

Need a product urgently?

CALL US: +65 6294 6388

EMAIL: cmltc@singnet.com.sg

VISIT US: 75 Rowell Road, Singapore 208011

OPENING HOURS: Monday-Friday, 9.00AM – 5.30PM

Why choose Chan Man Lee?

- ✓ Ready stock of 25,000 products
- ✓ No MOQ required for majority of our products
- ✓ Product pickup ready in 10 minutes~1 working day
- ✓ Certified/authorised distributor for over 30 brands
- ✓ Only supplies products from well-known, esteemed brands
- ✓ Only genuine, authentic, factory-original products
- ✓ Technical knowledge on product codes (IMPA, sizing, etc.)

HERMANN JAEGER GMBH - HAMBURG / GERMANY



TOOLS - 1010.7

HERMANN JAEGER GMBH
P.O.Box 50 07 52
D-22707 HAMBURG / GERMANY

Bugdahnstr. 5
D-22767 HAMBURG / GERMANY

Fax ++49 40 38 75 23
Telephone ++ 49 40 30 69 27 0

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



HERMANN JAEGER GMBH - HAMBURG / GERMANY

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



HERMANN JAEGER GMBH - HAMBURG / GERMANY

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 |



HERMANN JAEGER GMBH - HAMBURG / GERMANY

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.

HERMANN JAEGER GMBH - HAMBURG / GERMANY

GRIP WITH WIRE CUTER

| Order No. | Length | Weight | Capacity | |
|-----------|-------------------|--------|-----------------|---|
| 0100-0104 | 110 mm 4.5/16" | 110 g | 22 mm 7/8" | No. 10-110 No. 10-140 No. 10-180 No. 10-250 No. 10-300 |
| 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" | |
| 0100-0110 | 250 mm 10" | 545 g | 50 mm 2" | |
| 0100-0112 | 300 mm 12" | 900 g | 65 mm 2.1/2" | |



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 No. 12-250 No. 12-300 |
| 0110-0125 | 250 mm 10" | 555 g | 35mm 1.3/8" | |
| 0110-0130 | 300 mm 12" | 900 g | 50mm 2" | |



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 No. 20-250 |
| 0200-0210 | 250 mm 10" | 510g | 40 mm 1.1/2" | |



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 No. 25-250 |
| 0250-0252 | 250 mm 10" | 575 g | 50 mm 2" | |



Combined jaw shape.

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

HERMANN JAEGER GMBH - HAMBURG / GERMANY

CHAIN-GRIP-PLIER

| Order No. | Length | Weight | Capacity | |
|-------------|--------|--------|----------|--------------------|
| | 250 mm | | 150 mm | No. 28-250 |
| 0280-0280 | 10" | 930 g | 6" | |
| Spare Chain | | | 150 mm | No. 28-1280 |
| 0280-1280 | | 315 g | 6" | |



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

WELDING-GRIP

| Order No. | Length | Weight | Capacity | |
|-----------|--------|--------|----------|---------------------|
| | 280 mm | | 60 mm | No. 30-280sj |
| 0300-0300 | 11" | 790 g | 2.3/8" | |

with steel jaws



| Order No. | Length | Weight | Capacity | |
|-----------|--------|--------|----------|---------------------|
| | 280 mm | | 70 mm | No. 30-250cj |
| 0300-0301 | 11" | 935 g | 2.3/4" | |

with malleable cast iron jaws



GRIP FOR TUBES

| Order No. | Length | Weight | Capacity | |
|-----------|--------|--------|-------------|---------------------|
| | 280 mm | | 10-90 mm | No. 32-280sj |
| 0320-0320 | 11" | 790 g | 3/4"-3.1/2" | |

with steel jaws



| Order No. | Length | Weight | Capacity | |
|-----------|--------|--------|-------------|---------------------|
| | 280 mm | | 10-90 mm | No. 32-280cj |
| 0320-0321 | 11" | 935 g | 3/4"-3.1/2" | |

with malleable cast iron jaws



C-CLAMP-GRIP

| Order No. | Length | Weight | Capacity | |
|-----------|--------|--------|----------|-------------------|
| | 175 mm | | 50 mm | No. 34-175 |
| 0340-0340 | 7" | 235 g | 2" | |
| | 280 mm | | 90 mm | No. 34-280 |
| 0340-0341 | 11" | 710 g | 3.1/2" | |



| Order No. | Length | Weight | Capacity | |
|-----------|--------|--------|----------|-------------------|
| | 460 mm | | 220 mm | No. 34-460 |
| 0340-0342 | 18" | 1090 g | 9.1/2" | |
| | 600 mm | | 320 mm | No. 34-600 |
| 0340-0343 | 24" | 1345 g | 12.1/2" | |



| Order No. | Length | Weight | Capacity | |
|-----------|--------|--------|----------|-------------------|
| | 500 mm | | 350 mm | No. 34-500 |
| 0340-0344 | 20" | 1520 g | 13.3/4" | |



Application field: ideal for bulky workpieces

HERMANN JAEGER GMBH - HAMBURG / GERMANY

PARALLEL-C-CLAMP-GRIP

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

No. 35-175

No. 35-280

with moveable jaws



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

No. 35-460

No. 35-600

with moveable jaws



| Order No. | Protective caps, pair |
|-----------|-----------------------|
| 0350-0355 | |

No. 0350-0355



LONG-NOSE-GRIP

| Order No. | Length | Weight | Capacity |
|-----------|--------|--------|----------|
| 0360-0364 | 130 mm | 115 g | 30 mm |
| | 5" | | 1.3/16" |
| 0360-0360 | 165 mm | 190 g | 40 mm |
| | 6.1/2" | | 1.1/2" |
| 0360-0361 | 240 mm | 380 g | 55 mm |
| | 9.1/2" | | 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 | 470 g | 45 mm |
| | 7" | | 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 | 500 g | 25mm |
| | 10" | | 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



HERMANN JAEGER GMBH - HAMBURG / GERMANY

| FITTINGS WRENCH | | | |
|------------------------|------------------------|--------|----------|
| Order No. | Length | Weight | Capacity |
| 0450-0800 | 275 mm | 700 g | 60mm |
| | 11" | | 2.3/8" |
| | burnished | | |
| | No. 80-275bu | | |
| 0450-0802 | 275 mm | 700 g | 60mm |
| | 11" | | 2.3/8" |
| | chromium-plated | | |
| | No. 80-275cp | | |
| 0450-0820 | Protective jaw set | | |
| | 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 | | |
| | No. 50 | | |
| 0500-0510 | 290 mm | 1290 g | 40 - 225 mm |
| | 11.1/2" | | 1.3/4 - 9" |
| | with straight and curved jaws | | |
| | 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.)



HERMANN JAEGER GMBH - HAMBURG / GERMANY

PISTON-RING-PLIER

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

No. 60/1

No. 60/2



Bright nickel plated, handles plastic-coated.

Application field: dismounting and fitting piston rings.

PISTON-RING-COMPRESSOR

| Order No. | Height | Weight | Capacity |
|-----------|-------------|--------|--------------------------|
| 0700-0700 | 50 mm 2" | 115 g | 40 - 75 mm 1.1/2 - 3" |

No. 70/0

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" |
| 0700-0711 | 100 mm 4" | 265 g | 57 - 125 mm 2.1/4 - 5" |
| 0700-0702 | 80 mm 3" | 285 g | 90 - 175 mm 3.1/2 - 7" |
| 0700-0721 | 100 mm 4" | 310 g | 90 - 175 mm 3.1/2 - 7" |

No. 70/1

No. 70/1a

No. 70/2

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

No. 74/1

No. 74/2

No. 74/1E

No. 74/2E



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

Application field: motor vehicle, bathroom area

HERMANN JAEGER GMBH - HAMBURG / GERMANY

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



HERMANN JAEGER GMBH - HAMBURG / GERMANY

| 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 |

No. 350



Bright nickel-plated

| 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 | Safety-tube-exchanger |
| 0950-3761 | Tube-exchange-set 2,0/2,5/3,0/3,5/4,0/4,5 mm |
| 0950-3762 | Tube-enlargement-set 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

HERMANN JAEGER GMBH - HAMBURG / GERMANY

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 hdls.



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 hdls. 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



PLIERS

Please see WILL main catalogue

























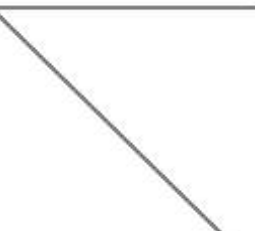






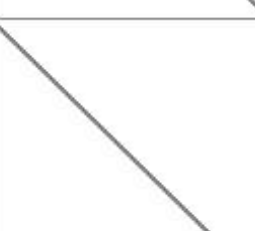


Oberflächenfinish und Griffgestaltung
Finish and handle design

| | 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

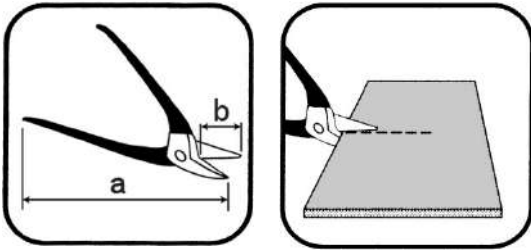


No. 74800 - BERGER Telescopic handle, alu., 3-parts, 1.75 - 4.65 m adjustable, min. 1.75 m

BERGER

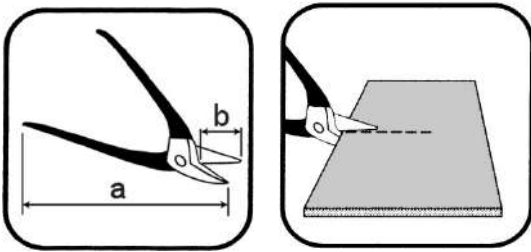
Gardening Tools - Made in Germany

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.

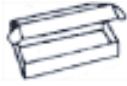
8 pcs.

| | |
|---------------|----------------|
| 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

| | | | |
|---------|-----|-----|----|
| 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 |

MADE IN GERMANY



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.

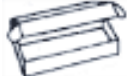
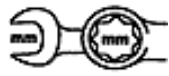
12 pcs.

| | | | |
|---------|---------|---------|---------|
| 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

| | | | |
|--------|-----|-----|----|
| 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 |



INCH s



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

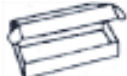
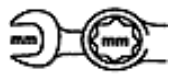
| | | |
|----------|----------------|--------------------------------|
| 08-17 mm | 6 pcs. | 8, 10, 11, 13, 15, 17 |
| 08-19 mm | 8 pcs. | 8, 9, 10, 11, 13, 15, 17, 19 |
| 06-22 mm | 12 pcs. | 6, 8 - 15, 17, 19, 22 |
| 06-22 mm | 12 pcs. | 6 - 11, 13, 14, 15, 17, 19, 22 |

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

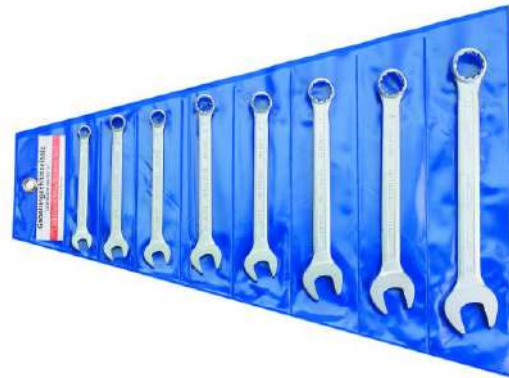


WIESEMANN

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 |



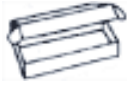
No. 600



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.



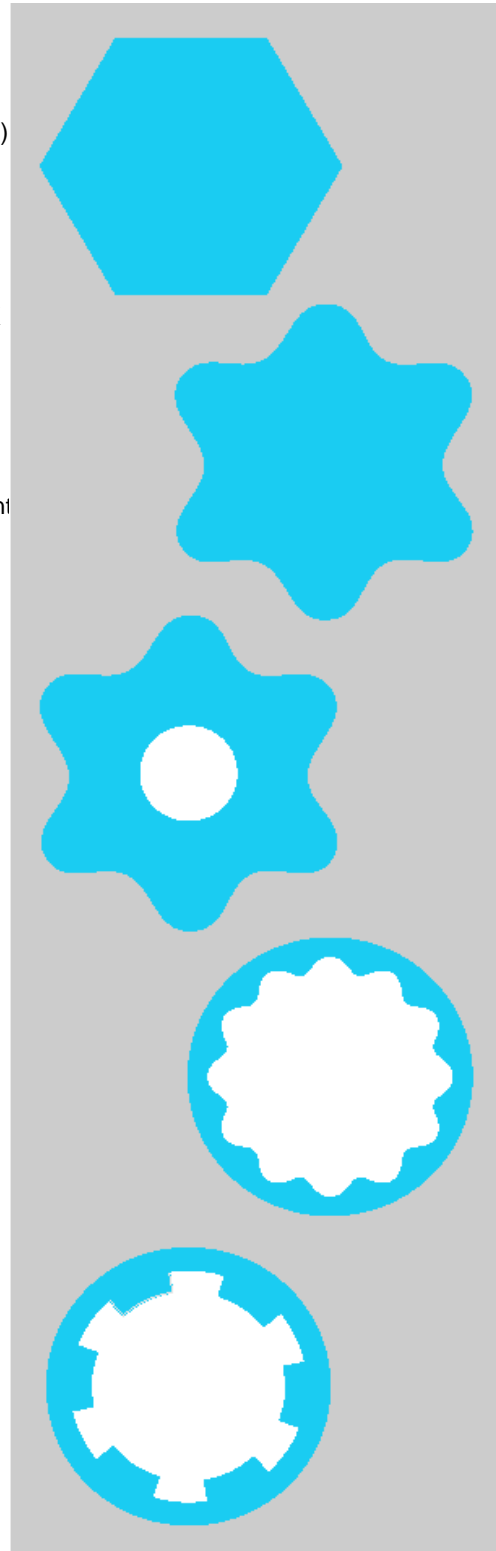
Spline Key

Ribe-Spline Key

Special Tools

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

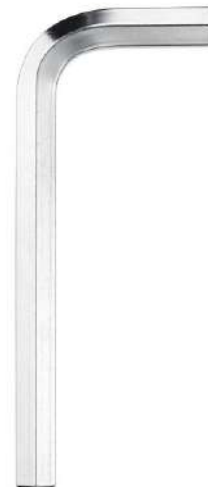
Reduction; double bending; special surfaces.



200 Hexagon Key Wrenches ISO 2936

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

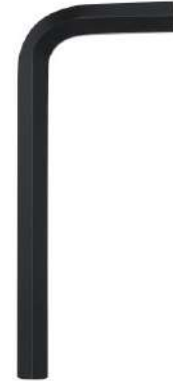
| Order-No. black | Order-No. nickel pl. | mm | L1 L2 | |
|--------------------|-------------------------|-----|-------------|------|
| 200-007-01 | | 0.7 | 33 x 7 | 100 |
| 200-009-01 | | 0.9 | 33 x 11 | 100 |
| 200-015-01 | 200-015-02 | 1.5 | 46.5 x 15.5 | 100 |
| 200-020-01 | 200-020-02 | 2 | 52 x 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.

225-166-01 225-166-02 **2-6 mm**
225-180-01 225-180-02 **2-10 mm**

Series 225

2-2.5-3-4-5-6 = 6-pce.
2-2.5-3-4-5-6-8-10 = 8-pce.



Order-No.
black

Order-No.
nickel pl.

230-166-01 230-166-02 **2-6 mm**
230-180-01 230-180-02 **2-10 mm**
230-104-01 230-104-02 **2-14 mm**

Series 230

2-2.5-3-4-5-6 = 6-pce.
2-2.5-3-4-5-6-8-10 = 8-pce.
2-2.5-3-4-5-6-8-10-12-14 = 10-pce.



Order-No.
black

Order-No.
nickel pl.

231-180-01 231-180-02 **2-10 mm**

Series 231

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.

225-264-51 225-264-52 **5/64-1/4"**

Series 225

5/64-3/32-1/8-5/32-3/16-1/4 = 6-pce.
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.

230-284-51 230-284-52 **0.05-1/4"**

Series 230

0.05-1/16-5/64-3/32-1/8-5/32-3/16-1/4 = 8-pce.
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.

231-288-51 231-288-52 **5/64-3/8"**

Series 231

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

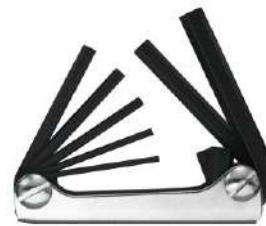


Series 238 - red = metric / yellow = inch



series 270

Series 208 - red = metric / yellow = inch



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

Quality Tools


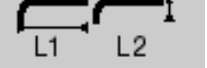






Made in Germany

Hexagon – metric

210 Hexagon Key Wrenches ISO 2936 L, extra long

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

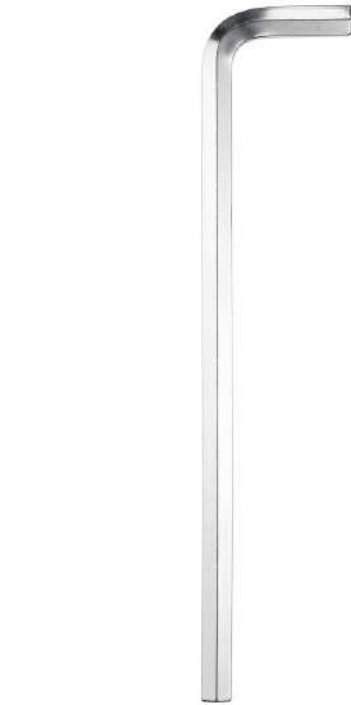
| Order-No. black | Order-No. nickel pl. |  mm |  L1 L2 |  |
|--------------------|-------------------------|---|--|--|
| 210-015-01 | 210-015-02 | 1.5 | 91.5 x 15.5 | 50 |
| 210-020-01 | 210-020-02 | 2 | 102 x 18 | 50 |
| 210-025-01 | 210-025-02 | 2.5 | 114.5 x 20.5 | 50 |
| 210-030-01 | 210-030-02 | 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 20.5 | 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. |





Hexagon - inch

210 Hexagon Key Wrenches ISO 2936 L, extra long

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

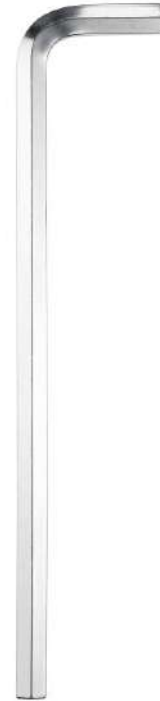
| Order-No. black | Order-No. nickel pl. | A.F. = mm | L1 | L2 | |
|--------------------|-------------------------|--------------|-----------|----|------|
| 210-116-51 | 210-116-52 | 1/16 = 1.59 | 92 x 16 | | 50 |
| 210-564-51 | 210-564-52 | 5/64 = 1.98 | 102 x 18 | | 50 |
| 210-332-51 | 210-332-52 | 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. |



HERMANN JAEGER GMBH - HAMBURG / GERMANY



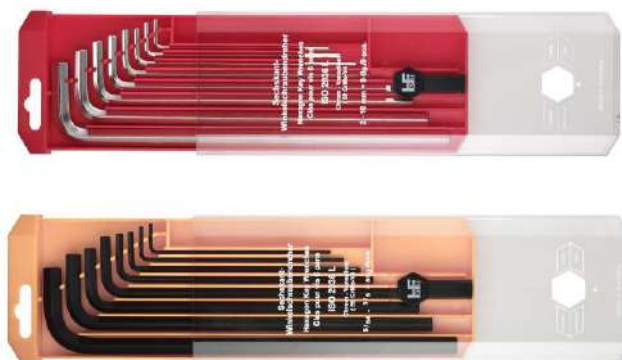
Series 211 - red = metric / yellow = inch



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




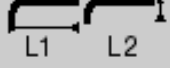

Series 217

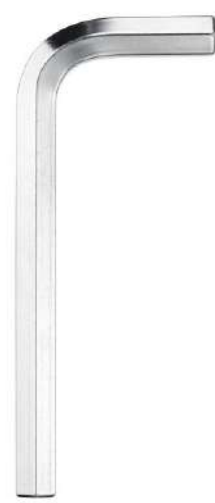


Series 218

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.**

| | | Series 255 | |
|------------|------------|-------------------|--------------------------------|
| 255-186-01 | 255-186-02 | 1.5-6 mm | 1.5-2-2.5-3-4-5-5.5-6 = 8-pce. |
| 255-180-01 | 255-180-02 | 2-10 mm | 2-2.5-3-4-5-6-8-10 = 8-pce. |
| 255-192-01 | 255-192-02 | 2-12 mm | 2-2.5-3-4-5-6-8-10-12 = 9-pce. |

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

| | | Series 260 | |
|------------|------------|-------------------|--|
| 260-186-01 | 260-186-02 | 1.5-6 mm | 1.5-2-2.5-3-4-5-5.5-6 = 8-pce. |
| 260-190-01 | 260-190-02 | 2-10 mm | 2-2.5-3-4-5-5.5-6-8-10 = 9-pce. |
| 260-102-01 | 260-102-02 | 2-12 mm | 2-2.5-3-4-5-5.5-6-8-10-12 = 10-pce. |
| 260-114-01 | 260-114-02 | 2-14 mm | 2-2.5-3-4-5-5.5-6-8-10-12-14 = 11-pce. |

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.

Series 255

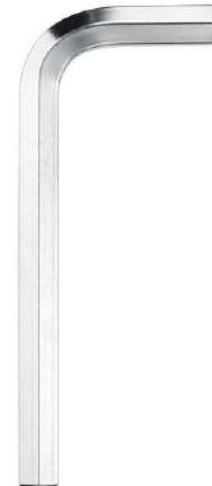
| | | | |
|------------|------------|-----------|---|
| 255-274-51 | 255-274-52 | 1/16-1/4" | 1/16-5/64-3/32-1/8-5/32-3/16-1/4 = 7-pce. |
| 255-288-51 | 255-288-52 | 5/64-3/8" | 5/64-3/32-1/8-5/32-3/16-1/4-5/16-3/8 = 8-pce. |
| 255-292-51 | 255-292-52 | 5/64-1/2" | 5/64-3/32-1/8-5/32-3/16-1/4-5/16-3/8-1/2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

Order-No.
black

Order-No.
nickel pl.

Series 260

| | | | |
|------------|------------|------------|--|
| 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. |



HERMANN JAEGER GMBH - HAMBURG / GERMANY



Series 266 / 270 red = metric / yellow = inch



Series 266 red = metric / yellow = inch


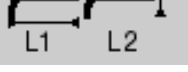



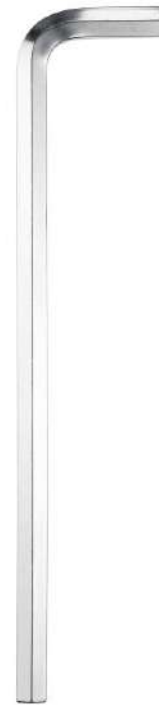
Series 281 red = metric / yellow = inch



280 Hexagon Key Wrenches ISO 2936 L, extra long


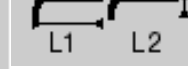

Special steel

| 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.! | 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



Quality Tools  Made in Germany



Quality Tools  Made in Germany
TORX®



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

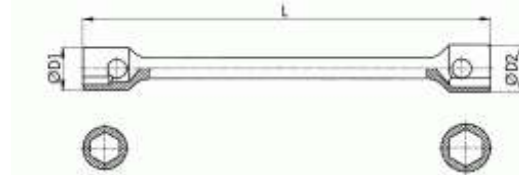
RIM WRENCHES - TOMMY BARS

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 |
| KTL | 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 |



HERMANN JAEGER GMBH - HAMBURG / GERMANY

TUBE EXPANDERS, DUGGEON PATTERN NO. 5



| 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 |

HERMANN JAEGER GMBH - HAMBURG / GERMANY

SELF-FEEDING TUBE EXPANDERS WITH ADJUSTABLE COLLAR NO. 26



| 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 |

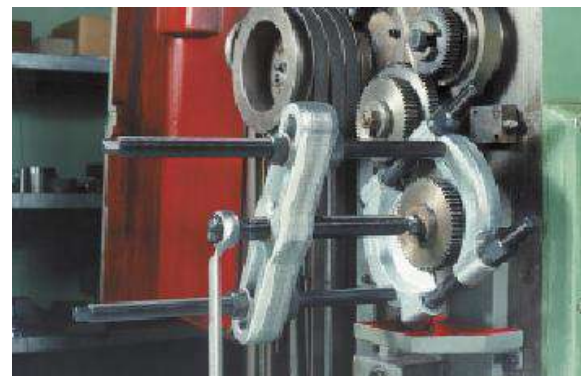
15-B



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

A/m 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) |
| 504+040 | TURNUS F-Clamp UNIVERSA | 400 x 120 mm / 30 x 8 mm, with 2-compo handle (2K) |
| 504+050 | TURNUS F-Clamp UNIVERSA | 500 x 120 mm / 30 x 8 mm, with 2-compo handle (2K) |
| 504+060 | TURNUS F-Clamp UNIVERSA | 600 x 120 mm / 30 x 8 mm, with 2-compo handle (2K) |
| 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



BUMPING TOOLS



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 |

HERMANN JAEGER GMBH - HAMBURG / GERMANY

WOODEN HAMMER + FILE HANDLES



| | | | |
|--------|------------------------------|--------------------------|--------------|
| 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
17150

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

HERMANN JAEGER GMBH - HAMBURG / GERMANY

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



457 PM



Head 452 PM - 452 P - 457 PM

452 P / 452 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



HERMANN JAEGER GMBH - HAMBURG / GERMANY

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 |

SCREWDRIVERS



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

SCREWDRIVERS



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 |

PRECISION SCREWDRIVERS



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. | Art.No. | Art.No. | blade length |
|---------|------------------|------------------|--------------|
| TX | Hexagon | Hex.-ball | |
| 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

HERMANN JAEGER GMBH - HAMBURG / GERMANY

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

HERMANN JAEGER GMBH - HAMBURG / GERMANY

CENTRE PUNCHES, PIN PUNCHES. CHISELS

- 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"



HERMANN JAEGER GMBH - HAMBURG / GERMANY

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

CENTRE PUNCHES, PIN PUNCHES. CHISELS

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 |



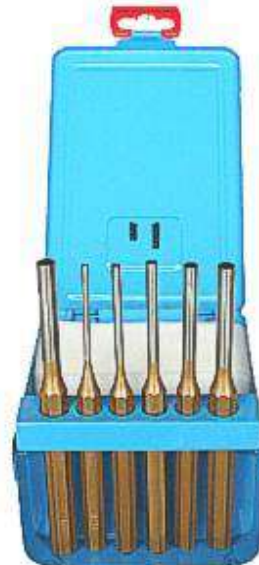
Sets, ctg. ea. 1 piece 3 - 4 - 5 - 6 - 7 - 8 mm



014.100 wooden stand



014.200 plastic wallet



014.600 metal box
014.500 plastic box



014.400 plastic stand



HERMANN JAEGER GMBH - HAMBURG / GERMANY

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



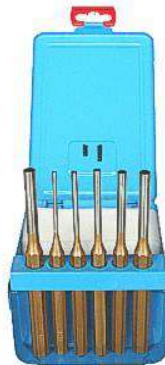
naturly hardness

- 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, octagonal 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



HERMANN JAEGER GMBH - HAMBURG / GERMANY

CENTRE PUNCHES, PIN PUNCHES. CHISELS

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



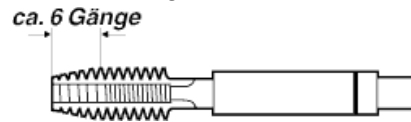
For more details please refer to the main catalogues



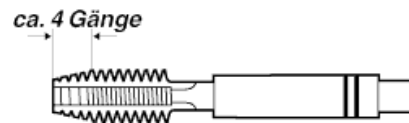
Leads of Hand Taps, Sets of 3 pcs.



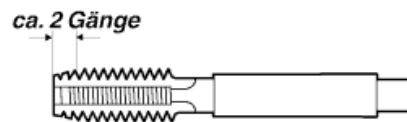
Nr. 1 Rougher, 6-8 Threads Lead



Nr. 2 Intermediate, 4-5 Threads Lead

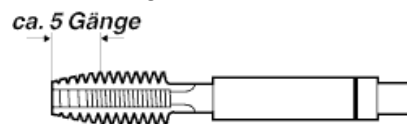


Nr. 3 Finisher, 2-3 Threads Lead

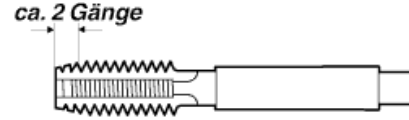


Leads of Hand Taps, Sets of pcs.

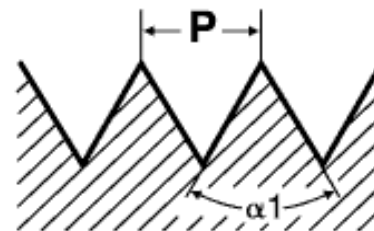
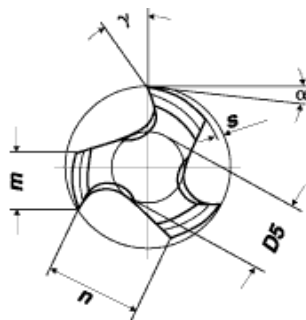
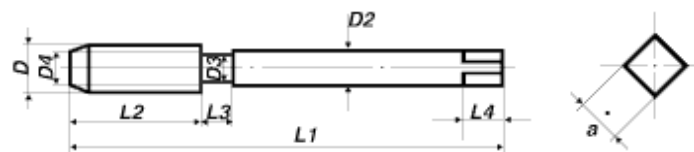
Nr. 1 Rougher, 5-6 Threads Lead



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

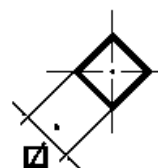
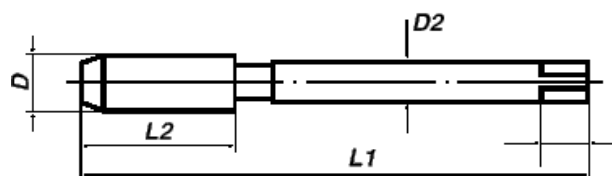
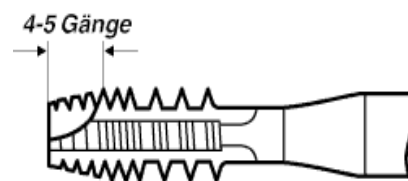
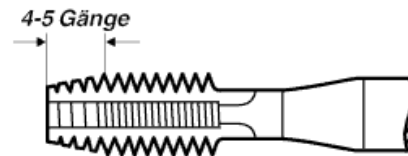
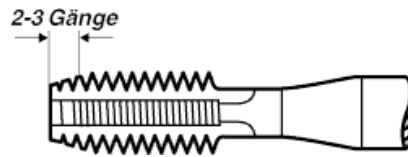
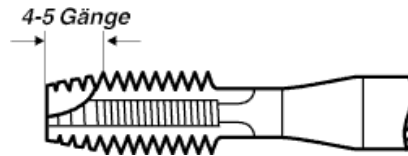
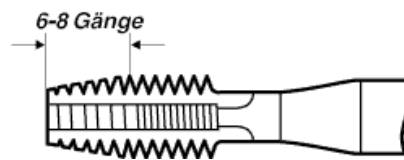
- Form B** 4-5 Threads Lead with Spiral Point, for through holes

- 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

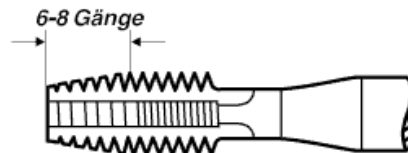
Machine Taps

Technical Information

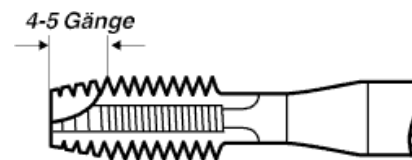
Through hole



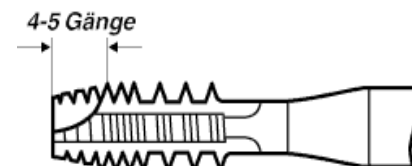
Form A 6-8 Threads Lead, for through holes



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



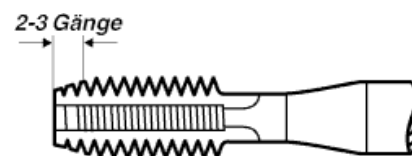
Form B-AZ 4-5 Threads Lead with Spiral Point and interrupted threads for through holes



Blind hole



Form C 2-3 Threads Lead, for blind holes

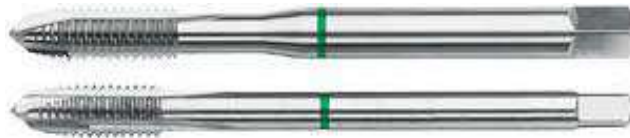


Form C/35° RSP 2-3 Threads Lead, 35° Spiral Flute, for blind holes





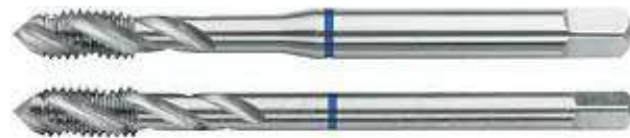
GREEN RING for general pupose
Form B = spiral point
Form C/39° RSP = spiral flute



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 | | | | |



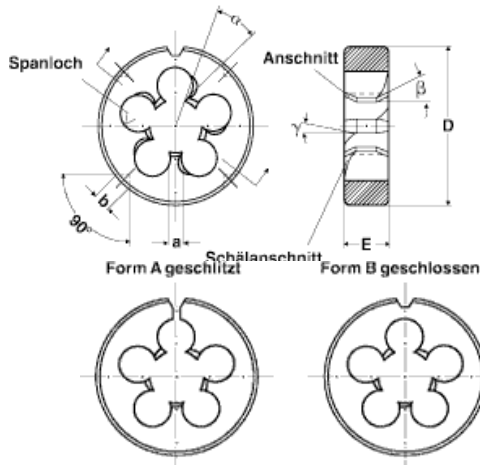
Round Dies HSS, DIN 223
SOLID type (Form B)



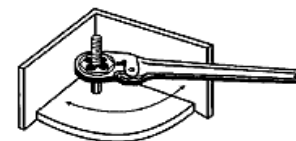
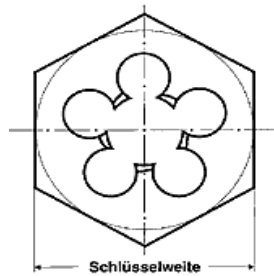
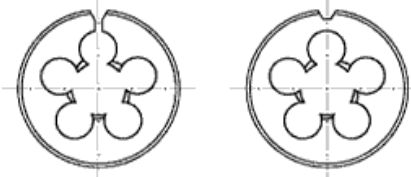
Round Dies HSS
SPLIT type (Form A)



Hexagon Die Nut HSS, DIN 382



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



The **VÖLKEL** 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.

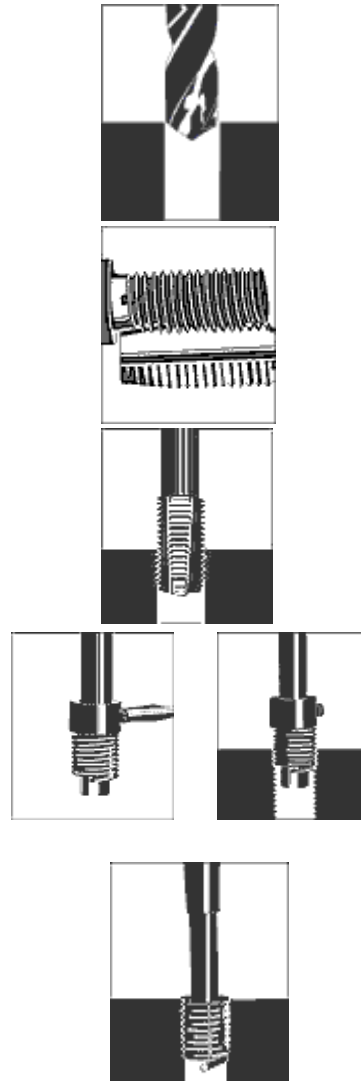
Due to the narrow and exact tolerances the new thread normally is stronger than the original one.

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

THREAD REPAIR TOOLS



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



| | |
|--------|---|
| 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



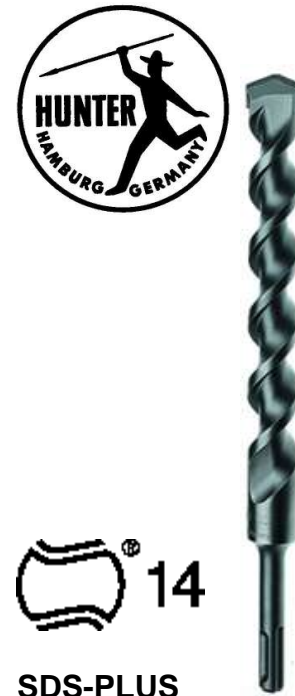
PACKING EXAMPLES ONLY
SCREW EXTRACTORS, CV steel
loose and in sets No. 1-5 / No. 1-6 / No. 1-8



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.



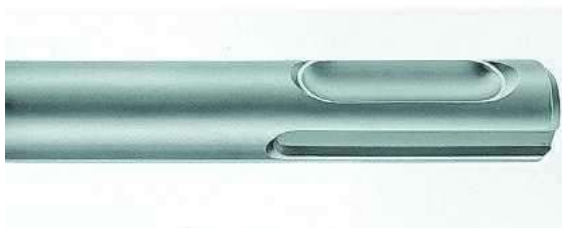
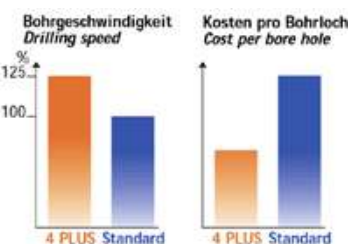
SDS-PLUS

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 x 1000x 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 x 1000x 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 x 1000x 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 x 400 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 | Art. No. SDS-plus Hammer Drill Bit | |
| 2428 | 10 x 160x 100 mm | 230156 | 3,5x 110x 50 mm |
| 2429 | 10 x 210x 150 mm | 230150 | 16 x 350x 300 mm |
| 2430 | 10 x 260x 200 mm | 2336 | 18 x 200x 150 mm |
| 2431 | 10 x 310x 250 mm | 2394 | 18 x 300x 250 mm |
| 2432 | 10 x 350x 300 mm | 2354 | 18 x 450x 400 mm |
| 2433 | 10 x 450x 400 mm | 2384 | 18 x 600x 550 mm |
| 2434 | 10 x 600x 550 mm | 230128 | 18 x 1000x 950 mm |
| 2435 | 10 x 800x 750 mm | 2337 | 19 x 200x 150 mm |
| 2436 | 10 x 1000x 950 mm | 2338 | 19 x 450x 400 mm |
| 2437 | 11 x 160x 100 mm | 2339 | 20 x 200x 150 mm |
| 2482 | 11 x 210x 150 mm | 2355 | 20 x 300x 250 mm |
| 2438 | 11 x 260x 200 mm | 2340 | 20 x 450x 400 mm |
| 2483 | 11 x 310x 250 mm | 2371 | 20 x 600x 550 mm |
| 2439 | 12 x 160x 100 mm | 230102 | 20 x 1000x 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 |
| 2342 | 22 x 450x 400 mm |
| 230140 | 22 x 600x 550 mm |
| 230144 | 22 x 1000x 950 mm |
| 2343 | 23 x 250x 200 mm |
| 2344 | 23 x 450x 400 mm |
| 2345 | 24 x 250x 200 mm |
| 2346 | 24 x 450x 400 mm |
| 2347 | 25 x 250x 200 mm |
| 2348 | 25 x 450x 400 mm |
| 230103 | 25 x 600x 550 mm |
| 230153 | 25 x 1000x 950 mm |
| 2349 | 26 x 250x 200 mm |
| 2350 | 26 x 450x 400 mm |
| 2369 | 19 x 300x 250 mm |
| 23722 | 22 x 350x 300 mm |
| 230138 | 25 x 300x 250 mm |



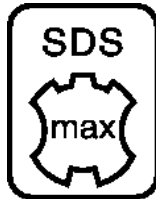
| | |
|------|-----------------|
| 4917 | 28x 670x 550 mm |
| 4951 | 28x 920x 800 mm |
| 4963 | 28x1320x1200 mm |
| 4918 | 30x 370x 250 mm |
| 4919 | 30x 570x 450 mm |
| 4920 | 32x 370x 250 mm |
| 4921 | 32x 570x 450 mm |
| 4922 | 32x 920x 800 mm |
| 4940 | 32x1320x1200 mm |
| 4923 | 35x 370x 250 mm |
| 4924 | 35x 570x 450 mm |
| 4925 | 35x 670x 550 mm |
| 4965 | 35x 920x 800 mm |
| 4945 | 35x1320x1200 mm |
| 4960 | 37x 370x 250 mm |
| 4946 | 37x 570x 450 mm |
| 4958 | 37x 920x 800 mm |
| 4926 | 38x 370x 250 mm |
| 4927 | 38x 570x 450 mm |
| 4928 | 40x 370x 250 mm |
| 4929 | 40x 570x 450 mm |
| 4930 | 40x 920x 800 mm |
| 4941 | 40x1320x1200 mm |
| 4931 | 45x 570x 450 mm |
| 4933 | 45x 920x 800 mm |
| 4964 | 50x 570x 450 mm |
| 4959 | 52x 570x 450 mm |



4-Cutter

| Art. No. | Zentro 2- Cutter SDS-max Drill Bit |
|----------|------------------------------------|
|----------|------------------------------------|

| | |
|------|-----------------|
| 3900 | 12x 340x 200 mm |
| 3901 | 12x 540x 400 mm |
| 3902 | 12x 690x 550 mm |
| 3903 | 14x 340x 200 mm |
| 3904 | 14x 540x 400 mm |
| 3905 | 15x 340x 200 mm |
| 3906 | 15x 540x 400 mm |



| Art. No. | Zentro 4- Cutter SDS-max Drill Bit |
|----------|------------------------------------|
|----------|------------------------------------|

| | |
|------|-----------------|
| 3908 | 13x 340x 200 mm |
| 4900 | 16x 340x 200 mm |
| 4901 | 16x 540x 400 mm |
| 4936 | 16x 920x 800 mm |
| 4961 | 16x1320x1200 mm |
| 4902 | 18x 340x 200 mm |
| 4903 | 18x 540x 400 mm |
| 4937 | 18x 920x 800 mm |
| 4953 | 18x1320x1200 mm |
| 4904 | 20x 320x 200 mm |
| 4905 | 20x 520x 400 mm |
| 4906 | 20x 920x 800 mm |
| 4957 | 20x1320x1200 mm |
| 4907 | 22x 320x 200 mm |
| 4908 | 22x 520x 400 mm |
| 4909 | 22x 920x 800 mm |
| 4952 | 22x1320x1200 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 |



2-Cutter

| Art. No. | Zentro 4- Cutter SDS-plus Drill Bit |
|----------|-------------------------------------|
|----------|-------------------------------------|

| | |
|------|-----------------|
| 4300 | 16x 250x 200 mm |
| 4301 | 16x 450x 400 mm |
| 4313 | 18x 250x 200 mm |
| 4303 | 18x 450x 400 mm |
| 4304 | 20x 250x 200 mm |
| 4306 | 20x 450x 400 mm |
| 4320 | 22x 250x 200 mm |
| 4307 | 22x 450x 400 mm |
| 4308 | 24x 250x 200 mm |
| 4309 | 24x 450x 400 mm |
| 4321 | 25x 250x 200 mm |
| 4310 | 25x 450x 400 mm |
| 4319 | 28x 250x 200 mm |
| 4311 | 28x 450x 400 mm |
| 4323 | 30x 250x 200 mm |
| 4312 | 30x 450x 400 mm |
| 4318 | 32x 450x 400 mm |



HERMANN JAEGER GMBH - HAMBURG / GERMANY

WITH SDS-SHANK

| 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 12x101 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.



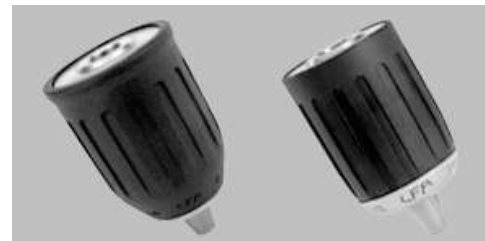
LFA DRILL CHUCKS (KEYLESS TYPE)

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

morse taper



For CNC machine tools :
with ISO cones

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



capacity : 13 mm

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



HERMANN JAEGER GMBH - HAMBURG / GERMANY

TOOL BOXES, MADE IN GERMANY



| 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



602.4 VERIBOR suction lifter, 2 cups, aluminium

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

602.4



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



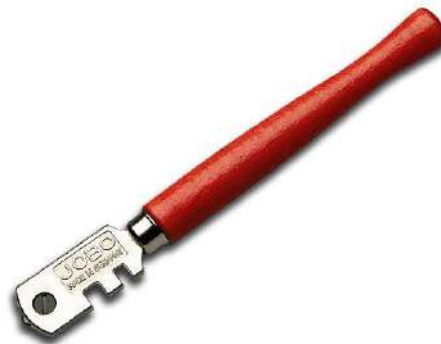
No. 110.0 (heavy duty model)



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 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 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 |



HERMANN JAEGER GMBH - HAMBURG / GERMANY

PAINT-, RADIATOR ROLLERS & -REFILLS



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 | |



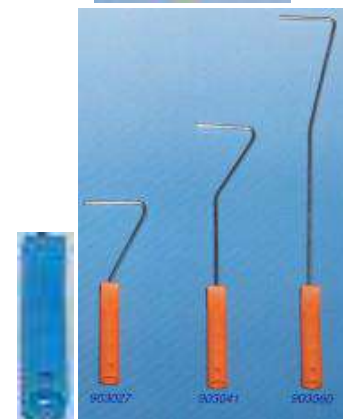
501271 /
5000



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 |

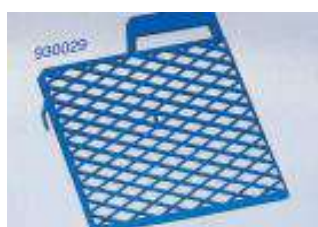
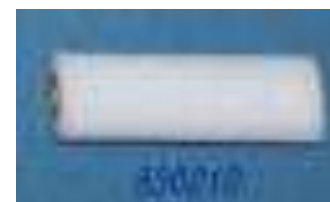
501210 /
5100



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,

HERMANN JAEGER GMBH - HAMBURG / GERMANY

PAINT TOOLS

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



PROFESSIONAL PAINT TOOLS
ECO-Line

PAINT TOOLS

| Art. No. | Description |
|----------|-------------|
|----------|-------------|



10250459-131 2" HUNTER Mini Roller Refill, 100% wool, 5mm pile, 50 x 15 mm D6, PU 20 pcs./PVC-box



33707181-131 7" HUNTER Paint Roller Refill, yellow strip acrylic 18 mm pile, 180mm x 48 mm D8, blue cap



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



11607321-131 6" HUNTER Paint Roller Refill, yellow stripe, polyamide, 12 mm pile, 150mm x 30 mm D6, white cap



PROFESSIONAL PAINT TOOLS
ECO-Line

HERMANN JAEGER GMBH - HAMBURG / GERMANY

PAINT TOOLS

| Art. No. | Description |
|----------|-------------|
|----------|-------------|



11624381-131 6" HUNTER Paint Roller Refill, yellow with green stripe, polyamide, 18 mm pile, 150mm x 30 mm D6, white cap



6151766C-131 7" HUNTER Red Paint Roller Frame D8, zinc coated, standard handle



6101470C-131 4" HUNTER Red Radiator Roller Frame 16" medium, D6, zinc coated, standard handle

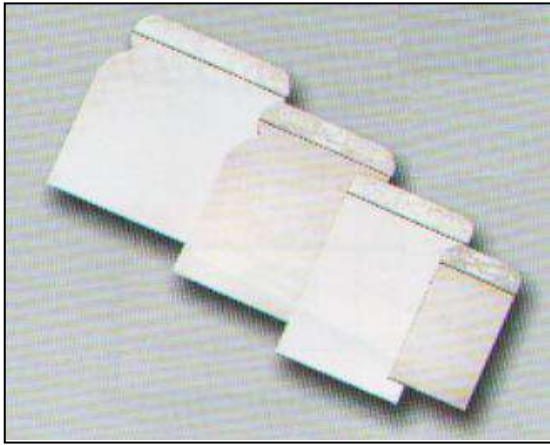


6101490C-131 4" HUNTER Red Radiator Roller Frame 24" long, D6, zinc coated, standard handle



PROFESSIONAL PAINT TOOLS
ECO-Line

SCRAPERS



- 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



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



HERMANN JAEGER GMBH - HAMBURG / GERMANY

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

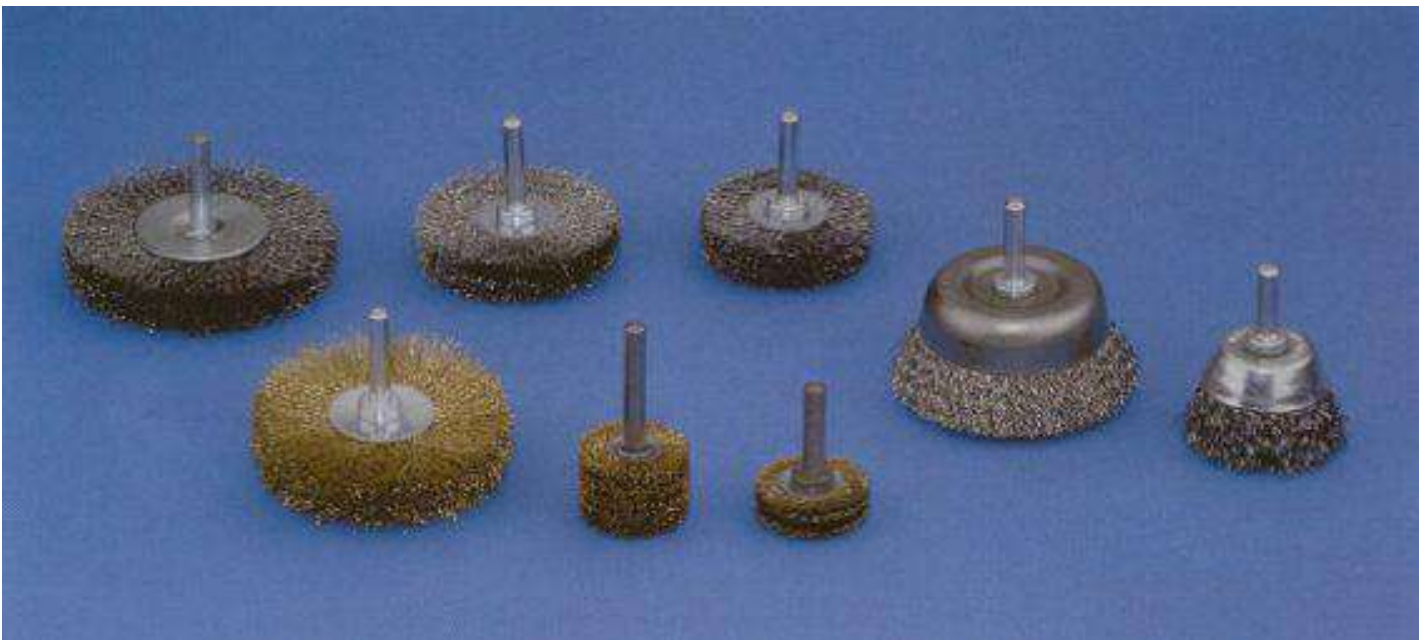
CRIMPED CUP WIRE BRUSHES



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

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

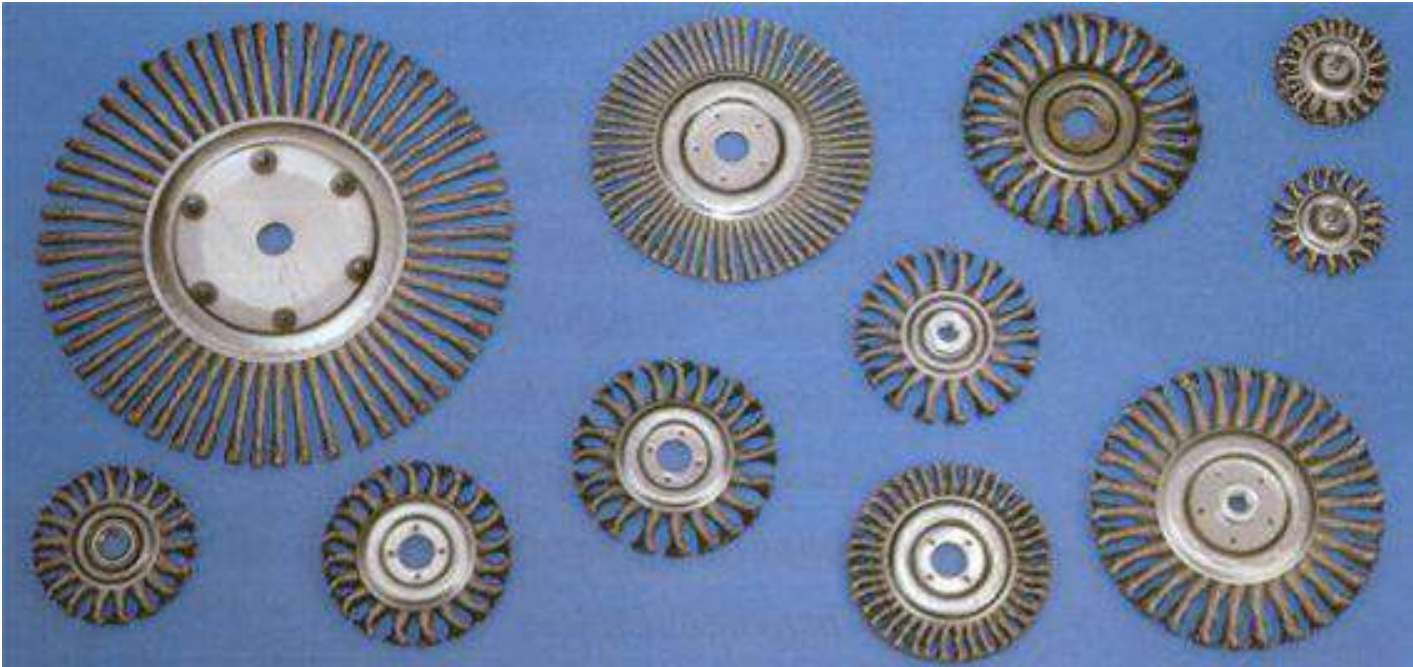
SHAFTMOUNTED MINI WIRE BRUSHES



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

Please specify required diameter, type, and filling material

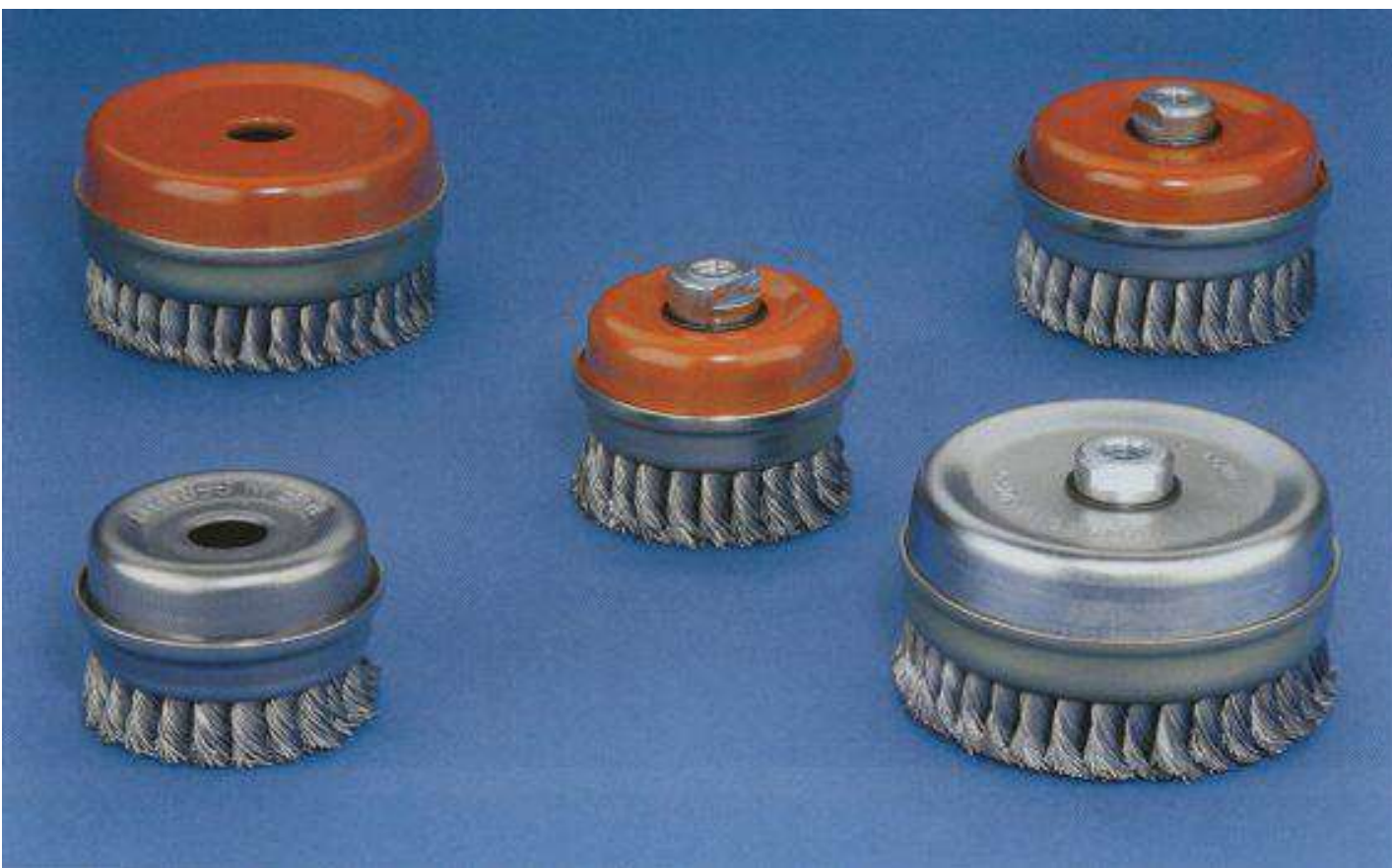
KNOTTED WHEEL WIRE BRUSHES



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

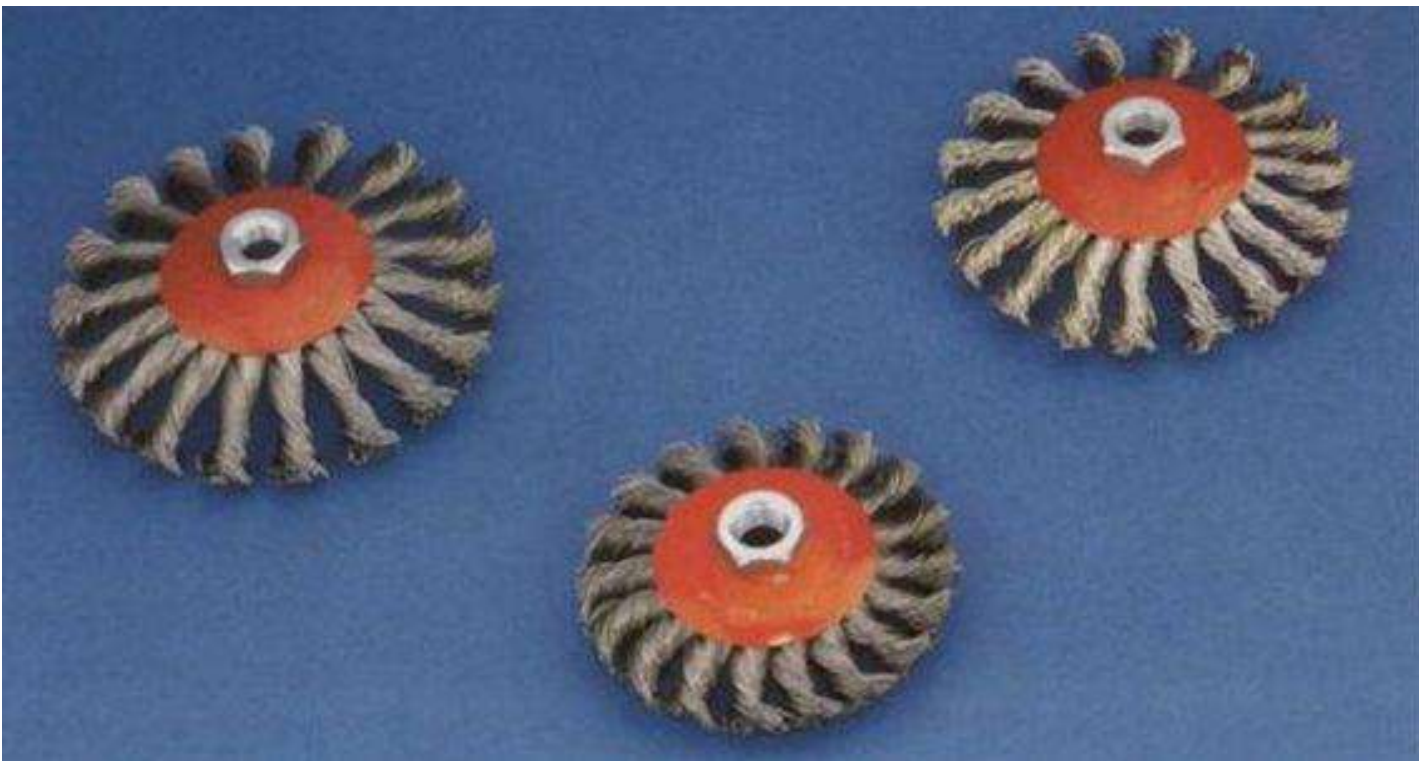
KNOTTED SURFACE (CUP) WIRE BRUSHES



Filling materials steelwire, stainl. steel wire V2A

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

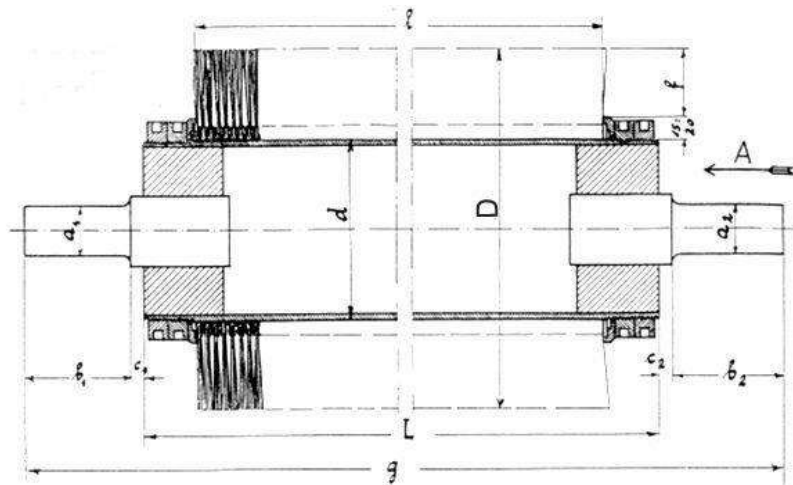
CONICAL WHEELWIRE BRUSHES



Filling materials steelwire, stainl. steel wire V2A

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

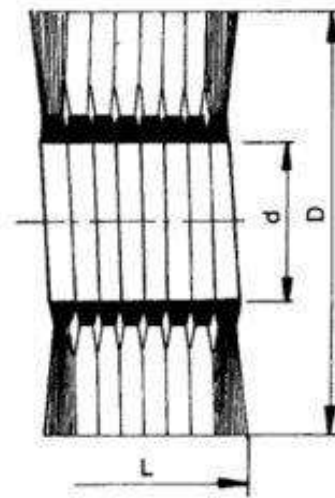
SPECIAL WHEEL BRUSHES



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.



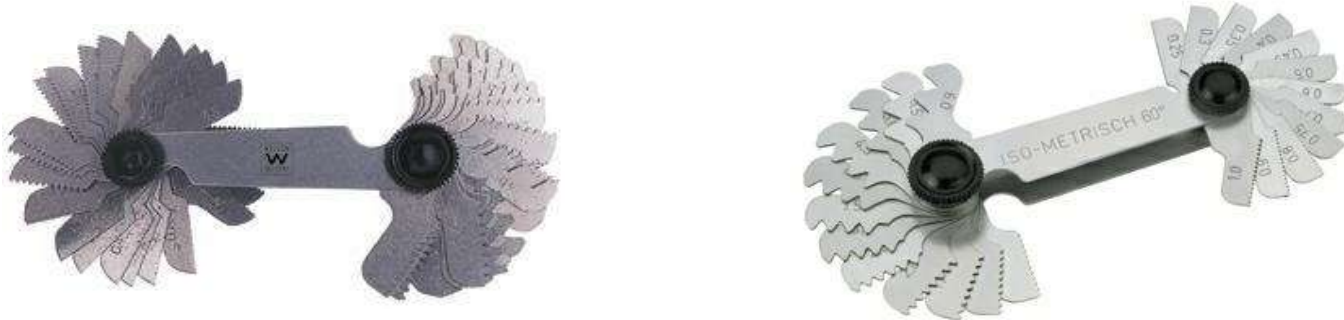
HAND SCRATCH BRUSHES / SPARK PLUG BRUSHES

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



HERMANN JAEGER GMBH - HAMBURG / GERMANY

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 |

HERMANN JAEGER GMBH - HAMBURG / GERMANY

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 |
|-------------------|---|

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 |
|----------|---|



HERMANN JAEGER GMBH - HAMBURG / GERMANY

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- |
|----------|---|----|



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 |
|----------|--|



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 |
|----------|---|

HERMANN JAEGER GMBH - HAMBURG / GERMANY

MEASURING TOOLS - PIMETER

PIMETER Special Steel Measures with vernier, suitable for measuring circumference and diameter, graduation in mm, reading by +/- 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" |

HERMANN JAEGER GMBH - HAMBURG / GERMANY

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



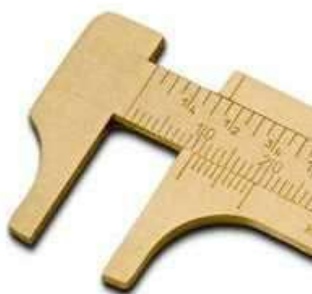
No. 50

- 50/1000 50 mm Brass Tyre Thread Feeler Gauge ind. plastic bag



No. 60

- 60/1000 50 mm Brass Tyre Thread Feeler Gauge ind. plastic bag



No. 80



No. 80a

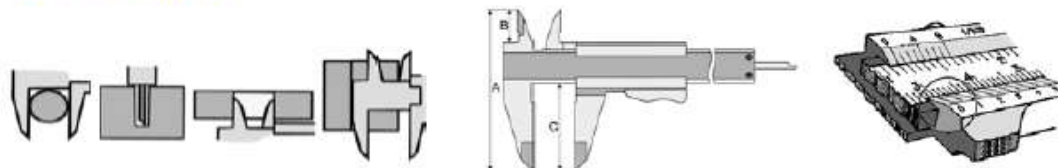
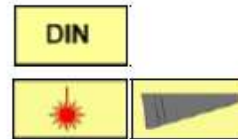






Pocket Vernier Caliper DIN 862

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 |

HERMANN JAEGER GMBH - HAMBURG / GERMANY

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" | |

HERMANN JAEGER GMBH - HAMBURG / GERMANY

MEASURING TOOLS - SPRING DIVIDERS & CALIPERS

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" |

HERMANN JAEGER GMBH - HAMBURG / GERMANY

WEISS MEASURING TAPES

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

Spare Tapes



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

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

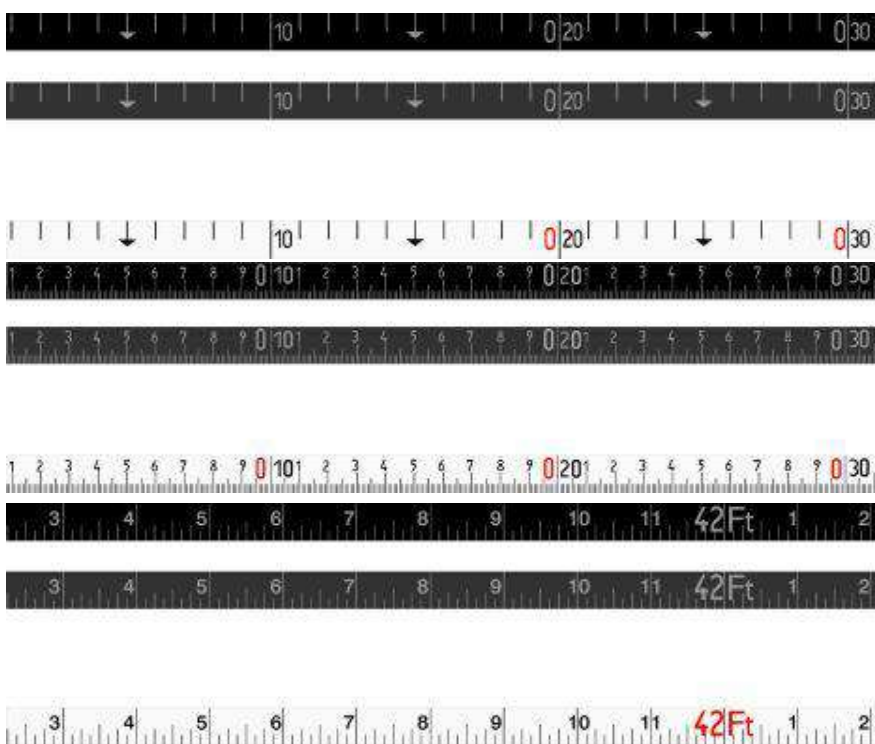


Commencement B

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 |

MEASURING TAPES



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/-



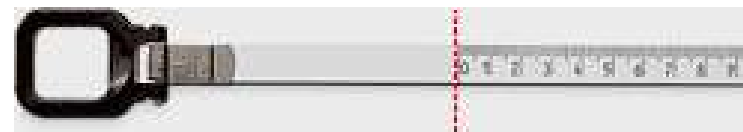
stainl. steel etched
cm/- cm/cm - cm/inch - mm/- mm/inch



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



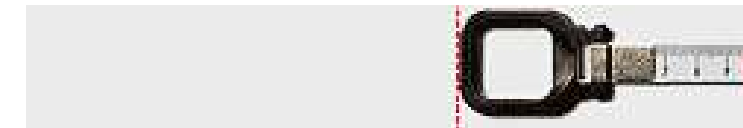
glass fibre white FILON
cm/- cm/cm - cm/inch



Commencement A



Commencement B



Commencement C



brass bob 11



brass bob 14



stainl. st. bob 16



brass bob 10

SPIRIT LEVELS



Model: AZB

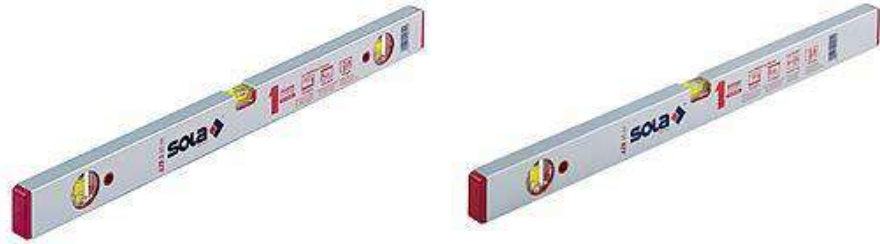
Aluminium box section profile, silver anodised
 Profile weight 590 g/m
 Dimensions approx. 50x23mm
 1 Horizontal vial
 1 Plum vial
 3rd vial upon request

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

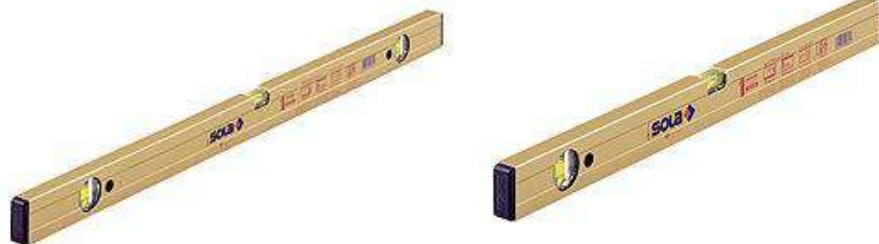
Model: AZM

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



PIERCING SAWBLADES



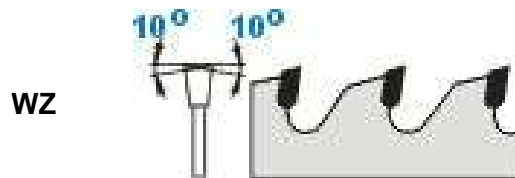
- 6/0K** size 6/0 Kakadu Metal Cutting Piercing Saw Blade 130 mm
- 5/0K** size 5/0 Kakadu Metal Cutting Piercing Saw Blade 130 mm
- 4/0K** size 4/0 Kakadu Metal Cutting Piercing Saw Blade 130 mm
- 3/0K** size 3/0 Kakadu Metal Cutting Piercing Saw Blade 130 mm
- 2/0K** size 2/0 Kakadu Metal Cutting Piercing 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

TCT CIRCULAR SAW BLADES

for cutting wood - tooth shape WZ

Standard dimensions

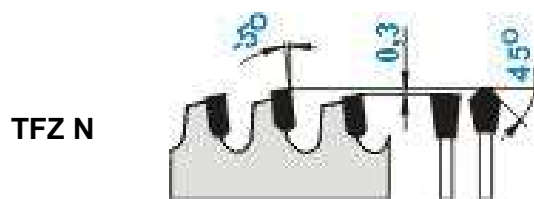
| diameter x width x bore | available number of |
|-------------------------|-------------------------------------|
| 127 x 2,6 x 20 mm | 10 - 20 - 36 WZ |
| 130 x 2,6 x 20 mm | 10 - 20 - 36 WZ |
| 134 x 2,6 x 20 mm | 10 - 20 - 36 WZ |
| 140 x 2,6 x 20 mm | 10 - 20 - 42 WZ |
| 150 x 2,6 x 20 mm | 12 - 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 |

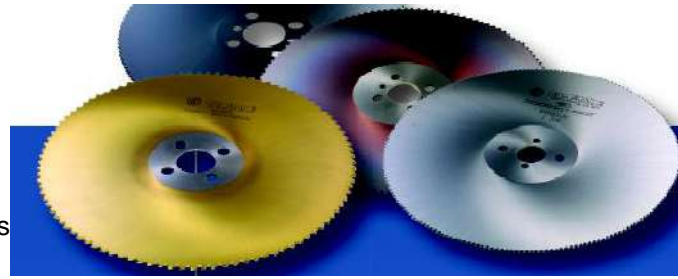


Other dimensions / number & shape of teeth are available - please specify your demand and indicate the material you intend to cut

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

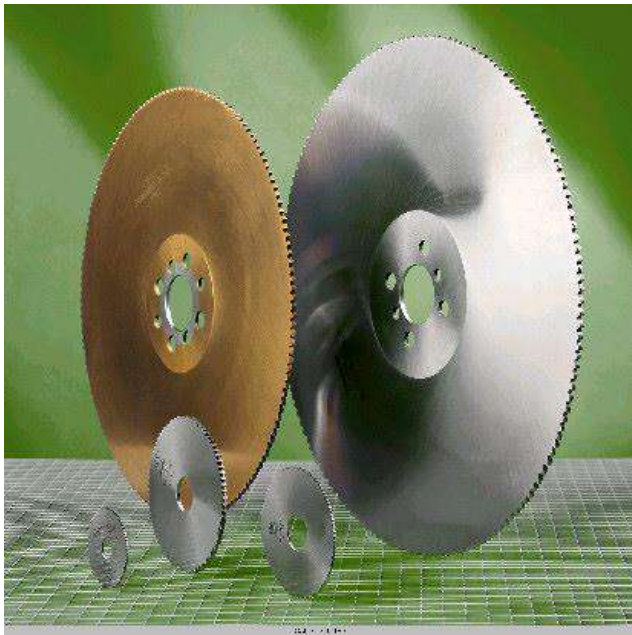
max. working temperature
 Surface hardness (HV)
 Co-efficient of Friction

| Coating | TiN | TiCN | TiALN |
|--------------------------|--------|-----------|--------------|
| Colour | gold | blue-grey | violet-black |
| max. working temperature | 600 C° | 450 C° | 800 C° |
| Surface hardness (HV) | 2400 | 3200 | 3000 |
| Co-efficient of Friction | 0,55 | 0,3 | 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

HERMANN JAEGER GMBH - HAMBURG / GERMANY

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

HERMANN JAEGER GMBH - HAMBURG / GERMANY

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

HERMANN JAEGER GMBH - HAMBURG / GERMANY

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 | | Tooth pitch in tpi SD | | | | | | |
|---------------------------------|----------------|--------------------------|-------|-------|-------|--------|--------|---------|
| mm | Inch | 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 | | Tooth pitch in tpi Extra wide set | | |
|---------------------------------|----------------|--------------------------------------|---|---|
| mm | Inch | 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

HERMANN JAEGER GMBH - HAMBURG / GERMANY

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



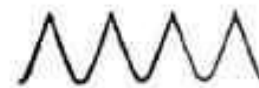
S

CROSS CUT

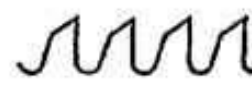
| | | | |
|----------|--------------------------|---------------------------|----------------|
| 30008cc | Cross-Cut Cir. Saw Blade | 200 mm/ 8"x1.4 mmx | 3/ 4"x100teeth |
| 35010cc | Cross-Cut Cir. Saw Blade | 250 mm/10"x1.4 mmx | 3/ 4"x100teeth |
| 30012cc | Cross-Cut Cir. Saw Blade | 300 mm/12"x1.6 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



| 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 |



18 760 051
for 50 kg containers

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 cm ³ |
| Stroke volume, pump: | 8 cm ³ |
| 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 height: | 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 cm ³ |
| Stroke volume, pump: | 220 cm ³ |
| 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 height: | 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 cm ³ |
| Stroke volume, pump: | 70 cm ³ |
| 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

HERMANN JAEGER GMBH - HAMBURG / GERMANY



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

HERMANN JAEGER GMBH - HAMBURG / GERMANY

KURT HAUFE ELECTRODE HOLDER WITH PRESSURE SPRING

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

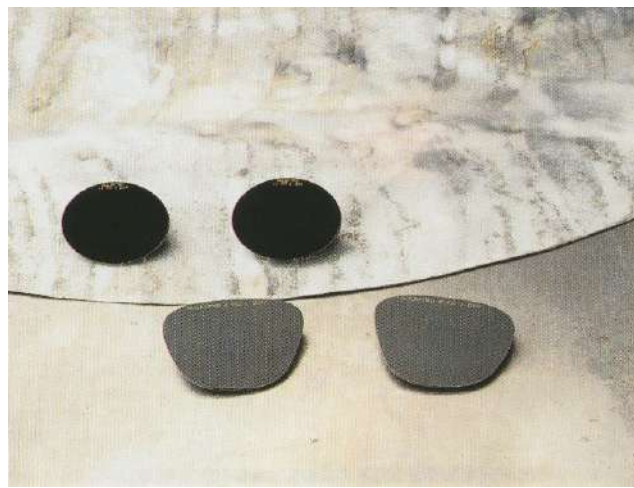
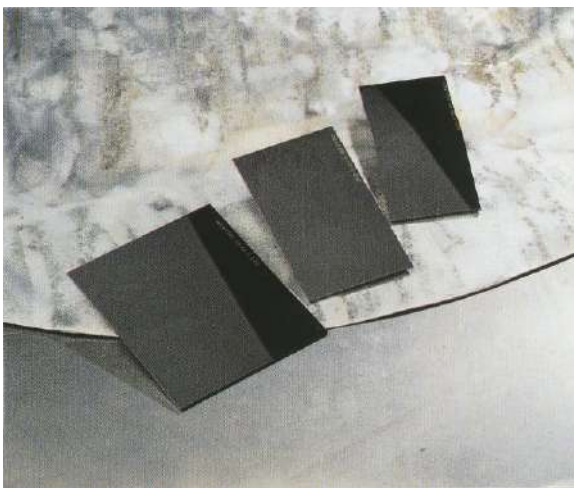
DIN 8 - 9 - 10 - 11 - 12 - 13 - 14
other DIN values on request

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

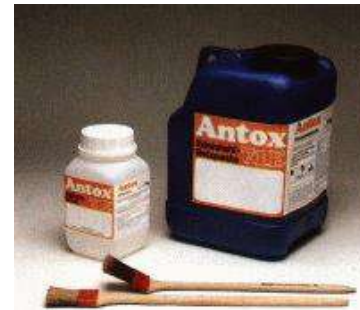
Antox 71E is standardly supplied in plastic bottles of 2 kg and in cartons of 6 bottles.
Other packing units are available on request.

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 | 60W |
| technical specification | technical specification |
| power: 40W | power: 60W |
| max. temp. of bit 370°C | max. temp. of bit 370°C |
| warm up time: approx 8 min. | warm up time: approx 8 min. |
| weight: 130g (without lead) | weight: 130g (without lead) |
| lead: approx. 1,5 m long | lead: approx. 1,5 m long |
| copper bit dia. 5mm | copper bit dia. 5mm |

Medium Types

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



| | |
|------------------------------|------------------------------|
| 75W | 100W |
| technical specification | technical specification |
| power: 75W | power: 100W |
| max. temp. of bit 340°C | max. temp. of bit 400°C |
| warm up time: approx 10 min. | warm up time: approx 10 min. |
| weight: 220g (without lead) | weight: 220g (without lead) |
| lead: approx. 1,5 m long | lead: approx. 1,5 m long |
| copper bit dia. 7mm | copper bit dia. 7mm |



| | |
|------------------------------|------------------------------|
| 150W | 200W |
| technical specification | technical specification |
| power: 150W | power: 200W |
| max. temp. of bit 430°C | max. temp. of bit 490°C |
| warm up time: approx 10 min. | warm up time: approx 10 min. |
| weight: 220g (without lead) | weight: 220g (without lead) |
| lead: approx. 1,5 m long | lead: approx. 1,5 m long |
| copper bit dia. 9mm | copper bit dia. 9mm |

Heavy-Duty Types

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



| | |
|------------------------------|------------------------------|
| 250W | 300W |
| technical specification | technical specification |
| power: 250W | power: 300W |
| max. temp. of bit 470°C | max. temp. of bit 450°C |
| warm up time: approx 10 min. | warm up time: approx 10 min. |
| weight: 640g (without lead) | weight: 710g (without lead) |
| lead: approx. 1,5 m long | lead: approx. 1,5 m long |
| copper bit dia. 15mm | copper bit dia. 24mm |



| | |
|------------------------------|------------------------------|
| 400W | 500W |
| technical specification | technical specification |
| power: 400W | power: 500W |
| max. temp. of bit 550°C | max. temp. of bit 600°C |
| warm up time: approx 10 min. | warm up time: approx 10 min. |
| weight: 790g (without lead) | weight: 790g (without lead) |
| lead: approx. 1,5 m long | lead: approx. 1,5 m long |
| copper bit dia. 24mm | copper bit dia. 24mm |



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 |



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 | |
| Sn97Ag3 | S-Sn97Ag3 | - | 221 - 224 °C | |
| Sn99.3Cu0.7 | S-Sn99Cu1 | Sn99Cu.7 | 227 °C eutectic | Lead-free |
| Sn97Cu3 | S-Sn97Cu3 | - | 230 - 250 °C | |
| Sn100Ni+ | S-Sn99Cu1 (NiGe) | Fuji Patent | 227 °C eutectic | |
| Sn60Pb40 | S-Sn60Pb40 | Sn60Pb40 | 183 - 190 °C | |
| Sn60Pb38Cu2 | S-Sn60Pb39Cu1 | Sn60Pb38Cu02 | 183 - 190 °C | |
| Pb50Sn50 | S-Pb50Sn50 | Sn50Pb50 | 183 - 215 °C | Lead-containing |
| 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 | |
| Sn97Ag3 | S-Sn97Ag3 | - | 221 - 224 °C | |
| Sn99.3Cu0.7 | S-Sn99Cu1 | Sn99Cu.7 | 227 °C eutectic | Lead-free |
| Sn97Cu3 | S-Sn97Cu3 | - | 230 - 250 °C | |
| Sn100Ni+ | S-Sn99Cu1 (NiGe) | Fuji Patent | 227 °C eutectic | |
| Sn60Pb40 | S-Sn60Pb40 | Sn60Pb40 | 183 - 190 °C | |
| Sn60Pb38Cu2 | S-Sn60Pb39Cu1 | Sn60Pb38Cu02 | 183 - 215 °C | Lead-containing |
| 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-Rofix[®]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-Rofix[®]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 |



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-Rophos®92 (CP 201) | CuP182 | - | 92 | 8 | 720 °C | 250 | 8.0 | | Cu-Rosil® |
| 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 | |
| Cu-Rophos®15 (CP 102) | CuP284 | 15 | 80 | 5 | 700 °C | 250 | 8.4 | -70 to +150 | Heat-resistant up to 200 °C |
| 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 | 1.0 mm 1.5 mm 2.0 mm 3.0 mm |
| Flux-coated as per DIN EN 1045 - FH10 diameter greater than 1.5 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 | Heat resistant up to 300 °C |
| 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/mm ²) | Density (g/cm ³) | 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, DIN8513), 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 |



HERMANN JAEGER GMBH - HAMBURG / GERMANY

INDEX A - Z

| | Page | | Page |
|-------------------------|---------------|-------------------------------|-------------|
| Adjustable File Holders | 127 | Paint Rollers | 120 - 125 |
| Adjustable Wrenches | 18 | Pickling Paste | 172 |
| Arch Punches | 3 | Piercing Sawblades | 151 |
| Balances | 149, 150 | Pimeter | 138 |
| Band Saws | 154 - 157 | Pin Punches | 87, 88 |
| Belt & Eyelet Plier | 4 | Piston Ring Compr. | 13 |
| Brad Punches | 86 | Piston Ring Pliers | 13 |
| Bumping Tools | 66 | Plastic Hamers | 67 |
| Calipers | 140-142 | Pliers | 19, 20, 21 |
| Carlight Testers | 73 | Pocket Calipers | 140 |
| Centre Punches | 85 | Pry Bars | 53 |
| Chisels | 89, 90, 91 | Pulling Tools KUKKO | 57 - 60 |
| Circlip Pliers | 17 | Revolving Belt Punches | 15 |
| Circular Saws | 152, 153, 158 | Rim Wrenches | 52 |
| Die Stocks | 92 | Round dies | 98 |
| Dividers | 142, 143 | Saw Set Pliers | 22 |
| Drill Chuck Keys | 111 | Scrapers | 126, 127 |
| Drill Chucks | 111 - 114 | Screw Drivers | 71, 75 - 84 |
| Engineers Hammers | 68 | Sealing Pliers | 8 |
| Eyelet Punches | 4 | Sledge Hammers | 69 |
| F-Clamps | 63 | Slogging Wrenches | 34, 35, 61 |
| Feeler Gauges | 135, 136 | Soldering & Brazing Materials | 174 - 184 |
| Filter Wrenches | 14 | Soldering Irons | 173 |
| Gardening Tools | 23, 24, 25 | Spanners, combi | 32, 33, 62 |
| Gasket Cutters | 27 | Spanners, open-ended | 28, 29, 62 |
| Glass Cutters | 117 - 119 | Spanners, ring | 30, 31, 62 |
| Glass Drills | 106, 110 | Spirit Levels | 148 |
| Grease Guns | 159 | Stencils | 5 |
| Grinding Discs | 128 | Strap Wrenches | 13, 14, 16 |
| Grip Pliers | 9, 10, 11 | Suction Lifters | 116, 117 |
| Hammer Drills SDS | 107 - 110 | Tap Holders | 92 |
| Hammers, non-rebound | 64, 65 | Thickn. Gauge Bands | 137 |
| Hand & Machine Taps | 93 - 97 | Thread Repair Tools | 99, 100 |
| Hex. Die Nuts | 98 | Ticket Pliers | 8 |
| Hexagon Key Wrenches | 38 - 51 | Tin Snips | 26 |
| Hollow Punches | 3 | Tool Boxes | 115 |
| Hook Wrenches | 36 | Try Squares | 139 |
| Lubricating Equipment | 159 - 169 | Tube Expanders | 54, 55, 56 |
| Measuring Tapes | 144 - 147 | Twist Drills | 101 - 105 |
| Number & Letter Punches | 6, 7 | Tyre Levers | 53 |
| Nut Rotators | 37 | Valve Spring Comp. | 12 |
| Nylon Hammers | 67 | Voltage Testers | 72, 73, 74 |
| | | Welding Electrode Holders | 170 |
| | | Welding Glasses | 171 |
| | | Wire Brushes | 129 - 134 |
| | | Wooden Handles | 70 |





Need a product urgently?

CALL US: +65 6294 6388

EMAIL: cmltc@singnet.com.sg

VISIT US: 75 Rowell Road, Singapore 208011

OPENING HOURS: Monday-Friday, 9.00AM – 5.30PM

Why choose Chan Man Lee?

- ✓ Ready stock of 25,000 products
- ✓ No MOQ required for majority of our products
- ✓ Product pickup ready in 10 minutes~1 working day
- ✓ Certified/authorised distributor for over 30 brands
- ✓ Only supplies products from well-known, esteemed brands
- ✓ Only genuine, authentic, factory-original products
- ✓ Technical knowledge on product codes (IMPA, sizing, etc.)