 / PZ 1 x 80 mm
176-PH2	176-PZ2	PH 2 / PZ 2 x 100 mm



Art. No. 176-005

Contents
 Slot 2,5 x 75 - 3,5 x 100
 Slot 5,5 x 125
 PH1 x 80 - PH 2 x 100

005.008 Centre Punch, knurled / 100 x 8 mm - 4 x 5/16"
 005.001 Centre Punch, knurled / 100 x 10 mm - 4 x 3/8"
 005.002 Centre Punch, knurled / 120 x 10 mm - 4.3/4 x 3/8"



006.008 Centre Punch, plain, pol. point / 100 x 8 mm - 4 x 5/16"
 006.001 Centre Punch, plain, pol. point / 100 x 10 mm - 4 x 3/8"
 006.002 Centre Punch, plain, pol. point / 120 x 10 mm - 4.3/4 x 3/8"
 006.003 Centre Punch, plain, pol. point / 120 x 12 mm - 4.3/4 x 15/32"
 006.004 Centre Punch, plain, pol. point / 150 x 12 mm - 6 x 15/32"



007.001 Centre Punch, DIN 7250, oct. / 100 x 10 mm - 4 x 3/8"
 007.002 Centre Punch, DIN 7250, oct. / 120 x 10 mm - 4.3/4 x 3/8"
 007.003 Centre Punch, DIN 7250, oct. / 120 x 12 mm - 4.3/4 x 15/32"
 007.004 Centre Punch, DIN 7250, oct. / 150 x 12 mm - 6 x 15/32"
 007.005 Centre Punch, DIN 7250, oct. / 150 x 14 mm - 6 x 9/16"
 007.006 Centre Punch, DIN 7250, oct. / 180 x 18 mm - 7 x 3/4"



008.001 Centre Punch, oct. shank / 100 x 10 mm - 4 x 3/8"
 008.002 Centre Punch, oct. shank / 120 x 10 mm - 4.3/4 x 3/8"
 008.003 Centre Punch, oct. shank / 120 x 12 mm - 4.3/4 x 15/32"
 008.004 Centre Punch, oct. shank / 150 x 12 mm - 6 x 15/32"



005.181 Brad Punch, knurled / 100 x 8 x 1 mm - 4 x 5/16 x 1/32"
 005.182 Brad Punch, knurled / 100 x 8 x 2 mm - 4 x 5/16 x 1/16"
 005.183 Brad Punch, knurled / 100 x 8 x 3 mm - 4 x 5/16 x 1/8"
 005.184 Brad Punch, knurled / 100 x 8 x 4 mm - 4 x 5/16 x 5/32"
 005.111 Brad Punch, knurled / 120 x 10 x 1 mm - 4.3/4 x 3/8 x 1/32"
 005.112 Brad Punch, knurled / 120 x 10 x 2 mm - 4.3/4 x 3/8 x 1/16"
 005.113 Brad Punch, knurled / 120 x 10 x 3 mm - 4.3/4 x 3/8 x 1/8"
 005.114 Brad Punch, knurled / 120 x 10 x 4 mm - 4.3/4 x 3/8 x 5/32"
 005.115 Brad Punch, knurled / 120 x 10 x 5 mm - 4.3/4 x 3/8 x 3/16"
 005.116 Brad Punch, knurled / 120 x 10 x 6 mm - 4.3/4 x 3/8 x 1/4"



006.181 Brad Punch, plain, pol. point / 100 x 8 x 1 mm - 4 x 5/16 x 1/32"
 006.182 Brad Punch, plain, pol. point / 100 x 8 x 2 mm - 4 x 5/16 x 1/16"
 006.183 Brad Punch, plain, pol. point / 100 x 8 x 3 mm - 4 x 5/16 x 1/8"
 006.184 Brad Punch, plain, pol. point / 100 x 8 x 4 mm - 4 x 5/16 x 5/32"
 006.101 Brad Punch, plain, pol. point / 100 x 10 x 1 mm - 4 x 3/8 x 1/32"
 006.102 Brad Punch, plain, pol. point / 100 x 10 x 2 mm - 4 x 3/8 x 1/16"
 006.103 Brad Punch, plain, pol. point / 100 x 10 x 3 mm - 4 x 3/8 x 1/8"
 006.104 Brad Punch, plain, pol. point / 100 x 10 x 4 mm - 4 x 3/8 x 5/32"
 006.111 Brad Punch, plain, pol. point / 120 x 10 x 1 mm - 4.3/4 x 3/8 x 1/32"
 006.112 Brad Punch, plain, pol. point / 120 x 10 x 2 mm - 4.3/4 x 3/8 x 1/16"
 006.113 Brad Punch, plain, pol. point / 120 x 10 x 3 mm - 4.3/4 x 3/8 x 1/8"
 006.114 Brad Punch, plain, pol. point / 120 x 10 x 4 mm - 4.3/4 x 3/8 x 5/32"
 006.115 Brad Punch, plain, pol. point / 120 x 10 x 5 mm - 4.3/4 x 3/8 x 3/16"
 006.116 Brad Punch, plain, pol. point / 120 x 10 x 6 mm - 4.3/4 x 3/8 x 1/4"



CENTRE PUNCHES, PIN PUNCHES. CHISELS

- 008.111 Brad Punch, oct. shank / 120 x 10 x 1 mm - 4.3/4 x 3/8 x 1/32"
 008.112 Brad Punch, oct. shank / 120 x 10 x 2 mm - 4.3/4 x 3/8 x 1/16"
 008.113 Brad Punch, oct. shank / 120 x 10 x 3 mm - 4.3/4 x 3/8 x 1/8"
 008.114 Brad Punch, oct. shank / 120 x 10 x 4 mm - 4.3/4 x 3/8 x 5/32"
 008.115 Brad Punch, oct. shank / 120 x 10 x 5 mm - 4.3/4 x 3/8 x 3/16"
 008.116 Brad Punch, oct. shank / 120 x 10 x 6 mm - 4.3/4 x 3/8 x 1/4"



- 007.101 Brad Punch, DIN 6458, oct. / 100 x 10 x 1 mm - 4 x 3/8 x 1/32"
 007.102 Brad Punch, DIN 6458, oct. / 100 x 10 x 2 mm - 4 x 3/8 x 1/16"
 007.103 Brad Punch, DIN 6458, oct. / 100 x 10 x 3 mm - 4 x 3/8 x 1/8"
 007.104 Brad Punch, DIN 6458, oct. / 100 x 10 x 4 mm - 4 x 3/8 x 5/32"
 007.111 Brad Punch, DIN 6458, oct. / 120 x 10 x 1 mm - 4.3/4 x 3/8 x 1/32"
 007.112 Brad Punch, DIN 6458, oct. / 120 x 10 x 2 mm - 4.3/4 x 3/8 x 1/16"
 007.113 Brad Punch, DIN 6458, oct. / 120 x 10 x 3 mm - 4.3/4 x 3/8 x 1/8 "
 007.114 Brad Punch, DIN 6458, oct. / 120 x 10 x 4 mm - 4.3/4 x 3/8 x 5/32"
 007.115 Brad Punch, DIN 6458, oct. / 120 x 10 x 5 mm - 4.3/4 x 3/8 x 3/16"
 007.116 Brad Punch, DIN 6458, oct. / 120 x 10 x 6 mm - 4.3/4 x 3/8 x 1/4"
 007.121 Brad Punch, DIN 6458, oct. / 120 x 12 x 1 mm - 4.3/4 x 15/32 x 1/32"
 007.122 Brad Punch, DIN 6458, oct. / 120 x 12 x 2 mm - 4.3/4 x 15/32 x 1/16"
 007.123 Brad Punch, DIN 6458, oct. / 120 x 12 x 3 mm - 4.3/4 x 15/32 x 1/8"
 007.124 Brad Punch, DIN 6458, oct. / 120 x 12 x 4 mm - 4.3/4 x 15/32 x 5/32"
 007.125 Brad Punch, DIN 6458, oct. / 120 x 12 x 5 mm - 4.3/4 x 15/32 x 3/16"
 007.126 Brad Punch, DIN 6458, oct. / 120 x 12 x 6 mm - 4.3/4 x 15/32 x 1/4"
 007.127 Brad Punch, DIN 6458, oct. / 120 x 12 x 7 mm - 4.3/4 x 15/32 x 9/32"
 007.128 Brad Punch, DIN 6458, oct. / 120 x 12 x 8 mm - 4.3/4 x 15/32 x 5/16"
 007.120 Brad Punch, DIN 6458, oct. / 120 x 12 x 10 mm - 4.3/4 x 15/32 x 3/8"
 007.134 Brad Punch, DIN 6458, oct. / 150 x 12 x 4 mm - 6 x 15/32 x 5/32"
 007.138 Brad Punch, DIN 6458, oct. / 150 x 12 x 8 mm - 6 x 15/32 x 5/16"
 007.139 Brad Punch, DIN 6458, oct. / 150 x 12 x 9 mm - 6 x 15/32 x 11/32"
 007.130 Brad Punch, DIN 6458, oct. / 150 x 12 x 10 mm - 6 x 15/32 x 3/8"
 007.148 Brad Punch, DIN 6458, oct. / 150 x 14 x 8 mm - 6 x 9/16 x 5/16"
 007.140 Brad Punch, DIN 6458, oct. / 150 x 14 x 10 mm - 6 x 9/16 x 3/8"
 007.142 Brad Punch, DIN 6458, oct. / 150 x 14 x 12 mm - 6 x 9/16 x 15/32"
 007.151 Brad Punch, DIN 6458, oct. / 175 x 16 x 11 mm - 6 x 5/8 x 7/16"
 007.152 Brad Punch, DIN 6458, oct. / 175 x 16 x 12 mm - 6 x 5/8 x 15/32"



007.400



007.600



007.500

- 007.400 Sets of Brad and Centre Punch - in plastic clip
 007.500 Sets of Brad and Centre Punch - in plastic stand box
 007.600 Sets of Brad and Centre Punch - in metal box

PARALLEL PIN PUNCHES

octagonal shank, CV-selfhardening steel,
with non-spread head, lacquerred oven finish
DIN 6450 C



014.015	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 10 x 1.5 mm
014.002	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 10 x 2.0 mm
014.025	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 10 x 2.5 mm
014.003	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 10 x 3.0 mm
014.035	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 10 x 3.5 mm
014.004	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 10 x 4.0 mm
014.005	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 10 x 5.0 mm
014.006	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 10 x 6.0 mm
014.007	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 10 x 7.0 mm
014.008	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 10 x 8.0 mm
014.016	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 12 x 6.0 mm
014.017	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 12 x 7.0 mm
014.018	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 12 x 8.0 mm
014.019	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 12 x 9.0 mm
014.020	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 12 x 10.0 mm
014.030	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 14 x 10.0 mm
014.040	Parallel Pin Punch, DIN 6450 C, oct. shank /	150 x 14 x 12.0 mm
014.050	Parallel Pin Punch, DIN 6450 C for brake rivets /	180 x 10 x 4.0 mm
014.060	Parallel Pin Punch, DIN 6450 C for brake rivets /	180 x 10 x 6.0 mm
014.065	Parallel Pin Punch, DIN 6450 C for brake rivets /	180 x 10 x 6.0 mm w/pilot pin



Sets, ctg. ea. 1 piece 3 - 4 - 5 - 6 - 7 - 8 mm



014.100 wooden stand



014.200 plastic wallet



014.600 metal box
014.500 plastic box



014.400 plastic stand



CENTRE PUNCHES, PIN PUNCHES. CHISELS

PARALLEL PIN PUNCHES, Export quality
octagonal shank, CV-self hardening steel,
unground shaft, lacquerred oven finish



hardness 54-
58 HRC



naturly hardness

016.002	Parallel Pin Punch, export quality /	150 x 10 x 2 mm
016.003	Parallel Pin Punch, export quality /	150 x 10 x 3 mm
016.004	Parallel Pin Punch, export quality /	150 x 10 x 4 mm
016.005	Parallel Pin Punch, export quality /	150 x 10 x 5 mm
016.006	Parallel Pin Punch, export quality /	150 x 10 x 6 mm
016.007	Parallel Pin Punch, export quality /	150 x 10 x 7 mm
016.008	Parallel Pin Punch, export quality /	150 x 10 x 8 mm

Sets, ctg. ea. 1 piece 3 - 4 - 5 - 6 - 7 - 8 mm



016.200 - plastic wallet



016.500 - plastic box

TOOL SETS, 6 pcs. CV-self hardening steel, octagonal shank, with non-spread head, lacquerred oven



009.100 - wooden stand



009.200 - plastic wallet



009.400 -plastic stand



009.600 - metal box
009.500 - plastic box



HERMANN JAEGER GMBH - HAMBURG / GERMANY

TOOL SETS, 6 pcs. tool steel, octagonal shank, lacquerred oven finish

Contents: 1 Flat chisel 125 x 10 x 12 mm, 1 Flat chisel 150 x 12 x 16 mm, 1 Centre Punch 150 x 12 mm
1 Brad Punch 120 x 10 x 2 mm, 1 Brad Punch 120 x 10 x 3 mm, 1 Brad Punch 120 x 10 x 4 mm



010.200 - plastic wallet



010.600 - plastic stand

POINTED CHISELS, octagobal shank, chrome-molybd.-vanadium self hardening steel, non-spread head, ground blade cut, lacquerred oven finish

020.005	Pointed Chisel, DIN 7256, octagonal shank /	200 x 16 (15) mm
020.007	Pointed Chisel, DIN 7256, octagonal shank /	250 x 16 (15) mm
020.009	Pointed Chisel, DIN 7256, octagonal shank /	300 x 16 (15) mm
020.010	Pointed Chisel, DIN 7256, octagonal shank /	300 x 18 mm
020.012	Pointed Chisel, DIN 7256, octagonal shank /	350 x 18 mm
020.013	Pointed Chisel, DIN 7256, octagonal shank /	400 x 20 mm
020.014	Pointed Chisel, DIN 7256, octagonal shank /	500 x 20 mm
020.016	Pointed Chisel, DIN 7256, octagonal shank /	600 x 22 mm



DIN 7256



DIN 7254 Form B



Shank 38-46 HRC
Blade 55-58 HRC

021.001	Stone Chisel, DIN 7254 Form B, octagonal shank /	125 x 10 x 12 mm
021.003	Stone Chisel, DIN 7254 Form B, octagonal shank /	150 x 12 x 16 mm
021.005	Stone Chisel, DIN 7254 Form B, octagonal shank /	200 x 16 (15) x 20 mm
021.007	Stone Chisel, DIN 7254 Form B, octagonal shank /	250 x 16 (15) x 20 mm
021.009	Stone Chisel, DIN 7254 Form B, octagonal shank /	300 x 16 (15) x 20 mm
021.010	Stone Chisel, DIN 7254 Form B, octagonal shank /	300 x 18 x 26 mm
021.012	Stone Chisel, DIN 7254 Form B, octagonal shank /	350 x 18 x 26 mm
021.013	Stone Chisel, DIN 7254 Form B, octagonal shank /	400 x 20 x 28 mm
021.014	Stone Chisel, DIN 7254 Form B, octagonal shank /	500 x 20 x 28 mm
021.016	Stone Chisel, DIN 7254 Form B, octagonal shank /	600 x 22 x 30 mm

029.001	Hand Guards for Chisel, grooved /	23 x 13 mm - flat oval
029.002	Hand Guards for Chisel, grooved /	18 mm - octagonal
029.003	Hand Guards for Chisel, grooved /	26 x 7 mm - flat oval



FLAT CHISELS, flat-oval, tool steel, lacquerred oven finish

022.001	Flat Chisel, flat oval /	125 x 14 x 9 mm
022.002	Flat Chisel, flat oval /	150 x 17 x 11 mm
022.003	Flat Chisel, flat oval /	175 x 20 x 12 mm
022.004	Flat Chisel, flat oval /	200 x 20 x 12 mm
022.005	Flat Chisel, flat oval /	250 x 23 x 13 mm
022.006	Flat Chisel, flat oval /	300 x 23 x 13 mm
022.007	Flat Chisel, flat oval /	350 x 23 x 13 mm
022.008	Flat Chisel, flat oval /	400 x 23 x 13 mm



STONE CHISELS, octagonal shank, tool steel, lacquerred oven finish

027.001	Stone Chisel, oct, shank /	125 x 8 x 8 mm - 5 x 5/16 x 5/16"
027.002	Stone Chisel, oct, shank /	125 x 8 x 10 mm - 5 x 5/16 x 3/8"
027.003	Stone Chisel, oct, shank /	125 x 10 x 10 mm - 5 x 3/8 x 3/8"
027.004	Stone Chisel, oct, shank /	125 x 10 x 13 mm - 5 x 3/8 x 1/2"
027.005	Stone Chisel, oct, shank /	150 x 10 x 10 mm - 6 x 3/8 x 3/8"
027.006	Stone Chisel, oct, shank /	150 x 10 x 13 mm - 6 x 3/8 x 1/2"
027.007	Stone Chisel, oct, shank /	150 x 12 x 13 mm - 6 x 1/2 x 1/2"
027.008	Stone Chisel, oct, shank /	150 x 12 x 16 mm - 6 x 1/2 x 5/8"
027.009	Stone Chisel, oct, shank /	150 x 12 x 19 mm - 6 x 1/2 x 3/4"
027.010	Stone Chisel, oct, shank /	150 x 15 x 19 mm - 6 x 5/8 x 3/4"
027.011	Stone Chisel, oct, shank /	175 x 12 x 13 mm - 7 x 1/2 x 1/2"
027.012	Stone Chisel, oct, shank /	175 x 12 x 16 mm - 7 x 1/2 x 5/8"
027.013	Stone Chisel, oct, shank /	175 x 12 x 19 mm - 7 x 1/2 x 3/4"
027.014	Stone Chisel, oct, shank /	175 x 15 x 19 mm - 7 x 5/8 x 3/4"
027.015	Stone Chisel, oct, shank /	175 x 15 x 22 mm - 7 x 5/8 x 7/8"
027.016	Stone Chisel, oct, shank /	200 x 10 x 10 mm - 8 x 3/8 x 3/8"
027.017	Stone Chisel, oct, shank /	200 x 10 x 13 mm - 8 x 3/8 x 1/2"
027.018	Stone Chisel, oct, shank /	200 x 12 x 13 mm - 8 x 1/2 x 1/2"
027.019	Stone Chisel, oct, shank /	200 x 12 x 16 mm - 8 x 1/2 x 5/8"
027.020	Stone Chisel, oct, shank /	200 x 12 x 19 mm - 8 x 1/2 x 3/4"
027.021	Stone Chisel, oct, shank /	200 x 15 x 19 mm - 8 x 5/8 x 3/4"
027.022	Stone Chisel, oct, shank /	200 x 15 x 22 mm - 8 x 5/8 x 7/8"
027.023	Stone Chisel, oct, shank /	200 x 18 x 22 mm - 8 x 3/4 x 7/8"
027.024	Stone Chisel, oct, shank /	200 x 18 x 25 mm - 8 x 3/4 x 1"
027.025	Stone Chisel, oct, shank /	250 x 10 x 13 mm - 10 x 3/8 x 1/2"
027.026	Stone Chisel, oct, shank /	250 x 12 x 16 mm - 10 x 1/2 x 5/8"
027.027	Stone Chisel, oct, shank /	250 x 12 x 18 mm - 10 x 1/2 x 11/16"
027.028	Stone Chisel, oct, shank /	250 x 12 x 19 mm - 10 x 1/2 x 3/4"
027.029	Stone Chisel, oct, shank /	250 x 15 x 19 mm - 10 x 5/8 x 3/4"
027.030	Stone Chisel, oct, shank /	250 x 15 x 22 mm - 10 x 5/8 x 7/8"
027.031	Stone Chisel, oct, shank /	250 x 18 x 22 mm - 10 x 3/4 x 7/8"
027.032	Stone Chisel, oct, shank /	250 x 18 x 25 mm - 10 x 3/4 x 1"
027.033	Stone Chisel, oct, shank /	250 x 20 x 25 mm - 10 x 25/32 x 1"
027.034	Stone Chisel, oct, shank /	250 x 22 x 28 mm - 10 x 7/8 x 1.1/8"
027.035	Stone Chisel, oct, shank /	250 x 25 x 32 mm - 10 x 1 x 1.1/4"
027.036	Stone Chisel, oct, shank /	300 x 12 x 16 mm - 12 x 1/2 x 5/8"
027.037	Stone Chisel, oct, shank /	300 x 12 x 19 mm - 12 x 1/2 x 3/4"
027.038	Stone Chisel, oct, shank /	300 x 15 x 19 mm - 12 x 5/8 x 3/4"
027.039	Stone Chisel, oct, shank /	300 x 15 x 22 mm - 12 x 5/8 x 7/8"
027.040	Stone Chisel, oct, shank /	300 x 18 x 22 mm - 12 x 3/4 x 7/8"
027.041	Stone Chisel, oct, shank /	300 x 18 x 25 mm - 12 x 3/4 x 1"



STONE CHISELS, octagonal shank, tool steel, lacquered oven finish

027.042	Stone Chisel, oct, shank /	300 x 20 x 25 mm - 12 x 25/32 x 1"
027.043	Stone Chisel, oct, shank /	300 x 22 x 28 mm - 12 x 7/8 x 1.1/8"
027.044	Stone Chisel, oct, shank /	300 x 25 x 32 mm - 12 x 7/8 x 1.1/8"
027.045	Stone Chisel, oct, shank /	350 x 15 x 19 mm - 14 x 1 x 1.1/4"
027.046	Stone Chisel, oct, shank /	350 x 18 x 22 mm - 14 x 3/4 x 7/8"
027.047	Stone Chisel, oct, shank /	350 x 20 x 25 mm - 14 x 25/32 x 1"
027.048	Stone Chisel, oct, shank /	350 x 22 x 32 mm - 14 x 7/8 x 1.1/4"
027.049	Stone Chisel, oct, shank /	400 x 18 x 22 mm - 16 x 3/4 x 7/8"
027.050	Stone Chisel, oct, shank /	400 x 20 x 25 mm - 16 x 25/32 x 1"
027.051	Stone Chisel, oct, shank /	400 x 22 x 32 mm - 16 x 7/8 x 1.1/4"
027.055	Stone Chisel, oct, shank /	500 x 20 x 25 mm - 20 x 25/32 x 1"
027.056	Stone Chisel, oct, shank /	500 x 22 x 32 mm - 20 x 7/8 x 1.1/4"



POINTED CHISELS, octagonal shank, tool steel, lacquered oven finish

026.001	Pointed Chisel, oct, shank /	125 x 10 mm - 5 x 3/8"
026.002	Pointed Chisel, oct, shank /	150 x 10 mm - 6 x 3/8"
026.003	Pointed Chisel, oct, shank /	150 x 12 mm - 6 x 1/2"
026.004	Pointed Chisel, oct, shank /	150 x 15 mm - 6 x 5/8"
026.005	Pointed Chisel, oct, shank /	175 x 12 mm - 7 x 1/2"
026.006	Pointed Chisel, oct, shank /	175 x 15 mm - 7 x 5/8"
026.007	Pointed Chisel, oct, shank /	200 x 10 mm - 8 x 3/8"
026.008	Pointed Chisel, oct, shank /	200 x 12 mm - 8 x 1/2"
026.009	Pointed Chisel, oct, shank /	200 x 15 mm - 8 x 5/8"
026.010	Pointed Chisel, oct, shank /	200 x 18 mm - 8 x 3/4"
026.011	Pointed Chisel, oct, shank /	250 x 10 mm - 10 x 3/8"
026.012	Pointed Chisel, oct, shank /	250 x 12 mm - 10 x 1/2"
026.013	Pointed Chisel, oct, shank /	250 x 15 mm - 10 x 5/8"
026.014	Pointed Chisel, oct, shank /	250 x 18 mm - 10 x 3/4"
026.015	Pointed Chisel, oct, shank /	250 x 20 mm - 10 x 25/32"
026.016	Pointed Chisel, oct, shank /	250 x 22 mm - 10 x 7/8"
026.017	Pointed Chisel, oct, shank /	250 x 25 mm - 10 x 1"
026.018	Pointed Chisel, oct, shank /	300 x 12 mm - 12 x 1/2"
026.019	Pointed Chisel, oct, shank /	300 x 15 mm - 12 x 5/8"
026.020	Pointed Chisel, oct, shank /	300 x 18 mm - 12 x 3/4"
026.021	Pointed Chisel, oct, shank /	300 x 20 mm - 12 x 25/32"
026.022	Pointed Chisel, oct, shank /	300 x 22 mm - 12 x 7/8"
026.023	Pointed Chisel, oct, shank /	300 x 25 mm - 12 x 1"
026.075	Pointed Chisel, oct, shank /	325 x 20 mm - 13 x 25/32"
026.024	Pointed Chisel, oct, shank /	350 x 15 mm - 14 x 5/8"
026.025	Pointed Chisel, oct, shank /	350 x 18 mm - 14 x 3/4"
026.026	Pointed Chisel, oct, shank /	350 x 20 mm - 14 x 25/32"
026.027	Pointed Chisel, oct, shank /	350 x 22 mm - 14 x 7/8"
026.028	Pointed Chisel, oct, shank /	400 x 18 mm - 16 x 3/4"
026.029	Pointed Chisel, oct, shank /	400 x 20 mm - 16 x 25/32"
026.030	Pointed Chisel, oct, shank /	400 x 22 mm - 16 x 7/8"
026.033	Pointed Chisel, oct, shank /	500 x 20 mm - 20 x 25/32"
026.034	Pointed Chisel, oct, shank /	500 x 22 mm - 20 x 7/8"





Tap holder with ratchet

for right- and left-hand turn

No. 1 for taps M 3 -10 / Squares 2.4 - 5,5 mm

No. 2 for taps M 5 -12 / Squares 4,5 - 8,0 mm

No. 10 for taps M 3 -10 / Squares 2.4 - 5,5 mm

No. 20 for taps M 5 -12 / Squares 4,5 - 8,0 mm



Adjustable Tap Wrenches

DIN 1814

Zinc die cast

No. 0 (M 1 - 8) to No. 5L (M 13 - 32)

DIN 1814

Steel

No. 0 (M 1 - 8) to No. 8 (M 25 - 64)



Die Stocks

DIN 225 (EN 22568)

Zinc die cast

Diam. 16 x 5 (M1 - 2,6) to 65 x 25 (M27 - 36)

DIN 225 (EN 22568)

Steel

Diam. 45 x 18 (M16 - 20) to 120 x 36 (M64 - 71)

Diam. 130 x 25 (G 3") to 160 x 25 (G 4")



Die Stocks

Inch - with 3 screws

Zinc die cast

Diam. 13/16" to 4"



Tap Extensions

DIN 377, squares acc. to DIN 10

Square 2,1 mm / Length 60 mm

up to

Square 32 mm / Length 285 mm



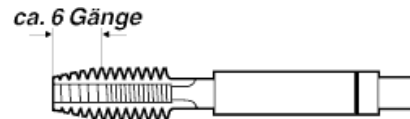
For more details please refer to the main catalogues



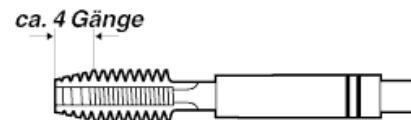
Leads of Hand Taps, Sets of 3 pcs.



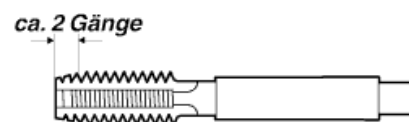
Nr. 1 Rougher, 6-8 Threads Lead



Nr. 2 Intermediate, 4-5 Threads Lead

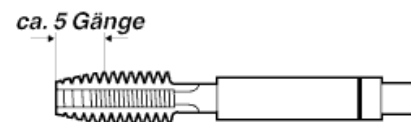


Nr. 3 Finisher, 2-3 Threads Lead

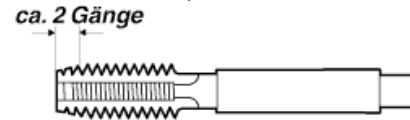


Leads of Hand Taps, Sets of 2 pcs.

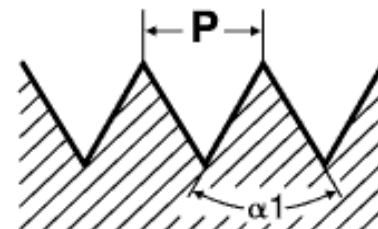
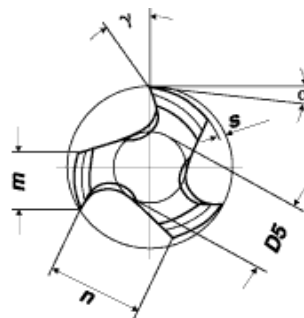
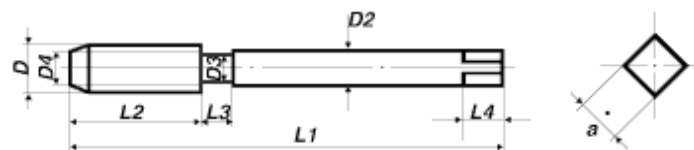
Nr. 1 Rougher, 5-6 Threads Lead



Nr. 2 Finisher, 2-3 Threads Lead



D	Nominal diameter
D2	Shank diameter
D3	Neck diameter
D4	Point diameter
D5	Minor diameter
L1	Overall length
L2	Thread length
L3	Neck length
L4	Square length
P	Pitch
a	Square
m	Land width
n	Flute width
s	Thread relief
α	Relief angle
g	Rake angle
α1	Thread angle





Form B Spiral point



Form C35° Spiral flute



Form C

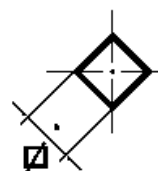
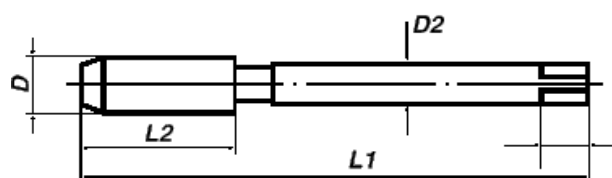
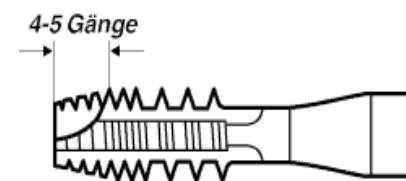
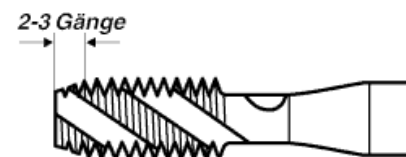
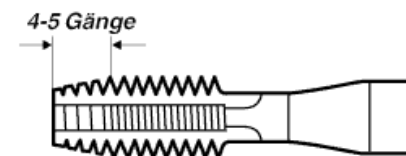
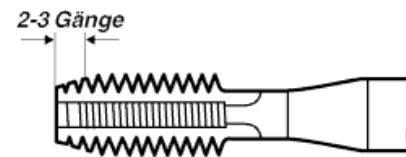
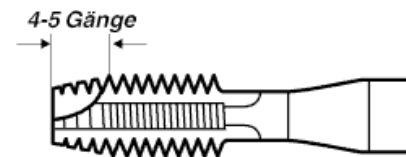
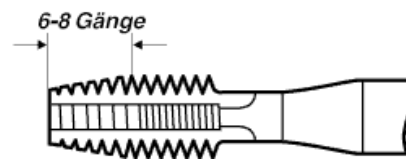


Form D

Short Machine Taps

Technical Information

- Form A** 6-8 Threads Lead,
for short through holes
- Form B** 4-5 Threads Lead with Spiral Point,
for through holes
- Form C** 2-3 Threads Lead,
for blind holes
- Form D** 4-5 Threads Lead,
for through and blind holes
- Form C/35°
RSP** 2-3 Threads Lead,
35° Spiral Flute, for blind holes
- Form B-AZ** 4-5 Threads Lead with Spiral
Point and interrupted threads for
through holes





Form A



Form C



Form B



Form C 15°



Form C 35°



Form B-AZ

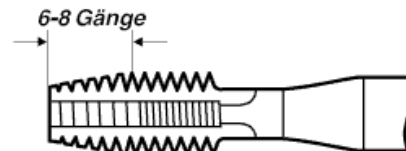
Machine Taps

Technical Information

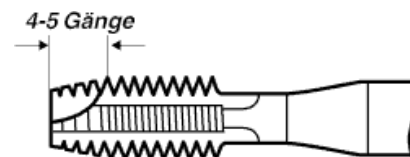
Through hole



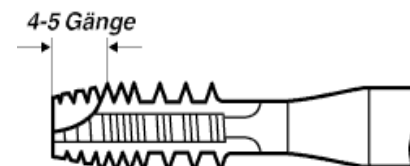
Form A 6-8 Threads Lead,
for through holes



Form B 4-5 Threads Lead with Spiral Point,
for through holes



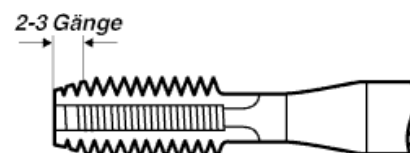
Form B-AZ 4-5 Threads Lead with Spiral
Point and interrupted threads for
through holes



Blind hole



Form C 2-3 Threads Lead,
for blind holes



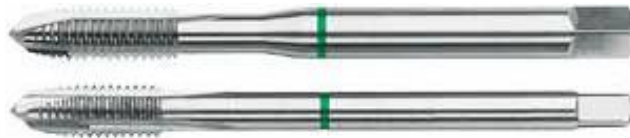
**Form C/35°
RSP** 2-3 Threads Lead,
35° Spiral Flute, for blind holes





GREEN RING for general pupose
Form B = spiral point
Form C/39° RSP = spiral flute

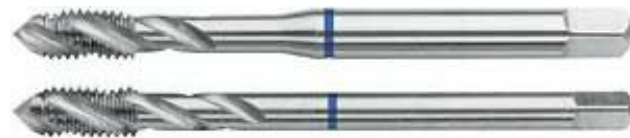
METRIC THREADS



BLUE RING for wear resistant steel

Form B = spiral point
Form C/39° RSP = spiral flute

METRIC THREADS



WHITE RING for stainless steel
Form B = spiral point
Form C/39° RSP = spiral flute

Threads: M, Mf, UNC, UNF, G(BSP)



YELLOW RING for aluminium alloys
Form C/40° RSP = spiral flute

METRIC THREADS



To get more details abt. the coloured ring programme please refer to the main catalogues





Recommended Application of Machine Taps

Form	A	C	B	C15°RSP	C35°RSP	B-AZ
Bore						

Material

Structural Steel up to 500 N/mm ²	A	C	B	15°RSP	35°RSP	B-AZ
Structural Steel over 500 N/mm ²	A	C	B	15°RSP	35°RSP	
free cutting Steel			B		35°RSP	
Cementation Steel, heat treatable Steel			B		35°RSP	B-AZ
Tool Steel			B		35°RSP	
Stainless Steel			B		35°RSP	B-AZ
Cast Steel			B	15°RSP	35°RSP	
Cast Iron, spheroidal graphite Iron		C				
Malleable Cast Iron	A	C	B	15°RSP	35°RSP	
Brass, short-chipping		C				
Brass, long-chipping			B	15°RSP	35°RSP	
Bronzes			B		35°RSP	
Copper			B	15°RSP	35°RSP	
Al-alloys, short chipping		C	B		35°RSP	
Al-alloys, long chipping			B	15°RSP	35°RSP	B-AZ
Zinc Alloys			B	15°RSP	35°RSP	
Magnesium Alloys		C	B		35°RSP	B-AZ
Thermo-plastics			B		35°RSP	
Thermo-setting Plastics		C				



Round Dies HSS, DIN 223
SOLID type (Form B)

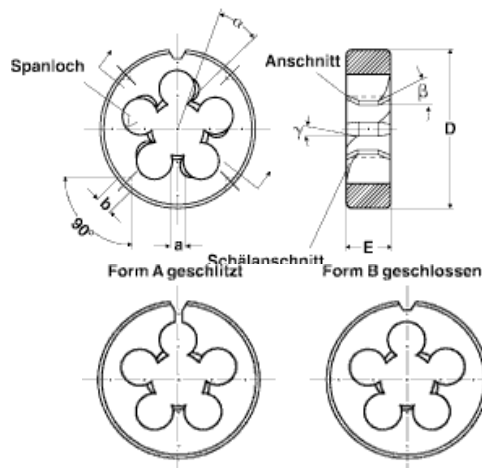


Round Dies HSS

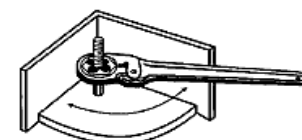
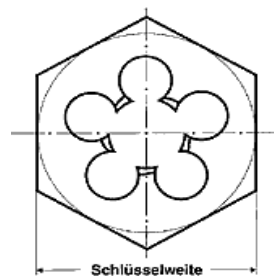
SPLIT type (Form A)



Hexagon Die Nut HSS, DIN 382



D= Outside diameter
E= Width of die
a= Width of land
b= Hole for holding screws
α= Rake angle
β= Lead angle
γ= Angle of gun nose



The **VÖLKE** Taps & Dies are available in various set combinations - Please refer to the main catalogue





V-Coil Thread-Repair

Drilling

Clear the damaged thread with a Standard Drill.
Up to M 12 (1/2") the KITS include the correct drill.
To repair a spark plug thread no pre-drilling is necessary if using the special Spark Plug Tap.
Please pay attention that for Fluteless Taps bigger holes are required.

Check

Check that thread and pitch of the tap and the bolt match.

Tapping

Use the special V-COIL-Taps for cutting the holding thread into the cleared hole.
It is recommended to use a suitable cutting oil.

Install the Insert

Place insert on Installation Tool and position the adjustable ring so that the insert tang is centred in the tang slot.
Wind the Insert in with a light downward pressure until a half turn below the surface. Don't work against thread direction as the tang could break.

Tang Removal

After finishing lift the Installation Tool and use the Tang Break Tool to remove the tang. For bigger sizes and Spark Plug Taps use Long Nose Pliers to remove the tang.

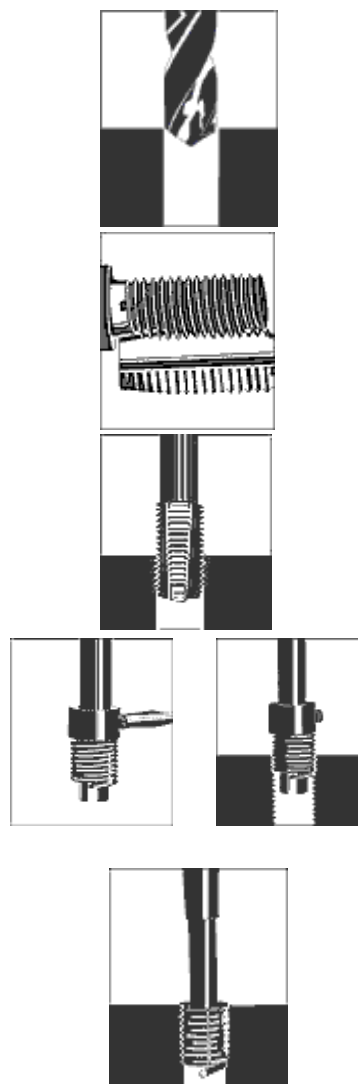
Due to the narrow and exact tolerances the new thread normally is stronger than the original one.

Application:

Thread Armour Plating. For material with low shear strength eg. aluminum-alloys and magnesium alloys. Used in machine-building, electrical, automotive, medical and aerospace industries.

Thread Repair of damaged or worn-out threads.

Recovery of rejected items.



Thread inserts std.

red Thread inserts screw locking



STI-Fluteless Tap



STI-Tap (Second Lead)



STI-Machine Tap (Spiral Point)



STI-Machine Tap (Spiral Flute)



Inserting Tool



Tang Break Tool



Extracting Tool



Machine Inserting Tool



Wire-Thread-Inserts std.



RED = screw locking



Single Thread Repair Kit



Thread-Repair Kit
STI-Taps, set of 2 pcs.
Inserting tool with Hexagon Drive



Workshop Thread Repair Kit

HERMANN JAEGER GMBH - HAMBURG / GERMANY

DRILL BITS	
DIN 338 HSS	HSS twist drill DIN 338, Type N, short, rollforged 
DIN 338 HSS	HSS twist drill DIN 338, Type N, with reduced shank, rollforged 
DIN 338 HSS	HSS Spiralbohrer DIN 338, Type N, short, ground, bright 
DIN 338 HSS	HSS Spiralbohrer DIN 338, Type N, short, ground, TIN coated 
DIN 338 HSS	HSS Spiralbohrer DIN 338, Type N, short, ground, bright, with split point 
DIN 338 HSS	HSS Spiralbohrer DIN 338, Type N, short, ground, bright, with split point, TIN coated 
DIN 338 HSSE (HSSCo5)	HSSE Spiralbohrer DIN 338, Type N, short, ground, bright, with split point, 5% cobalt-alloyed 
DIN 340 HSS	HSS twist drill DIN 340, Type N, long series, rollforged 
DIN 340 HSS	HSS twist drill DIN 340, Type N, long series, ground, bright 
DIN 345 HSS	HSS twist drill DIN 345, with taper shank 
DIN 1897 HSS	HSS twist drill DIN 1897, Type N, with straight shank, ground, extra short 
sim. DIN 1897	HSS rivet drill, similar DIN 1897, type N, with straight shank, ground, works standard 
DIN 8039	Masonry drill bit, Standard-Quality, galvanized, for rotary and percussion drilling 
BETON	Percussion drill bit, for rotary and percussion drilling, universal use 
SDS	SDS Hammer drill SDS Hammer drill bit 
WOOD	Wood working drill bit, with cylindrical shank, for soft- and hard wood, hardened special steel, with center point and 2 cutting edges 
	Auger bit for all kinds of wood, with hexagonal shank, milled 
	Forstner bit with cylindrical shank, for soft/hard wood, hardened sp. steel, with center point and 2 cutting edges 
	Flat wood drills with hexagonal shank, for drills in soft wood, polished, with brad point 

HERMANN JAEGER GMBH - HAMBURG / GERMANY

DRILL BITS

DIN 338 HSS

DIN 338 HSS

HSS twist drill DIN 338,
Type N, short, rollforged

HSS twist drill DIN 338,
Type N, with reduced shank, rollforged



0,30 mm	4,80 mm	9,30 mm	1/64"	10,50 mm reduced shank 3/8"
0,40 mm	4,90 mm	9,40 mm	1/32"	11,00 mm reduced shank 3/8"
0,50 mm	5,00 mm	9,50 mm	3/64"	11,50 mm reduced shank 3/8"
0,60 mm	5,10 mm	9,60 mm	1/16"	12,00 mm reduced shank 3/8"
0,70 mm	5,20 mm	9,70 mm	5/64"	12,50 mm reduced shank 3/8"
0,80 mm	5,25 mm	9,75 mm	3/32"	13,00 mm reduced shank 3/8"
0,90 mm	5,30 mm	9,80 mm	7/64"	13,50 mm reduced shank 3/8"
1,00 mm	5,40 mm	9,90 mm	1/ 8"	14,00 mm reduced shank 3/8"
1,10 mm	5,50 mm	10,00 mm	9/64"	14,50 mm reduced shank 3/8"
1,20 mm	5,60 mm	10,20 mm	5/32"	15,00 mm reduced shank 3/8"
1,25 mm	5,70 mm	10,50 mm	11/64"	15,50 mm reduced shank 3/8"
1,30 mm	5,75 mm	11,00 mm	3/16"	16,00 mm reduced shank 3/8"
1,40 mm	5,80 mm	11,50 mm	13/64"	16,50 mm reduced shank 3/8"
1,50 mm	5,90 mm	12,00 mm	7/32"	17,00 mm reduced shank 3/8"
1,60 mm	6,00 mm	12,50 mm	15/64"	17,50 mm reduced shank 3/8"
1,70 mm	6,10 mm	13,00 mm	1/ 4"	18,00 mm reduced shank 3/8"
1,75 mm	6,20 mm	13,50 mm	17/64"	18,50 mm reduced shank 3/8"
1,80 mm	6,25 mm	14,00 mm	9/32"	19,00 mm reduced shank 3/8"
1,90 mm	6,30 mm	14,50 mm	19/64"	19,50 mm reduced shank 3/8"
2,00 mm	6,40 mm	15,00 mm	5/16"	20,00 mm reduced shank 3/8"
2,10 mm	6,50 mm	15,50 mm	21/64"	13,50 mm reduced shank 1/2"
2,20 mm	6,60 mm	16,00 mm	11/32"	14,00 mm reduced shank 1/2"
2,25 mm	6,70 mm	16,50 mm	23/64"	14,50 mm reduced shank 1/2"
2,30 mm	6,80 mm	17,00 mm	3/ 8"	15,00 mm reduced shank 1/2"
2,40 mm	6,90 mm	17,50 mm	25/64"	15,50 mm reduced shank 1/2"
2,50 mm	7,00 mm	18,00 mm	13/32"	16,00 mm reduced shank 1/2"
2,60 mm	7,10 mm	18,50 mm	27/64"	16,50 mm reduced shank 1/2"
2,70 mm	7,20 mm	19,00 mm	7/16"	17,00 mm reduced shank 1/2"
2,75 mm	7,25 mm	19,50 mm	29/64"	17,50 mm reduced shank 1/2"
2,80 mm	7,30 mm	20,00 mm	15/32"	18,00 mm reduced shank 1/2"
2,90 mm	7,40 mm		31/64"	18,50 mm reduced shank 1/2"
3,00 mm	7,50 mm		1/ 2"	19,00 mm reduced shank 1/2"
3,10 mm	7,60 mm		9/16"	19,50 mm reduced shank 1/2"
3,20 mm	7,70 mm		5/ 8"	20,00 mm reduced shank 1/2"
3,25 mm	7,75 mm		3/ 4"	22,00 mm reduced shank 1/2"
3,30 mm	7,80 mm			24,00 mm reduced shank 1/2"
3,40 mm	7,90 mm			25,00 mm reduced shank 1/2"
3,50 mm	8,00 mm			
3,60 mm	8,10 mm			1/ 2" reduced shank 3/8"
3,70 mm	8,20 mm			3/ 4" reduced shank 3/8"
3,75 mm	8,25 mm			5/ 8" reduced shank 3/8"
3,80 mm	8,30 mm			7/16" reduced shank 3/8"
3,90 mm	8,40 mm			9/16" reduced shank 3/8"
4,00 mm	8,50 mm			13/32" reduced shank 3/8"
4,10 mm	8,60 mm			15/32" reduced shank 3/8"
4,20 mm	8,70 mm			27/64" reduced shank 3/8"
4,25 mm	8,75 mm			29/64" reduced shank 3/8"
4,30 mm	8,80 mm			31/64" reduced shank 3/8"
4,40 mm	8,90 mm			1" reduced shank 1/2"
4,50 mm	9,00 mm			3/ 4" reduced shank 1/2"
4,60 mm	9,10 mm			5/ 8" reduced shank 1/2"
4,70 mm	9,20 mm			7/ 8" reduced shank 1/2"
4,75 mm	9,25 mm			9/16" reduced shank 1/2"



HERMANN JAEGER GMBH - HAMBURG / GERMANY

DRILL BITS

DIN 345 HSS

HSS twist drill DIN 345,
with taper shank



10,00 mm	15,50 mm	21,00 mm	26,50 mm	32,00 mm	37,50 mm	43,00 mm	48,50 mm
10,50 mm	16,00 mm	21,50 mm	27,00 mm	32,50 mm	38,00 mm	43,50 mm	49,00 mm
11,00 mm	16,50 mm	22,00 mm	27,50 mm	33,00 mm	38,50 mm	44,00 mm	49,50 mm
11,50 mm	17,00 mm	22,50 mm	28,00 mm	33,50 mm	39,00 mm	44,50 mm	50,00 mm
12,00 mm	17,50 mm	23,00 mm	28,50 mm	34,00 mm	39,50 mm	45,00 mm	51,00 mm
12,50 mm	18,00 mm	23,50 mm	29,00 mm	34,50 mm	40,00 mm	45,50 mm	52,00 mm
13,00 mm	18,50 mm	24,00 mm	29,50 mm	35,00 mm	40,50 mm	46,00 mm	53,00 mm
13,50 mm	19,00 mm	24,50 mm	30,00 mm	35,50 mm	41,00 mm	46,50 mm	54,00 mm
14,00 mm	19,50 mm	25,00 mm	30,50 mm	36,00 mm	41,50 mm	47,00 mm	55,00 mm
14,50 mm	20,00 mm	25,50 mm	31,00 mm	36,50 mm	42,00 mm	47,50 mm	56,00 mm
15,00 mm	20,50 mm	26,00 mm	31,50 mm	37,00 mm	42,50 mm	48,00 mm	57,00 mm
							58,00 mm
							59,00 mm
							60,00 mm

DIN 8039

Masonry drill bit,
Standard-Quality, galvanized, for rotary and
percussion drilling



3,00 mm	7,00 mm	13,00 mm	22,00 mm
4,00 mm	8,00 mm	14,00 mm	24,00 mm
5,00 mm	9,00 mm	15,00 mm	25,00 mm
5,50 mm	10,00 mm	16,00 mm	
6,00 mm	11,00 mm	18,00 mm	
6,50 mm	12,00 mm	20,00 mm	



5,00 mm x 150 mm	5,00 mm x 200 mm	11,00 mm x 200 mm
5,50 mm x 150 mm	5,50 mm x 200 mm	12,00 mm x 200 mm
6,00 mm x 150 mm	6,00 mm x 200 mm	13,00 mm x 200 mm
6,50 mm x 150 mm	6,50 mm x 200 mm	14,00 mm x 200 mm
7,00 mm x 150 mm	7,00 mm x 200 mm	15,00 mm x 200 mm
8,00 mm x 150 mm	8,00 mm x 200 mm	16,00 mm x 200 mm
10,00 mm x 150 mm	10,00 mm x 200 mm	

alpen
drills for professionals



803111	ALPEN Twist Drill Set KM 19 HSS Sprint 1-10.0 x 0.5 mm
804001	ALPEN Twist Drill Set KM 21 HSS Sprint 1- 8.5 x 0.5 mm/ 9-13 x 1 mm
803211	ALPEN Twist Drill Set KM 25 HSS Sprint 1-13.0 x 0.5 mm
803511	ALPEN Twist Drill Set KM 50 HSS Sprint 1- 5.9 x 0.1 mm
806311	ALPEN Twist Drill Set KZ 29 HSS Sprint 1/16-1/2 x 1/64"



DIN 338 / DIN 340



DIN 345



DIN 8037



DIN 8041

HUNTER precision HSS carbide-tipped twist drills are produced to H 8 tolerance, to machine very precise holes in hard, difficult and abrasive materials, they are accurately ground to produce a double facet drill point, which ensures self-centering and eliminates the need for drill bushes.

Cylindrical shanks from 2 mm to 20 mm diam. (flute / overall length acc. to DIN 338 - long series acc. DIN 340 - stub length to DIN 8037)

Morse taper shanks from diam. 10 to 40 mm diam. (flute / overall length acc. to DIN 345 - stub length to DIN 8041)

Please specify your demand



Twist drills DIN 345 type N HSS milled

Point cut: helical point
with split point DIN 1412 A
Point angle: 118°
Helix angle: 20-30°
Ø tolerance: h8
Surface: bright / ground
Cutting direction: right-hand cutting

Highly efficient standard drill with

morse taper usable for all drilling work
in normal materials. High security
against fracture.

Applications: for steel and cast-steel
alloyed and unalloyed up to approx.
900 N/mm² strength, grey cast,
malleable cast iron, die-cast metal, iron
sinter, nickel-silver, graphite cast iron,
short-chipping aluminium alloys,
bronze and brass.



VARIOUS DRILL SETS ARE AVAILABLE
in metal boxes / plastic boxes



Colour of the boxes might differ from the a/m pictures

Please specify your demand



GLASS DRILLS

3 - 4 - 5 - 6 - 8 - 10 - 12 mm



PACKING EXAMPLES ONLY
SCREW EXTRACTORS, CV steel
loose and in sets No. 1-5 / No. 1-6 / No. 1-8



DRILL BITS WITH SDS SHANK

SDS-plus Rotary Hammer Drill Bit

For rotary hammers with SDS-plus or 2-slot bit reception.

For use in concrete, masonry and natural stone.

The slender chisel-shaped drill bit head enables the bit to penetrate rapidly into the hardest materials

Dust and debris are removed quickly via the short, straight reliefs and carried away by the asymmetrical double flute.

A linear core reinforcement improves stability allowing unequalled power transmission from the rotary hammer to the bit tip.

Narrow lands reduce friction and vibration, relieving the strain on the user and the power tool.

State-of-the-art heat treatment and shot-peening surface compression techniques guarantee a wear-resistant surface and make the drill bit resistant to bending stress.

Constantly updated hardening and brazing techniques ensure a consistently high-quality construction and superior life.

Our cleaning and surface treatment systems comply with the strictest environmental criteria and are extremely environment-friendly.

When using drill bits longer than 450 mm, it is necessary to predrill to a depth of at least 150 mm.



SDS-PLUS

Rotary Hammer Drill Bit 4 PLUS

On-the-job tests under extreme conditions have proven that the intelligent design of the new rotary hammer drill Bit 4 PLUS sets new standards in terms of efficiency and performance.

Already after a short period of time this new product has proven itself millions of times over and has redefined the requirements of a professional rotary hammer drill bit.

Additionally, these new standards in drilling speed

and life expectancy substantially reduce the drilling cost per hole

For rotary hammers with SDS-plus or 2-slot bit reception.

For use in concrete, masonry and natural stone.

The convincing features of the rotary hammer drill bit 4 PLUS are immediately recognized and continuously followed-up later by orders

With its spacious KVS-flute and the unique and aggressive carbide tip design the rotary hammer drill bit 4 PLUS sets new standards.

Modern thermal treatment and a special surface finish reduce the wear of the bit and improve its resistance against bending forces.

Continual research in brazing and heat-treating methods ensure safe brazing seams with maximum adhesion.

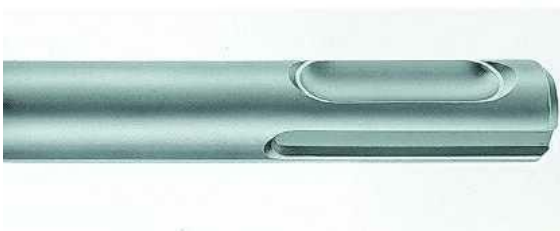
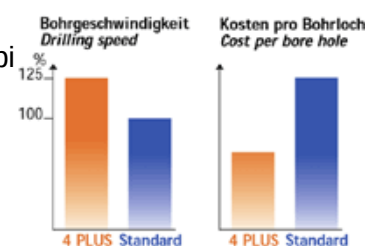
Our cleaning and rust protection processes meet strict environmental criteria and are friendly to the environment.

Suitable for rotary hammers of the 2 to 4 kg range.

When using drill bits longer than 450 mm it is recommended to predrill to a depth of at least 150 mm.



4 PLUS



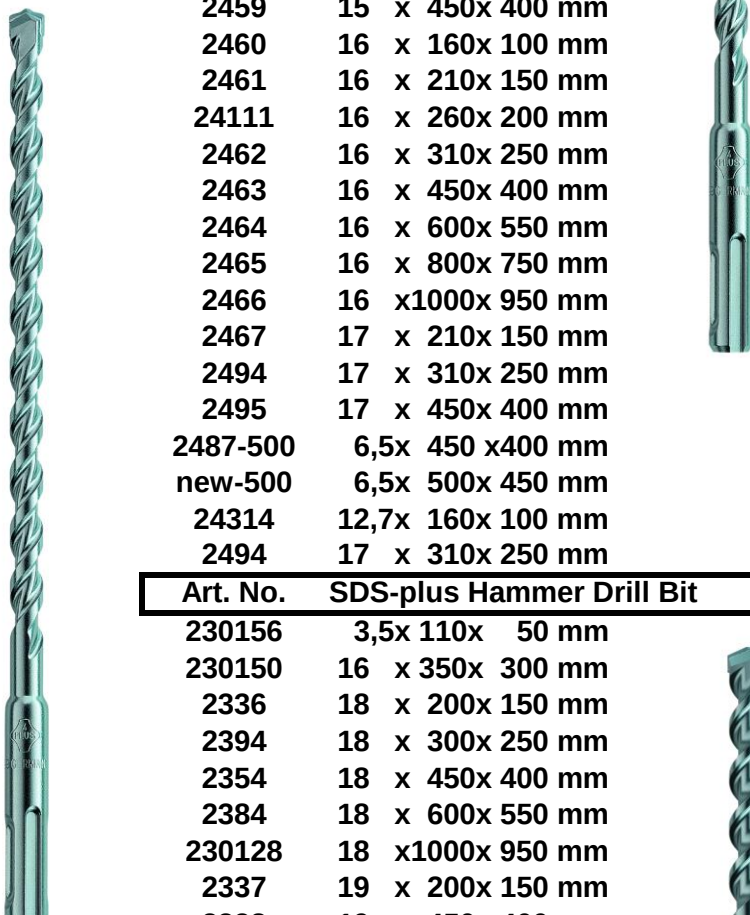
SDS-plus shank



SDS-max shank

HERMANN JAEGER GMBH - HAMBURG / GERMANY

DRILL BITS WITH SDS SHANK			
Art. No.	4 PLUS SDS Hammer Drill Bit	Art. No.	4 PLUS SDS Hammer Drill Bit
2400	4 x 110x 50 mm	2440	12 x 210x 150 mm
2499	4 x 160x 100 mm	2441	12 x 260x 200 mm
2401	5 x 110x 50 mm	2442	12 x 310x 250 mm
2402	5 x 140x 80 mm	2484	12 x 360x 300 mm
2403	5 x 160x 100 mm	2443	12 x 450x 400 mm
2404	5 x 210x 150 mm	2444	12 x 600x 550 mm
2475	5 x 310x 250 mm	2445	12 x1000x 950 mm
2405	5,5x 110x 50 mm	24314	12,7x 160x 100 mm
2406	5,5x 160x 100 mm	2446	13 x 160x 100 mm
2476	5,5x 210x 150 mm	2485	13 x 210x 150 mm
2477	5,5x 260x 200 mm	2447	13 x 260x 200 mm
2472	5,5x 310x 250 mm	2448	13 x 310x 250 mm
2407	6 x 110x 50 mm	2449	14 x 160x 100 mm
2408	6 x 160x 100 mm	2450	14 x 210x 150 mm
2409	6 x 210x 150 mm	2451	14 x 260x 200 mm
2410	6 x 260x 200 mm	2452	14 x 310x 250 mm
2474	6 x 310x 250 mm	2453	14 x 450x 400 mm
24014	6 x 460x 400 mm	2454	14 x 600x 550 mm
2411	6,5x 110x 50 mm	2455	14 x1000x 950 mm
2412	6,5x 160x 100 mm	2456	15 x 160x 100 mm
2478	6,5x 210x 150 mm	2457	15 x 210x 150 mm
2413	6,5x 260x 200 mm	2458	15 x 260x 200 mm
2479	6,5x 310x 250 mm	2459	15 x 450x 400 mm
2415	7 x 110x 50 mm	2460	16 x 160x 100 mm
2416	7 x 160x 100 mm	2461	16 x 210x 150 mm
2417	7 x 210x 150 mm	24111	16 x 260x 200 mm
2488	7 x 250x 200 mm	2462	16 x 310x 250 mm
2418	8 x 110x 50 mm	2463	16 x 450x 400 mm
2419	8 x 160x 100 mm	2464	16 x 600x 550 mm
2420	8 x 210x 150 mm	2465	16 x 800x 750 mm
2421	8 x 260x 200 mm	2466	16 x1000x 950 mm
2480	8 x 310x 250 mm	2467	17 x 210x 150 mm
2422	8 x 400x 350 mm	2494	17 x 310x 250 mm
2423	8 x 460x 400 mm	2495	17 x 450x 400 mm
2424	8 x 600x 550 mm	2487-500	6,5x 450 x400 mm
2425	9 x 160x 100 mm	new-500	6,5x 500x 450 mm
2426	9 x 210x 150 mm	24314	12,7x 160x 100 mm
2481	9,5x 160x 100 mm	2494	17 x 310x 250 mm
2427	10 x 110x 50 mm		
2428	10 x 160x 100 mm		
2429	10 x 210x 150 mm		
2430	10 x 260x 200 mm		
2431	10 x 310x 250 mm		
2432	10 x 350x 300 mm		
2433	10 x 450x 400 mm		
2434	10 x 600x 550 mm		
2435	10 x 800x 750 mm		
2436	10 x1000x 950 mm		
2437	11 x 160x 100 mm		
2482	11 x 210x 150 mm		
2438	11 x 260x 200 mm		
2483	11 x 310x 250 mm		
2439	12 x 160x 100 mm		

Art. No.	SDS-plus Hammer Drill Bit
230156	3,5x 110x 50 mm
230150	16 x 350x 300 mm
2336	18 x 200x 150 mm
2394	18 x 300x 250 mm
2354	18 x 450x 400 mm
2384	18 x 600x 550 mm
230128	18 x1000x 950 mm
2337	19 x 200x 150 mm
2338	19 x 450x 400 mm
2339	20 x 200x 150 mm
2355	20 x 300x 250 mm
2340	20 x 450x 400 mm
2371	20 x 600x 550 mm
230102	20 x1000x 950 mm

HERMANN JAEGER GMBH - HAMBURG / GERMANY

DRILL BITS WITH SDS SHANK

Art. No. SDS-plus Hammer Drill Bit		Art. No. Zentro 4- Cutter SDS-max Drill Bit	
2341	22 x 250x 200 mm	4917	28x 670x 550 mm
2342	22 x 450x 400 mm	4951	28x 920x 800 mm
230140	22 x 600x 550 mm	4963	28x1320x1200 mm
230144	22 x1000x 950 mm	4918	30x 370x 250 mm
2343	23 x 250x 200 mm	4919	30x 570x 450 mm
2344	23 x 450x 400 mm	4920	32x 370x 250 mm
2345	24 x 250x 200 mm	4921	32x 570x 450 mm
2346	24 x 450x 400 mm	4922	32x 920x 800 mm
2347	25 x 250x 200 mm	4940	32x1320x1200 mm
2348	25 x 450x 400 mm	4923	35x 370x 250 mm
230103	25 x 600x 550 mm	4924	35x 570x 450 mm
230153	25 x1000x 950 mm	4925	35x 670x 550 mm
2349	26 x 250x 200 mm	4965	35x 920x 800 mm
2350	26 x 450x 400 mm	4945	35x1320x1200 mm
2369	19 x 300x 250 mm	4960	37x 370x 250 mm
23722	22 x 350x 300 mm	4946	37x 570x 450 mm
230138	25 x 300x 250 mm	4958	37x 920x 800 mm
Art. No. Zentro 2- Cutter SDS-max Drill Bit		Art. No. Zentro 4- Cutter SDS-max Drill Bit	
3900	12x 340x 200 mm	4926	38x 370x 250 mm
3901	12x 540x 400 mm	4927	38x 570x 450 mm
3902	12x 690x 550 mm	4928	40x 370x 250 mm
3903	14x 340x 200 mm	4929	40x 570x 450 mm
3904	14x 540x 400 mm	4930	40x 920x 800 mm
3905	15x 340x 200 mm	4941	40x1320x1200 mm
3906	15x 540x 400 mm	4931	45x 570x 450 mm
		4933	45x 920x 800 mm
Art. No. Zentro 4- Cutter SDS-max Drill Bit		Art. No. Zentro 4- Cutter SDS-plus Drill Bit	
3908	13x 340x 200 mm	4300	16x 250x 200 mm
4900	16x 340x 200 mm	4301	16x 450x 400 mm
4901	16x 540x 400 mm	4313	18x 250x 200 mm
4936	16x 920x 800 mm	4303	18x 450x 400 mm
4961	16x1320x1200 mm	4304	20x 250x 200 mm
4902	18x 340x 200 mm	4306	20x 450x 400 mm
4903	18x 540x 400 mm	4320	22x 250x 200 mm
4937	18x 920x 800 mm	4307	22x 450x 400 mm
4953	18x1320x1200 mm	4308	24x 250x 200 mm
4904	20x 320x 200 mm	4309	24x 450x 400 mm
4905	20x 520x 400 mm	4321	25x 250x 200 mm
4906	20x 920x 800 mm	4310	25x 450x 400 mm
4957	20x1320x1200 mm	4319	28x 250x 200 mm
4907	22x 320x 200 mm	4311	28x 450x 400 mm
4908	22x 520x 400 mm	4323	30x 250x 200 mm
4909	22x 920x 800 mm	4312	30x 450x 400 mm
4952	22x1320x1200 mm	4318	32x 450x 400 mm
4910	24x 320x 200 mm		
4911	24x 520x 400 mm		
4912	25x 320x 200 mm		
4913	25x 520x 400 mm		
4914	25x 920x 800 mm		
4939	25x1320x1200 mm		
4934	26x 520x 400 mm		
4915	28x 370x 250 mm		
4916	28x 570x 450 mm		

ZENTRO®



4-Cutter



2-Cutter



Art. No. Perdur Concrete Bit

41901	Perdur Concrete Drill Bit	3	x	70x	40 mm
41902	Perdur Concrete Drill Bit	4	x	85x	50 mm
41903	Perdur Concrete Drill Bit	5	x	85x	50 mm
41904	Perdur Concrete Drill Bit	5	x	150x	90 mm
41905	Perdur Concrete Drill Bit	5,5x		85x	50 mm
41906	Perdur Concrete Drill Bit	5,5x		150x	90 mm
41907	Perdur Concrete Drill Bit	6	x	100x	60 mm
41908	Perdur Concrete Drill Bit	6	x	150x	90 mm
41931	Perdur Concrete Drill Bit	6	x	200x	150 mm
41909	Perdur Concrete Drill Bit	6,5x		100x	60 mm
41910	Perdur Concrete Drill Bit	6,5x		150x	90 mm
41911	Perdur Concrete Drill Bit	7	x	100x	60 mm
41912	Perdur Concrete Drill Bit	7	x	150x	90 mm
41913	Perdur Concrete Drill Bit	8	x	120x	80 mm
41914	Perdur Concrete Drill Bit	8	x	200x	150 mm
41915	Perdur Concrete Drill Bit	9	x	120x	80 mm
41916	Perdur Concrete Drill Bit	10	x	120x	80 mm
41917	Perdur Concrete Drill Bit	10	x	200x	150 mm
41918	Perdur Concrete Drill Bit	11	x	150x	90 mm
41919	Perdur Concrete Drill Bit	12	x	150x	90 mm
41920	Perdur Concrete Drill Bit	12	x	200x	150 mm
41927	Perdur Concrete Drill Bit	12	x	400x	350 mm
41921	Perdur Concrete Drill Bit	13	x	150x	90 mm
41922	Perdur Concrete Drill Bit	14	x	150x	90 mm
41930	Perdur Concrete Drill Bit	14	x	200x	150 mm
41928	Perdur Concrete Drill Bit	14	x	400x	350 mm
41923	Perdur Concrete Drill Bit	15	x	160x	100 mm
41924	Perdur Concrete Drill Bit	16	x	160x	100 mm
41929	Perdur Concrete Drill Bit	16	x	400x	350 mm
41925	Perdur Concrete Drill Bit	18	x	160x	100 mm
41926	Perdur Concrete Drill Bit	20	x	160x	100 mm



5301	SDS-max Pointed Chisel	280 mm
5302	SDS-max Pointed Chisel	400 mm
5303	SDS-max Pointed Chisel	600 mm
5304	SDS-max Flat Chisel	25x280 mm
5305	SDS-max Flat Chisel	25x400 mm
5306	SDS-max Flat Chisel	25x600 mm
5307	SDS-max Spade Chisel	50x400 mm
5308	SDS-max Spade Chisel	80x300 mm
5309	SDS-max Spade Chisel	115x350 mm

8300	Glass Drill Bit	3x	89 mm
8302	Glass Drill Bit	4x	90 mm
8304	Glass Drill Bit	5x	91 mm
8305	Glass Drill Bit	6x	92 mm
8307	Glass Drill Bit	8x	95 mm
8309	Glass Drill Bit	10x	98 mm
8310	Glass Drill Bit	12x	101 mm

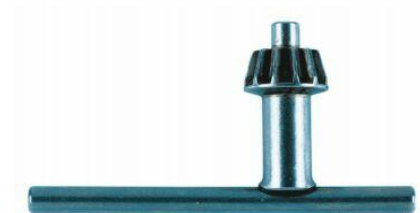




2908-01	Drill Chuck type 116 3/8x24 8 l female c/w key
2910-51	Drill Chuck type 116 3/8x24 10 l female c/w key
2910-52	Drill Chuck type 116 1/2x20 10 l female c/w key
2913-51	Drill Chuck type 116 3/8x24 13 l female c/w key
2913-52	Drill Chuck type 116 1/2x20 13 l female c/w key
2916-03	Drill Chuck type 116 5/8x16 16 l female c/w key



2854-00/S1	Chuck Key S 1 opening 8	bulk packed
2858-00/S2	Chuck Key S 2 opening 10/13	bulk packed
2863-00/S3	Chuck Key S 3 opening 16	bulk packed
2836-00/S14	Jacobs Gear Chuck Key S 14 KG opening 6/8/10	bulk packed
2738-00/S8	Jacobs Gear Chuck Key S 8 K 30 opening 13	bulk packed



LFA DRILL CHUCKS (KEY TYPE)

Class L (light) :

For any portable corded or cordless drill, with or without percussion

Capacity : 8 mm, 10 mm, 13 mm

Available threaded mountings : 5/16 - 24, 3/8 - 24, 1/2 - 20, 3/8 - 24 ext

Available tapered mountings : J1, J2, J6, B12, B16

With or without any through hole



Class M (medium) :

For any professional portable corded drill, with or without percussion and fixed drill

Capacity : 8 mm, 10 mm, 13 mm, 16 mm

Available threaded mountings : 3/8 - 24, 1/2 - 20, 5/8 - 16, 14 - 200, 18 - 250

Available tapered mountings : B10, B12, B16, B18, J1, J2, J6, J33

With or without any through hole.



Class H (high) :

For any fixed drill

Capacity : 4mm, 6,5 mm, 8 mm, 10 mm, 13 mm, 16 mm, 20 mm, 26 mm

Available tapered mountings : B10, B12, B16, B18, B22, B24, J0, J1, J2, J4, J6, J33

With or without any through hole.



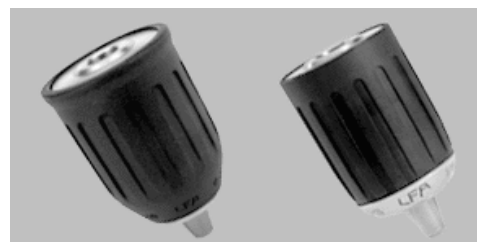
LFA DRILL CHUCKS (KEYLESS TYPE)

Class L (light) :

For any portable corded or cordless drill, with or without percussion



Double sleeve



Single Sleeve

Capacity : 10 mm, 13 mm (with or without locking system)

plastic sleeves

Available threaded mountings : 3/8 - 24, 1/2 - 20

Available tapered mountings : J2, B12, B16

With or without any through hole.

WARNING : A single sleeve keyless chuck is suitable for cordless or corded drills with spindle lock only.

LFA DRILL CHUCKS (KEYLESS TYPE)

Class M (medium) :

For any professional corded portable drill, with or without percussion

Capacity : 13 mm (with locking system)

metal sleeves

Available threaded mountings : 3/8 - 24, 1/2 - 20

Available tapered mountings : B12, B16

With or without any through hole.



NOTE : Our LFA 13 mm keyless chucks are available with or without locking system. The ratchet locking system (patented) is suitable for the impact drills because it's in charge of preventing the keyless chuck from opening in case of impact action use.

LFA SELF-TIGHTENING DRILL CHUCKS (KEYLESS TYPE)

Class M (medium) :

For any corded or fixed drill, without percussion.

Capacity : 6,5 mm, 8 mm, 10 mm, 13 mm, 16 mm

metal sleeve

Available threaded mountings : 3/8 - 24, 1/2 - 20, 5/8 - 16

Available tapered mountings : J1, J2, J3, J6, J33, B10, B12, B16, B18



Class H (high) :

For any fixed drill or machine tool.

Capacity : 8 mm, 10 mm, 13 mm, 16 mm

metal sleeve

Available tapered mountings : J1, J2, J6, J33, B10, B12, B16,



ACCESSORIES



Drill Chuck Keys



hex. adapter



SDS-Adapter

ACCESSORIES

Arbors : For fixed drills:
with morse tapers
with straight shanks
with R8 tapers

For CNC machine tools :
with ISO cones

morse taper



LFA

Reduction sleeves:

For fixed drills:
with morse tapers

morse taper



Extensions:

with morse tapers



Drifts :



CNC CHUCKS

capacity : 13 mm

Tool holders according to ISO 7388.1 and DIN 69871 A/B/AI
CAT 40, ANSI B5 - 50 or MAS 403 BT standards



LFA

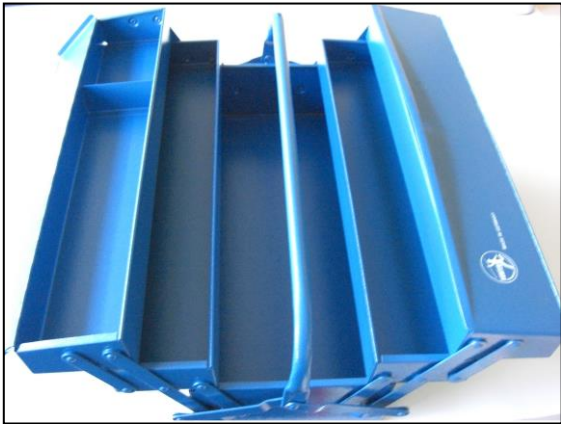
capacity : 13 mm

Tool holders according to SO 7388.1 and DIN 69871-A or MAS 403 BT





Art. No.	Description
450889	HUNTER Tool Box size 530 x 200 x 200 mm, blue, made of 0,75 mm steel sheet, 5 compartments, weight 6,69 kg (other types on request)



VERIBOR SUCTION LIFTERS

Universal suction lifters for handling all kind of loads. Makes working with unwieldy parts quicker and more effective.

Suitable for all materials with smooth, flat, airtight surfaces such as glass, plastic, metal, coated wood, marble, etc.

The vacuum is produced by pressing the lever down. With the rubber pads relaxed, the suction lifter must be firmly pressed onto the surface. When pressing the lever down, you should noticeably feel the resistance by the vacuum.

602.0 VERIBOR suction lifter, 2 cups, aluminium

Diameter of suction disc abt. 120 mm
Lifting capacity/- direction abt. 90 kgs.

602.0



Bohle
VERIBOR

602.4 VERIBOR suction lifter, 2 cups, aluminium

Diameter of suction disc abt. 120 mm
Lifting capacity/- direction abt. 80 kgs.

602.4



Bohle
VERIBOR

603.0 VERIBOR suction lifter, 3 cups, aluminium

Diameter of suction disc abt. 120 mm
Lifting capacity/- direction abt. 140 kgs.

603.0



HERMANN JAEGER GMBH - HAMBURG / GERMANY

VERIBOR SUCTION LIFTERS

Universal suction lifters for handling all kind of loads. Makes working with unwieldy parts quicker and more effective.

Suitable for all materials with smooth, flat, airtight surfaces such as glass, plastic, metal, coated wood, marble, etc.

The vacuum is produced by gripping the two-part handle together. With the rubber pads relaxed, the suction lifter must be firmly pressed onto the surface. When pressing the lever down, you should noticeably feel the resistance by the vacuum.

Special feature:

The handle allows one-handed operation and thus quick, efficient work

600.0 VERIBOR suction lifter, single cup, aluminium

Diameter of suction disc abt. 120 mm

Lifting capacity/- direction abt. 40 kgs.



600.0



SILBERSCHNITT GLASS CUTTERS

SILBERSCHNITT Glass Cutter with 6 cutting wheels made from alloyed stainless steel and tempered by a patented method guarantee high cutting quality and long service life.

Turrets and cutting heads are nickel plated. An oil-soaked felt ring supplies lubrication for wheels and axle.

The handle is produced exclusively from ecologically controlled and approved kinds of wood.

The SILBERSCHNITT glass cutters are particularly economical because wheels and turrets are replaceable.

This cutter is suitable for general cutting requirements of glass with a thickness of 3 to 10 mm.

Straight edge stand-off distance 2,5 mm

No. 100.0



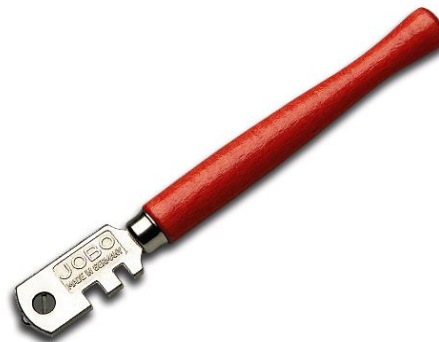
No. 110.0 (heavy duty model)



No. 360 - JOKRA Glass Cutter



No. 320 - JOBO Glass Cutter



No. 400 - SILBERSCHNITT Carbide Glass Cutter

Silberschnitt



No. 410 - SILBERSCHNITT Carbide Glass + Tile Cutter

Silberschnitt



SILBERSCHNITT Oil Glass Cutters Series 2000

Silberschnitt
2000



Wheel Holders for Series 2000

Silberschnitt



SILBERSCHNITT CIRCLE CUTTERS

SILBERSCHNITT Circle Cutters
with 6 steel wheels on a Turret
wheels + turrets are replaceable
Cutting range from 40 to 200 cm diameter

Art. No.	Cutting range (Diameter)
510.0	up to 40 cm
510.1	up to 17"
511.0	up to 60 cm
511.1	up to 24" (60 cm)
513.0	up to 100 cm
513.1	up to 40" (100 cm)
514.0	up to 120 cm
514.1	up to 48" (120 cm)
515.0	up to 160 cm
515.1	up to 64" (160 cm)
516.0	up to 200 cm
516.1	up to 80" (200 cm)



Silberschnitt

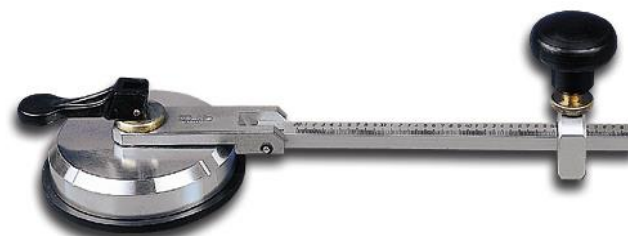
SILBERSCHNITT Circle Cutters for diam. up to 60 cm with 6 steel wheels on a Turret
simple execution, with rubber suction pad,
cutting head made of plastic,
smallest possible diameter 50 mm



Silberschnitt

SILBERSCHNITT Circle Cutters for thick glass
high level of operational safety due to heavy-duty
construction. The ball handle above the wheel
holder ensures the even transmission of the
required cutting pressure for thick glass
of 10 - 25 mm

Art. No.	Cutting range (Diameter)
521.0	up to 120 cm
521.1	up to 180 cm



Professional and industrial painter's rollers
50 mm diameter roller body, seamless,
with 8 mm frame

Cover: **Golden Stripes (Grilon)**

Polyamid woven base - top quality for painters
20 mm pile height - good paint-holding capacity and dispersion
Suitable for indoor and outdoor work

Size	Article No. complete	Article No. roller refill	Article No. spare frame
18 cm	235018	235518	905018 red 905118 blue
25 cm	235025	235525	905025-red 905125-blue

**235025 /
2021**



Cover: **LP-white**

Synthex woven base
20 mm pile height - good paint-holding capacity and dispersion
Suitable for indoor and outdoor work

Size	Article No. complete	Article No. roller refill	Article No. spare frame
18 cm	204018	204518	905018 red 905118 blue
25 cm	204025	204525	905025-red 905125-blue

**204025 /
2115**



Household rollers - frame 6 mm - not exchangeable

Cover: **Vestan-white**

Polyester knitted base
20 mm pile height - extra fluffy -
suitable for all wall and ceiling paints

Size	Article No.
14 cm	100214
18 cm	100218
23 cm	100223
25 cm	100225

**100218 /
1001**



Household rollers - frame 6 mm - not exchangeable

Cover: **Vestan-yellow**

Polyester knitted base
22 mm pile height - extra fluffy and absorbant-
suitable for all wall and ceiling paints

Size	Article No.
14 cm	102214
18 cm	102218
23 cm	102223
25 cm	102225

**101218 /
1006L**



HERMANN JAEGER GMBH - HAMBURG / GERMANY

PAINT-, RADIATOR ROLLERS & -REFILLS

Radiator and varnishing rollers
with 6 mm frame

Cover: **Perlon white** roller body diameter 15 mm
woven base roller sleeve, 12 mm pile height

Size	Article No. complete	Article No. roller refill	Article No. spare frame
10 cm	501251 frame 27 cm	501210	903027-red 903127-blue
10 cm	501271 frame 41 cm	501210	903041-red 903141-blue
10 cm	501280 frame 60 cm	501210	903060-red 903160-blue
10 cm	roller refill in PVC-box	501211	



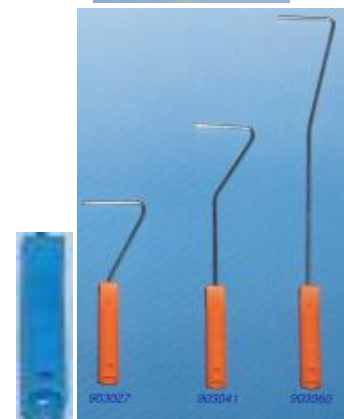
501271 /
5000



Cover: **Yellow stripe** roller body diameter 15 mm
Polyamid woven base 12 mm pile height

Size	Article No. complete	Article No. roller refill	Article No. spare frame
10 cm	504251 frame 27 cm	504210	903027-red 903127-blue
10 cm	504271 frame 41 cm	504210	903041-red 903141-blue
10 cm	504280 frame 60 cm	504210	903060-red 903160-blue
10 cm	roller refill in PVC-box	504211	

903027
903041
903060



blue hdl.

Cover: **Moltoprene fine** roller body diameter 15 mm
Polyester foam material 12 mm pile height

Size	Article No. complete	Article No. roller refill	Article No. spare frame
10 cm straight	530251 frame 27 cm	530210	903027-red 903127-blue
10 cm straight	530271 frame 41 cm	530210	903041-red 903141-blue
10 cm outside round	531251 frame 27 cm	531210	903027-red 903127-blue
10 cm outside round	531271 frame 41 cm	531210	903041-red 903141-blue

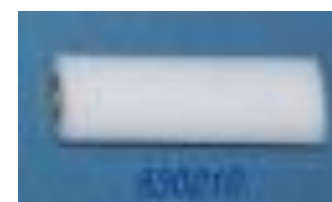
501210 /
5100



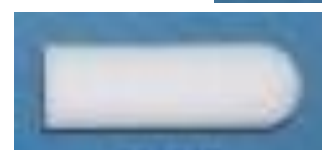
504210 /
5166

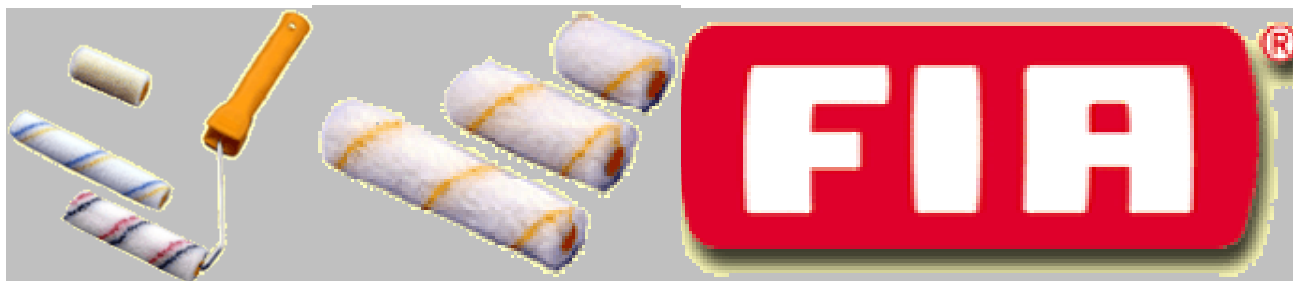


530210 /
5110



531210 /
5113





50034161	R. Roller-white Perltext , glued, 10 cm-4" compl. w. 42 cm frame, PU100
50034181-001-19	R. Roller-white Perltext , glued, 10 cm-4" compl. w. 66 cm frame, PU100
50034100-001	R. Roller Refill-white Perltext , 10 cm-4", p. 10 in PVC-box, PU840
50034100-537-13	R. Roller Refill-white Perltext , 10 cm-4", bulk, PU500
50013161	R. Roller-white Perltext , yellow strip, glued, 10 cm-4", compl. W. 42 cm frame,
50013181-001-19	R. Roller-white Perltext , yellow strip, glued, 10 cm-4", compl. W. 66 cm frame,
50013100-001	R. Roller Refill-white Perltext , yellow strip, glued, 10 cm-4", p. 10 in PVC-box,
50013100-001-01	R. Roller Refill-white Perltext , yellow strip, glued, 10 cm-4", p. 10 in PVC-box,

PAINT TOOLS

		Art. No.		Description
		10407524-131A	4"	HUNTER Radiator Roller Refill, yellow stripe, acrylic, 12 mm pile, 10 pcs./box, yellow cap, IMPROVED QUALITY
		10416514-131	4"	HUNTER Radiator Roller Refill, red stripe acrylic 11 mm pile, 10 pcs./box, PU 500
		10424314-131	4"	HUNTER Radiator Roller Refill, yellow with green stripe, polyamide, 11 mm pile, 10 pcs./box, yellow cap
		104999F4-131	4"	HUNTER Radiator Foam Roller Refill, white, both sides straight, medium quality, 10 pcs./box, black cap
		102999F9-131	2"	HUNTER Radiator Foam Roller Refill, white, both sides straight, medium quality, 20 pcs./box, black cap
		10207519-131	2"	HUNTER Mini Roller Refill, yellow stripe, acrylic, 11 mm pile, 20 pcs./box, yellow cap

HERMANN JAEGER GMBH - HAMBURG / GERMANY

PAINT TOOLS

Art. No.	Description
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10250459-131	2" HUNTER Mini Roller Refill, 100% wool, 5mm pile, 50 x 15 mm D6, PU 20 pcs./PVC-box
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33707181-131	7" HUNTER Paint Roller Refill, yellow strip acrylic 18 mm pile, 180mm x 48 mm D8, blue cap
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57703971-131 7" HUNTER Cage Roller Refill, green
stripe, polyamide, 17 mm pile



11618181-131	6" HUNTER Paint Roller Refill, dark green, polyamide, 18 mm pile, 150mm x 30 mm D6, white cap
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11607321-131	6" HUNTER Paint Roller Refill, yellow stripe, polyamide, 12 mm pile, 150mm x 30 mm D6, white cap
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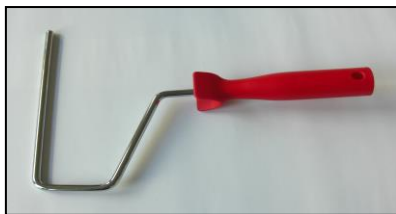
PROFESSIONAL PAINT TOOLS
ECO-Line

PAINT TOOLS

Art. No.	Description
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11624381-131	6" HUNTER Paint Roller Refill, yellow with green stripe, polyamide, 18 mm pile, 150mm x 30 mm D6, white cap
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6151766C-131	7" HUNTER Red Paint Roller Frame D8, zinc coated, standard handle
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6101470C-131	4" HUNTER Red Radiator Roller Frame 16" medium, D6, zinc coated, standard handle
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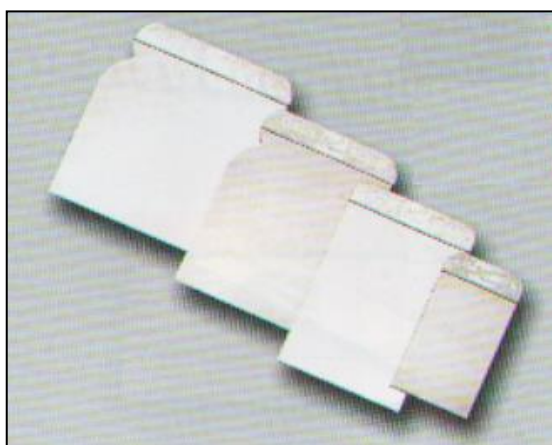


6101490C-131	4" HUNTER Red Radiator Roller Frame 24" long, D6, zinc coated, standard handle
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PROFESSIONAL PAINT TOOLS
ECO-Line

SCRAPERS



PAJARITO
WERKZEUGE



- 65S/3000 Pajarito Scraper Set w. Alu-grip, ea. 4 pcs. 50-80-105-120 mm, boxed p. 25 set
 65S/5000 Pajarito Scraper Set w. Alu-grip, ea. 4 pcs. 50-80-105-120 mm, boxed p. 25 set



HUNTER



No. 30

- | | | |
|------------|---------------|--------|
| 30-200-020 | Paint Scraper | 20 mm |
| 30-200-030 | Paint Scraper | 30 mm |
| 30-200-040 | Paint Scraper | 40 mm |
| 30-200-050 | Paint Scraper | 50 mm |
| 30-200-060 | Paint Scraper | 60 mm |
| 30-200-070 | Paint Scraper | 70 mm |
| 30-200-080 | Paint Scraper | 80 mm |
| 30-200-090 | Paint Scraper | 90 mm |
| 30-200-100 | Paint Scraper | 100 mm |
| 30-200-120 | Paint Scraper | 120 mm |
| 30-200-140 | Paint Scraper | 140 mm |

JAPANESE SCRAPERS



- | | |
|---------|--|
| 310050 | 50 mm Japanese Scraper packed p. 10 pcs. in polybag |
| 310080 | 80 mm Japanese Scraper packed p. 10 pcs. in polybag |
| 3100100 | 100 mm Japanese Scraper packed p. 10 pcs. in polybag |
| 3100120 | 120 mm Japanese Scraper packed p. 10 pcs. in polybag |
| 3001000 | Japanese Scraper Set ea. 1 pc. 50-80-100-120 mm in polybag |

ADJUSTABLE FILE HOLDERS



- | | |
|---------|---|
| 2160002 | Adjustable File Holder 355 mm
without file blade |
|---------|---|

Made-to-measure abrasives

For all kinds of applications and tasks, VSM supplies the right abrasive tools: belts, discs, sheets, rolls and other abrasive tools in a wide range of dimensions:

Silicon-carbide abrasives with black grain/bonding agent layer are particularly good for grinding plastics, paints, rubber, wood products, titanium alloys and occasionally cast iron.

Aluminium oxide abrasives with red-brown grain/bonding agent layer can be generally used for grinding metal and wood.

Abrasives with a coating of **zirconia alumina** have a blue grain/bonding agent layer and are ideal for metal grinding tasks, particularly if a lot of material has to be removed.

Abrasives with a **white-grey grain**/bonding agent layer are provided with a stearate coating that prevents clogging both when grinding paints, varnishes and plastics and when working with aluminium and its alloys.

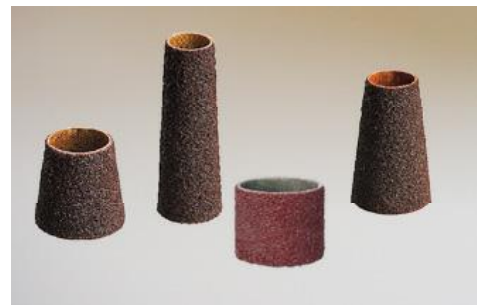
For economic **grinding of corrosion-proof steel**, VSM manufactures special abrasives with an additional layer that is active in the grinding process but also significantly reduces heat development and grain wear abrasion. The colour of the grain/bonding agent layer in these abrasives is red or blue.

VSM-antistatic-abrasives for all sanding tasks in woodworking have a black grain/bonding agent layer. Their use minimises electrostatic charging and reduces dust deposits on the sanding machine, the workpiece and on the sanding belt.

VSM compact grain abrasives are coated with granulate consisting of abrasive grit and bonding agent. The use of a multi-layer grain coating means that the product wears down layer by layer ensuring a correspondingly long service life and a constant rate of material removal and surface roughness.

VSM KF708 Aluminium Oxide (red-brown) Fibre Disc Vitex 100 x 16 mm - grit 16 - 120
VSM KF708 Aluminium Oxide (red-brown) Fibre Disc Vitex 180 x 22 mm - grit 16 - 120
Aluminium KF787 Oxide (red-brown) Fibre Disc Vitex 100 x 16 mm - grit 16 - 150
VSM SF08 Silicone Carbide (black) Fibre Disc 100 x 16 mm - grit 16 - 120 (not grit 40)

Grits: 16 - 24 - 36 - 40 - 50 - 60 - 80 - 100 - 120 - 150



ALLROUND WHEEL WIRE BRUSHES



Filling materials steelwire, brass wire, brassed steel wire, stainl. steel wire V2A

Please specify required diameter, width, bore and filling material

DEBURRING WHEEL WIRE BRUSHES



Filling materials steelwire, brass wire, brassed steel wire, stainl. steel wire V2A

Please specify required diameter, width, bore and filling material

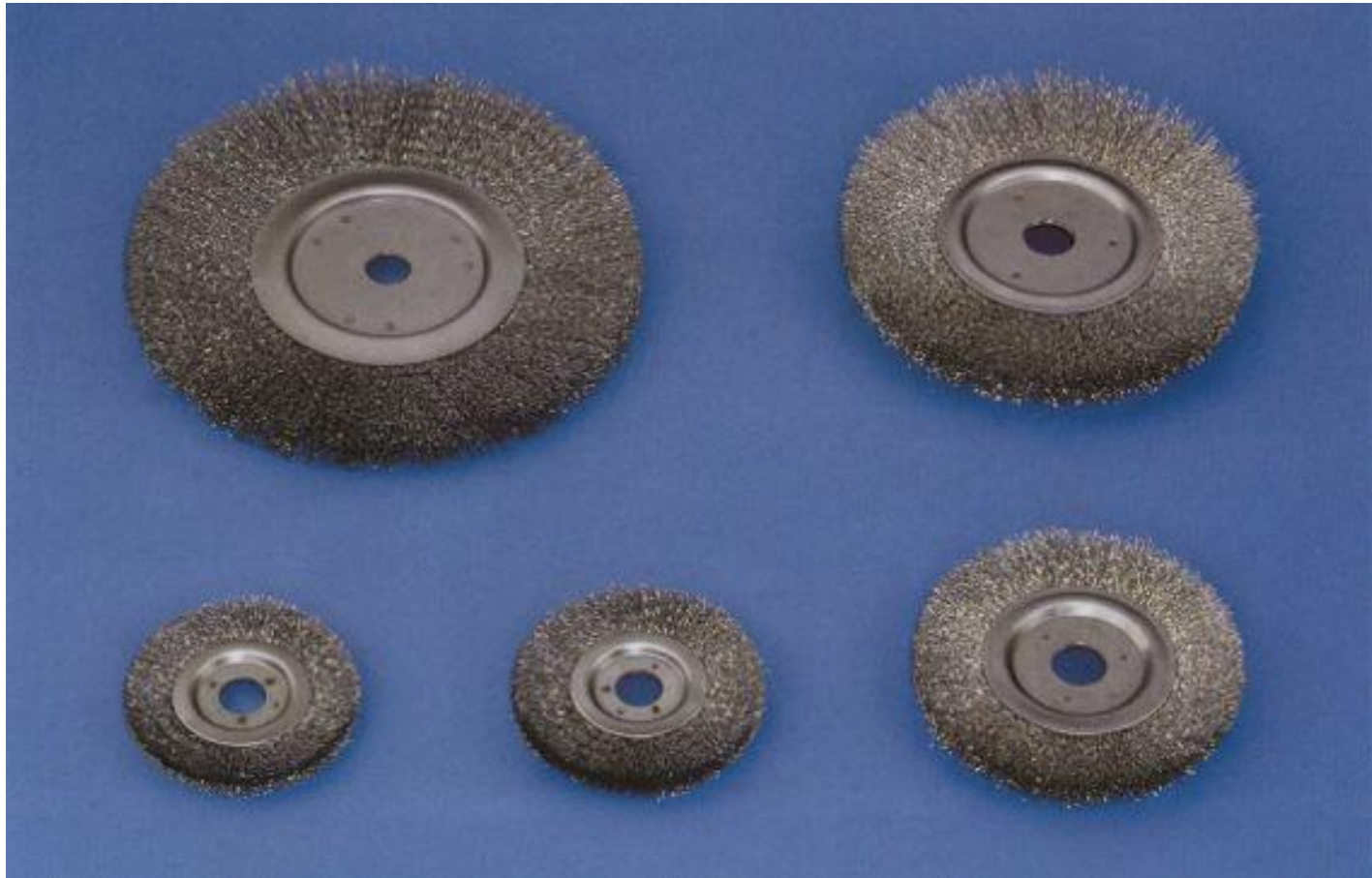
LIGHT WHEEL WIRE BRUSHES



Filling materials steelwire, brass wire, brassed steel wire, stainl. steel wire V2A

Please specify required diameter, width, bore and filling material

SINGLE WHEEL WIRE BRUSHES



Filling materials steelwire, brass wire, brassed steel wire, stainl. steel wire V2A

Please specify required diameter, width, bore and filling material

CRIMPED CUP WIRE BRUSHES



Filling materials steelwire, brass wire, brassed steel wire, stainl. steel wire V2A

Please specify required diameter,bore or thread connection, and filling material

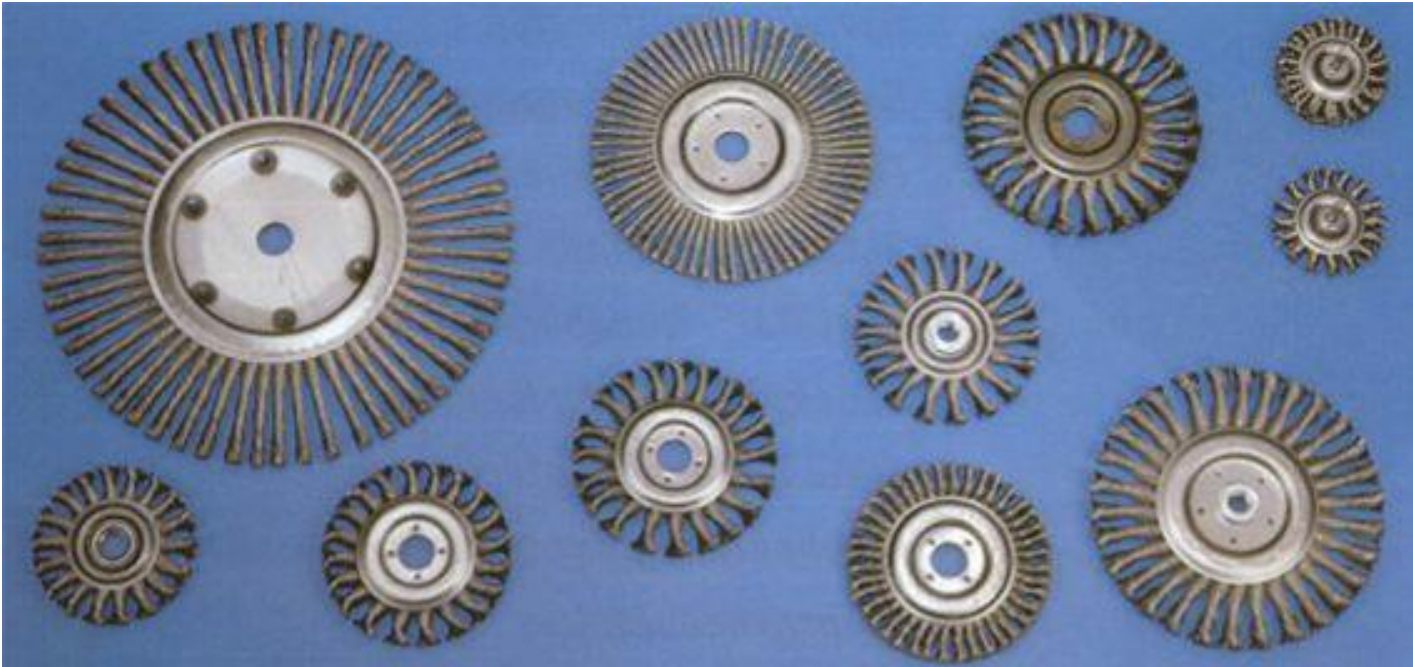
SHAFTMOUNTED MINI WIRE BRUSHES



Filling materials steelwire, brass wire, brassed steel wire, stainl. steel wire V2A

Please specify required diameter,type, and filling material

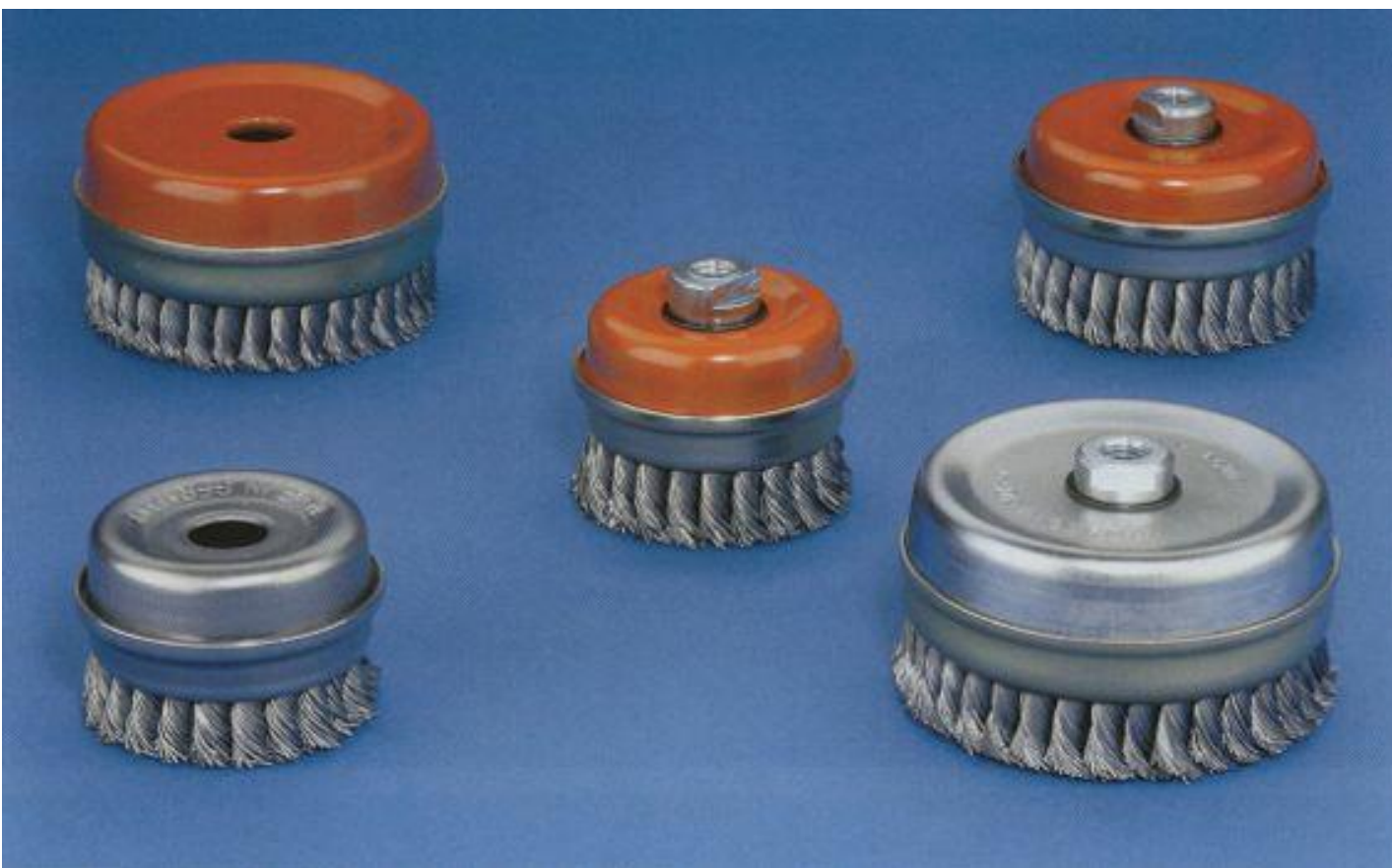
KNOTTED WHEEL WIRE BRUSHES



Filling materials steelwire, stainl. steel wire V2A

Please specify required diameter,width, bore, and filling material

KNOTTED CUP WIRE BRUSHES



Filling materials steelwire, stainl. steel wire V2A

Please specify required diameter,width, bore, and filling material

KNOTTED SURFACE (CUP) WIRE BRUSHES



Filling materials steelwire, stainl. steel wire V2A

Please specify required diameter,width, bore, and filling material

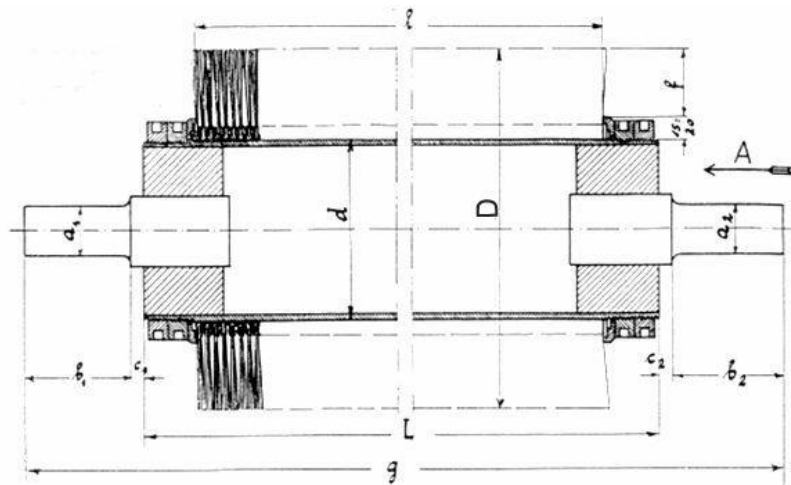
CONICAL WHEELWIRE BRUSHES



Filling materials steelwire, stainl. steel wire V2A

Please specify required diameter,width, bore / thread connection, and filling material
Also available with crimped filling material

SPECIAL WHEEL BRUSHES



Please specify your requirements

Filling materials

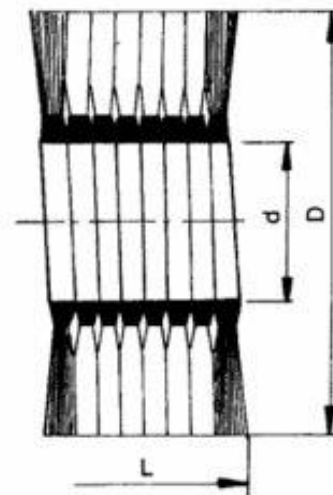
Polyamid bristles 0,20 - 2,00 mm

crimped steel wire 0,10 - 0,80 mm

crimped stainl. steel wire 0,10 - 0,80 mm

crimped brass wire 0,10 - 0,30 mm

on request also with grid bristles, fibre, natural bristles, etc.

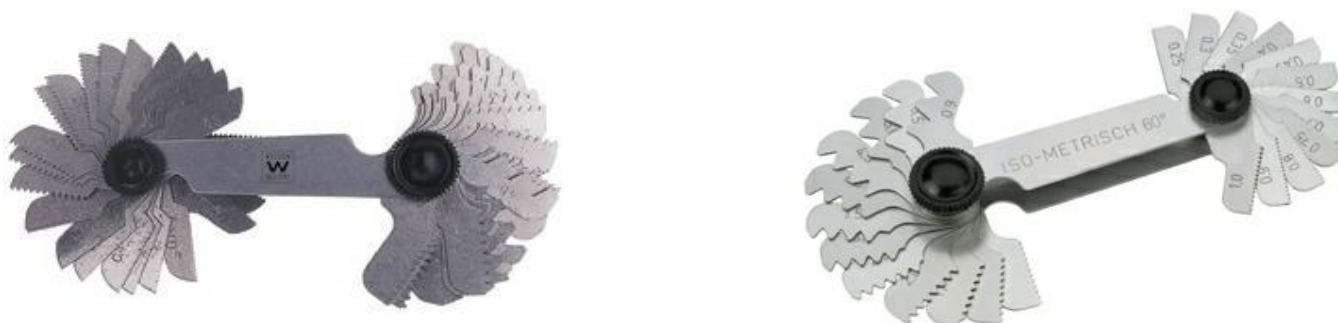


HAND SCRATCH BRUSHES / SPARK PLUG BRUSHES

Please specify the required
filling material, straight or crimped
and number of rows.



MEASURING TOOLS - SCREW PITCH GAUGES



Art.No.	Description
400-28	Screw Pitch Gauge-28 blades Whitworth 55° 1/16-2.1/2"
401-20	Screw Pitch Gauge-20 blades 60° M0.4-M7.0
402-24	Screw Pitch Gauge-24 blades 60° M0.25-M6.0
403-6	Screw Pitch Gauge-6 blades Whitworth pipe 1/8-2.1/2"
404-48	Screw Pitch Gauge-48 blades-20 M0.4-M7+28 1/16-2.1/2"
405-52	Screw Pitch Gauge-52 blades-24 60° M0.25-6+28 55° 1/16-2.1/2"
406-58	Screw Pitch Gauge-58 bl.-24 60° M0.25-6+28 55° 1/16-1/2"+6 Ww pipe 1/16-2.1/2"
407-30	Screw Pitch Gauge-30 blades American thread US pitch 4-42-60°
408-14	Screw Pitch Gauge-14 blades SAE 60° pitch 10-40
409-22	Screw Pitch Gauge-22 blades American thread US pitch 4-64-60°
410-16	Screw Pitch Gauge-16 blades American thread US pitch 12-80-60°
411-52	Screw Pitch Gauge-52 blades American thread US pitch 4-84-60°
414-24	Screw Pitch Gauge-24 blades metric-ISO 0.25-6-60°

MEASURING TOOLS - FEELER GAUGES

Please add to the Art. Number

S = with Screw

R = with Rivet

as per example given for the first two items



METRIC

100/3-8-100S	Feeler Gauge w. screw- 8 con. blades 0.05-0.50x100 mm
100/3-8-100R	Feeler Gauge w. rivet - 8 con. blades 0.05-0.50x100 mm
100/7-13-100	Feeler Gauge -13 con. blades 0.05-1.00x100 mm
100/10-20-100	Feeler Gauge -20 con. blades 0.05-1.00x100 mm
100/1-8-100	Feeler Gauge - 8 con. blades 0.03-0.10x100 mm
100/4-9-100	Feeler Gauge - 9 con. blades 0.03-0.15x100 mm
100-10-100	Feeler Gauge -10 con. blades 0.03-0.50x100 mm
100/18-10-100	Feeler Gauge -10 con. blades 0.05-0.80x100 mm
100-18-100	Feeler Gauge -18 con. blades 0.05-1.00x100 mm
100/12-21-100	Feeler Gauge -21 con. blades 0.10-0.50x100 mm
100/13-21-100	Feeler Gauge -21 con. blades 0.05-2.00x100 mm
100/15-26-100	Feeler Gauge -26 con. blades 0.03-1.00x100 mm
100/7-13-150	Feeler Gauge -13 con. blades 0.05-1.00x150 mm
100/7-13-200	Feeler Gauge -13 con. blades 0.05-1.00x200 mm
100/7-13-300	Feeler Gauge -13 con. blades 0.05-1.00x300 mm

METRIC / INCH

100/3-8-100/4"	Feeler Gauge - 8 con. blades 0.05-0.5 mm/.0020-.020"x100 mm
100/7-13-100/4"	Feeler Gauge -13 con. blades 0.05-1.00 mm/.0020-.040"x100 mm
100/10-20-100/4"	Feeler Gauge -20 con. blades 0.05-1.00 mm/.0020-.040"x100 mm
100/15-26-100/4"	Feeler Gauge -26 con. blades 0.03-1.00 mm/.0012-.040"x100 mm

MEASURING TOOLS - FEELER GAUGES

Please add to the Art. Number

S = with Screw

R = with Rivet

as per example given for the first two items



INCH

101/3-8-4"S	Feeler Gauge w. screw- 8 con. blades 2-20/1000x4"
101/3-8-4"R	Feeler Gauge w. rivet- 8 con. blades 2-20/1000x4"
101/7-13-4"	Feeler Gauge -13 con. blades 2-35/1000x4"
101/10-20-4"	Feeler Gauge -20 con. blades 2-35/1000x4"
101/14-20-4"	Feeler Gauge -20 con. blades 2-40/1000x4"
101/4-9-4"	Feeler Gauge - 9 con. blades 1.5-15/1000x4"
101/5-10-4"	Feeler Gauge -10 con. blades 1.5-25/1000x4"
101/12-22-4"	Feeler Gauge -22 con. blades 4-25/1000x4"
101/13-27-4"	Feeler Gauge -26 con. blades 1.5-25/1000x4"
101/7-13-150	Feeler Gauge -13 con. blades 2-35/1000x6"
101/7-13-200	Feeler Gauge -13 con. blades 2-35/1000x8"
101/7-13-300	Feeler Gauge -13 con. blades 2-35/1000x12"

MEASURING TOOLS - LONG NARROW PISTON FEELER ON RING

Precision Feeler Gauges, long
cylindrical blades, width 13 mm

available lengths	100 - 200 - 300 - 400 - 500 - 600 - 800 - 1000 mm
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METRIC

Art. 202/2 = 8 blades	0,05 - 0,50 mm
Art. 202/4 = 13 blades	0,05 - 1,00 mm
Art. 202/6 = 20 blades	0,05 - 1,00 mm
Art. 202/8 = 20 blades	0,10 - 2,00 mm

INCH

Art. 202/2 = 8 blades	2 - 20/1000"
Art. 202/4 = 13 blades	2 - 35/1000"
Art. 202/6 = 20 blades	2 - 40/1000"
Art. 202/8 = 20 blades	4 - 80/1000"



MEASURING TOOLS - ANGULAR THREAD CUTTER

Art. 310-55°	Angular Thread Cutter Gauge WW form 55°
Art. 311-60°	Angular Thread Cutter Gauge METRIC form 60°



MEASURING TOOLS - UNIVERSAL GRINDING GAUGE

Art. 350	combines twist drill grinding gauge, entre gauge 55° and 60°, hexagon and right angle
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MEASURING TOOLS - ACME Thread Gauge

Art. 330	ACME Thread Gauge for Acme threads from 2-12 mm pitch acc. DIN 103 with flank angle 30°	2-
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MEASURING TOOLS - RADIUS GAUGES

Radius Gauges, concave and convex form

normal steel	Radil	Blades
Art. 420/1	1 - 7 mm	17
Art. 420/2	7,5 - 15 mm	16
Art. 420/3	15,5 - 25 mm	15
INOX - stainl. steel		
Art. 420/4R	1 - 7 mm	17
Art. 420/5R	7,5 - 15 mm	16
Art. 420/6R	15,5 - 25 mm	15
normal steel		
Art. 430/a	1/32 - 1/4"	16
Art. 430/b	17/64 - 1/2"	16



MEASURING TOOLS - WELDING SEAM GAUGES

Art. 721	Welding Seam Gauge w. angles of 60°-70°-80°-90°-reading by vernier
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MEASURING TOOLS - THICKNESS GAUGE BAND

Thickness gauge band of length 2, 3, or 5 m, width 12,7 mm
up to thickness 0,80 mm in box, otherwise rolled
Size 0,01 + 0,02 are only available in INOX = stainless steel

other sizes can be supplied in stainless steel too



Art. 220	Lengths 2 - 3 - 5 m
	Thickness
	0,01 - 0,02 - 0,03 - 0,04 - 0,05 - 0,06 - 0,07 - 0,08 - 0,09 - 0,10
	0,12 - 0,14 - 0,15 - 0,16 - 0,17 - 0,18 - 0,20 - 0,22 - 0,24 - 0,25
	0,26 - 0,28 - 0,30 - 0,35 - 0,40 - 0,45 - 0,50 - 0,55 - 0,60 - 0,65
	0,70 - 0,75 - 0,80 - 0,85 - 0,90 - 0,95 - 1,00

MEASURING TOOLS - PIMETER

PIMETER Special Steel Measures with vernier, suitable for measuring circumference and diameter, graduation in mm, reading by $\pm 0,10$ mm

	for circumference	for diameter
Art. 1237 / 1	60 - 950 mm	20 - 300 mm
Art. 1237 / 2	940 - 2200 mm	300 - 700 mm
Art. 1237 / 3	2190 - 3460 mm	700 - 1100 mm
Art. 1237 / 4	3450 - 4720 mm	1100 - 1500 mm
Art. 1237 / 5	4710 - 5980 mm	1500 - 1900 mm
Art. 1237 / 6	5690 - 7230 mm	1900 - 2300 mm



also available in execution INOX = stainless steel

For other measuring tools and instruments please sent your detailed enquiry



Joiner's square with mitre, **light version**, hardened steel blade **30 mm** with mm/inch graduations on one side



Joiner's square with mitre, **heavy version**, hardened steel blade **35 mm** with mm/inch graduations on one side



Sizes

150 mm - 6"
200 mm - 8"
250 mm - 10"
300 mm - 12"
350 mm - 14"
400 mm - 16"

BRASS POCKET SLIDING CALIPERS

No. 80

80/-1000	60 mm-2" Brass P. Sliding Caliper w. short jaws 20 mm
80/-1000	80 mm-3" Brass P. Sliding Caliper w. short jaws 20 mm
80/-1000	100 mm-4" Brass P. Sliding Caliper w. short jaws 20 mm



No. 80a

80a/-1000	60 mm-2" Brass P. Sliding Caliper w. 20 mm short jaws-5 mm notch
80a/-1000	80 mm-3" Brass P. Sliding Caliper w. 20 mm short jaws-5 mm notch
80a/-1000	100 mm-4" Brass P. Sliding Caliper w. 20 mm short jaws-5 mm notch



No. 81

81/-1000	60 mm-2" Brass P. Sliding Caliper w. 25 mm long jaws
81/-1000	80 mm-3" Brass P. Sliding Caliper w. 25 mm long jaws
81/-1000	100 mm-4" Brass P. Sliding Caliper w. 25 mm long jaws



No. 30

30/1000	30 mm Brass Tyre Thread Feeler Gauge ind. plastic wallet
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No. 50

50/1000	50 mm Brass Tyre Thread Feeler Gauge ind. plastic bag
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No. 60

60/1000	50 mm Brass Tyre Thread Feeler Gauge ind. plastic bag
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No. 80



No. 80a



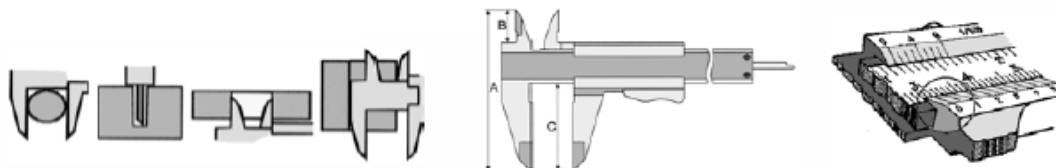
POCKET VERNIER CALIPERS



Pocket Vernier Caliper DIN 862

Suitable for workshop use (Standard - Quality)

- Stainless steel, hardened
- Scale and vernier satin chrome finish
- Jaws fine ground and lapped
- Mono-block vernier
- 4-way measuring system
- Flat depth gauge



Artikel - Nr. <i>Article - No.</i>	 mm/inch	Nonius unten <i>Vernier bottom</i> mm	Nonius oben <i>Vernier top</i> inch	A mm	B mm	C mm	Tiefenmass <i>Depth gauge</i>		CC
20 1031	150 / 6	1/20	1/128	77	16	40	flach / <i>flat</i>	0,150	20 94001
20 1034	200 / 8	1/20	1/128	90	19	50	flach / <i>flat</i>	0,170	20 94001
20 1035	150 / 6	1/50	1/1000	77	16	40	flach / <i>flat</i>	0,150	20 94001
20 1036	200 / 8	1/50	1/1000	90	19	50	flach / <i>flat</i>	0,170	20 94001
20 1013	300 / 12	1/20	1/128	102	19	60	flach / <i>flat</i>	0,250	20 94001
20 1015	300 / 12	1/50	1/1000	102	19	60	flach / <i>flat</i>	0,250	20 94001

DIVIDERS & CALIPERS

No. 48

Dividers, drop forged steel, ground and polished,
legs octagonal ground, points hardened and ground,
with rivit joint

Sizes 150 - 175 - 200 - 250 - 300 - 400 - 500 - 600 - 800 - 1000 mm



No. 49

Wing dividers, drop forged steel, ground and polished,
legs octagonal ground, points hardened and ground,
with rivit joint, arc and screw

Sizes 150 - 175 - 200 - 250 - 300 - 400 - 500 - 600 - 800 - 1000 mm



No. 50

Outside calipers, made of stamped steel, ground and polished,
legs octagobal ground, with rivit joint

Sizes 150 - 175 - 200 - 250 - 300 - 400 - 500 - 600 - 800 - 1000 mm



No. 52

Inside calipers, made of stamped steel, ground and polished,
legs octagobal ground, with rivit joint

Sizes 150 - 175 - 200 - 250 - 300 - 400 - 500 - 600 - 800 - 1000 mm



If required in precision execution with adjustable screw joint (instead of rivit joint)

No. 60

No. 61

No. 64

No. 65



Sizes

100 mm - 4"	400 mm - 16"
125 mm - 5"	500 mm - 20"
150 mm - 6"	600 mm - 24"
200 mm - 8"	800 mm - 32"
225 mm - 9"	1000 mm - 40"
250 mm - 10"	
275 mm - 11"	
300 mm - 12"	

Precision spring dividers DIN 6487, hardened points, fine polished

No. 70 (1800)



Precision spring inside calipers DIN 6487, fine polished

No. 71 (1801)



Precision spring outside calipers DIN 6487, fine polished

No. 72 (1802)



Precision spring deviders DIN 6487, hardened, with interchangeable points, fine

No. 73 (1600)



Sizes Art. 70-71-72	Sizes Art. 73
75 mm - 3"	
100 mm - 4"	100 mm - 4"
125 mm - 5"	125 mm - 5"
150 mm - 6"	150 mm - 6"
200 mm - 8"	200 mm - 8"
225 mm - 9"	225 mm - 9"
250 mm - 10"	250 mm - 10"
275 mm - 11"	275 mm - 11"
300 mm - 12"	300 mm - 12"

Frame 600

anodized light metal frame, with solid, oblique plastic handle, black, and nickel plated winder arm

Frame 600



Frame 700

anodized light metal frame, with solid, straight plastic handle, black, and nickel plated winder arm

Frame 700



Frame 800

anodized light metal frame, triangular, with solid, straight plastic handle, black, and nickel plated winder arm

Frame 800



Frame 900

anodized light metal frame, triangular, with solid, oblique plastic handle, black, and nickel plated winder arm

Frame 900



When ordering complete measuring tapes, please specify the required bob, and if same is not needed please state for which type of bob the tape should be suitable

Brass Bobs

No. 1 = cylindrical length 70 mm, Diam. 25 mm, weight 240 g with graduation

No. 2 = cylindrical length 120 mm, Diam. 20 mm, weight 260g without graduation

Bob No. 1- 2 - 3

No. 3 = cylindrical length 170 mm, Diam. 25 mm, weight 470g with graduation



Stainless Steel Bobs

No. 1 = cylindrical length 70 mm, Diam. 25 mm, with graduation

No. 3 = cylindrical length 170 mm, Diam. 25 mm, shape like No. 1 = **NOT POINTED**, with graduation

Coloured handles as shown below are available upon request



Blue



Red



Yellow



Blue gummed

WEISS MEASURING TAPES

Spare Tapes

- Carbon steel, high etched, 13 mm wide
- Stainless steel. High etched, 13 mm wide
- White enamelled steel, 13 mm wide
- Yellow enamelled steel, 13 mm wide
- White fibreglass tape, 13 mm wide
- Yellow fibreglass tape, 13 mm wide

When ordering spare tapes please specify for which bob they should be suitable

Spare Tapes



Measuring Tapes capsuled

in standard steel case, coated with light brown plastic material, handle and fittings of nickel-plated metal
The cases can take maximum length 50 m / 165 ft

No. 208

When ordering please specify the required commencement
A = graduation starts 10 cm after ring
B = graduation starts at joint end of ring
C = ring is included in graduation. Measuring starts at outer end of ring



Massanfang A



Commencement A

Massanfang B

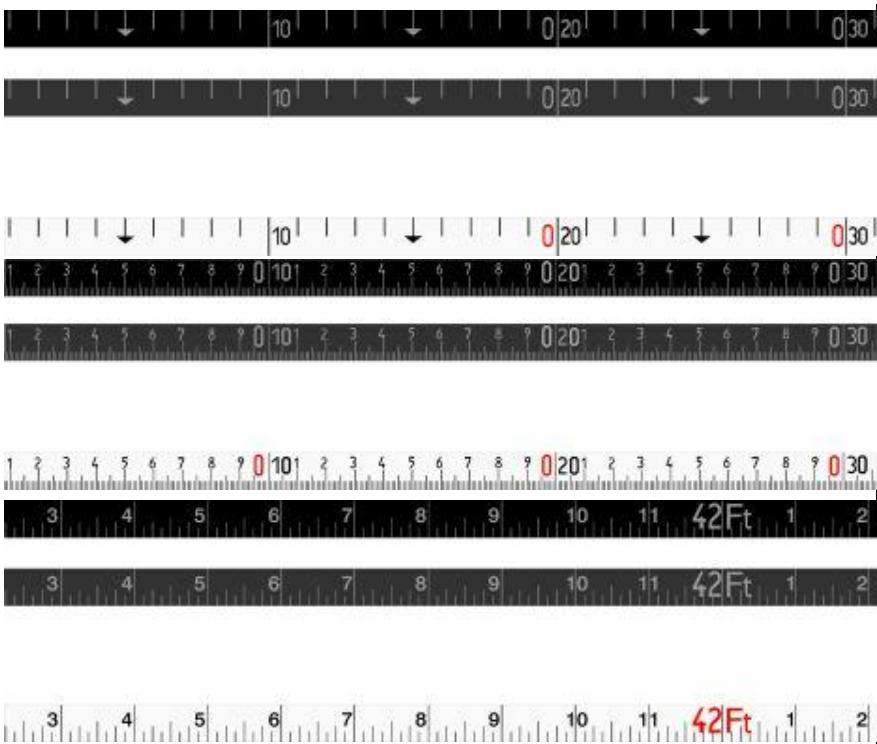


Commencement B

Massanfang C



Commencement C



1 measure	2 measures
CM-Graduation	cm/cm
	cm/inch
MM-Graduation	mm/inch
	mm/mm
INCH-Graduation	cm/inch
	mm/inch



Tank Dipping Tapes of carbon steel

- brass frame
- light metal frame

Tank Dipping Tapes of stainless steel

- brass frame
- light metal frame

Tank Dipping Tapes of white steel

- brass frame
- light metal frame

Dip Weights - common types

- Dip Weight "C"
- Dip Weight "D"
- Dip Weight "E"

stainless steel Dip Weights - common types

- Dip Weight "I"
- Dip Weight "U"

Tank Dipping Tapes - IPM Specification

- brass frame
- brass Dip Weight "B"
- brass Dip Weight "W"



brass frame



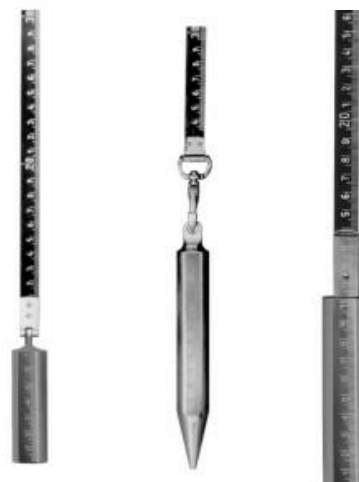
light metal frame



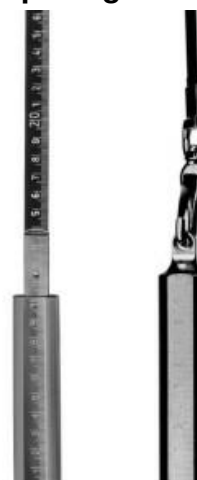
IPM brass frame



IPM brass Dip B - W



Brass Dip weight C - D - E



Stainl. Steel Dip I - U

Scales according your request





basic frame
for tape lengths
10 - 15 - 20 - 25 - 30 - 50 m

available with tapes



white lacquered
cm/- cm/cm - cm/inch - mm/- mm/inch



polyamid coated ISOLAN
cm/- cm/cm - cm/inch - mm/-



stainl. steel PONTARIT
cm/- - mm/-



stainl. steel etched
cm/- cm/cm - cm/inch - mm/- mm/inch



glass fibre yellow
cm/- cm/cm - cm/inch



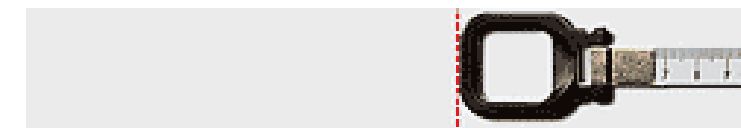
glass fibre white FILON
cm/- cm/cm - cm/inch



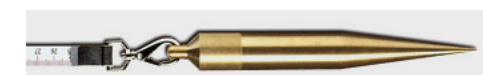
Commencement A



Commencement B



Commencement C



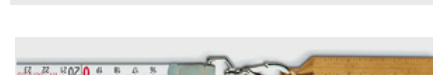
brass bob 11



brass bob 14



stainl. st. bob 16



brass bob 10

SPIRIT LEVELS



Model: AZB

Aluminium box section profile, silver anodised
 Profile weight 590 g/m
 Dimensions approx. 50x23mm
 1 Horizontal vial
 1 Plum vial
 3rd vial upon request

Maximum measuring tolerances:
 in standard position:
 0,5mm mm/m (0,029°)

for inverted measuring:
 0,75 mm/m (0,043°)

Target group:
 Professional bulding trade

Product advantages:
 Vials electronically aligned
 Unbreakable acrylic block vials
 Horizontal vial with magnifying lens and luminous backing
 Shock-absorbent end caps



Length cm

AZB 20
 AZB 30
 AZB 40
 AZB 50
 AZB 60
 AZB 70
 AZB 80
 AZB 100
 AZB 120
 AZB 150
 AZB 180
 AZB 200

Model: AZM

Aluminium box section profile, gold anodised
 Profile weight 750 g/linear meter
 Dimensions approx. 50 x 24 mm
 Strong magnets
 1 Horizontal vial
 1 Plumb vial
 3rd vial upon request

Maximum measuring tolerances:
 in standard position:
 0.5 mm/m (0.029°)
 for inverted measuring:
 0.75 mm/m (0.043°)

Target group:
 Fitters, Iron and metal construction

Product advantages:
 Vials electronically aligned
 Unbreakable acrylic block vials
 Horizontal vial with magnifying lens and luminous backing
 Integrated chamfer for a secure grip
 Strong magnets
 Shock-absorbent end caps



Length cm

AZM 100
 AZM 120
 AZM 150
 AZM 180
 AZM 200
 AZM 30
 AZM 40
 AZM 50
 AZM 60
 AZM 80



Plastic spirit levels are available

BALANCES

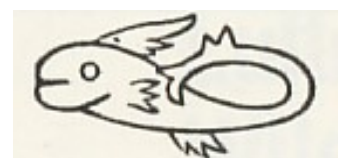


102124	REBÜRE Spring Pocket Balance - 11.0 kg/ 22 lbs.-I
102125	REBÜRE Spring Pocket Balance - 12.5 kg/ 25 lbs.-I
102126	REBÜRE Spring Pocket Balance - 13.0 kg/ 27 lbs.-I
102150	REBÜRE Spring Pocket Balance - 15.0 kg/ 32 lbs.-II
102200	REBÜRE Spring Pocket Balance - 20.0 kg/ 44 lbs.-III
102252	REBÜRE Spring Pocket Balance - 23.0 kg/ 50 lbs.-IV
102250	REBÜRE Spring Pocket Balance - 25.0 kg/ 56 lbs.-IV
102300	REBÜRE Spring Pocket Balance - 30.0 kg/ 66 lbs.-V
102400	REBÜRE Spring Pocket Balance - 40.0 kg/ 88 lbs.-VI
102502	REBÜRE Spring Pocket Balance - 46.0 kg/100 lbs.-VII
102500	REBÜRE Spring Pocket Balance - 50.0 kg/112 lbs.-VII
102600	REBÜRE Spring Pocket Balance - 60.0 kg/132 lbs.-VIII
1021000	REBÜRE Spring Pocket Balance - 100.0 kg/224 lbs.-X
1021500	REBÜRE Spring Pocket Balance - 150.0 kg/336 lbs.-XII
132010	REBÜRE Quick-Display Pointer Scale, standard - 10.0 kg/ 20 lbs.
132025	REBÜRE Quick-Display Pointer Scale, standard - 25.0 kg/ 50 lbs.
132050	REBÜRE Quick-Display Pointer Scale, standard - 50.0 kg/110 lbs.
132100	REBÜRE Quick-Display Pointer Scale, standard - 100.0 kg/220 lbs.
132150	REBÜRE Quick-Display Pointer Scale, standard - 150.0 kg/300 lbs.
132200	REBÜRE Quick-Display Pointer Scale, standard - 200.0 kg/440 lbs.
132300	REBÜRE Quick-Display Pointer Scale, standard - 300.0 kg/660 lbs.



BALANCES

Fish Spring Pocket Balance I- 11.5 kg / 25 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance I- 12.5 kg / 27 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance II- 13.5 kg / 30 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance II- 15.0 kg / 33 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance II/Fi 6.0 kg / 13 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance III- 20.0 kg / 44 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance IV- 23.0 kg / 50 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance IV- 25.0 kg / 56 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance V- 30.0 kg / 66 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance VI- 34.0 kg / 75 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance VI- 40.0 kg / 92 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance VII- 46.0 kg / 100 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance VII- 50.0 kg / 112 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance VIII-60.0 kg / 132 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance IX- 75.0 kg / 168 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance X- 100.0 kg / 224 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance XI- 125.0 kg / 272 lbs. w. brassed scale, hook a. galv. ring
 Fish Spring Pocket Balance XII-150.0 kg / 336 lbs. w. brassed scale, hook a. galv. ring



Fish Spring Pocket Balance I- 11.5 kg / 25 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance I- 12.5 kg / 27 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance II- 13.5 kg / 30 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance II- 15.0 kg / 33 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance II/Fi 6.0 kg / 13 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance III- 20.0 kg / 44 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance IV- 23.0 kg / 50 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance IV- 25.0 kg / 56 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance V- 30.0 kg / 66 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance VI- 34.0 kg / 75 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance VI- 40.0 kg / 92 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance VII- 46.0 kg / 100 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance VII- 50.0 kg / 112 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance VIII-60.0 kg / 132 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance IX- 75.0 kg / 168 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance X- 100.0 kg / 224 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance XI- 125.0 kg / 272 lbs. w. BRASS scale, hook a. galv. ring
 Fish Spring Pocket Balance XII-150.0 kg / 336 lbs. w. BRASS scale, hook a. galv. ring



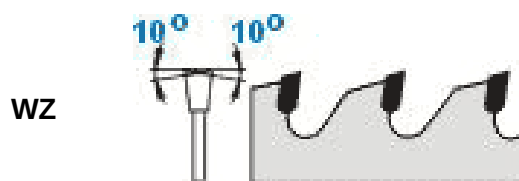


6/0K	size 6/0 Kakadu Metal Cutting Piercing Saw Blade 130 mm
5/0K	size 5/0 Kakadu Metal Cutting Piercing Saw Blade 130 mm
4/0K	size 4/0 Kakadu Metal Cutting Piercing Saw Blade 130 mm
3/0K	size 3/0 Kakadu Metal Cutting Piercing Saw Blade 130 mm
2/0K	size 2/0 Kakadu Metal Cutting Piercing Saw Blade 130 mm
0K	size 0 Kakadu Metal Cutting Piercing Saw Blade 130 mm
1K	size 1 Kakadu Metal Cutting Piercing Saw Blade 130 mm
2K	size 2 Kakadu Metal Cutting Piercing Saw Blade 130 mm
3K	size 3 Kakadu Metal Cutting Piercing Saw Blade 130 mm
4K	size 4 Kakadu Metal Cutting Piercing Saw Blade 130 mm
5K	size 5 Kakadu Metal Cutting Piercing Saw Blade 130 mm
6K	size 6 Kakadu Metal Cutting Piercing Saw Blade 130 mm
8K	size 8 Kakadu Metal Cutting Piercing Saw Blade 130 mm
6/0MI	size 6/0 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm
5/0MI	size 5/0 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm
4/0MI	size 4/0 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm
3/0MI	size 3/0 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm
2/0MI	size 2/0 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm
0MI	size 0 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm
1MI	size 1 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm
2MI	size 2 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm
3MI	size 3 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm
4MI	size 4 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm
5MI	size 5 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm
6MI	size 6 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm
8MI	size 8 Maximum Ideal Metal Cutting Piercing Saw Blade 130 mm

for cutting wood - tooth shape WZ

Standard dimensions

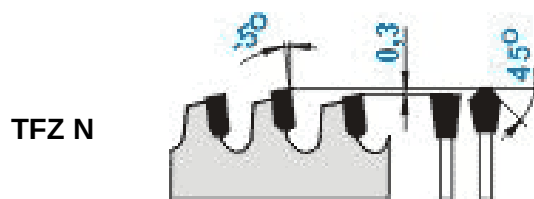
diameter x width x bore	available number of
127 x 2,6 x 20 mm	10 - 20 - 36 WZ
130 x 2,6 x 20 mm	10 - 20 - 36 WZ
134 x 2,6 x 20 mm	10 - 20 - 36 WZ
140 x 2,6 x 20 mm	10 - 20 - 42 WZ
150 x 2,6 x 20 mm	12 - 24 - 48 WZ
156 x 2,6 x 20 mm	12 - 24 - 48 WZ
160 x 2,5 x 20 mm	16 - 24 - 36 - 48 WZ
160 x 2,6 x 20 mm	12 - 24 - 48 WZ
160 x 2,8 x 20 mm	18 WZ
170 x 2,6 x 30 mm	12 - 24 - 54 WZ
180 x 2,5 x 20 mm	20 - 28 - 36 - 56 WZ
180 x 2,6 x 30 mm	12 - 24 - 56 WZ
184 x 2,6 x 30 mm	12 - 24 - 56 WZ
190 x 2,6 x 30 mm	14 - 30 - 56 WZ
200 x 2,5 x 20 mm	24 - 32 - 40 - 48 - 64 WZ
200 x 2,8 x 30 mm	16 - 30 - 64 WZ
210 x 2,8 x 30 mm	18 - 32 - 64 WZ
230 x 2,8 x 30 mm	20 - 34 - 64 WZ
250 x 3,2 x 30 mm	32 - 40 - 48 - 60 - 64 - 72 - 80 WZ
300 x 3,2 x 30 mm	36 - 48 - 64 - 72 - 96 WZ
350 x 3,6 x 30 mm	40 - 54 - 72 - 84 - 108 WZ
400 x 3,6 x 30 mm	48 - 64 - 84 - 96 - 120 WZ
450 x 4,0 x 30 mm	56 - 72 WZ
500 x 4,0 x 30 mm	64 - 84 WZ
600 x 5,2 x 30 mm	90 WZ



for cutting aluminium - tooth shape TFZ N

Standard dimensions

diameter x width x bore	available number of
160 x 2,8 x 20 mm	48 TFZ N
190 x 2,8 x 30 mm	56 TFZ N
200 x 3,2 x 30 mm	60 TFZ N
250 x 3,2 x 30 mm	60 - 80 TFZ N
300 x 3,2 x 30 mm	72 - 96 TFZ N
350 x 3,6 x 30 mm	84 - 108 TFZ N
400 x 3,6 x 30 mm	96 - 120 TFZ N
420 x 4,0 x 30 mm	96 TFZ N
450 x 4,0 x 30 mm	108 TFZ N
500 x 4,0 x 30 mm	120 TFZ N

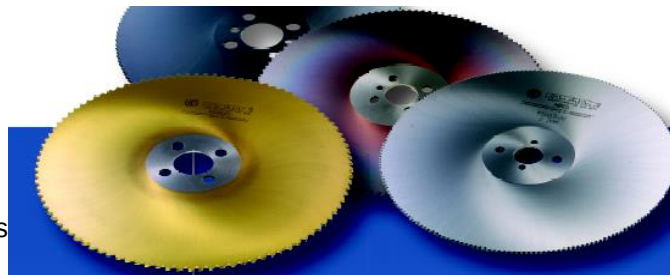


Other dimensions / number & shape of teeth are available - please specify your demand and indicate the material you intend to cut

HERMANN JAEGER GMBH - HAMBURG / GERMANY

HSS CIRCULAR SAW BLADES

Applications cutting of ferrous and non-ferrous metals
Range from Ø 20mm to 800 mm
Material HSS-DMo5 [1.3343] HSS-EMo5 Co5 [1.3243]
Hardness 64+ 1 HRC 65+ 1 HRC
Our standard program includes steam-treated and bright finished products as well as blades with various PVD coatings in every dimension and tooth forms.



Performance Characteristics of Surface Coatings

max. working temperature

Surface hardness (HV)

Co-efficient of Friction

Coating
Colour

TiN

gold

600 C°

2400

0,55

TiCN

blue-grey

450 C°

3200

0,3

TiALN

violet-black

800 C°

3000

0,6

Applications TiN

Applications TiCN

Applications TiALN

Medium hardness steel, tubes & profiles

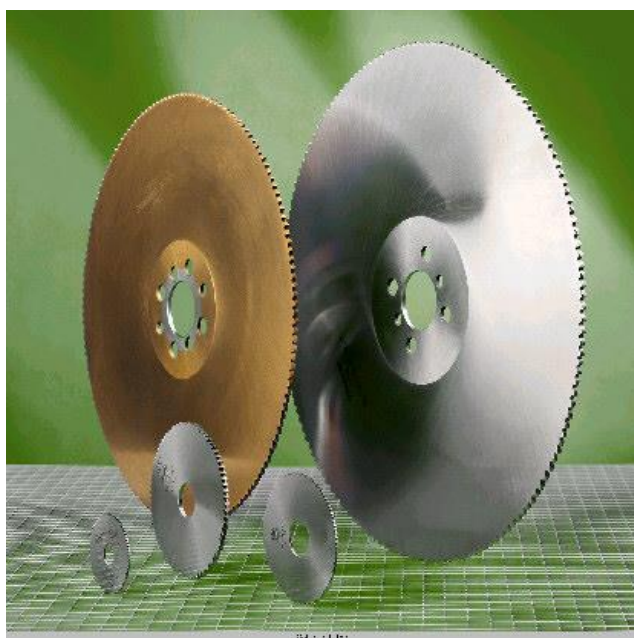
Hard & Stainless Steel

Abrasive steels & high cutting speeds

Material: D-Mo5 (M2)

Hardness: 63-65 HRC

Tooth form: BW, C, BS



Please specify your demand by indicating all relevant technical dates

CARBON STEEL BAND SAW BLADES

Sales units: - coils in fix lengths and manufacturing coils up to 120 m, depending on the band width
- welded-to-length band saw blades

Band widths: 2,5 to 38 mm

Constant tooth pitches: 2 to 24 teeth per inch (tpi)

Tooth shapes: - raker tooth (s)
- hook tooth (K)
- skip tooth (L)

Types of tooth set: - standard set (SD)
- wavy set (WS)
- group set (GS)
- right/left-set (RL)

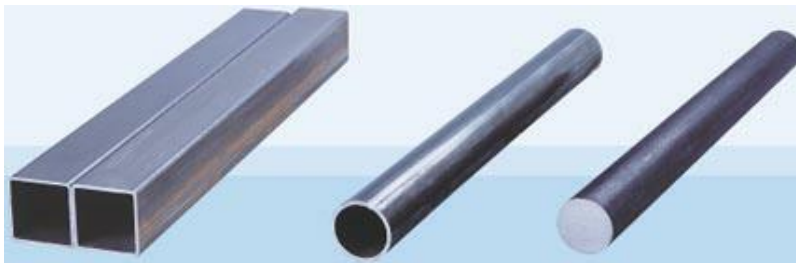


EXTRA

Features:

- Flexible band saw blade made of chrome-alloyed carbon steel
- Hardened tooth tips

- For all-purpose use
- For unalloyed steels with low tensile strength



Item group 500

EXTRA (approx. 65-66 HRC)



Article group 500 EXTRA (approx. 65-66 HRC)

Dimensions		Tooth pitch in tpi		
Width x Thickness		SD		
mm	Inch	3	4	6
8 x 0.65	5/16 x 0.025		L	
10 x 0.65	3/8 x 0.025	L	S-L	S
13 x 0.65	1/2 x 0.025	L	S-L	S
16 x 0.80	5/8 x 0.032	L	S	S
20 x 0.80	3/4 x 0.032	L	S-L	S

L = Skip tooth, S = Standard tooth

CARBON STEEL BAND SAW BLADES

Sales units: - coils in fix lengths and manufacturing coils up to 120 m, depending on the band width
- welded-to-length band saw blades

Band widths: 2,5 to 38 mm

Constant tooth pitches: 2 to 24 teeth per inch (tpi)

Tooth shapes: - raker tooth (s)
- hook tooth (K)
- skip tooth (L)

Types of tooth set: - standard set (SD)
- wavy set (WS)
- group set (GS)
- right/left-set (RL)

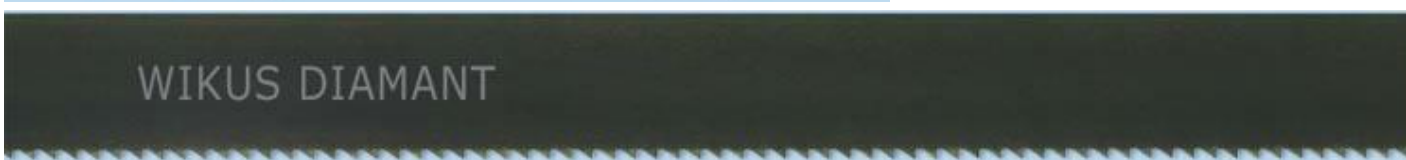
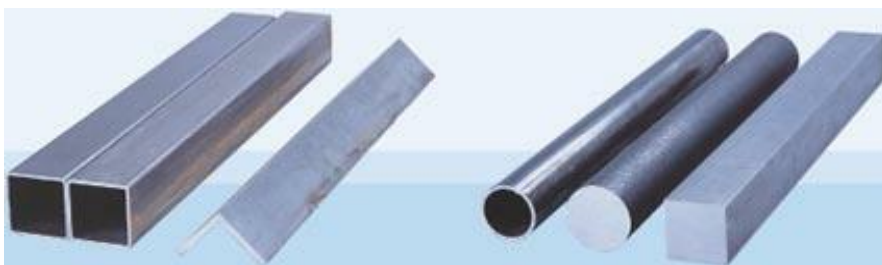


DIAMANT

Features:

- Tungsten-silicon-chrome-alloyed blade with quenched and tempered backing material made of higher alloyed carbon steel and special Hardened tooth tips
- Longer lifetime and wear resistance

- For low alloyed steels
- For steels of medium tensile strength
- For basic shop use



Item group 510

DIAMANT (approx. 66-67 HRC)



Article group 510 DIAMANT (approx. 66-67 HRC)

Dimensions Width x Thickness mm Inch		Tooth pitch in tpi									
		SD				WS				GS	
		3	4	6	8	10	14	18	14	24	4
5 x 0.40	3/16 x 0.016						S			S	
5 x 0.65	3/16 x 0.025					S	S	S		S	
6 x 0.40	1/4 x 0.016			K							
6 x 0.65	1/4 x 0.025		L	S-K	S	S	S	S		S	K
8 x 0.65	5/16 x 0.025		K	S-K	S	S	S	S		S	K
10 x 0.65	3/8 x 0.025	K	K	S-K	S	S	S	S		S	
13 x 0.65	1/2 x 0.025	K	S-K	S-K	S	S	S	S		S	
16 x 0.50	5/8 x 0.020				S		S				
16 x 0.65	5/8 x 0.025	K	S-K-L	S-K	S	S			S	S	
16 x 0.80	5/8 x 0.032	K	K	K	S	S			S		
20 x 0.80	3/4 x 0.032	K	K	K	S	S			S		
25 x 0.90	1 x 0.035	K	K	S-K	S	S					

L = Skip tooth, S = Standard tooth, K = Hook tooth

BIMETAL BAND SAW BLADES

- Sales units: - coils in fix lengths and manufacturing coils up to 120 m, depending on the band width
- welded-to-length band saw blades
- Band widths: 4 to 125 mm
- Constant tooth pitches: 0,75 to 18 teeth per inch (tpi)
- Variable tooth pitches: 0,55-0,75 to 10-14 tpi
- Tooth shapes: - raker tooth (S)
- hook tooth (K)
- tooth shape (HV)
- tooth shape (VA)
- profile tooth (P)
- Types of tooth set: - standard set (SD)
- group set (GS)

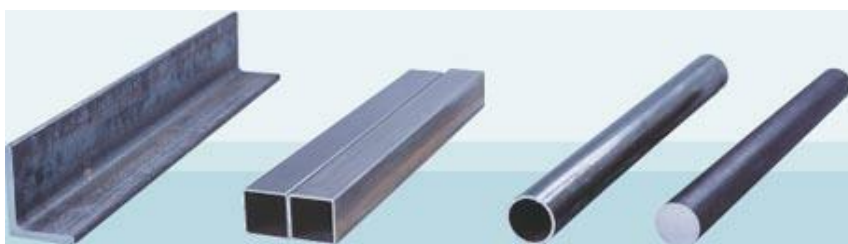


ECOFLEX M42

Features:

- Ideal For cutting small and medium work pieces
- Vibration damping, variable tooth pitch
- Tooth tips made of particularly wear-resistant quality

- For small and medium work piece dimensions
- For profiles and solid materials
- For demanding shop operations
- For all steels up to 45 HRC



WIKUS ECOFLEX M42

Article group 523 ECOFLEX M42 (approx. 68-69 HRC)

Dimensions Width x Thickness mm Inch		Tooth pitch in tpi SD						
		2 - 3	3 - 4	4 - 6	5 - 8	6 - 10	8 - 12	10 - 14
13 x 0.65	1/2 x 0.025					S	S	S
20 x 0.90	3/4 x 0.035			K	S	S	S	S
27 x 0.90	1-1/16 x 0.035		K	K	S	S	S	S
34 x 1.10	1-3/8 x 0.042	K	K	K	S	S	S	
41 x 1.30	1-5/8 x 0.050	K	K	K				

S = Standard tooth, K = Hook tooth

Article group 523 ECOFLEX M42 NE (approx. 68-69 HRC)

Dimensions Width x Thickness mm Inch		Tooth pitch in tpi Extra wide set		
		2	3	4
20 x 0.90	3/4 x 0.035		K	K
27 x 0.90	1-1/16 x 0.035	K	K	K
34 x 1.10	1-3/8 x 0.042		K	

K = Hook tooth

BANDSAW BLADES FOR CUTTING WOOD



Tooth shape A

Tooth shape B

51-A-10	3/8" Bandsaw Blade 10x0.5 mm x A 5 mm=5	tpi, set, 250' coil
51-A-12	1/2" Bandsaw Blade 12x0.5 mm x A 6 mm=4	tpi, set, 250' coil
51-A-15	5/8" Bandsaw Blade 15x0.5 mm x A 6 mm=4	tpi, set, 250' coil
51-A-20	3/4" Bandsaw Blade 20x0.7 mm x A 6 mm=4	tpi, set, 250' coil
51-A-25	1 " Bandsaw Blade 25x0.7 mm x A 8 mm=3	tpi, set, 250' coil
51-A-30	1.1/4" Bandsaw Blade 30x0.8 mm x A12 mm=2,11	tpi, set, 250' coil
51-A-40	1.1/2" Bandsaw Blade 40x0.8 mm x A12 mm=2,11	tpi, set, 250' coil
51-A-50	2 " Bandsaw Blade 50x0.9 mm x A12 mm=2,11	tpi, set, 250' coil
51-A-60	2.1/2" Bandsaw Blade 60x0.9 mm x A12 mm=2,11	tpi, set, 250' coil
51-A-75	3 " Bandsaw Blade 75x0.9 mm x A12 mm=2,11	tpi, set, 250' coil

WOOD BANDSAW BLADES, in rolls of 20, 22, 25, 50 or 100 m available in

- a) toothed only (not set, not sharpened)
- b) toothed & set (not sharpened)
- c) toothed, set & sharpened

10 mm - 3/8"	10 x 0,6 x A 6 mm = abt. 4 tpi
12 mm - 1/2"	12 x 0,6 x A 6 mm = abt. 4 tpi
15 mm - 5/8"	15 x 0,6 x A 6 mm = abt. 4 tpi
20 mm - 3/4"	20 x 0,7 x A 8 mm = abt. 3 tpi
25 mm - 1"	25 x 0,7 x A 8 mm = abt. 3 tpi
30 mm - 1.1/4"	30 x 0,7 x A 9 mm = abt. 3 tpi
35 mm - 1.3/8"	35 x 0,8 x A 10 mm = abt. 2,5 tpi
40 mm - 1.1/2"	40 x 0,8 x A 10 mm = abt. 2,5 tpi
45 mm - 1.3/4"	45 x 0,8 x A 11 mm = abt. 2,5 tpi
50 mm - 2"	50 x 0,9 x A 12 mm = abt. 2 tpi
60 mm - 2.1/2"	60 x 1,0 x A 14 mm = abt. 1,8 tpi





RIP CUT

30008rc	Rip-Cut Cir. Saw Blade	200 mm/ 8"x1.4 mmx 3/ 4"x 36teeth
35010rc	Rip-Cut Cir. Saw Blade	250 mm/10"x1.4 mmx 3/ 4"x 36teeth
30012rc	Rip-Cut Cir. Saw Blade	300 mm/12"x1.6 mmx1 "x 36teeth
35014rc	Rip-Cut Cir. Saw Blade	350 mm/14"x1.8 mmx1.1/ 8"x 36teeth
40016rc	Rip-Cut Cir. Saw Blade	400 mm/16"x2.0 mmx1.1/ 8"x 36teeth
45018rc	Rip-Cut Cir. Saw Blade	450 mm/18"x2.2 mmx1.1/ 4"x 36teeth
50020rc	Rip-Cut Cir. Saw Blade	500 mm/20"x2.5 mmx1.5/16"x 36teeth
55022rc	Rip-Cut Cir. Saw Blade	550 mm/22"x2.6 mmx1.5/16"x 36teeth
60024rc	Rip-Cut Cir. Saw Blade	600 mm/24"x2.8 mmx1.3/ 8"x 36teeth
65026rc	Rip-Cut Cir. Saw Blade	650 mm/26"x3.0 mmx1.1/ 2"x 36teeth
70028rc	Rip-Cut Cir. Saw Blade	700 mm/28"x3.2 mmx1.1/ 2"x 36teeth
75030rc	Rip-Cut Cir. Saw Blade	750 mm/30"x3.4 mmx1.1/ 2"x 36teeth
80032rc	Rip-Cut Cir. Saw Blade	800 mm/32"x3.4 mmx1.1/ 2"x 36teeth
85034rc	Rip-Cut Cir. Saw Blade	850 mm/34"x3.8 mmx1.1/ 2"x 36teeth
90036rc	Rip-Cut Cir. Saw Blade	900 mm/36"x3.4 mmx1.1/ 2"x 36teeth
100040rc	Rip-Cut Cir. Saw Blade	1000 mm/40"x3.8 mmx1.1/ 2"x 36teeth
120048rc	Rip-Cut Cir. Saw Blade	1200 mm/48"x4.2 mmx1.1/ 2"x 36teeth



A (KV)



B (NV)



F



PV



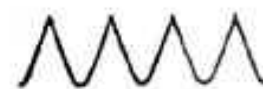
S

CROSS CUT

30008cc	Cross-Cut Cir. Saw Blade	200 mm/ 8"x1.4 mmx 3/ 4"x100teeth
35010cc	Cross-Cut Cir. Saw Blade	250 mm/10"x1.4 mmx 3/ 4"x100teeth
30012cc	Cross-Cut Cir. Saw Blade	300 mm/12"x1.6 mmx1 "x100 teeth
35014cc	Cross-Cut Cir. Saw Blade	350 mm/14"x1.8 mmx1.1/ 8"x100 teeth
40016cc	Cross-Cut Cir. Saw Blade	400 mm/16"x2.0 mmx1.1/ 8"x100 teeth
45018cc	Cross-Cut Cir. Saw Blade	450 mm/18"x2.2 mmx1.1/ 4"x100 teeth
55022cc	Cross-Cut Cir. Saw Blade	550 mm/22"x2.6 mmx1.5/16"x 80 teeth
60024cc	Cross-Cut Cir. Saw Blade	600 mm/24"x2.8 mmx1.3/ 8"x 80 teeth
65026cc	Cross-Cut Cir. Saw Blade	650 mm/26"x3.0 mmx1.1/ 2"x 80 teeth
70028cc	Cross-Cut Cir. Saw Blade	700 mm/28"x3.2 mmx1.1/ 2"x 80 teeth
75030cc	Cross-Cut Cir. Saw Blade	750 mm/30"x3.4 mmx1.1/ 2"x 80 teeth
80032cc	Cross-Cut Cir. Saw Blade	800 mm/32"x3.4 mmx1.1/ 2"x 80 teeth
85034cc	Cross-Cut Cir. Saw Blade	850 mm/34"x3.8 mmx1.1/ 2"x 80 teeth
90036cc	Cross-Cut Cir. Saw Blade	900 mm/36"x3.4 mmx1.1/ 2"x 80 teeth
100040cc	Cross-Cut Cir. Saw Blade	1000 mm/40"x3.8 mmx1.1/ 2"x 80 teeth
120048cc	Cross-Cut Cir. Saw Blade	1200 mm/48"x4.2 mmx1.1/ 2"x 80 teeth



C (NV°)



D (AV)



E (KV5°)



EN (NU)

Group teeth



HERMANN JAEGER GMBH - HAMBURG / GERMANY

STANDARD GREASE GUN, HHFP

with ZBH, connection G 1/8"



Technical data	
Diameter of piston:	8 mm
Actuation grease piston:	manually lever operated
Delivery rate / stroke :	1,2 cm ³ , at a counter-pressure of 400 bar
Discharge pressure:	up to 400 bar
Grease gun connection,	G 1/8"
Burst pressure (system):	850 bar
Burst pressure (grease gun	1200 bar
Capacity:	500 cm ³
Loading:	400 g grease cartridge, DIN 1284, or bulk grease
Operation of plunger rod :	with L-design handle
Sealing cover:	loose
Wall thickness of grease gun	1,0 mm
Lacquering:	silver
Package:	polybag, printed, with Bar code
Dimensions of package LWH (mm):	380 x 125 x 70
Weight including package:	1,25 kg
Specification	
12735	With 1 spout, angled, G 1/8", 150 mm
12731	With 1 coupler, 4 jaws G 1/8"
Note	
	Processing of greases, up to NLGI 2
	Contoured plunger, tight fitting, with bulk grease or cartridges
	Acc. to DIN 1283
	Dummy lubrication)
	Performance unchanged after 5000 actuating cycles
	Grease gun head, zinc die casting Z 410
	Sure grip handling due to deep band knurls
	Safe handle on the plunger rod
	Slip resistant handle on grease gun lever
	applied to spring to compress bulk grease, or to force in the operational efficiency
	tube
Package	
Dimensions LxWxH (mm):	400 x 360 x 145
Weight (kg):	13,2
Packing unit:	10



12 632 482



12735



12731

EXTRAS



12756

high pressure hose, G 1/8" male , 8 x 300 mm

HERMANN JAEGER GMBH - HAMBURG / GERMANY

MANUALLY OPERATED LUBRICATION SYSTEM

20 kg container, Ø 270 - 310 mm



Technical data for Art. 17620	
Flow media:	lubricating greases, up to NLGI 2
Delivery rate to refill grease	30 cm ³
Length of discharge hose:	1500 mm
Grease supply into the hand	manually lever operated
Follower plate:	for 20 kg container
Ø follower plate:	270 up to 310 mm
Lacquering dust cover:	Pantone 294c, blue satin
Length suction tube:	510 mm
Connection hose/one hand grease gun:	quick release adapter Rectus, type 26, 17601
	, with nonreturn valve
Pump body :	steel
Delivery rate EHFP / stroke :	0,4 cm ³
Discharge pressure:	up to 550 bar
Burst pressure EHFP:	850 bar
Burst pressure grease gun	1200 bar
Capacity EHFP :	125 cm ³
Grease gun connection,	M 10 x 1
Actuation grease piston:	manual, by means of pressure grip
Surface treatment:	all steel components are galvanized
Material pump head:	impact-resistant zinc die casting
Dimensions of package LWH	670 x 420 x 100
Weight including package:	5,5 kg
Specification	
	Manual pump to refill one hand operated grease gun
	Pump
	Suction tube
17176	Dust cover
17197	, stabilising-fixing bracket
17300	and follower plate
17600	One hand operated grease gun (EHFP), connection M 10 x 1
12435	Spout, straight, M 10 x 1, 150 mm
12631	Coupler, 4 jaws, M 10 x 1
17003	Discharge hose
	Packed in single carton box
Note	
	any time by simply lifting the dust cover (no screws have to
	it can be easily removed.
	enables the grease supply pump to be easily attached to
	and efficient operation of all manual and air operated grease
	provides safe working
Package	
Dimensions LxWxH (mm):	670 x 420 x 100
Weight (kg):	5,5
Packing unit:	1



17620

20 kg pail Ø 270-310 mm

17605

5 kg pail Ø 180-210 mm

17610

10 kg pail Ø 210-240 mm

17615

15 kg pail Ø 240-270 mm

17625

25 kg pail Ø 310-335 mm

17660

50 kg pail Ø 335-385 mm

HERMANN JAEGER GMBH - HAMBURG / GERMANY

COMPRESSED AIR GREASE GUN, DLFP

with ZBH, connection M 10 x 1



Technical data	
Grease supply into the	spring operated
Operation of plunger rod :	with L-design handle
Sealing cover:	loose
Diameter of piston:	6 mm
Actuation grease piston:	single-stroke grease supply
Delivery rate / stroke :	0,8 cm ³
Operating air pressure	6 bar
Pressure ratio :	50:01:00
Minimum pressure	2 bar
Maximum air pressure	8 bar
Compressed air connection :	hose nozzle, 6 mm, for hose, DN 6, 20132
Capacity:	500 cm ³
Operating pressure:	100 up to 400 bar
Burst pressure (system):	850 bar
Burst pressure (grease gun	1200 bar
Grease gun connection,	M 10 x 1
Loading:	400 g grease cartridge, DIN 1284, bulk grease
Wall thickness of grease gun	1,0 mm
Lacquering:	silver
Package:	polybag, blank, with Bar code
Dimensions of package LWH	380 x 190 x 70
Weight including package:	1,85 kg
Specification	
12635	With 1 spout, angled, M 10 x 1, 150 mm
12631	With 1 coupler, 4 jaws, M 10 x 1
Note	
	Processing of greases, up to NLGI 2
	Contoured plunger, tight fitting, with bulk grease or cartridges (lubrication)
	Performance unchanged after 5000 actuating cycles
	Safe handle on the plunger rod
	Grease gun head, zinc die casting Z 410
	Sure grip handling due to deep band knurls
	applied to spring to compress bulk grease, or to force in the plunger
	High-speed ventilation, by half a rotation of the grease gun tube
Package	
Dimensions LxWxH (mm):	400 x 360 x 145
Weight (kg):	10,2
Packing unit:	5



18071



12635



12631

EXTRAS



12655

High pressure hose, M10 x 1 male, 11 x 300 mm



12062-M10 x 1
12062 125- G1/8
Button head coupler, female for button head grease nipple, 16 mm

HERMANN JAEGER GMBH - HAMBURG / GERMANY

GREASE SUPPLY SYSTEM, SRL 700

50 kg container, Ø 335 - 385 mm



18 760 051
for 50 kg containers

Technical data	
Length suction tube:	700 mm
Compressed air connection :	G 1/4" female
Specification	
	Pneumatic pump 50:1
	Special pump mechanism
	Suction tube
	Dust cover, stabilising-fixing bracket and follower plate
	Pressure reducing valve (pre-set at 8 bar)
Package	
Dimensions LxWxH (mm):	1010 x 480 x 105
Weight (kg):	13
Packing unit:	1

Technical data pneumatik pump 50:1

Total length of pump:	225 mm / 820 mm
Maximum diameter:	130 mm
Motor weight/total weight:	3,4 kg / 6,7 kg
Transmission ratio:	50:01:00
Maximum air pressure:	10 bar
Minimum air pressure:	2 bar
Recommended air	8 bar
Stroke volume, motor:	220 cm³
Stroke volume, pump:	8 cm³
Stroke number at 8 bar	220 /min
Pump performance at 8 bar	1100 g/min
Pump pressure at 8 bar	400 bar
Air consumption at 8 bar	400 l/min
Feeding pipeline length:	Depends on each single construction.
Maximum suction heighth:	Pump unit on suction point.
Airline connection:	G 1/4" female
Connection, suction side:	Ø 35 mm
Connection, pressure side:	G 1/4" male
Noise level on no load, acc.	78 db (A) (2 m distance)
Noise level under load, acc.	77 db (A) (2 m distance)
General application areas:	For dispensing of standard lubricating and multi-purpose greases from NLGI grade 0 up to NLGI grade 2 out of original containers, e.g. greases for centralised lubricating systems.
Classical application area:	Mobile as a pump suitable for 50 kg container with 4 m discharge hose, Z-swivel and high pressure grease gun, mounted on a trolley
Viscosity of the medium to	Grease of consistency grade 2 acc. NLGI
Classical medium to be	Lubricating greases

18 730 051
for 15 kg containers

18 740 051
for 20-30 kg containers

18 750 051
for 25 kg containers

18 780 051
for 200 kg containers

HERMANN JAEGER GMBH - HAMBURG / GERMANY

GREASE SUPPLY SYSTEM - MOBILE

20 kg container Diam. 270 - 310 mm



Article 18 417 051

compr. air connection: male quick release adapter for Rectus coupling, type 26 NW 7,2 mm

grease conn: coupler f. hydr. grease nipples DIN71412

for 20-kg container, diam. 270-310 mm
pneumatic grease pump 50:1
Special pump mechanism
male quick release adapter (20 062)
2m flex grease hose (18 022)
trolley (17 004)
Dust cover, stabilising-fixing brackets
follower plate
high pressure grease gun (18 104)
Z-swivel joint (18 082)
Pressure reducing valve (pre-set 8 bar)



18417 051

18 419 051

description, as above, but
without trolley (17 004)



18419 051

HERMANN JAEGER GMBH - HAMBURG / GERMANY

PNEUMATIC PUMP 1 : 1

SRL 860, for 200/220 l container



Technical data	
Length suction tube:	860 mm
Connection, discharge side:	G 3/4" female
Connection container :	G 2" male, drum adapter
Compressed air connection :	G 1/4" female
Specification	
	Not calibratable
	Suction tube, G 1"
	to discharge low viscosity liquids, such as diesel, fuel /engine oil
Package	
Dimensions LxWxH (mm):	1310 x 190 x 195
Weight (kg):	6,85
Packing unit:	1



19135
for 200 l containers

Techical data pneumatic pump 1:1	
Total length of pump:	375 mm / 1200 mm
Maximum diameter:	130 mm
Motor weigh	4,3 kg
Pressure ratio:	1 : 1
Maximum air pressure:	10 bar
Minimum air pressure:	2 bar
Recommended air	8 bar
Stroke volume, motor:	220 cm³
Stroke volume, pump:	220 cm³
Stroke number at 8 bar	240 /min
Pump performance at 8 bar	66 l/min
Pump pressure at 8 bar	8 bar
Air consumption at 8 bar	450 l/min
Feeding pipeline length:	Depends on each single construction.
Maximum suction heighth:	6 m WS, G 1" suction tube
Airline connection:	G 1/4" female
Connection, suction side:	G 1" female
Connection, pressure side:	G 3/4" male
Noise level on no load, acc.	78 db (A) (2 m distance)
Noise level under load, acc.	77 db (A) (2 m distance)
General application areas:	out of original containers or bulk tanks
Classical application area:	Stationary wall-mounted, completey assembled with suction tube/hose set, hose reel and manual oil control valve with meter.
Viscosity of the medium to be dispensed:	For oils up to ISO VG 15 SAE 5
Classical medium to be	Diesel, fuel / engine oil



19135 600
for 200 l containers

HERMANN JAEGER GMBH - HAMBURG / GERMANY

PNEUMATIC PUMP 3:1

SRL 570, for 60 l container



19205
for 60 l containers

Technical data	
Length suction tube:	570 mm
Connection, discharge side:	G 1/2" male
Connection container :	G 2" male, barrel screw coupling
Compressed air connection :	G 1/4" female
Specification	
	Not calibratable
	Suction tube, G 3/4" male
	viscosity 90 SAE)
	strongly recommend the use of an overflow valve either
19648	16 bar, or
19506	20 bar
	Can be easily combined with several hose reels
Package	
Dimensions LxWxH (mm):	1000 x 195 x 190
Weight (kg):	6,68
Packing unit:	1

Techical data pneumatic pump 3:1	
Total length of pump:	360 mm / 1200 mm
Maximum diameter:	130 mm
Motor weight/total weight:	3,8 kg / 5,2 kg
Transmission ratio:	03:01
Maximum air pressure:	10 bar
Minimum air pressure:	2 bar
Recommended air	8 bar
Stroke volume, motor:	220 cm³
Stroke volume, pump:	70 cm³
Stroke number at 8 bar	260 /min
Pump performance at 8 bar	22 l/min
Pump pressure at 8 bar	24 bar
Air consumption at 8 bar	470 l/min
Feeding pipeline length:	Depends on each single construction.
Maximum suction heighth:	6 m WS, G 3/4" suction tube
Airline connection:	G 1/4" female
Connection, suction side:	G 3/4" female
Connection, pressure side:	G 1/2" male
Noise level on no load, acc.	78 db (A) (2 m distance)
Noise level under load, acc.	77 db (A) (2 m distance)
General application areas:	Pump for dispensing of engine-and hydraulic oils out of original containers or bulk tanks
Classical application area:	Stationary wall-mounted, completey assembled with suction tube/hose set, hose reel and manual oil control valve with meter.
Viscosity of the medium to	For oils up to SAE 90
Classical medium to be	Engine- and gear oils

19235
for 200/220 l containers

19235 390 INOX
for 200/220 l containers

19265
for bulk storage tanks

19285
for indepent wall mounting
using accessories 19512,
19521, 19522, 19523 or
19523 001

HERMANN JAEGER GMBH - HAMBURG / GERMANY

Hydraulic couplers, M 10 x 1 female resp. R1/8" female
with SF, Ø 15 mm



Technical data	
Connection 1:	for H-nipples
Connection 2:	M 10 x 1 female resp. R1/8" female
Design:	4 jaws, punched
SW:	13 mm
Material:	steel, galvanized
Diameter:	15 mm
Length:	36 mm
Weight:	0,03 kg
Package	
Dimensions LxWxH (mm):	160 x 100 x 65
Weight (kg):	3,16
Packing unit:	100



12631 - M10 x 1



12731 - G1/8"

High pressure hose, M 10 x 1 male resp. R1/8" male
11 x 300 mm, with spout

Technical data	
Connection high pressure	M 10 x 1 male resp. R1/8" male
Connection hydraulic coupler	for H-nipples
Burst pressure:	900 bar
Diameter:	15 mm
Length:	330 mm
Weight:	0,1 kg



12655 810-M10 x 1
12755 810-R1/8"

High pressure hose, M 10 x 1 male
8 x 300 mm, with 4-jaw coupler

Technical data	
Connection high pressure	M 10 x 1 male resp. R1/8" male
Connection hydraulic coupler	for H-nipples
Burst pressure:	900 bar
Diameter:	15 mm
Length:	330 mm
Weight:	0,064 kg



12656 810-M10 x 1
12756 810-R1/8"

HERMANN JAEGER GMBH - HAMBURG / GERMANY

Button head coupler, female

for button head grease nipple, 16 mm



Technical data	
Connection 1:	button head coupler, for button head grease nipples, flat design, 16 mm / 0,62", DIN 3404,M1 + T1
Connection 2:	M 10 x 1 female
Material:	steel, galvanized
Dimension LWH (mm):	30 x 22 x 20
Weight:	0,032 kg



Coupling, for M1- and T1-nipples

G 1/8" female

Technical data	
Connection 1:	button head coupler, for button head grease nipples, flat design, 16 mm / 0,62", DIN 3404,M1 + T1
Connection 2:	G 1/8" female
Location of coupling:	opposite to screw-in direction
Material:	steel, galvanized
Dimension LWH (mm):	35 x 25 x 17
Weight:	0,032 kg

12062-M10 x 1
12062 125-G 1/8"

Bayonet coupler, M 10 x 1 female resp. R1/8"

Technical data	
Connection 1:	for all bayonet type grease nipples, diameter of head: 9,9 mm
Connection 2:	M 10 x 1 female resp. R1/8"
Material:	steel, galvanized
SW:	14 mm
Diameter:	20 mm
Length:	41 mm
Weight:	0,05 kg



12013 - M10
12023 - G1/8"

Spout, angled, M 10 x 1 male resp. R1/8"

with 4 jaw hydraulic coupler

Technical data	
Connection spout	M 10 x 1 male resp. R1/8"
Connection hydraulic coupler (	for H-nipples
Material:	steel, galvanized
Diameter:	15 mm
Length:	180 mm
Weight:	0,063 kg



12635 810-M10 x 1
12735 810- G1/8"

HERMANN JAEGER GMBH - HAMBURG / GERMANY

Standard accessory set, G 1/8"



17020 125

Technical data	
Package:	robust sheet box, with Bar code
Threaded connectors:	G 1/8"
Dimension LWH (mm):	320 x 130 x 57
Weight:	1,3 kg
Specification	
	1 robust steel box 00 126
12731	2 hydraulic couplers, 4 jaws, G 1/8" female
12072	1 universal coupler, for H- and K-nipples, R 1/8" female,
12073	nipples
12074	1 button head coupler, for button head grease nipple, 16 mm
12755	1 high pressure hose, G 1/8" male, 11 x 300 mm
12735	3 spouts, angled, G 1/8" male, 150 mm
12475	1 spout, straight, G 1/8" male, 150 mm
12035805	1 angle 90°, G 1/8" female, G 1/8" male
12006125	1 quick release adapter, G 1/8" female
12016	1 reducing socket, G 1/8" female, M 10 x 1 male
15007	3 hydraulic grease nipples each: H1: M 6 x 1
15009	, M 8 x 1
15013	, M 10 x 1
15037	, G 1/8" male
15107140	3 hydraulic grease nipples each: H2: M 6 x 1
15109140	, M 8 x 1
Package	
Dimensions LxWxH (mm):	320 x 130 x 57
Weight (kg):	1,3
Packing unit:	1

Grease cartridge, 400 g, NLGI 2

acc. to DIN 1284

Temperature range :	from -30 °C up to +120 °C (for permanently lubricated bearings from -30 °C to +80 °C)
Diameter:	52 mm
Length:	240 mm
Package:	cartridge, with Bar code
Weight:	0,43 kg
Specification	Multi-purpose grease, for sliding and roller bearing lubrication, under high load: water-resistant, acid-free
Package	
Dimensions LxWxH (mm):	285 x 250 x 230
Weight (kg):	9,2
Packing unit:	20



12511



- 05133 Metal Oiler 250 ml w. plastic pump and superflex spout 210 mm
 05134 Metal Oiler 350 ml w. plastic pump and superflex spout 210 mm
 05135 Metal Oiler 500 ml w. plastic pump and superflex spout 210 mm



- 05223 Metal Oiler 250 ml w. brass pump and flexible and rigid spout
 05224 Metal Oiler 350 ml w. brass pump and flexible and rigid spout
 05225 Metal Oiler 500 ml w. brass pump and flexible and rigid spout
 05226 Metal Oiler 750 ml w. brass pump and flexible and rigid spout



- 05118 Plastic Oiler 350 ml transparent w. plastic pump and spout



- 05138 Plastic Oiler 350 ml transparent w. plastic pump and superflex spout
 05139 Plastic Oiler 500 ml transparent w. plastic pump and superflex spout



- 06266 Pump Sprayer 750 ml f. water only
 06267 Pump Sprayer 750 ml f. most chemical agents



06267

06266

- 02372 Plastic Funnel 160 mm Ø capacity 1.30 l w. strainer straight spout



- 02360 Plastic Funnel Set 4 pcs. Ø 50-75-100-120 mm



- 02674 Plastic Funnel Ø 160 mm capacity 1.3 l w. strainer and flex. spout

- 7520 Transparent Plastic Liquid Measure 0.5 l w. integral rigid spout
 7521 Transparent Plastic Liquid Measure 1.0 l w. integral rigid spout
 7522 Transparent Plastic Liquid Measure 2.0 l w. integral rigid spout
 7523 Transparent Plastic Liquid Measure 3.0 l w. integral rigid spout
 7525 Transparent Plastic Liquid Measure 5.0 l w. integral rigid spout



- 00328 Flexible Spout 160 mm f. 07520+07521
 00328950 Flexible Spout 160 mm f. 07522
 00238820 Flexible Spout 330 mm f. 07523+07525



00328

00238820

DE 3200 / 3300 / 3400 / 3500 / 3600 Brass version



Type	Rating 60% duty cycle	Electrode Ø	Welding cable ¹	Weight	Part No.	Order No.
DE 3200	200 A	2 - 4 mm	25 / 35 mm ²	240 g	3200	512.D255
DE 3300	300 A	2 - 5 mm	35 / 50 mm ²	450 g	3300	512.D256
DE 3400	400 A	4 - 6 mm	50 / 70 mm ²	510 g	3400	512.D257
DE 3500	500 A	4 - 8 mm	70 / 95 mm ²	540 g	3500	512.D258
DE 3600	600 A	4 - 10 mm	70 / 95 mm ²	580 g	3600	512.D259

¹ Welding cable is fastened by a cable socket.

The most important components of the Original KURT HAUFE Electrode Holder are identified and marked "Made in Germany".

Duty cycle rating is the maximum percentage of actual arc-time (out of any 10-minute period) that a holder should be expected to perform comfortably.

Duty cycle is the welder specification which defines the number of minutes, within a 10 minute period, during which a given welder can safely produce a particular welding current. (For example, with a 30% duty cycle welder, you have to wait 7 minutes for every 3 minutes of welding. or 60% = 4 minutes to wait for every 6 minutes of welding)

Haufe Electrode Holders	
Type	Electrode dia
DE3200	2-4 mm
DE3300	2-5 mm
DE3400	4-6 mm
DE3500	4-8 mm
DE3600	4-10 mm

Rating Duty Cycle		
60%	35%	25%
200 A	250 A	300 A
300 A	350 A	400 A
400 A	450 A	500 A
500 A	550 A	600 A
600 A	650 A	700 A

HERMANN JAEGER GMBH - HAMBURG / GERMANY

AULEKTRO DARK WELDING GLASSES DIN / EN

Made in Germany

acc. to EN 166



printed with :

AULEKTRO MADE IN GERMANY XX FW 2 EN

Protection / shades

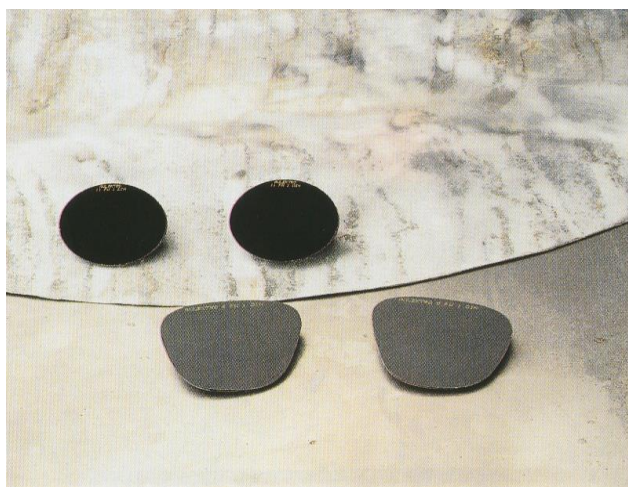
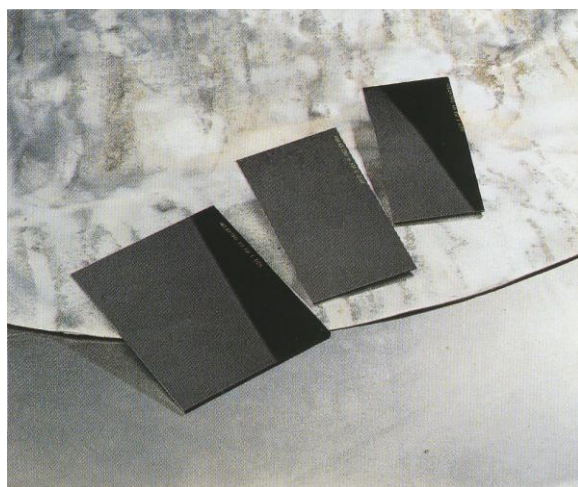
DIN 8 - 9 - 10 - 11 - 12 - 13 - 14
other DIN values on request

Sizes

49 x 101 mm
50,8 x 101 mm
50 x 105 mm
51 x 108 mm
83 x 108 mm
round 50 mm
other sizes on request

Packing

individually shrinked under clear PVC
in tear-off strips of 10 pcs.
100 pcs. per carton



Also available:

AULEKTRO Clear Glasses

for protection of the Dark Welding Glasses
either made of standard glass (thickness abt. 2 mm)
or made of special polycarbonate glass

Sizes:

same as for the Dark Welding Glasses



ANTOX 71E - Translucent Pickling Paste for Stainless Steels

Field of Application

The removal of high temperature oxide scale and annealing colours in the areas of welding seams and heat-influenced zones.

Application an Procedure

Before starting work, safety precautions must be observed and protective equipment made use of.

Antox 71E is to be stirred with a plastic or wood stirrer before use.

Antox 71E is to be painted generously on the pickling positions. The reaction time should be observed. Neutralization is then to be undertaken with Antox NP.

Upon completion, the processed surface is to be rinsed under cold water, using a high pressure water jet appliance (at min. 120 bar). The rinsing effect can be improved and enhanced by employing plastic or stainless steel wire brushes.

Application is best done with special pickling brushes or any brushes made of synthetic materials.

Reaction Time

Rust- and acid-resistant steels, stainless steel	15 - 60 minutes
Nickel and Nickel alloys	5 - 20 minutes
Copper-Nickel alloys	5 - 20 minutes

Yield

1 kg of Antox 71E is sufficient for approx. 50 - 80 running meters of weld seam.

Delivery Form

Antox 71E is standardly supplied in plastic bottles of 2 kg and in cartons of 6 bottles.

Other packing units are available on request.

Notes on hazards and suggestions for safety precautions

Antox 71E contains hydrofluoric acid and nitric acid.

For further information, please refer to the MSDS for Antox 71E.

Disposal

Neither Antox 71E nor the rinsing water should be disposed of in the public sewer in an untreated state. The waste water is acidic and contains metal oxides. The local waste water regulations have to be observed.



welding seam before using Antox



... and after using Antox

- ceramic heater
- 120 and 230 V available
- electrolytic copper bit (bent)
- 2-core lead or 3-core rubber lead
- wooden grip
- in a cardboard box

Lightweight Types

For wiring work and spot soldering. Especially suitable for hobbyists and handymen.



40W

technical specification
power: 40W
max. temp. of bit 370°C
warm up time: approx 8 min.
weight: 130g (without lead)
lead: approx. 1,5 m long
copper bit dia. 5mm

60W

technical specification
power: 60W
max. temp. of bit 370°C
warm up time: approx 8 min.
weight: 130g (without lead)
lead: approx. 1,5 m long
copper bit dia. 5mm

Medium Types

For thicker wiring and sheet-metal soldering. The ideal workshop tools.



75W

technical specification
power: 75W
max. temp. of bit 340°C
warm up time: approx 10 min.
weight: 220g (without lead)
lead: approx. 1,5 m long
copper bit dia. 7mm

100W

technical specification
power: 100W
max. temp. of bit 400°C
warm up time: approx 10 min.
weight: 220g (without lead)
lead: approx. 1,5 m long
copper bit dia. 7mm



150W

technical specification
power: 150W
max. temp. of bit 430°C
warm up time: approx 10 min.
weight: 220g (without lead)
lead: approx. 1,5 m long
copper bit dia. 9mm

200W

technical specification
power: 200W
max. temp. of bit 490°C
warm up time: approx 10 min.
weight: 220g (without lead)
lead: approx. 1,5 m long
copper bit dia. 9mm

Heavy-Duty Types

For heavy soldering work such as radiators, gutters, cables and commutators, etc.



250W

technical specification
power: 250W
max. temp. of bit 470°C
warm up time: approx 10 min.
weight: 640g (without lead)
lead: approx. 1,5 m long
copper bit dia. 15mm

300W

technical specification
power: 300W
max. temp. of bit 450°C
warm up time: approx 10 min.
weight: 710g (without lead)
lead: approx. 1,5 m long
copper bit dia. 24mm



400W

technical specification
power: 400W
max. temp. of bit 550°C
warm up time: approx 10 min.
weight: 790g (without lead)
lead: approx. 1,5 m long
copper bit dia. 24mm

500W

technical specification
power: 500W
max. temp. of bit 600°C
warm up time: approx 10 min.
weight: 790g (without lead)
lead: approx. 1,5 m long
copper bit dia. 24mm


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Soft solder rods

Acc. to DIN EN ISO 9453

Delivery form	Sizes	PU
Triangular rod	approx. 10 x 10 x 10 x 400 mm	25.0 kg
Pressed rod	approx. 8 x 10 x 400 mm	25.0 kg



Article No.	Alloy	Melting range	Description and application
12250122	S-Pb74Sn25Sb1	185 - 263 °C	Triangular rods, coachwork tin
12251000	S-Pb74Sn25Sb1	185 - 263 °C	Pressed rods, coachwork tin
12310120	S-Pb70Sn30	183 - 255 °C	Triangular rods, radiator construction, soldering of stainless steel
12360122	S-Pb65Sn35	183 - 245 °C	Triangular rod, lead cable sheath, zinc and zinc alloys
12410122	S-Pb60Sn40	183 - 235 °C	Roofing tin for copper and zinc gutters
12510120	S-Pb50Sn50Sb	185 - 216 °C	Roofing tin, general soldering in metal craft
12610120	S-Sn60Pb40Sb	183 - 190 °C	Roofing tin, general soldering in metal craft
12970120	S-Sn97Cu3	230 - 250 °C	Lead-free tin solder for copper gutters (w/o rivet joints), electronic solder
12940120	S-Sn99Cu1	227 - °C	Lead-free electronic solder*
5512941026	Sn100Ni+	227 - °C	Lead-free electronic solder*, minimum dealloying of iron / copper
12950120	S-Sn97Ag3	221 - 224 °C	Lead-free electronic solder*
12840120	S-Sn95,5Ag3,8Cu0,7	217 - °C	Lead-free electronic solder*
12990120	Sn99.9	232 - °C	Block tin
12911000	Sn92Cu8	230 - ca. 350 °C	Pressed rods, lead-free coachwork tin
13761000	Sn90Zn7Cu3	200 - 280 °C	Pressed rods, lead-free coachwork tin

Our lead-free solders comply with the directives of RoHS and thus ElektroG.

* All electronic solders are available in other delivery forms: 400 g rods (330x20x10 mm), 1.0 kg rods (330x20x20 mm), 3.5 kg blocks (545x47x20 mm).

Solder wire "Massiv"

(Without flux core)

Ø in mm	0.25 • 0.50 • 0.75 • 1.00 • 1.50 • 2.00 • 3.00 • 4.00
Spools	0.10 • 0.25 • 0.50 • 1.00 • 5.00 • 10.00 • 15.00 kg
Rings	1.00 • 5.00 kg



Alloy	DIN EN ISO 9453	DIN EN 61190	Melting range
Sn99.3Cu07	S-Sn99Cu1	Sn99Cu.7	227 °C eutectic
Sn100Ni+	S-Sn99Cu1 (NiGe)	Fuji Patent	227 °C eutectic
Sn97Cu3	S-Sn97Cu3	-	230 - 250 °C
Sn97Ag3	S-Sn97Ag3	-	221 - 224 °C
Sn95.5Ag3.8Cu0.7	S-Sn95Ag4Cu1	Sn96Ag04Cu0.7	217 °C eutectic
Sn99.9 (block tin)	-	Sn99	232 °C
Pb99.9 (lead)	-	-	327 °C
Sn60Pb40	S-Sn60Pb40	Sn60Pb40	183 - 190 °C
Sn50Pb50	S-Pb50Sn50	Sn50Pb50	183 - 215 °C
Pb60Sn40	S-Pb60Sn40	Sn40Pb60	183 - 238 °C



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Solder wire ISO-Core® "RA", "RA-05", "RA-AT"

Flux-cored, halide activated soft solder wire

Flux acc. DIN EN 29454.1, 1.1.2.B

or DIN EN 61190-1-3, ROM1

Standard solder wire for manual soldering in electrical engineering,
standard flux content 2.5 %

Halogen content RA: 1.0%, RA-05: < 0.5%, RA-AT: 1.5%



Ø in mm 0.25 • 0.50 • 0.75 • 1.00 • 1.50 • 2.00 • 3.00 • 4.00

Spools 0.10 • 0.25 • 0.50 • 1.00 • 5.00 • 10.00 • 15.00 kg

Alloy	DIN EN ISO 9453	DIN EN 61190	Melting range	Lead-free/lead-containing
Sn95.5Ag3.8Cu0.7	S-Sn95Ag4Cu1	Sn96Ag04Cu0.7	217 °C eutectic	Lead-free
Sn97Ag3	S-Sn97Ag3	-	221 - 224 °C	
Sn99.3Cu0.7	S-Sn99Cu1	Sn99Cu.7	227 °C eutectic	
Sn97Cu3	S-Sn97Cu3	-	230 - 250 °C	
Sn100Ni+	S-Sn99Cu1 (NiGe)	Fuji Patent	227 °C eutectic	
Sn60Pb40	S-Sn60Pb40	Sn60Pb40	183 - 190 °C	Lead-containing
Sn60Pb38Cu2	S-Sn60Pb39Cu1	Sn60Pb38Cu02	183 - 190 °C	
Pb50Sn50	S-Pb50Sn50	Sn50Pb50	183 - 215 °C	
Pb60Sn40	S-Pb60Sn40	Sn40Pb60	183 - 235 °C	
Pb70Sn30	S-Pb70Sn30	Sn30Pb70	183 - 255 °C	

Further alloys are available in our electronic delivery program.

Solder wire ISO-Core® "SP"

Flux-cored soft solder wire acc. to DIN EN ISO 9453

Flux acc. to DIN EN 29454.1, 2.1.3.B, standard 2.5 %.

For general soldering of copper and copper base alloys.



Ø in mm 1.00 • 1.50 • 2.00 • 3.00 • 4.00

Spools 0.10 • 0.25 • 0.50 • 1.00 • 5.00 • 10.00 • 15.00 kg

Alloy	DIN EN ISO 9453	DIN EN 61190	Melting range
Pb70Sn30	S-Pb70Sn30	Sn30Pb70	183 - 255 °C
Pb60Sn40	S-Pb60Sn40	Sn40Pb60	183 - 235 °C
Sn60Pb40	S-Sn60Pb40	Sn60Pb40	183 - 190 °C
Sn97Cu3	S-Sn97Cu3	Sn97Cu3	230 - 250 °C

Other alloys, sizes and delivery forms are available upon request.



Solder wire ISO-Core® "EL"

Flux-cored, halide-free activated soft solder wire

Flux acc. DIN EN 29454.1, 1.1.3.B

or DIN EN 61190-1-3, ROLO.

No-clean standard solder wire for manual soldering in electronics, standard flux content 3.5%.



Ø in mm 0.25 • 0.50 • 0.75 • 1.00 • 1.50 • 2.00 • 3.00 • 4.00

Spools 0.10 • 0.25 • 0.50 • 1.00 • 5.00 • 10.00 • 15.00 kg

Alloy	DIN EN ISO 9453	DIN EN 61190	Melting range	Lead-free/lead-containing
Sn95.5Ag3.8Cu0.7	S-Sn95Ag4Cu1	Sn96Ag04Cu0.7	217 °C eutectic	Lead-free
Sn97Ag3	S-Sn97Ag3	-	221 - 224 °C	
Sn99.3Cu0.7	S-Sn99Cu1	Sn99Cu.7	227 °C eutectic	
Sn97Cu3	S-Sn97Cu3	-	230 - 250 °C	
Sn100Ni+	S-Sn99Cu1 (NiGe)	Fuji Patent	227 °C eutectic	Lead-containing
Sn60Pb40	S-Sn60Pb40	Sn60Pb40	183 - 190 °C	
Sn60Pb38Cu2	S-Sn60Pb39Cu1	Sn60Pb38Cu02	183 - 215 °C	
Pb60Sn40	S-Pb60Sn40	Sn40Pb60	183 - 235 °C	

Further alloys are available in our electronic delivery program.

No-clean soft solder wire for very demanding applications in electronics and electrical engineering

The fluxing agents are characterised by their high thermal stability and the fact that they do not spatter during reflow!

The light, solid flux residues of these solder wires do not cause corrosion with nonferrous metals and offer maximum surface resistance values. As a result, they do not have to be removed from the soldered joint.

The EL and ELR grades have been qualified by Siemens Berlin (Certification Body CT MM6) in connection with the lead-free alloy Sn95.5Ag3.8Cu0.7.

Other available, halide-free activated solder wires according to DIN EN 29454.1, 1.2.3.B or 2.2.3.B, respectively:

ISO-Core® "ELR"

Low-residue no-clean SMD solder wire, standard flux content 1.0 %.
Specifically adapted to the requirements of resoldering work on SMD-equipped modules.
Flux acc. to DIN EN 29454.1, 2.2.3.B or DIN EN 61190-1-3

ISO-Core® "ELS"

No-clean electronic grade solder wire based on synthetic resins, standard flux content 1.0 %.
Flux acc. to DIN EN 29454.1, 1.2.3.B or DIN EN 61190-1-3



Fitting solder Cu-Rotin®3

For the soft-soldering of copper pipes in drinking water and heating installations (up to 110 °C)

Predominantly in connection with our fitting solder paste Cu-Rotifix®3-Spezial in accordance with DVGW-Arbeitsblatt GW 2 [worksheet] awarded the RAL mark of quality of Gütegemeinschaft Kupferrohr e.V.



Article No.	Delivery form	PU	Diameter	Alloy	Melting range
14972010	0.100 kg spools	100 pcs.	2.00 mm	S-Sn97Cu3	230 - 250 °C
149720201	0.250 kg spools	50 pcs.	2.00 mm	S-Sn97Cu3	230 - 250 °C
14972710	0.100 kg spools	100 pcs.	2.70 mm	S-Sn97Cu3	230 - 250 °C
149727201	0.250 kg spools	50 pcs.	2.70 mm	S-Sn97Cu3	230 - 250 °C
14973020	0.250 kg spools	50 pcs.	3.00 mm	S-Sn97Cu3	230 - 250 °C

Other sizes and delivery forms are available upon request.

Fitting solder Cu-Rotin®4

For the soft-soldering of copper pipes in drinking water and heating installations (up to 110 °C)

Predominantly in connection with our fitting solder paste Cu-Rotifix®4-Spezial in accordance with DVGW-Arbeitsblatt GW 2 [worksheet] awarded the RAL mark of quality of Gütegemeinschaft Kupferrohr e.V.

Also suited for the soldering of steel and stainless steel in connection with our solder oil "ST" or solder liquid "VA-NOX" (page 19)!



Article No.	Delivery form	PU	Diameter	Alloy	Melting range
14952010	0.100 kg spools	100 pcs.	2.00 mm	S-Sn97Ag3	221 - 224 °C
14952020	0.250 kg spools	50 pcs.	2.00 mm	S-Sn97Ag3	221 - 224 °C
14953010	0.100 kg spools	100 pcs.	3.00 mm	S-Sn97Ag3	221 - 224 °C
14953020	0.250 kg spools	50 pcs.	3.00 mm	S-Sn97Ag3	221 - 224 °C

Other sizes and delivery forms are available upon request.



Fitting solder paste Cu-Rofix®3-Special

For the soft-soldering of copper pipes in drinking water and heating installations

DIN EN ISO 9453, S-Sn97Cu3, DIN EN 29454.1, 3.1.1.C (F-SW 21)
in accordance with DVGW-Arbeitsblatt [worksheet] GW7, awarded the RAL mark of quality of Gütegemeinschaft Kupferrohr e.V.
Metal content at least 60 %. The flux residues are soluble in cold water and can be easily removed through rinsing.
DVGW mark of conformity: DV-0101 AT 2247



Article No.	Delivery form	PU	Alloy	Melting range
229760501	0.100 kg	100 pcs.	S-Sn97Cu3	230 - 250 °C
229760551	0.250 kg jar with brush holder	50 pcs.	S-Sn97Cu3	230 - 250 °C

Fitting solder paste Cu-Rofix®4-Special /Cu-Rofix®4

For the soft-soldering of copper pipes in drinking water and heating installations

DIN EN ISO 9453, S-Sn97Ag3, DIN EN 29454.1, 3.1.1.C (F-SW 21)
in accordance with DVGW-Arbeitsblatt [worksheet] GW7, awarded the RAL mark of quality of Gütegemeinschaft Kupferrohr e.V.
Metal content at least 60 %. The flux residues are soluble in cold water and can be easily removed through rinsing.
DVGW mark of conformity: DV-0101 BR 5781



Cu-Rofix®4-Special

Article No.	Delivery form	PU	Alloy	Melting range
229560501	0.100 kg jar	100 pcs.	S-Sn97Ag3	221 - 240 °C
229560551	0.250 kg jar with brush holder	50 pcs.	S-Sn97Ag3	221 - 240 °C

Cu-Rofix®4

Article No.	Delivery form	PU	Alloy	Melting range
22956055	0.250 kg jar	50 pcs.	S-Sn97Ag3	221 - 240 °C



Soft solder and tinning paste

For the tinning of car body sheeting, among other things

Alloys according to DIN EN ISO 9453,

Flux according to DIN EN 29454.1, 3.1.1.C (F-SW 21), metal content 60 - 70%
ready-to-use metal paste

PU	Delivery form	Contents
50 pcs.	Bottle	0.100 kg
45 pcs.	Bottle	0.250 kg
30 pcs.	Bottle	0.500 kg
15 pcs.	Bottle	1.000 kg
10 pcs.	Can with brush insert	1.000 kg



Alloy	Melting range	Comments
S-Pb74Sn25Sb1	186 - 260 °C	Only available in 1.000 kg bottle
S-Pb60Sn40	183 - 215 °C	
S-Sn60Pb40	183 - 190 °C	
S-Sn97Cu3	230 - 250 °C	Lead-free - RoHS-compliant
S-Sn99.9%	232 °C	Lead-free - RoHS-compliant

Solder oil "ST"

Flux for soft soldering of steel and stainless steel

DIN EN 29454.1, 3.2.2.A (F-SW11)

For soft soldering of stainless steel we recommend using our
ISO-Core® "VA" flux-cored solder wire.

Article No.	Delivery form	PU	Description
24100051	Bottle	100 pcs.	100 ml bottle with brush insert
24100056	Bottle	45 pcs.	250 ml bottle
24100061	Bottle	20 pcs.	500 ml bottle
24100022	Simple-fix	12 pcs.	25 ml Simple-fix



Aluminium soft solder flux

Flux for soft soldering of aluminium and aluminium base alloys

DIN EN 29454.1, 2.1.2.C (F-LW 2)



Article No.	PU	Contents	Delivery form	Effective temperature
24510050	100 pcs.	0.100 kg	Bottle	200 - 300 °C
24510055	45 pcs.	0.250 kg	Bottle	200 - 300 °C
24510060	30 pcs.	0.500 kg	Bottle	200 - 300 °C
24510070	15 pcs.	1.000 kg	Bottle	200 - 300 °C



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Solder liquid

Flux for general soldering to all metallic surfaces except aluminium and stainless steel.

DIN EN 29454.1, 3.1.1.A (F-SW 12)



Article No.	Delivery form	PU	Comments
24220021	Bottle	100 pcs.	25 ml bottle with brush insert
24220036	Bottle	100 pcs.	50 ml bottle with brush insert
24220051	Bottle	100 pcs.	100 ml bottle
24220056	Bottle	45 pcs.	250 ml bottle
24220061	Bottle	20 pcs.	500 ml bottle
24220071	Bottle	15 pcs.	1000 ml bottle
24220086	Canister	1 pce.	25.000 l canister

Solder grease

Flux for general soft soldering to copper and copper base alloys.

DIN EN 29454.1, 3.1.1.C (F-SW 21)



Article No.	Delivery form	PU	Comments
24310010	Jar	200 pcs.	20 g can
243100351	Jar	200 pcs.	50 g can
243100501	Jar	150 pcs.	100 g can
243100551	Jar	50 pcs.	250 g can
24310060	Bottle	25 pcs.	0.500 kg bottle
24310070	Bottle	16 pcs.	1.000 kg bottle
24310075	Bucket	1 pce.	5.000 kg bucket



Hard solder powder “UNIVERSAL”

For hard soldering of copper, copper base alloys and steel as well as for the welding of brass

DIN EN 1045 - FH 21, effective temperature: 800-1100 °C

To be used in combination with hard solders that have working temperatures higher than 800 °C.

Article No.	PU	Delivery form
26200050	50 pcs.	0.100 kg jar
26200055	50 pcs.	0.250 kg jar
26200060	25 pcs.	0.500 kg jar
26200070	16 pcs.	1.000 kg jar



Strewing powder for hardening of steel

Nitrogen-hardening powder for hardening of iron and unalloyed steels

Effective temperature: from 800 °C

Article No.	PU	Delivery form
26510060	25 pcs.	0.500 kg jar
26510070	16 pcs.	1.000 kg jar



Aluminium hard solder powder “Nr.1”

Flux for hard soldering and welding of aluminium and aluminium base alloys, based on hygroscopic fluorides

DIN EN 1045 - FH 10, effective temperature: 480-750 °C

Article No.	PU	Delivery form
26400050	50 pcs.	0.100 kg jar
26400055	50 pcs.	0.250 kg jar
26400060	25 pcs.	0.500 kg jar
26400070	16 pcs.	1.000 kg jar



Flux for silver solders “CuFe Nr. 1”

Hard solder paste for soldering of copper, copper base alloys, steel and stainless steel

Paste, DIN EN 1045 - FH 10, effective temperature: 500-800 °C

Article No.	PU	Delivery form
261000501	50 pcs.	0.100 kg jar
261000551	50 pcs.	0.250 kg jar
261000601	25 pcs.	0.500 kg jar
261000701	16 pcs.	1.000 kg jar





Copper hard solder Cu-Rophos®



Product name	DIN EN ISO 17672	Composition (weight %)			Working temperature	Tensile strength of the soldering (N/mm ²)	Density (g/cm ³)	Applica- tion range in °C	For hard soldering of the following base materials
		Ag	Cu	P					
Cu-Rophos®94 (CP 203)	CuP179	-	94	6	760 °C	250	8.1	-50 to +150	Copper to copper (without flux)
Cu-Rophos®93 (CP 202)	CuP181	-	93	7	730 °C	250	8.1		Brass, red brass and copper/tin alloys with flux for silver solders Cu-Rosil®
Cu-Rophos®92 (CP 201)	CuP182	-	92	8	720 °C	250	8.0		
Cu-Rophos®2 (CP 105)	CuP279	2	91.5	6.5	740 °C	250	8.1	-50 to +150	Not to be used with sulphurous materials
Cu-Rophos®5 (CP 104)	CuP281	5	89	6	710 °C	250	8.2	-50 to +150	Heat-resistant up to 200 °C
Cu-Rophos®15 (CP 102)	CuP284	15	80	5	700 °C	250	8.4	-70 to +150	
Cu-Rophos®18 (CP 101)	CuP286	18	75	7	650 °C	250	8.4		

Other alloys and sizes are available upon request.

Delivery form

500 mm rods, 1 kg manufacturing rings, wire on spools, strips 0.05 mm thick and up, max. width 70 mm, preforms from wire, as rings or cuts, preforms from strip, as small plates or discs.

Sizes

1.5 mm • 2.0 mm
3.0 mm • 4.0 mm

Cu-Rophos® - NanoTech

We also provide the copper hard solders Cu-Rophos® 94 - 2 - 5 - 15 in the quality of "NanoTech". The phosphorous content in the solder is precisely distributed in defined micro-particles through a special production process. As a result, the hard solder provides the specific advantages of the NanoTech alloys.

- Excellent wetting effect
- Splash-free drainage
- Non-porous soldered joints





Cadmium-free silver hard solders



Delivery form

Sizes

500 mm rods, 1 kg manufacturing rings,
wire on spools, preformed solders

Flux-coated as per DIN EN 1045 - FH10
diameter greater than 1.5 mm

1.0 mm

1.5 mm

2.0 mm

3.0 mm

Product name	DIN EN ISO 17672	Composition (weight %)					Working temperature	Tensile strength of the soldering (N/mm ²)	Density (g/cm ³)	For hard soldering of the following base materials
		Ag	Cu	Zn	Ni	Rest				
AG 207 (L-Ag12)	Ag 212	12	48	40	-	-	830	400	8.5	Steel, copper, copper base alloys, nickel, nickel base alloys, malleable cast iron
AG 206 (L-Ag20)	BCu44ZnAg(Si) ISO 3677	20	45	35	-	-	810	400	8.7	
AG 205 (L-Ag25)	Ag 225	25	40	35	-	-	780	400	8.8	
AG 203 (L-Ag44)	Ag 244	44	30	26	-	-	730	450	9.1	Steel, copper, copper base alloys, nickel, nickel base alloys, malleable cast iron heat-resistant up to 200 °C
AG 107 (L-Ag30Sn)	Ag 130	30	36	32	-	2 Sn	740	430	8.8	
AG 106 (L-Ag34Sn)	Ag 134	34	36	27.5	-	2.5 Sn	710	430	9.0	
AG 105 (L-Ag40Sn)	Ag 140	40	30	28	-	2 Sn	690	400	9.1	
AG 104 (L-Ag45Sn)	Ag 145	45	27	25.5	-	2.5 Sn	670	400	9.2	
AG 102* (L-Ag55Sn)	Ag 156	56	22	17	-	5 Sn	650	400	9.4	*Partly suitable for stainless steel
Ag 502 (L-Ag49)	Ag 449	49	16	23	7.5	4.5 Mn	690	300	8.9	Hard metal to steel, tungsten and molybdenum materials
Ag 401 (L-Ag72)	Ag 272	72	28	-	-	-	780	340	10.0	Steel, stainless steel, nickel and nickel base alloys
Ag 403 (L-Ag56InNi)	B-Ag56CuInNi ISO 3677	56	26	-	4	14 In	730	300	9.5	



Cadmium-containing silver hard solders

Article name DIN EN 1044	ISO 3677	Composition (weight %)					Working temperature (°C)	Tensile strength of soldering (N/mm²)	Density (g/cm³)	For hard soldering of following base materials
		Ag	Cu	Zn	Cd	Ni				
AG 309 (L-Ag20Cd)	B-Cu40ZnAgCd 605/765	20	40	25	15	-	750	410	8.8	Steel, precious metals, copper, copper base alloys, nickel, nickel base alloys heat resistant up to 200 °C
AG 306 (L-Ag30Cd)	B-Ag30CuCdZn 600/690	30	28	21	21	-	680	420	9.2	
AG 305 (L-Ag34Cd)	B-Ag35ZnCuCd 610/700	34	22	24	20	-	640	430	9.1	
AG 304 (L-Ag40Cd)	B-Ag40ZnCdCu 595/630	40	19	21	20	-	610	450	9.3	

Our cadmium-free and cadmium-containing silver hard solders are available in the above sizes. Except for the alloys AG 205 (L-Ag25), AG 502 (L-Ag49) and AG 401 (L-Ag72), we coat our silver solders with diameter exceeding 1.5 mm with FH10 flux according to DIN EN 1045.

Brass hard solder

Brass hard solder "UM"

For hard soldering of copper, nickel and steel as well as for welding of brass and bronze

ISO 3677, B-Cu60Zn(Si)(Mn), DIN EN ISO 17672, Cu 670 (formerly L-CuZn40, DIN 8513), working temperature approx. 900 °C
flux-coated according to DIN EN 1045 - FH 21



Article No.	PU	Size	Description
30012050	5 kg	2.00 mm x 500 mm	Flux-coated rods
30012550	5 kg	2.50 mm x 500 mm	Flux-coated rods
30013050	5 kg	3.00 mm x 500 mm	Flux-coated rods
30014050	5 kg	4.00 mm x 500 mm	Flux-coated rods

Special brass hard solder "UM"

For hard soldering of copper, nickel and steel as well as for welding of brass and bronze

ISO 3677, B-Cu59ZnSn(Ni)(Mn)(Si), DIN EN ISO 17672, Cu 681 (formerly L-CuZn39Sn, DIN 8513), working temperature approx. 900 °C
flux-coated, DIN EN 1045 - FH 21

-Especially suited for hard soldering of galvanised sheet steel-

Article No.	PU	Size	Description
30112050	5 kg	2.00 mm x 500 mm	Flux-coated rods
30112550	5 kg	2.50 mm x 500 mm	Flux-coated rods
30113050	5 kg	3.00 mm x 500 mm	Flux-coated rods



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