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Polishing Equipment

Mould *Polishing & Finishing*

1

Rotary Air Grinder Tool

For fine grinding, milling and engraving works.

- Light and practical, like a pen.



Rpm: 85.000

Power: 80 watt

Valve: Rotary Valve

Exhaust Air Direciton: Backwards

Collet / Max. Tool Shank Ø: ZG5 - 3 mm

Hose Unit: Inclusive - **Weight:** 130 g.

Order Code:
SRD3-85
150 001 060

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Rotary Air Grinder & Deburring Tool

For fine grinding, milling and engraving works.

- Light and practical, like a pen.



Rpm: 55.000

Power: 60 watt

Valve: Rotary Valve

Exhaust Air Direciton: Backwards

Collet / Max. Tool Shank Ø: ZG5 - 3 mm

Hose Unit: Inclusive - **Weight:** 95 g.

Order Code:
SRD3-55
150 000 965

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Rotary Air Grinder Tool

For fine - rough grinding, milling and engraving works.

- Light and practical.



Rpm: 45.000

Power: 260 watt

Valve: Rotary Valve

Exhaust Air Direciton: Backwards

Collet / Max. Tool Shank Ø: ZG4 - 6 mm

Hose Unit: Not inclusive - **Weight:** 310 g.

Order Code:
SRD6-45
150 010 750

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Rotary Air Grinder Tool / Oil-free

Oil-free grinders - for finest deburring operations.

- Light and practical



Rpm: 100.000

Power: 80 watt

Valve: Rotary Valve

Exhaust Air Direciton: Forwards

Collet / Max. Tool Shank Ø: ZG5 - 3 mm

Hose Unit: Inclusive - **Weight:** 250 g.

Order Code:
TVD3-100
150 149 906

Rotary Air Grinder Tool / Oil-free

Thanks to the double support, clean surfaces can be achieved quickly and easily.

- Oil-free, stable and silent.



Rpm: 65.000

Power: 80 watt

Valve: Rotary Valve

Exhaust Air Direciton: Backwards

Collet / Max. Tool Shank Ø: ZG5 - 3 mm

Hose Unit: Inclusive - **Weight:** 390 g.

Order Code:
T3-65S
150 149 810

Rotary Air Grinder Tool / Oil-free

Oil-free and silent pneumatic actuator. Developed specifically for use with shaft diameters up to 6 mm.

- Oil-free, versatile and silent.



Rpm: 50.000

Power: 100 watt

Valve: Rotary Valve

Exhaust Air Direciton: Backwards

Collet / Max. Tool Shank Ø: ZG4 - 6 mm

Hose Unit: Inclusive - **Weight:** 400 g.

Order Code:
T6-50S
150 149 820

Rotary Angled Air Grinder Tool

Angle head of this machine is very small. Carrying out good work in very inaccessible places is now much easier.



Rpm: 85.000

Power: 100 watt

Valve: Rotary Valve

Exhaust Air Direciton: Backwards

Collet / Max. Tool Shank Ø: ZG5 - 3 mm

Hose Unit: Inclusive - **Weight:** 260 g.

Order Code:
WRD3-85
150 100 315

Rotary Angled Air Grinder Tool

These small-powerful angle grinders have a flat head, robust gears and, with their double bearing sets, are superbly suited to transferring high torque.



Rpm: 20.000

Power: 300 watt

Valve: Rotary Valve

Exhaust Air Direciton: Backwards

Collet / Max. Tool Shank Ø: ZG4 - 6 mm

Hose Unit: Not inclusive - **Weight:** 730 g.

Order Code:
SRD6-20
150 123 475

Air File Tool / Vibration Damper

Extremely low-vibration machine. Convenient deburring file for small components that have to be held by hand while being deburred.



Stroke Length: 4 mm
Strokes per Minute: 9.000
Power: 80 watt - **Max. Tool Shank Ø:** 3 mm
Exhaust Air Direction: Backwards
Air Consumption: 80 l/min. - **Weight:** 260 g.

Order Code:
FLV-9
150 322 785

Air File Tool / Vibration Damper

Designed for fine polishing of moulds. High stroke speed combined with short strokes enable controlled machining of surfaces. The tool is also suitable for the most delicate deburring work.



Stroke Length: 0.8 mm
Strokes per Minute: 17.000
Power: 80 watt - **Max. Tool Shank Ø:** 3 mm
Exhaust Air Direction: Backwards
Air Consumption: 80 l/min. - **Weight:** 260 g.

Order Code:
FLV1-20
150 322 780

"RSC" Modular System

For various CNC machining processes.



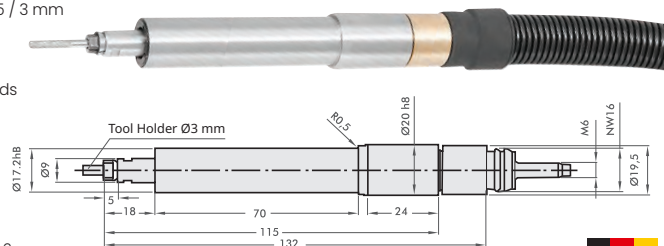
Please ask for information from our company.

High-speed Grinding Spindle

Order Code: RO-1785 150 401 202

The high speed and concentricity of this spindle produces a very clean grinding pattern and it is therefore ideally suited for fine grinding, milling and engraving. The paired heavy duty bearings ensure long service life.

Rpm: 85.000 - **Power:** 100 watt
Collet / Max. Tool Shank Ø: ZG5 / 3 mm
Engine Type: Vane
Front Bearing Set: Paired
Exhaust Air Direction: Backwards
Air Consumption: 180 l/min.
Hose Unit: Inclusive
Hose Connection: M6
Noise Level: 70 db.
Max. Carbide Tool Ø: 4 mm
Max. Profile Grinding Wheel Ø: 6 mm
Weight: 200 g.



"RWA" Pneumatic Spindles

Pneumatically controlled, operation with lubricated compressed air 6 bar.



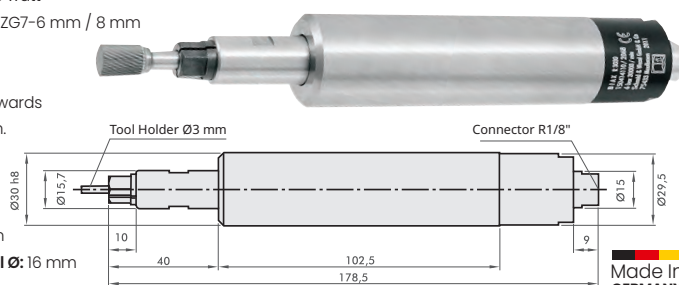
Please ask for information from our company.

Universal Grinding Spindle

Order Code: R-3030 150 414 110

This spindle is designed to be very compact, yet it is equipped with a powerful motor for grinding and milling. Also available: Splash guard and spindle with counterclockwise rotation.

Rpm: 30.000 - **Power:** 240 watt
Collet / Max. Tool Shank Ø: ZG7-6 mm / 8 mm
Engine Type: Vane
Front Bearing Set: Paired
Exhaust Air Direction: Backwards
Air Consumption: 400 l/min.
Hose Unit: Not inclusive
Hose Connection: R 1/8"
Noise Level: 75 db.
Max. Carbide Tool Ø: 10 mm
Max. Profile Grinding Wheel Ø: 16 mm
Weight: 420 g.



"BWS 2-22" Quick change System

This change system enables fast replacement of spindles in robot cells.



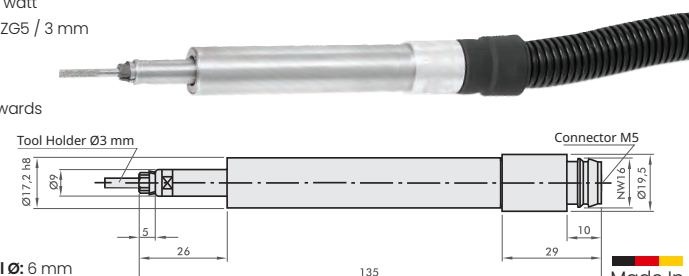
Please ask for information from our company.

High-speed Oil-free Spindle

Order Code: TR-1785 150 401 400

The oil-free drive of this grinding spindle based on a vane motor is unique and patented. Its great advantage: It provides the high performance of a vane motor and can still work completely oil-free.

Rpm: 85.000 - **Power:** 100 watt
Collet / Max. Tool Shank Ø: ZG5 / 3 mm
Engine Type: Vane
Front Bearing Set: Paired
Exhaust Air Direction: Backwards
Air Consumption: 170 l/min.
Hose Unit: Inclusive
Hose Connection: M5
Noise Level: 70 db.
Max. Carbide Tool Ø: 4 mm
Max. Profile Grinding Wheel Ø: 6 mm
Weight: 130 g.



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Polishing Equipment

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Polishing Equipment

Rotary Air Grinder Tool (Standard Model)

Order Code: **AG260**

For applications such as grinding, milling, brushing and polishing with felts.



Rpm: 60.000

Collet Ø: 3.0 mm

Dimensions: Ø 20

Length: 160 mm

Hose Unit: Inclusive

Weight: 140 g.



Standard Accessories



During Operation:



Please operate with 2-3 drops of oil per minute.



Please use protective goggles, masks and ear plugs.

Rotary Air Grinder Tool

Order Code: **AG460**

High torque, heavy-duty, general purpose applicable on deburring, chamfering, milling, pre-polishing and finishing. Compact design and comfortable usage.



Rpm: 35.000

Collet Ø: 3.0 mm - 6.0 mm

Dimensions: Ø 22

Length: 180 mm

Hose Unit: Inclusive

Weight: 170 g.



Standard Accessories



During Operation:



Please operate with 2-3 drops of oil per minute.



Please use protective goggles, masks and ear plugs.

Accessories for Rotary Air Grinder Tool



Ø2.35 Ø3.0 Ø6.0
Spare Collets



Ø30 Wheel Ø30 Rubber Ø30 Abrasive

Collet Type	Order Code
Ø2.35	AG 672
Ø3.0	AG 673
Ø6.0	AG 676

Suitable Tools	Spare Part	Order Code
AG - 90 AG - 45	Ø30 Wheel	AGC 01
	Ø30 Rubber	AGS 01
	Ø30 Abrasive	AGP 01

Rotary Air Grinder Tool (Premium Model)

Order Code: **AG360**

High torque, silent and well balance. Ideal for precision grinding and finishing works. For applications such as grinding, milling, brushing and polishing with felts.



Rpm: 60.000

Collet Ø: 3.0 mm

Dimensions: Ø 17

Length: 159 mm

Hose Unit: Inclusive

Weight: 130 g.



Standard Accessories



During Operation:



Please operate with 2-3 drops of oil per minute.



Please use protective goggles, masks and ear plugs.

Micro Rotary Air Grinder Tools

Micro Types: Composite coated Air Tools, aluminium body, non-skid coating, strong engine, high-speed and adjustable speed. In mould workshops and general grinding processes.



Order: **ET-1**



Order: **DG..**

Order Code	Technical Information / 6.3 Bar
DG - M5	Rpm: 54.000 / Collet Ø : 3 mm / Length: 134 mm Air Hose Ø : 8 mm / Weight: 200 g.
DG - M	Rpm: 70.000 / Collet Ø : 3 mm / Length: 134 mm Air Hose Ø : 8 mm / Weight: 200 g.
DG - M8	Rpm: 82.000 / Collet Ø : 3 mm / Length: 134 mm Air Hose Ø : 8 mm / Weight: 200 g.
ET - 1	Rpm: 3.800 / Collet Ø : 6 mm / Length: 171 mm Air Hose Ø : 8 mm / Weight: 200 g.



During Operation:

Please operate with 2-3 drops of oil per minute.

Rotary Air Grinder Tools (for mounted points)



Angled Grinder 90°

Order: **NAKA90**



Angled Grinder 45°

Order: **NAKA45**



Rpm: 35.000 / Collet Ø: 3.0 mm / Hose Unit: Inclusive

Dimensions: (NAK-A90) Ø 19 x Length: 158 mm Weight: 220 g.

Dimensions: (NAK-A45) Ø 19 x Length: 162 mm Weight: 250 g.



During Operation:

Please operate with 2-3 drops of oil per minute.

Air File Tool

Order Code: **AR030**

Extra High-speed

Suitable for details / narrow area's and deep grooves polishing. Extra high-speed, adjustable power, low noise & vibration and robust tool life.



Stroke Length: 0.3 mm

Rpm: 40.000

Dimensions: Ø 28

Length: 200 mm

Hose Unit: Inclusive

Weight: 200 g.

↔ **Forward and Backward Movement**

Standard Accessories



During Operation:



Please operate with 2-3 drops of oil per minute.



Please use protective goggles, masks and ear plugs.

Air File Tool

Order Code: **SAR070**

Up & Down Motion

Side to side stroke. Suitable for deburring, chamfering, narrow area's and deep grooves polishing.



Stroke Length: 0.7 mm

Rpm: 15.000

Dimensions: Ø 18

Length: 180 mm

Hose Unit: Inclusive

Weight: 250 g.

↕ **Moving Up and Down**

Standard Accessories



During Operation:



Please operate with 2-3 drops of oil per minute.



Please use protective goggles, masks and ear plugs.

Rotary Air Grinder Tools



Angled Grinder 90°

Order: **AG90**

↻ **Rotating Tip**



Angled Grinder 45°

Order: **AG45**

↻ **Rotating Tip**

Rpm: 23.500 / Hose Unit: Inclusive / Grinding / Abrasive Dics Ø: 30 mm

Dimensions: (AG-90) Ø 17 x Length: 140 mm / Weight: 170 g.

Dimensions: (AG-45) Ø 17 x Length: 153 mm / Weight: 180 g.

During Operation:



Please operate with 2-3 drops of oil per minute.

Air File Tool

Order Code: **AR070**

Long Stroke

Suitable for general polishing and finishing.

Long stroke, adjustable power, low noise & vibration and robust tool life.



Stroke Length: 0.7 mm

Rpm: 35.000

Dimensions: Ø 28

Length: 200 mm

Hose Unit: Inclusive

Weight: 200 g.

↔ **Forward and Backward Movement**

Standard Accessories



During Operation:



Please operate with 2-3 drops of oil per minute.



Please use protective goggles, masks and ear plugs.

Air File Tool

Order Code: **AR991**

Heavy Duty

Low speed, high torque and 0.6 mm stroke. It provides high grinding with rigid and stable power. Suitable for details / narrow area's and deep grooves polishing.



Stroke Length: 0.6 mm / Hose Unit: Inclusive

Rpm: 4.500 / Weight: 660 g.

Dimensions: Ø 30 x 140 x 206 mm

Standard Accessories



↔ **Forward and Backward Movement**

During Operation:



Please operate with 2-3 drops of oil per minute.



Please use protective goggles, masks and ear plugs.

Accessories for Air File Tool

	3 mm 1 mm Split	Flat 1 mm Split	Flat 3.2 x 13	Flat 3.2 mm Split	Flat 6.3 x 13	Adjustable Holder (wide)
Order Code	AR - 664	AR - 665	AR - 661	AR - 662	AR - 667	AR - 666
AR - 030	●	●	○	●	○	●
AR - 070	●	●	○	●	○	●
SAR - 070	●	●	●	●	○	●
AR - 991	●	●	●	●	●	●

● **Standard Holder**
(available in box)

◐ **Optional Holder**

○ **Incompatible**



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Polishing Equipment

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Polishing Equipment



Ultrasonic Polishing Machine

Order Code: **AR108**

"AR108" can assist in reducing finishing time by up to 50% on hardened tools steel working on very small mould cavity & core details, extrusion dies and more. It is an advanced technological product realizing all difficult works.

Main Supply: AC 90V - 250V

Ultrasonic Output: 40 watt

Vibration Frequency: 18 - 25 kHz

Stroke Amplitude: 10 - 35 µm

Power Consumption: 46 watt

Dimensions: 192 x 156 x 96 mm

Weight: 0.7 kg

HANDPIECE

Dimensions: 30 x 130 mm

Weight: 175 gr.

SET CONTENT:

- * Ultrasonic Handpiece
- * Power Cord
- * Handpiece Cord
- * Wrench (HEX)
- * Handpiece Rest
- * Tool Changing Rack
- * Wrench
- * 2x Holder (Ø3 & 1 mm)
- * Foot Switch



Video



Electrical Spiral Motor

Code: **BM...A**

Economical and modular for levelling and polishing. Powerful motors provide facilities for users in levelling and polishing processes. Rotary spiral spring in Spiral Rod is only for tool to be used with 2.35 - 3 & 4 mm collets. However, in some cases, 6 mm collet also can be used softly / without pressing. To avoid rising heat at long uses, waiting at short intervals can be required. To provide continuance of work in uses a spare Spiral Rod can be kept.

Note: Spiral Rod should be ordered separately.

Order Code	Specification
BM21A	Rpm: 15.000 / Power: 125 Watt
BM23A	Rpm: 25.000 / Power: 200 Watt
BM26A	Rpm: 25.000 / Power: 300 Watt
BM24A	Rpm: 22.500 / Power: 500 Watt

Motor Accessories



Order Code	Specification
M19KK	Spiral Rod / 1040 mm
M19FTK	Spiral Rod with Latch / 1000 mm
YP..Ø	Spare Collets / 2.35 - 3 - 4 - 6 mm
BM..W	Foot Switch for Spiral Motor when ordering: specify current motor watt



Motor Hanger

Order Code: **M18A**

Foot Switch and cable connections of Electrical Spiral Motors are presented in packing. To use motor stably, we recommended you to use Hanger. With the help of the hanger spring, it absorbs the vibrations caused by the motor and prevents the vibrations from passing to the workbench.



Corded Rotary Tool

Order Code: **STRONG**

- + **Compact Design**
- + **Ergonomic Design**
- + **Non Stage Speed System**
- + **High Torque**

With electronic cycle adjusted control unit, it starts with micro motor rotary tool at desired speed. It can work faster and serially with foot switch, desktop precision operations can be done with practical and powerful electronic machine. It is economical.

Technical Details

Rpm: 35.000

Torque: 280 gf.cm

Collet: Ø 3mm

Input: 100 V / 230 V (50/60Hz)

Output: DC 0-32V

Weight: Control Box 1.7 kg.

- * Hand / Foot speed control system
- * Foot Speed Pedal or Foot ON - OFF Pedal - Option

Buttons Function



NEW

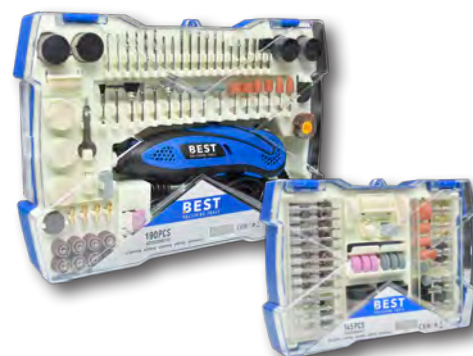
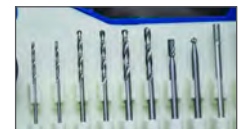
PERFECT  Price
Performance

✓ Fast ✓ Compact ✓ Universal
BEST Multi-Function Grinding Kit / 190 pcs
Order Code: 6218001001
Kit Contents - 190 pcs:

- | | |
|--|------------------------------------|
| • 1x Electrical Rotary Tool | • 1x Diamond Compound |
| • 1x Flexible Driver | • 30x Cutting Discs |
| • 1x Mini Plastic Drawer | • Heavy-duty |
| • 4x Collets | • 36x Cutting Discs Regular |
| • 16x Abrasive Rolls | • 40x Abrasive Papers |
| • 10x Mounted Points | • 7x Felt Discs |
| • 2x Mandrel for Cutting Discs | • 1x Tapered Pointed Felt |
| • 1x Mandrel for Felt Discs | • 1x Abrasive Mop Wheel |
| • 2x Mandrel for Abrasive Rolls | • 2x HSS End-mills |
| • 10x Grinder Discs | • 6x CBN Grinding Points |
| • 1x Polishing Stone | • 6x HSS Drills |
| • 5x Fiberglass Cutting Discs | • 3x Mounted Hair Brushes |
| • 1x Polishing Rubber | • 3x Mounted Wire Brushes |
| • 1x Wrench | • 1x Pointed Felt |


BEST Multi-Function Grinding Accessory Kit / 145 pcs
Order Code: 6218002001
Kit Contents - 145 pcs:

- **3x** Collets
- **16x** Abrasive Rolls
- **1x** Tapered Pointed Felt
- **1x** Felt Disc
- **4x** Felt Discs
- **1x** Wrench
- **40x** Abrasive Papers
- **5x** Fiberglass Cutting Discs
- **12x** Grinder Discs
- **1x** Polishing Stone
- **2x** Mandrel for Abrasive Rolls
- **1x** Mounted Hair Brush
- **6x** Mounted Points
- **2x** Mandrel for Cutting Discs
- **1x** Mandrel for Felt Discs
- **1x** HSS End-mill
- **5x** CBN Grinding Points
- **4x** HSS Drills
- **36x** Cutting Discs / Regular
- **1x** Mounted Wire Brush
- **1x** Polishing Rubber
- **1x** Cloth Felt



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Polishing Equipment

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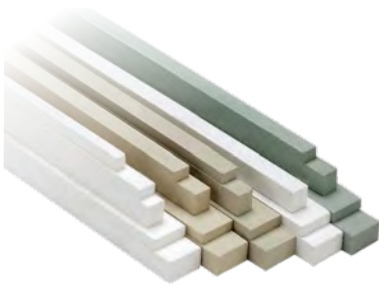
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



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Polishing Equipment



Code: **EG..**

EDM Polishing Stones

Type: EGK	Type: EGD	Type: EGY	Type: EGU
			
width x length	width x length	diameter x length	width x length
4 x 4 x 100	6 x 3 x 150	6 x 150	8 x 8 x 150
6 x 6 x 150	13 x 3 x 150	8 x 150	10 x 10 x 150
8 x 8 x 150	13 x 6 x 150	10 x 150	-
10 x 10 x 150	-	12 x 150	-

EDM Polishing Stones are produced to make excellent levelling / polishing on rough surfaces. It takes the shape of the surface it works with by making fast cutting. It works precisely on figured surfaces. EDM Polishing Stones are suitable for manual and Air File Tool use. Hard and complex, especially in deep areas, long polishing stones can be selected. At flat and wide areas, short polishing stones can be less fragile by avoiding skidding.

When using by hand, use a holder. Different type holders at our Air File Tools present extensive usage opportunity. For softer and clean polishing stone usage, you can use your polishing stone by steeping in low oil liquid etc. To use right graduation from coarse polishing stone to fine one on surface is important. Cleaning of operation area is also important.



Order: **Type. Dimension. Grit**

EDM Polishing Stone Holders

Manually Operated



Capacity: 6 x 3 / 13 x 3
Order Code: **GT - 613**



Capacity: Ø4 - 6 / Ø8 - 10
Order Code: **GT - 468**

Air File Tool Operated



Capacity: 13 x 3 / 13 x 6
Order Code: **GT - 133**



Order Code: **AR 661**



Order Code: **AR 662**



Order Code: **AR 666**



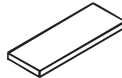
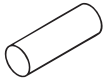
Order Code: **AR 667**

Grit	Operation
#120	Levelling
#150	
#180	
#220	Pre Polishing
#280	
#320	
#400	
#600	Finishing
#800	
#1000	



Code: **CS...**

Fiber Ceramic Polishing Stones Types

Grit Code			
CSC	#180		
CSO	#250	Thickness: 1 mm	Diameter: 3 mm
CSD	#280		
CSN	#360	Width x Length	Diameter
CSB	#400	4 x 100	Ø3 x 100
CSY	#700	6 x 100	
CSR	#1200	10 x 100	

"CS" Fiber Ceramic Polishing Stones are the excellent stones for detail polishing. They prepared by pressing with resin binder spraying screened, gauged micron diamond particles on powerful fiber textured ceramic, "CS" Ceramic Stones have the feature of resistance with flexible structure against breakage.

Optimal for premium polishing of flat surfaces, hard to reach slots, ribs and corners. High polishing productivity can be obtain without clogging. "CS" Ceramic Stones can be used in our Air File Tools or by hand (please see below for manual holders).



Order: **Grit Code. Dimension**

Fiber Ceramic Polishing Stone, Manual Holders



Order Code: **WH041**
1 x 4 x 100



Order Code: **WH061**
1 x 6 x 100



Order Code: **WH101**
1 x 10 x 100



Order Code: **WH22K**
Ø 3 x 100



SCG: Hard Steel

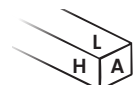


EKR: General Steel

Polishing Block Stone

For wide surface levelling and chamfering / deburring.

Order Code	A	H	L
BG100 x EKR or SCG	16	25	100
BG125 x EKR or SCG	20	40	125
BG150 x EKR or SCG	25	50	150
BG200 x EKR or SCG	25	50	200





Pink Mounted Points

Code: **SPT**

Mounted Points - Shank Diameter: **3 mm**

Form - A - R								
Type:	256 A	308 A	410 A	510 A	612 A	816 A	1016 A	813 R
D x L	2.5 x 6	3 x 8	4 x 10	5 x 10	6 x 12	8 x 16	10 x 16	8 x 13

Form - B - R								
Type:	30 B	40 B	50 B	60 B	80 B	100 B	120 B	1224 R
D x L	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	12 x 24

Type:	308 T	310 T	412 T	710 T	412 J	616 J	816 J	1016 J
D x L	3 x 8	3 x 10	4 x 12	7 x 10	4 x 12	6 x 16	8 x 16	10 x 16

Type:	612 P	815 P	1018 P	412 K	515 K	816 K	132 E	133 E
D x L	6 x 12	8 x 15	10 x 18	4 x 12	5 x 15	8 x 16	13 x 2	13 x 3

Type:	609 S							
D x L	6 x 9							

Shank 3 mm



Order: **SPT**. Type



Pink Mounted Points

Code: **SPT**

Mounted Points - Shank Diameter: **6 mm**

Form A								
Type:	1608 A	2008 A	2016 A	2510 A	2520 A	3220 A	4025 A	5030 A
D x L	16 x 8	20 x 8	20 x 16	25 x 10	25 x 20	32 x 20	40 x 25	50 x 30

Form B								
Type:	1015 B	1620 B	2020 B	2030 B	2040 B	2525 B	2532 B	3040 B
D x L	10 x 15	16 x 20	20 x 20	20 x 30	20 x 40	25 x 25	25 x 32	30 x 40

Form - C - D - F								
Type:	2508 C	3208 C	4010 C	1220 D	2035 D	0816 F	1320 F	2032 F
D x L	25 x 8	32 x 8	40 x 10	12 x 20	20 x 35	8 x 16	13 x 20	20 x 32

Form E								
Type:	0816 E	1230 E	1640 E	2030 E	2040 E	2525 E	2540 E	3240 E
D x L	8 x 16	12 x 30	16 x 40	20 x 30	20 x 40	25 x 25	25 x 40	32 x 40

Form - G - H - J								
Type:	2016 G	2520 G	10 H	15 H	20 H	1225 J	1632 J	2040 J
D x L	20 x 16	25 x 20	Ø 10	Ø 15	Ø 20	12 x 25	16 x 32	20 x 40

Shank 6 mm



Order: **SPT**. Type



"SPT" Mounted Points are suitable to soft and hard surfaces. With formation of aluminium oxide & ceramic grain textured in fast material removal feature, the mounted points provide the desired performance on all kinds of surfaces. After process, it can be ready for polishing by cleaning off point traces on surface with Rubber Mounted Polishing Points. There should be at least 10 mm fastening length at collet. Operation should be soft without pressing.

Cutting speed max.: 25 m / s. Calculation: $n = V (m/s) \times 60.000$
 $D = (mm) \times 3.14$

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Shank: 3 mm

Mounted Wire Brushes

These brushes are very successful in cleaning EDM and deep burrs traces (especially with "Diamond Compound 14/7" Order Code: SDP14).



Conical & Brass Wired
Ø 15 x 10 mm
Order Code: **STF158**



Conical & Inox Wired
Ø 15 x 10 mm
Order Code: **SMF158**



Disc & Brass Wired
Ø 22 x 2 mm
Order Code: **STF222**



Disc & Inox Wired
Ø 22 x 2 mm
Order Code: **SMF222**



Flat & Brass Wired
Ø 8 x 14 mm
Order Code: **STF148**



Flat & Inox Wired
Ø 8 x 14 mm
Order Code: **SMF148**



Shank: 3 mm

Mounted Hair Brushes

Mounted Hair Brushes facilitating polishing process and not requiring extra tool. These brushes form the perfect surface with fine micron Diamond Compounds at final polishing. The black brush is made of nylon and is classified as medium-hard, while the white brushes are made of goat hair and fall into the softer category.



Conical Brush
Ø 16 x 8 mm
Order Code: **SKFS 16**



Conical Brush
Ø 16 x 8 mm
Order Code: **SKF 16**



Disc Brush
Ø 22 x 2 mm
Order Code: **SKFS 25**



Disc Brush
Ø 22 x 2 mm
Order Code: **SKF 25**



Conical Brush
Ø 8 x 14 mm
Order Code: **SKF 168**



Upon request:
Shank 2.35 mm is available.



Code: **ML..**

Shank: 3 mm

Mini Abrasive Roll Set

Mini Abrasive Rolls & Holder Set.

It is sold in package: 5 + 5 coarse - fine grit and holder (10 pcs abrasive + 1 pcs holder).

Order Code	Abrasive	Grit
ML04	Ø 4 x 15 mm	# 120 5pcs.
ML05	Ø 5 x 15 mm	
ML06	Ø 6 x 15 mm	
ML08	Ø 8 x 20 mm	# 320 5pcs.
ML10	Ø 10 x 20 mm	



Mini Abrasive Rolls

Code	Abrasive	Grit
SPZ12	Ø 12 x 30 mm	# 80
SPZ15	Ø 15 x 30 mm	
SPZ20	Ø 20 x 30 mm	# 100
SPZ25	Ø 25 x 30 mm	
SPZ30	Ø 30 x 30 mm	# 120
SPZ40	Ø 40 x 30 mm	# 220
SPZ50	Ø 50 x 50 mm	
SPZ60	Ø 60 x 35 mm	



Order:
Code x Grit

Holder for Abrasive Rolls

Order Code	Abrasive	Shank - Length
SPL12	Ø 12	Ø 6 - 60
SPL15	Ø 15	Ø 6 - 60
SPL20	Ø 20	Ø 6 - 60
SPL25	Ø 25	Ø 6 - 60
SPL30	Ø 30	Ø 6 - 60
SPL40	Ø 40	Ø 6 - 65
SPL50	Ø 50	Ø 6 - 65
SPL60	Ø 60	Ø 6 - 65



Shank: 3 mm

Rubber Mounted Polishing Point

Ceramic, Hard Type & Pre-polishing

Form CK							
Order:	CK 03	CK 04	CK 05	CK 06	CK 08	CK 10	CK 12
D x L	3 x 13	4 x 13	5 x 15	6 x 17	8 x 20	10 x 20	12 x 20

Form FK							
Order:	FK 03	FK 04	FK 05	FK 06	FK 08	FK 10	FK 12
D x L	3 x 13	4 x 13	5 x 15	6 x 17	8 x 20	10 x 20	12 x 20



Rubber Mounted Polishing Point

Rubber, Soft Type & Finishing

Form RK					
Shank 3 mm					
Order:	RK 04	RK 06	RK 08	RK 10	RK 12
D x L	4 x 13	6 x 17	8 x 20	10 x 20	12 x 20

Form RKK					
Shank 6 mm					
Order:	RKK 10	RKK 12	RKK 16	RKK 20	RKK 25
D x L	10 x 20	12 x 20	16 x 25	20 x 25	25 x 25





Mounted Polishing Felts

Code: **SPK**

Mounted Felts – Shank Diameter: **3 mm**

Form A	D	L							
Type:	0410 A	0509 A	0610 A	0810 A	1014 A	1220 A	1520 A	2020 A	
D x L	4 x 10	5 x 9	6 x 10	8 x 10	10 x 14	12 x 20	15 x 20	20 x 20	

Form - C - H									
Type:	0408 C	0509 C	0610 C	0810 C	1013 C	1214 C	1520 C	1218 H	
D x L	4 x 8	5 x 9	6 x 10	8 x 10	10 x 14	12 x 14	15 x 20	20 x 20	

Type:	0410 J	0512 J	0616 J	0817 J	1014 J	1020 J	1220 J	1225 J	1218 T
D x L	4 x 10	5 x 12	6 x 16	8 x 17	10 x 14	10 x 20	12 x 20	12 x 25	12 x 18

Type:	08 B	10 B	12 B	18 B	1014 R	1225 R	2505 L	2207 L	2210 L
Ø	Ø 8	Ø 10	Ø 12	Ø 18	10 x 14	12 x 25	25 x 5	22 x 7	22 x 10

Shank 3 mm



Order: **SPK**. Type



Mounted Polishing Felts

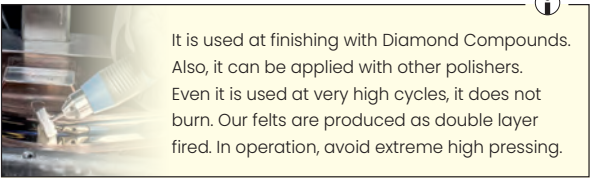
Code: **SPK**

Mounted Felts – Shank Diameter: **6 mm**

Form - A - B	D	L							
Type:	1520 A	2020 A	2025 A	2530 A	3040 A	14 B	20 B		
D x L	15 x 20	20 x 20	20 x 25	25 x 30	30 x 40	Ø 14	Ø 20		

Form - E - C									
Type:	2110 E	3015 E	4020 E	5030 E	1520 C	2025 C	2530 C		
D x L	25 x 10	30 x 15	40 x 20	50 x 30	15 x 20	20 x 25	25 x 30		

Form - K - H - G									
Type:	1018 K	1220 K	1525 K	2025 K	2530 K	1530 H	1030 G		
D x L	10 x 18	12 x 20	15 x 25	20 x 25	25 x 30	15 x 30	10 x 30		



It is used at finishing with Diamond Compounds. Also, it can be applied with other polishes. Even it is used at very high cycles, it does not burn. Our felts are produced as double layer fired. In operation, avoid extreme high pressing.

Shank 6 mm



Order: **SPK**. Type



Adhesive Felt Discs

Order: **Y18D** – Ø 18 x 4 mm
Order: **Y30D** – Ø 30 x 4 mm
Order: **Y45D** – Ø 45 x 4 mm



Mounted Felt Sticks

Usage with Electrical or Air Tools.
Order: **S06D** – 6 x 6 x 25 mm
Order: **S10D** – 10 x 10 x 35 mm
Order: **S12D** – 12 x 12 x 45 mm



Polishing Felt Sheets

It can be adhered to your tool by cutting.
Order: **P325** – 6 x 250 x 250 mm
Order: **P625** – 10 x 250 x 250 mm
Order: **P1025** – 12 x 250 x 250 mm



Felt Polishing Sticks

Suitable for manual usage.
Order: **E06K** – 6 x 6 x 150 mm
Order: **E10K** – 10 x 10 x 150 mm
Order: **E12K** – 12 x 12 x 150 mm

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Polishing Equipment



Wooden Tools

Code: **AC ..**

Code: **ASK ..**

It is suitable to polish with Wooden Felts at narrow and radius areas of moulds, areas unsuitable to use polishing stones.

Order Code	Dimension	Order Code	Dimension	Type
ASK 06	Ø 6 x 15	AC 06	6 x 6 x 150	Square
ASK 10	Ø 10 x 20	AC 10	10 x 10 x 150	Square
ASK 15	Ø 15 x 25	AC 12	12 x 12 x 150	Square
ASK 20	Ø 20 x 30	AC 03	6 x 3 x 150	Rectangular
ASK 010S	Ø 10	AC 13	13 x 6 x 150	Rectangular
		AC 20	20 x 8 x 150	Rectangular
		ACS 6	Ø 6 x 150	Round
		ACS 8	Ø 8 x 150	Round



GT-133

Plexiglass Polishing Sticks

It becomes a precision Diamond File when used with Diamond Compounds. GT-133 is a suitable holder for tool usage.

Order Code

PC 08 - 8 x 8 x 150 / Square

PC 10 - 10 x 6 x 150 / Rectangular

PC 13 - 13 x 6 x 150 / Rectangular

Order Code

PC 06 - 6 x 150 / Round

GT 133 - Holder
(suitable for tool usage)



Mini Cutting Disc

It is used in cutting operation of all metals including hard steels at Rotary Tools.

Order	Dia.	Length	Mandrel
KS 25	25	0.65	Ø 2.35 Ø 3
KS 40	40	1.0	
KS 60	60	1.5	



Ø 25 x 3.2
80 Grit

Grinder Disc

Because it is circular, it is mostly used at thread ranges, cutting tool edges and mould machine production.

Order	Specificatio
DP 25	Disc
VM 03	Mandrel



Polishing Rubbers

Cylinder (Ø 6 x 22)	Order Code:	Disc (Ø 20 x 3)	Order Code:
Red (medium)	KK 06	Red (medium)	DK 06
Black (hard)	KS 06	Black (hard)	DS 06
Mandrel	DM 03	Mandrel	VM 03



Diamond Compounds

Code: **SDP**

Our Diamond Compounds have been formulated using a blend of high quality diamond grit, polisher chemical mixture and herbal oil. It is highly concentrated. Reasonable price and in box packaged as 20 g. syringe. From rapid stock removal process to final polishing process, it cleans EDM traces in hard areas by removing burrs (stock removal). Our Diamond Compounds are soluble in both oil and water. During operation, the compound may get lumpy / dry, in this case, it can be moisturised with 1-2 drops of Diamond Compound Moisturiser (order code: **SDS200**). Package 20 gr.

Order Code	Micr on (µm)	Approx. Mesh	Application
SDP 01	0 / 1	#60.000	Final Polishing
SDP 02	2 / 1	#14.000	
SDP 03	3 / 2	#8.000	
SDP 05	5 / 3	#4.000	
SDP 07	7 / 5	#3.000	Pre Polishing
SDP 10	10 / 7	#1.700	
SDP 14	14 / 17	#1.500	
SDP 20	20 / 14	#1.100	
SDP 28	28 / 20	#800	Rapid Stock Removal
SDP 40	40 / 28	#550	
SDP 60	60 / 40	#500	

Application: Application is usually done with circular movements. During operation, cleaning is very important and it absolutely should be done at every stage. The sequence should be followed from coarse to fine micron. Polishing tools for each micron compound should be specified and should be used only at that micron, absolutely don't mix with other micron compounds. For cleaning of mould surface, our "Cleaning Spray" (order code: GTH1010) is an effective, economic and provide easiness. As a surface protector, you can choose our "Protective Wax Spray" (order code: W160106).

Diamond Compound Moisturiser

Order Code: **SDS200**

During operation, the compound may get lumpy / dry, in this case, it can be moisturised with 1-2 drops of Diamond Compound Moisturiser.

Package: 200 g.



Metal Polisher Paste

Order Code: **MARPOL**



Metal work pieces lose their gloss in time and can be oxidized. In this case, Metal Polisher Paste cleans surfaces and purifies from rust and dirt's. It is a very good dirt remover, it does not remove burrs and only cleans and polishes. Package: 200 g.



Code: **DZ**

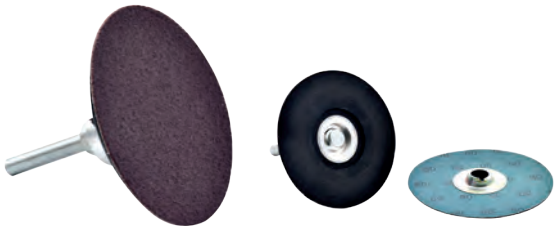
Code: **DZL**

Self-adhesive Abrasive Disc

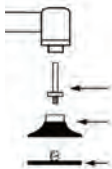
Order	Abrasive	Grit	Holder	Shank
DZ12 or DZL12	Ø 12	# 60 # 80	Ø 12	3 mm 6 mm
DZ20 or DZL20	Ø 20	# 100 # 120	Ø 20	
DZ30 or DZL30	Ø 30	# 180 # 220	Ø 30	
DZ40 or DZL40	Ø 40	# 320 # 400	Ø 40	
DZ50 or DZL50	Ø 50	# 500 # 600	Ø 50	

Order: **DZ..** x Grit

Order: **DZL..** x Shank



Clip-on Abrasive Disc



Abrasive Disc

Code: **KZD**

Order	Disc	Grit
KZD 38	Ø 38	# 36
KZD 51	Ø 51	# 80
KZD 76	Ø 76	# 120

Mandrel

Code: **KLT**

Order	Shank	Rubber
KLT 63	6 mm	38 mm
KLT 65	6 mm	51 mm
KLT 67	6 mm	76 mm



Tapered Abrasive Cartridge Rolls

Code: **RZ..**

It is ideal for grinding in limited and narrow areas. When the outermost abrasive is worn down, non-worn abrasive found in lower layers appears.

Application: Please always grind by using tip instead of surface. During operation, wear protective goggles. Cutting speed: 11 m / s max.

Code	Abrasive	Grit
RZ 06	6 x 38	# 80 # 120 # 220
RZ 10	10 x 38	
RZ 13	13 x 38	
RZ 16	16 x 38	
RZ 20	20 x 38	Mandrel
TM 03	3 x 30	
TM 06	6 x 60	



Order: **Code x Grit**

Order Example:
RZ16 x 220



Abrasive Mop Wheels

Code: **MZ**

During operation, wear protective goggles. **Cutting speed:** 15 - 20 m / s max.

Code	D	L	d	L1	Grit
MZ3 1515	15	15	3	40	# 40
MZ3 2020	20	20			# 40
MZ6 2015	20	15	6	40	# 60
MZ6 2020		20			# 60
MZ6 2515	25	15	6	40	# 80
MZ6 2525		25			# 100
MZ6 3015	30	15	6	40	# 120
MZ6 3025		25			# 120
MZ6 4020	40	20	6	40	# 180
MZ6 4030		30			# 180
MZ6 5020	50	20	6	40	# 220
MZ6 5030		30			# 220
MZ6 6020	60	20	6	40	# 320
MZ6 6040		40			# 320
MZ6 8040	80	40	6	40	# 400

Order: **Code x Grit**

Order Example:
MZ6 2515 x 80

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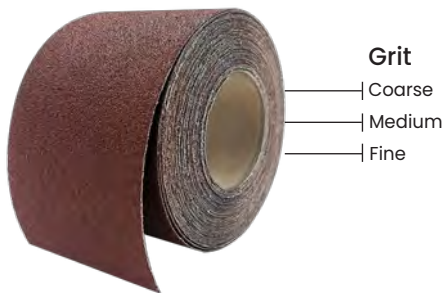
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Polishing Equipment



Grit

Coarse

Medium

Fine

Abrasive Cloth Rolls

Code: **BZ**

Order Code	Grit	Operation	Width	Package
BZ 40	# 40	Coarse	150 mm	1 Metre
BZ 60	# 60			
BZ 80	# 80			
BZ 100	# 100			
BZ 120	# 120			
BZ 150	# 150	Medium		
BZ 180	# 180			
BZ 220	# 220			
BZ 280	# 280			
BZ 320	# 320			
BZ 400	# 400	Fine		
BZ 600	# 600			
BZ 800	# 800			



Waterproof Abrasive Paper

Code: **SZ**

Order Code	Grit	Operation	Dimension	Package
SZ 40	# 40	Coarse	230 x 280 mm	1 Pcs.
SZ 60	# 60			
SZ 80	# 80			
SZ 100	# 100			
SZ 120	# 120			
SZ 150	# 150	Medium		
SZ 180	# 180			
SZ 220	# 220			
SZ 280	# 280			
SZ 320	# 320			
SZ 400	# 400	Fine		
SZ 600	# 600			
SZ 800	# 800			
SZ 1000	# 1000			
SZ 1200	# 1200			



Polishing & Cleaner Block

Code: **KS..**

It is for lapping, polishing and cleaning. Polishing & Cleaner Block is a multi-purpose abrasive cleaner, impregnated throughout with sharp abrasive grit. Removes light rust or tarnish restoring a bright metal finish. Suitable for dry or wet use. **Block Dimension:** 80 x 50 x 20 mm.

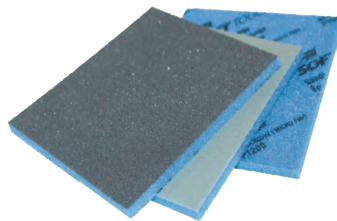


Order Code: HRD - KST36
Extra Coarse - 36 grit (burgundy)

Order Code: HRD - KST60
Coarse - 60 grit (blue)

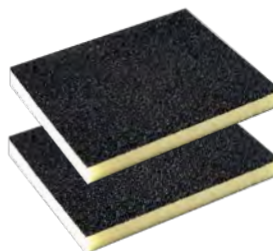
Order Code: HRD - KST120
Medium - 120 grit (grey)

Order Code: HRD - KST240
Fine - 240 grit (brown)

Code: **SM..**

Waterproof Abrasive Paper with Sponge

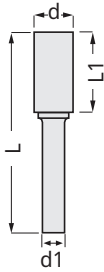
Order Code	Grit	Width	Package
SM 150	# 150	115 mm	1 Metre
SM 220	# 220		
SM 280	# 280		
SM 320	# 320		
SM 400	# 400		

Code: **EZ..**


Foam Abrasive Pads

All sides of the pad can be used.
Easy to clean and you can use repeatedly.

Order Code	Grit	Dimension	Package
EZ 60	# 60	100 x 68 x 27 mm	1 Pcs.
EZ 100	# 100		
EZ 150	# 150		
EZ 220	# 220		
EZ 320	# 320		



Shape A: Standard cut for general operations.
Shape B: Double cut for general purpose use. Improves control and reduces chips. The cross toothing provides a higher cutting capacity compared with the simple toothing.
Shape C: Diamond cut for hardest materials and finest finishes.
Shape D: Aluminium toothing.
Usage area; non-ferrous metals, aluminium, brass, copper, diecasts, zinc and plastics. To debur, break edges, trim and surface machining.

 **During Operation:** Please use protective goggles, masks and ear plugs.

Carbide Rotary Burrs



Order: **Code. Shape**

Order Example: **SA14. B**



Cylinder Type - DIN 8033

Code	d	d1	L	L1	Shape
SA 42	2.5	3	38	11	B
SA 43	3		38	14	
SA 14	5	6	50	16	A
SA 01	6		50	16	C
SA 03	9.5		63	19	D
SA 05	12.7		69	25	



Cylinder Type with Endcut

Code	d	d1	L	L1	Shape
SB 42	2.5	3	38	11	B
SB 43	3		38	14	
SB 14	5	6	50	16	A
SB 01	6		50	16	C
SB 03	9.5		63	19	D
SB 05	12.7		69	25	



Radius Cylindrical Type

Code	d	d1	L	L1	Shape
SC 42	3	3	38	14	B
SC 422	3		50	14	
SC 14	5	6	50	16	A
SC 01	6		50	16	C
SC 03	9.5		63	19	D
SC 05	12.7		69	25	



Ball Type

Code	d	d1	L	L1	Shape
SD 41	2.5	3	38	2.3	B
SD 42	3		38	2.5	
SD 14	5	6	50	4.0	A
SD 01	6		50	5.0	C
SD 02	8		50	6.4	D
SD 03	9.5		52	8.0	



Pointed Tree Type

Code	d	d1	L	L1	Shape
SG 41	3	3	38	6.0	B
SG 43	3		38	9.5	
SG 01	6	6	50	16	A
SG 02	8		63	19	C
SG 05	12.7		69	25	D
SG 06	16		69	25	



Flame Type

Code	d	d1	L	L1	Shape
SH 41	3	3	38	6.3	B
SH 411	3		50	6.3	
SH 01	6	6	50	9.5	A
SH 02	8		63	19	C
SH 05	12.7		76	32	D
SH 06	16		80	36	



Radius Cone Type

Code	d	d1	L	L1	Shape
SL 41	3	3	38	9.5	B
SL 42	3		38	12.7	
SL 01	6	6	50	16	A
SL 02	8		69	22	C
SL 04	12.7		76	28	D
SL 06	16		80	33	



90° Cone Type

Code	d	d1	L	L1	Shape
SK 42	3	3	38	1.5	B
SK 01	6	6	50	3.0	A
SK 03	9.5		52	4.7	C
SK 06	16		57	8	D

Economic Series

Diamond File Set - 10 pcs.

Order Code: **TPF10E**



Grit:
150
200
400

Contains one file each of:

Hand, flat, triangular, square, half round crossing, round, knife, barrette and slitting.

Cross Section: 3 x 140 mm

Diamond File Set - 10 pcs.

Order Code: **13710** 4 x 160 mm



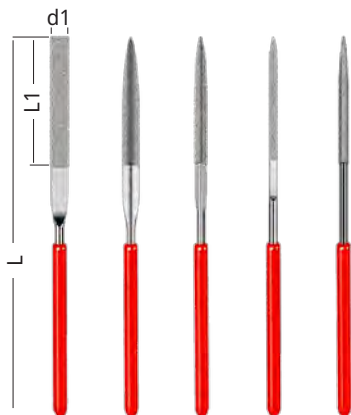
Diamond File Set - 5 pcs.

Order Code: **13711** 4 x 160 mm



Die Sinkers Diamond Riffler File Set - 5 pcs.

Order Code: **13726** 3 x 140 mm



Diamond Files



Diamond File - Hand

Order Code	Shank	d1 x L1 x L
ELE 140	Ø 4	5 x 70 x 140
ELE 160	Ø 5	8 x 50 x 160
ELE 200	Ø 5.5	8 x 70 x 200



Diamond File - Half Round

Order Code	Shank	d1 x L1 x L
EYY 140	Ø 4	5 x 70 x 140
EYY 160	Ø 5	8 x 50 x 160
EYY 200	Ø 5.5	8 x 70 x 200



Diamond File - Round

Order Code	Shank	d1 x L1 x L
EYE 140	Ø 4	Ø 3 x 70 x 140
EYE 160	Ø 5	Ø 4 x 50 x 160
EYE 200	Ø 5.5	Ø 4 x 70 x 200



Diamond File - Square

Order Code	Shank	d1 x L1 x L
DEE 140	Ø 4	3 x 70 x 140
DEE 160	Ø 5	3.6 x 50 x 160
DEE 200	Ø 5.5	3.6 x 70 x 200






Diamond File - Triangular

Order Code	Shank	d1 x L1 x L
UEE 140	Ø 4	3.7 x 70 x 140
UEE 160	Ø 5	5 x 50 x 160
UEE 200	Ø 5.5	5 x 70 x 200

Premium Series

Diamond Tapered Files - Hand



Order Code	Cross Section	Diamond Length	Total Length
CF 503		60	180 mm
CF 502		60	
CF 501		70	

Diamond File - Round

Order Code: **IF503**



Shank: 5 x 5

Diamond: 80 mm / Total: 215 mm

Diamond File - Half Round

Order Code: **IF502**



Shank: 11 x 4

Diamond: 80 mm / Total: 215 mm

Diamond File - Flat

Order Code: **IF501**



Shank: 11 x 4

Diamond: 80 mm / Total: 215 mm

Diamond File - Triangular

Order Code: **IF505**



Shank: 11 x 4

Diamond: 80 mm / Total: 215 mm

Diamond File - Square

Order Code: **IF504**



Shank: 6 x 6

Diamond: 80 mm / Total: 215 mm

Diamond File with Handle - Flat

Order Code: **HX4**



Cross Section: 12.2 x 3.5 mm / Total: 100 mm

Diamond File with Handle - Flat

Order Code: **HX10**





Cross Section: 18.5 x 4.5 mm / Total: 250 mm

Diamond Tapered File Set – 5 pcs.

Order Code: **CF 500** Length: 180 mmGrit:
#150
#200

Set Content:

Width: 2.8 / Diamond Length: 70 Width: 2.5 / Diamond Length: 60 Width: 2.5 / Diamond Length: 60 Width: 2.0 / Diamond Length: 50 Width: 2.2 / Diamond Length: 50 

Diamond Tapered File Set – 12 pcs.

Order Code: **CF 400**

4 different model

4 different model & 12 pcs.

Hand: #150 #200 #400 Grit Length: 180 mm Hand: #150 #200 #400 Grit Length: 180 mm Hand: #150 #200 #400 Grit Length: 180 mm Hand: #150 #200 #400 Grit Length: 180 mm Diamond Tapered File Set – 10 pcs.
(with extension bar)Order Code: **PTF 10T**

4 different model



4 different model, 10 pcs. & with extension bar.

Hand: #200 #400 #600 Grit Length: 130 mm Hand: #200 #400 #600 Grit Length: 130 mm Hand: #200 #400 #600 Grit Length: 130 mm Hand: #200 #400 #600 Grit Length: 130 mm Round: #600 Grit Length: 140 mm 

Diamond Needle File Set – 10 pcs.

Order Code: **PFL 100** Shank: Ø3 / Length: 180 mm

Set Content:

Flat: #200 Grit 5.5 x 1.5 mm Half Round: #200 Grit 5.5 x 2.0 mm Round: #200 Grit Ø3.0 mm Square: #200 Grit 2.5 mm Triangular: #200 Grit 3.5 mm Crossing: #200 Grit 5.5 x 1.0 mm Flat: #400 Grit 5.5 x 0.5 mm Flat: #600 Grit 5.5 x 0.8 mm Round: #400 Grit Ø2.0 mm Riffler: #200 Grit 5.5 x 1.5 mm 

Diamond File Set – 5 pcs.

Order Code: **IF 500**Total Length: 215 mm
Diamond Length: 80 mm

Ø5.2 9 x 4 11 x 4 8 mm 6 mm | Grit: #100

Round – Half Round – Flat – Triangular – Square

Diamond Tapered
File Set – 10 pcs.Order Code: **PTF 100**

4 different model

Hand: #200 #400 #600 Grit Length: 130 mm Hand: #200 #400 #600 Grit Length: 130 mm Hand: #200 #400 #600 Grit Length: 130 mm Hand: #200 #400 #600 Grit Length: 130 mm Round: #600 Grit Length: 140 mm 



Diamond SDC Grinding Points

Code: **PEF**

These grinding points produced with electroplated method. They are designed for shaping and finishing hard materials including Tungsten Carbide and Ceramics. It is used at mould processing, mostly polishing runners or lapping other channels / holes areas making burrs and finishing.

Type:	10 A	15 A	20 A	25 A	30 A	35 A	40 A	50 A	30 V
D x L	1 x 8	1.5 x 8	2 x 8	2.5 x 8	3 x 10	3.5 x 10	4 x 10	5 x 10	3 x 10

20 B	30 B	50 B	15 C	20 C	25 C	30 C	35 C	40 C	50 C
Ø 2	Ø 3	Ø 5	1.5 x 8	2 x 8	2.5 x 8	3 x 10	3.5 x 10	4 x 10	5 x 10

20 F	30 F	50 F	20 P	30 P	15 R	20 R	30 R	20 T	30 T
2 x 10	3 x 10	5 x 10	2 x 12	3 x 15	1.5 x 10	2 x 12	3 x 14	2 x 10	3 x 10

40 Q	30 S	40 S	SPR 16	SPR 20	SPR 22	SPR 25	SPR		
4 x 7	3 x 6	4 x 8	16 x 0.5	20 x 0.5	22 x 0.5	25 x 0.6	Ø 3		



Order: **PEF**. Type

Shank: Ø3 mm

Full Length of Products: 45 mm



Diamond SDC Set - 30 pcs.

Order Code: **BMS - 30**

Contains one each of below:

PEF.10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A, 20B, 30B, 50B, 15C, 20C, 25C, 30C, 35C, 40C, 50C, 20P, 30P, 15R, 20R, 30R, 30S, 20F, 30F, 50F, 20T, 30T and 30V.

Diamond SDC Set - 20 pcs.

Order Code: **BMS - 20**

Contains one each of below:

PEF.10A, 15A, 20A, 25A, 30A, 35A, 15C, 20C, 25C, 30C, 20P, 30P, 15R, 20R, 30R, 20B, 30B, 20F, 30F and 20T.

Diamond SDC Set - Economic



* Contents are the same as the BMS set.

Order Code: **T20** 20 pcs.

Order Code: **T30** 30 pcs.

Diamond SDC Set - 50 pcs.

Order Code: **C280300**

Economic



Needle File Set -12 pcs.

Order Code: **BSE12** BAHCO

Contains one file each of:

Hand, flat, triangular, square, half round, crossing, round, knife, barrette, slitting, round-edge joint and marking. Type of cut: Fine, medium & coarse. * 3 x 160 mm



Needle File Set - 6 pcs.

Order Code: **BSE06** BAHCO

Contains one file each of:

Hand, flat, half round, round, triangular and square.

Type of cut: Medium * 3 x 160 mm



Needle File Set - 6 pcs.

Order Code: **1720** BETA

Contains one file each of:

Hand, flat, half round, round, triangular and square.

Type of cut: Medium * 3 x 160 mm



Needle File Set - 10 pcs.

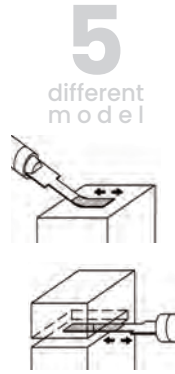
Economic

Order Code: **SE10**

Type of cut: Medium

* 3 x 140 mm





Diamond Tip File Set

Order Code: **FAS 100T**

10 pcs. & with extension bar.
Suitable for hand-held and Air File Tools.



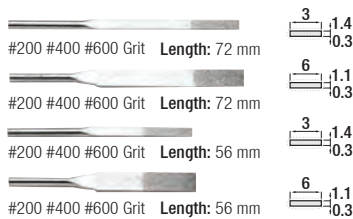
- * Length: 60 • Width: 4 ~ 2 • Grit: #150 #200
- * Length: 60 • Width: 4 • Grit: #150 #200
- * Length: 70 • Width: 6 • Grit: #150 #200
- * Length: 90 • Width: 8 • Grit: #150 #200
- * Length: 90 • Width: 10 • Grit: #150 #200

Diamond Tapered File Set - 12 pcs.

Order Code: **MTF 100**



4
different
model



For Air File Tools.

Shank: Ø 3.0 mm

Diamond
Length: 15 mm

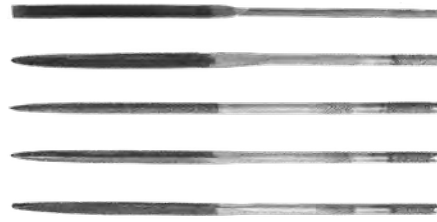
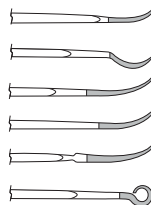
Diamond Riffler File Set - 6 pcs.

Order Code: **BF 800**

Shank: Ø 3.0 mm
Total Length: 155 mm



Contains one riffler file each of:
Crossing, hand, round, riffler, square and triangular.

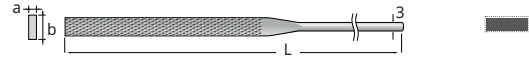


Steel Needle Files

It is ideal to work in the smallest surfaces, profiles and angles.
It can be used with or without handles.

Steel Needle File - Hand

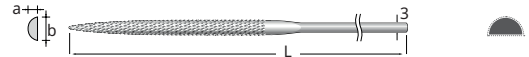
Code: **SLE**



Order Code	Shank	a x b	L	Operation
SLE 140	Ø 3	5.5 x 1.35	140	4 cut
SLE 160		6.2 x 1.45	160	

Steel Needle File - Half Round

Code: **SYV**



Order Code	Shank	a x b	L	Operation
SYV 140	Ø 3	5.0 x 1.75	140	3 cut
SYV 160		5.5 x 2.0	160	

Steel Needle File - Round

Code: **SYE**



Order Code	Shank	a (taper ed)	L	Operation
SYE 140	Ø 3	1.1 x 2.8	140	all sides
SYE 160		1.2 x 3.0	160	

Steel Needle File - Square

Code: **SKE**



Order Code	Shank	a (taper ed)	L	Operation
SKE 140	Ø 3	1.3 x 2.5	140	4 cut
SKE 160		1.4 x 2.7	160	

Steel Needle File - Triangular

Code: **SUE**



Order Code	Shank	a (taper ed)	L	Operation
SUE 140	Ø 3	1.0 x 3.2	140	3 cut
SUE 160		1.3 x 3.4	160	



File Cleaning Brushes

Order Code	Product
1737	145 mm / Brass Wire
1737 BA	294 mm / Soft Brass Wire
1737 NX	270 mm / Steel Wire



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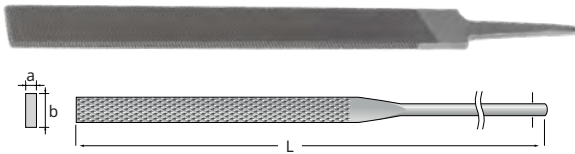
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Polishing Equipment

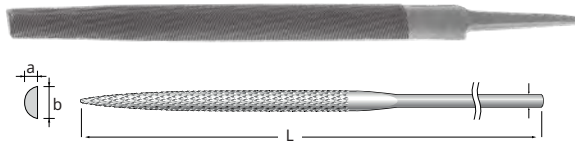


Engineers File - Hand

Code: **LHE**

Order Example: **LHE100**. Medium

Code	Inch	Cut	a	b	L
LHE 100	4"	Coarse	10	2.5	100
LHE 150	6"		16	4.0	150
LHE 200	8"	Medium	20	5.0	200
LHE 250	10"		25	6.5	250
LHE 300	12"	Fine	30	7.0	300

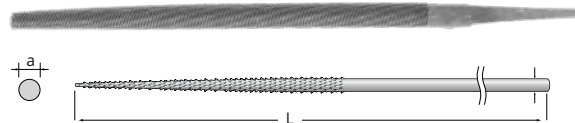


Engineers File - Half Round

Code: **YYE**

Order Example: **YYE300**. Coarse

Code	Inch	Cut	a	b	L
YYE 100	4"	Coarse	10	3.3	100
YYE 150	6"		16	5.0	150
YYE 200	8"	Medium	20	6.0	200
YYE 250	10"		25	7.0	250
YYE 300	12"	Fine	30	9.0	300

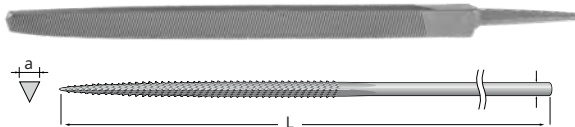


Engineers File - Round

Code: **YTE**

Order Example: **YTE200**. Medium

Code	Inch	Cut	a	L
YTE 100	4"	Coarse	Ø 4	100
YTE 150	6"		Ø 6	150
YTE 200	8"	Medium	Ø 8	200
YTE 250	10"		Ø 10	250
YTE 300	12"	Fine	Ø 12	300



Engineers File - Triangular

Code: **UTE**

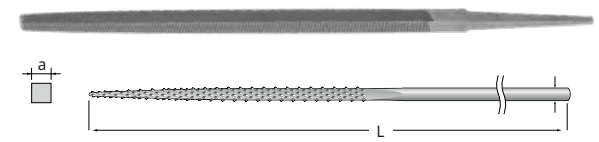
Order Example: **UTE300**. Medium

Code	Inch	Cut	a	L
UTE 100	4"	Coarse	7	100
UTE 150	6"		9	150
UTE 200	8"	Medium	11	200
UTE 250	10"		14	250
UTE 300	12"	Fine	17	300

Coarse: For material removing and deburring.

Medium: For general purpose and levelling.

Fine: Precision filling and smoothing.

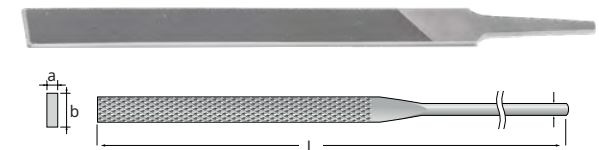


Engineers File - Square

Code: **KTE**

Order Example: **KTE250**. Fine

Code	Inch	Cut	a	L
KTE 100	4"	Coarse	4	100
KTE 150	6"		5	150
KTE 200	8"	Medium	6	200
KTE 250	10"		8	250
KTE 300	12"	Fine	10	300

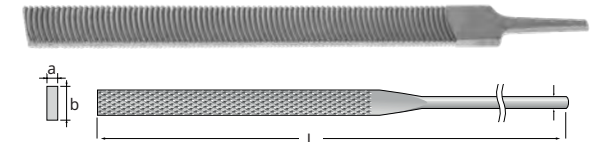


Engineers File - Mill Saw

Code: **MTE**

Order Example: **MTE150**. Fine

Code	Inch	Cut	a	b	L
MTE 100	4"	Coarse	10	2.5	100
MTE 150	6"		16	3.0	150
MTE 200	8"	Medium	20	4.0	200
MTE 250	10"		25	5.0	250
MTE 300	12"	Fine	30	6.5	300





Engineers File - Aluminium

Code: **ALE**

Order Code	Inch	Cut	a	b	L
ALE 250	10"	Coarse	25	6.0	250
ALE 300	12"		30	6.5	300



Plastic Handle for Files

Order Code	Type	Inch	Order Code	Type	Inch
ESY 04		4"	ESD 04		4"
ESY 06		6"	ESD 06		6"
ESY 08		8"	ESD 08		8"
ESY 10		10"	ESD 10		10"
ESY 12		12"	ESD 12		12"
ESSE		Product: Handle for Needle Files			



► LCD Screen

Mould Inspection Camera

Order Code: **CEMBS150**

Contains of Product Box:

- * Flex Inspection Camera
 - * USB Cable
 - * Carrier Bag
 - * Video Output Line
- * DC Power Adapter
 - * User Manual
 - * 3.7 Lithium Battery
 - * Mirror, Magnet & Hook

Specification:

- + With the help of a waterproof gooseneck camera, it can easily take photos and videos.
- + On-site inspection by photos and videos.
- + Image rotation by pressing up and down buttons under video mode and images display with current time / date.

- Gooseneck Length: 1 Metre
- Display Screen - LCD: 3.2" Colour TFT
- Display Resolution: 320 x 240
- Photosensitive Devices: 1/4 Inch CMOS
- Sensor Pixel: 300.000
- Max. (FPS): 30 FPS / s (max.)
- Memory: Internal / SD Card up to 32GB
- Viewing Angle: 0 to 180°
- Power Supply : Li Battery 3.7V / 2000mA
- LED Lighting: 100 Adjustable
- TV Out: PAL / NTSC System
- Languages: English, German, Spanish, French & Turkish



In-Mould Monitoring

Machine Repair

Car Repair & Maintenance



Table Lamps with Magnifier

- Order Code: **ZLA**
- Diopter: 5
- Glass Lens Dimension: 190 x 157 mm
- Light Source: 2x led lamp
- Voltage: 220V - 240V



Magnifier with Illumination

- + Glass Lens
- + Powered by 3 x AAA batteries (included)



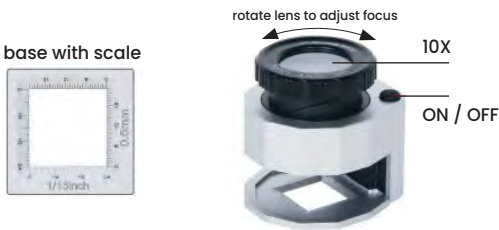
Order Code	Lens Diameter	Magnificatio	Dimension
75132	75 mm	2X	170 x 90 mm
75134	50 mm	4X	145 x 90 mm



Inspection Mirror

Order Code: **1714**

- It is used to get images from areas that are hard to see.
- Light and impact resistant plastic frame.
- Diameter: 25 mm / Length: 155 mm / Weight: 6 g.



Loupe Magnifier with Illumination

Order Code: **752410**

- + Magnification 10X
- + Glass Lens
- + Powered by 3 x AG7 batteries
- + 3 pcs LED and 3 pcs UV
- + Base with scale, graduation: 0.5 mm, 1/16"
- + Lens Diameter: 30 mm

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Polishing Equipment

1

Mould Testing & Assembly Unit

Mould Delivery: No problem / successful



2

We maintain our innovative investments with the force we have taken from mould masters. We also present **"Mould Testing & Assembly Unit"** and **"Core System with Hydraulic Piston"** which we hope that they support mould production with proud. We are sure that these products will be useful for mould collection and offer you a joyful working environment with quick and easy mounting.

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Mould Testing Unit: It provides easy mounting and control possibility for your moulds with its suitable sizes and durable steel construction in anywhere of your workshop (by forklift). It enables to open your mould bases / to separate plates easily by providing sliding motions with air cushions on the table of the unit. In this way, the plates can be moved forward - backward easily (with the logic of cnc machine) and your operations on moulds are ready.

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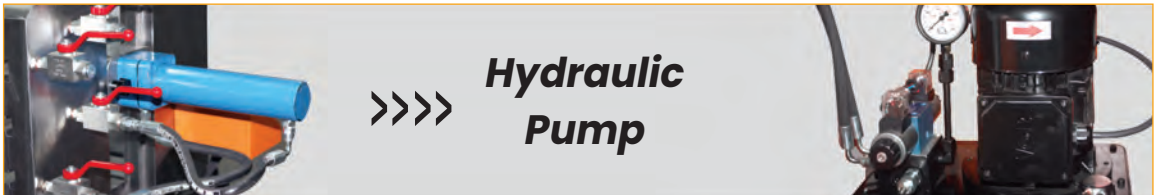
Hydraulic Power is mounted in the unit; the controls of Hydraulic System which can be mounted to the mould if required and Injection Motion controls, especially Ejector Motions and Other Lifter / Slide Systems are monitored. And their adjustments may be done in precision position on the unit. All these motions can also be monitored.

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Compressed Air Energy: The air equipment on the unit enables you to test water/cooling channels in your moulds with a Manometer (air bar measuring) by installing it in your existing air system in the workshop. It provides support for you to detect leakages and problems in the water cooling channels with the pressure monitored in Manometer counter. This system prevents corrosion in your new moulds because it does not use water. The existing air energy will make contribution to your other mounting works.

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Except above mentioned important working possibilities of mould testing unit, it is a compact (with no effusing part) and innovative product equipped with table safety retainers / supports, mould angulation thrusts - electrical panel, air control buttons - hydraulic unit control counter - hydraulic valve - hydraulic piston tool - moving piston slot and holder - fixed plate and pins - moving plate control - mould ejector and connection plates. All spare part and services are given by our company.



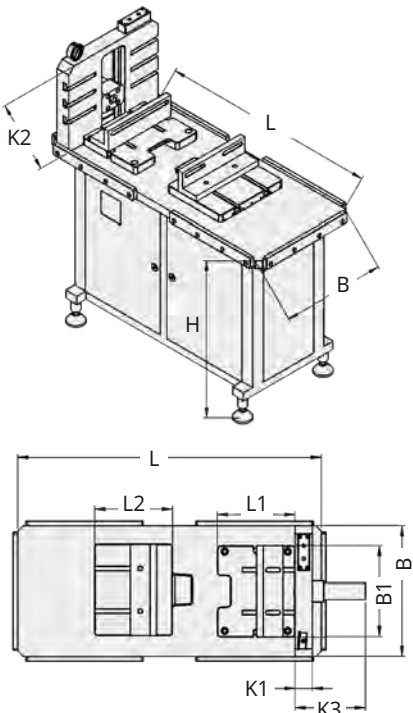
Video

Mould Testing & Assembly Unit

Code: **GTH - 00...**



Only at Güvenal sales points.

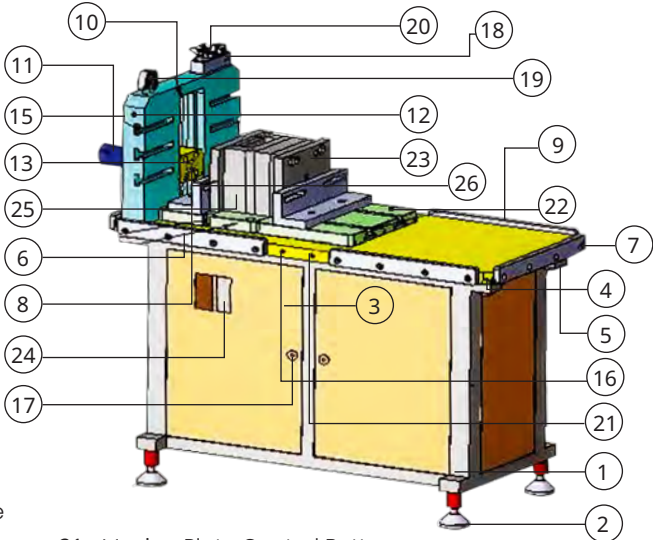


Perfect mould table that enables fast / easy opening and closing of moulds in accordance with the occupational safety principles and carrying out repair and mounting works on moulds and monitoring precision and performing many tests.

Order Code	Max. Capacity Loading	Air Power	Electrical Motor Power	Unit Weight	L mm	H mm	L1 mm	L2 mm	B mm	B1 mm	K1 mm	K2 mm	K3 mm
GTH - 002	3000 Kg.	6 Bar	3 Kw	730 Kg.	1346	854	346	346	636	526	76	500	280
GTH - 003	4000 Kg.	8 Bar	5 Kw	1050 Kg.	1470	876	386	386	740	590	86	640	290

Mould Testing Unit Schema / Descriptions:

- 1 - Steel Profile (60 x 40 x 3) Chassis
- 2 - Powerful Metal Screw Pressing Feet
- 3 - Hydraulic Pressure Plexy Transparent Indicator
- 4 - Moving (precision ground) Unit Table
- 5 - Table Chassis Skid Plates
- 6 - Fixed Plate Pins
- 7 - Table Safety Side Holders
- 8 - Fixed (precision ground) Plate for Mould
- 9 - Chuck "T" Channels
- 10 - Moving Piston Slot
- 11 - Hydraulic Piston Arm
- 12 - Air Outlet for Water / Cooling Channel Test
- 13 - Moving, Hydraulic Piston Holder
- 14 - Precision Ground (for small moulds) Set Square
- 15 - Electrical Panel
- 16 - Air Control Button
- 17 - Openable Unit Cover
- 18 - Extra Hydraulic Distribution Control Button
- 19 - Air Control / Manometer
- 20 - Hydraulic Distribution Valves



- 21 - Moving Plate Control Button
- 22 - Air Cushioned Moving Plates
- 23 - Precision Ground Mould Ejector Plate
- 24 - Hydraulic Unit
- 25 - Precision Ground Mould Connection Plates
- 26 - Hydraulic Piston Extension Tool

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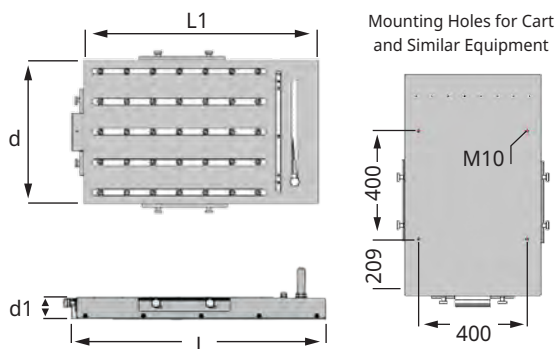
18

Die & Mould / Toolroom Equipment



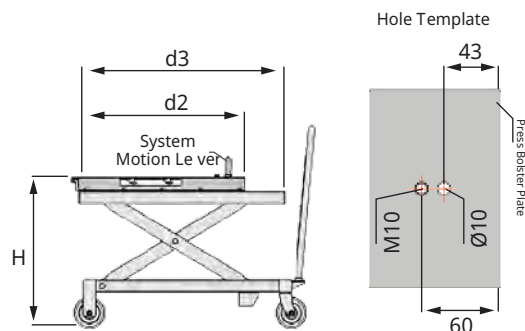
Code: **1024 - 500670**

Die Moving Table (1Ton)



Code: **1024 - 500671**

Die Moving Cart (1Ton)



Order Code	d	d1	d2	d3	L	L1	H Min. - Max.	Type	Capacity
1024 - 500670	500	71	-	-	1015	670	-	Table	1 Ton
1024 - 500671	500	-	818	1015	-	670	480 - 1050	Cart	1 Ton

* Dies up to "1 ton" weight, it reduces surface contact when it is desired to be moved during changing to be placed on the press bolster plate or shelves. Thus, it provides the possibility of changing the dies easily and quickly without the need for much power.

* It can be mounted on pallet truck or forklifts and can be easily used.

Advantages:

- * Time-saving
- * Flexible application-possibilities
- * Gentle transport
- * Exact positioning
- * Safe positioning of the cart by parking brake



Some Applications:



NEW

KING TAPPING SERVO TAPPING MACHINE



- ✓ PLC, HD touch screen
- ✓ Easy to use flexible arm
- ✓ Powerfull servo motor
- ✓ Adjustable guide diameter, pitch, length and speed
- ✓ Torque adjustment and smart torque protection system
- ✓ The operation table and all accessories are included in the package

M3 - M16 Technical Specifications:

Tapping Capacity: M3 - M16

Motor Power: 800 W

Spindle Rotation: 312 Rpm

Arm Length: 1100 mm

Table Dimension: 900 x 600 x 750 mm

Weight: 110 Kg. (with workbench)

M5 - M24 / M6-M36 Technical Specifications:

Tapping Capacity: M4 - M24 / M6 - M36

Motor Power: 2000 W

Spindle Rotation: 200 Rpm

Arm Length: 1100 mm

Table Dimension: 900 x 600 x 750 mm

Weight for M5 - M24: 120 Kg. (with workbench)

Weight for M6 - M36: 130 Kg. (with workbench)

M3 - M16 KING SERVO TAPPING MACHINE

Order Code: **HRD - TAPPING316**

M5 - M24 KING SERVO TAPPING MACHINE

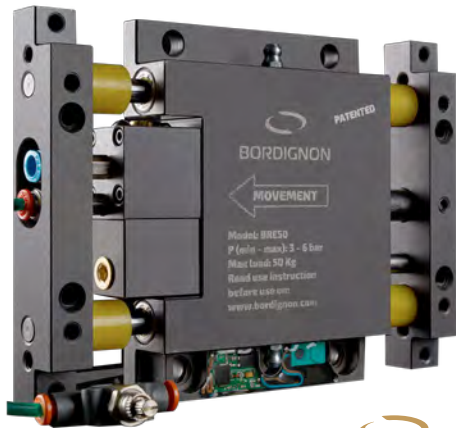
Order Code: **HRD - TAPPING524**

M6 - M36 KING SERVO TAPPING MACHINE

Order Code: **HRD - TAPPING636**

Video

NEW



BORDIGNON

Code: **BRE50**

Pneumatic Transporter / Air Scrap Remover

The BRE50 is operated with compressed air only. The scrap shooter, moving slowly forward and fast backward, causes the scrap to move forward. Born to evacuate the scrap on the blanking dies and to transport metal components, it has found many sectors of application: metal dies in general, plastic moulds, mechanical, food, pharmaceutical, and assembly industries.

Features

- ✦ Compact dimensions.
- ✦ Only 27 mm height.
- ✦ Minimum compressed air consumption.
- ✦ Strong against uneven loads.
- ✦ Max load (scrap shooter included): 50 kg.
- ✦ Supply fluid: filtered compressed air, not lubricated, not damp.
- ✦ Working pressure (bar): Min 3 / Max 6.
- ✦ Working temperature: Min 0°C (32°F) / Max 60°C (140°F).
- ✦ Mounting inclination: Min 0° / Max -45°.
- ✦ Sound level dB (A): 60.

Benefits of BRE50

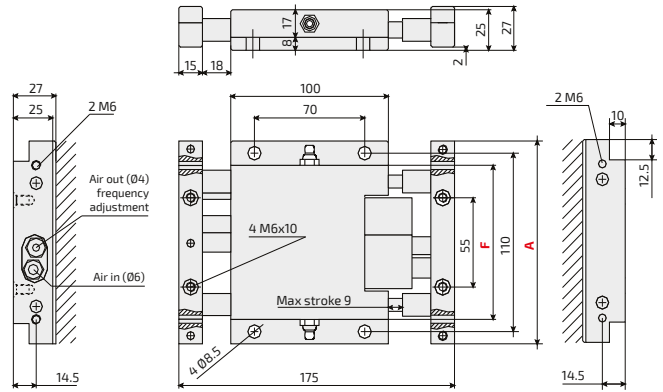
Extra powerfull and super compact, the scrap remover has many advantages in technical aspects and in convenience of use. It combines superior performance, versatile application and great reliability.

- ✦ Minimal air consumption.
- ✦ Resistance to uneven loads.
- ✦ Capable of transportation on downhill and even surfaces.
- ✦ Easy assembly and use.
- ✦ Easy frequency regulation in small spaces.
- ✦ One scrap remover unit can support multiple scrap shooters.
- ✦ Low initial cost.
- ✦ No electricity required.

Fields of application

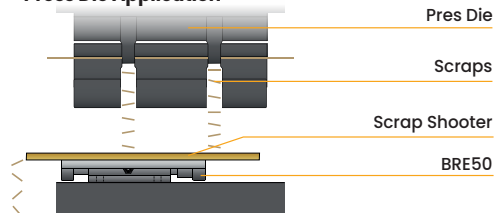
The technical characteristics of the BRE50 make it suitable for a wide range of use:

- ✦ Removing scraps from stamping dies.
- ✦ Metal components transport.
- ✦ Separation and sieving of different elements (e.g. small metal parts).
- ✦ Mechanical, food, pharmaceutical and automation industries.



Order Code	A	F	Weight
BRE50 - 125	125	95	2.6 kg
BRE50 - 145	145	105	2.7 kg
BRE50 - 195	195	155	3.0 kg

Press Die Application



Fixing:

- ✦ Fix the scrap remover with 4 screws on a solid base. On the special models BRE50 130-..., disassemble the side brackets to reach the fixing holes.
- ✦ Connect the inlet pipe of the compressed air (Ø 6 mm).
- ✦ Fix the scrap shooter on the scrap remover. The greater the inclination of the scrap shooter or scrap remover, the lower the air consumption.
- ✦ The scrap remover begins to move when the compressed air is on.
- ✦ Adjust the pressure of the compressed air (3-6 bar). Lower pressure will lead to lower air consumption.
- ✦ Adjust the frequency. Lower frequency will lead to lower air consumption.
- ✦ Note: air pressure reducer, air inlet pipe, fixing screws and scrap shooter are not included.

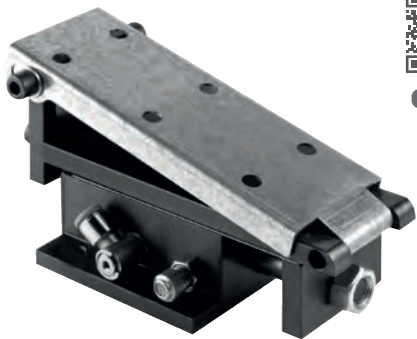
Use Instructions:

- ✦ Use filtered dry air, without oil.
- ✦ Use a suitable scrap shooter (embossing shooting plate) for oily scraps.
- ✦ Lubricate every month, when working 24 hours per day.
- ✦ Lubricate every 3 months, when working 8 hours per day.
- ✦ Use a lubricant grease for bearings.
- ✦ Put lubricant into the 2 grease fittings until it is full.



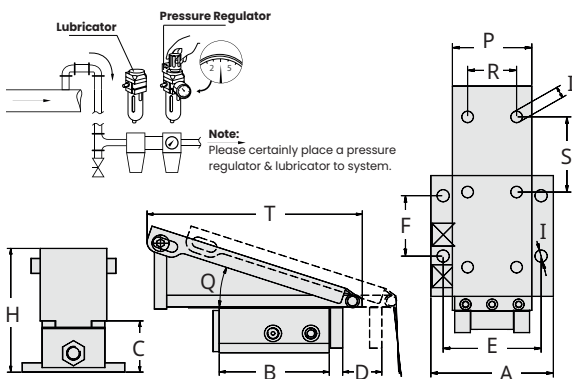
Video





Code: **GTH.ALO**

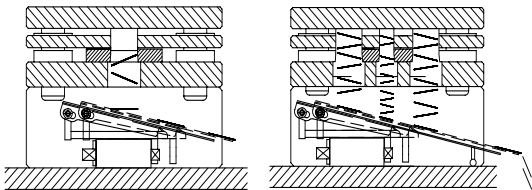
Part & Scrap Carrier / Pneumatic Ejector



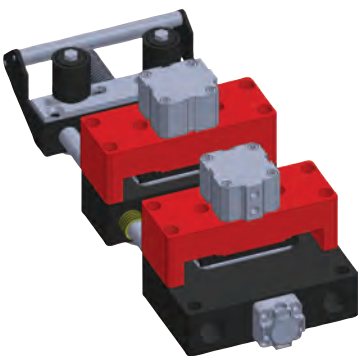
Order Code	Bar	A	B	C	D	E	F	H
GTH.ALO 25	2/5	100	106	63	36	82	55	125
GTH.ALO 50	2/5	120	120	72	46	102	96	140

Order Code	I	P	Q	R	S	T	Max. Load
GTH.ALO 25	9	70	Max.20° ~ Min. 4°	44	62	190	25 kg
GTH.ALO 50	9	96	Max.20° ~ Min. 4°	56	70	220	50 kg

Mounting Example:



- Carriage with pneumatic vibration system in very small dimensions, allowing scrap or parts to be removed from the die/tool.
- This system is equipped with a regulator with a capacity of 2 - 5 bar pressure.
- Depending on application requirements, by mean of a slide, different sizes of plates can be applied, this slide is equipped with an adjustment sloping system.
- The operating speed can be adjusted from the brass valve directly inserted in the tool.
- Maximum positioning inclination 20°.



Economic Types

Heavy Duty

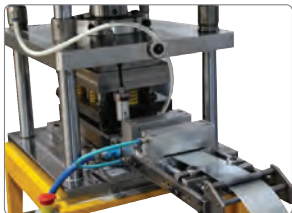
Pneumatic Feeder

Code: **A...**

Code: **E...**

Order Code	Max. Material Thickness Max. Material Width Feed Length (mm)
A1	1 x 100 x 100
A2	1 x 100 x 200
A3	1 x 100 x 300
A11	1 x 150 x 100
A12	1 x 150 x 200
A13	1 x 150 x 300
A21	1 x 200 x 100
A22	1 x 200 x 200
A23	1 x 200 x 300
A31	1 x 300 x 100
A32	1 x 300 x 200
A33	1 x 300 x 300
A41	1 x 400 x 100
A42	1 x 400 x 200
A43	1 x 400 x 300
A51	1 x 500 x 100
A52	1 x 500 x 200
A53	1 x 500 x 300

Order Code	Max. Material Thickness Max. Material Width Feed Length (mm)
E1	2 x 150 x 100
E2	2 x 150 x 200
E3	2 x 150 x 300
E11	2 x 200 x 100
E12	2 x 200 x 200
E13	2 x 200 x 300
E21	2 x 300 x 100
E22	2 x 300 x 200
E23	2 x 300 x 300
E31	2 x 400 x 100
E32	2 x 400 x 200
E33	2 x 400 x 300
E41	2 x 500 x 100
E42	2 x 500 x 200
E43	2 x 500 x 300



- Material width capacity from 100 mm up to 500 mm.
- Material feeding capacity at thickness from 0.2 up to 1.0 / 2.0 / 3.0 mm.
- Feed length from 100 mm up to 300 mm.
- The feeder casings are produced from special aluminum alloy material.
- The bearing column are produced from hard chrome coated material (1080).
- Movable parts are produced from bronze material.
- Feed length set screw are produced from 4140 material.

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Die & Mould / Toolroom Equipment



Decoilers for Steel Roll

Code: **AGM**

Order Code	Max. Material Width	Steel Roll Inside Diameter (mm)	
		Min.	Max.
AGM 500	20 - 30	470	520
AGM 1250	20 - 400		
AGM 2500	20 - 400		
AGM 2500M	60 - 600		

Order Code	Max. Steel Roll Outside Dia.	Steel Roll Weight Kg.
AGM 500	1200	500
AGM 1250	1300	1250
AGM 2500	1300	2500
AGM 2500M	1300	2500

Our mechanical decoilers has threaded rod clamping and discharging system from center. Working capacity range is between 750 kg to 4.000 kg. Motorized, pneumatic snubber bar and brake models are available. Mechanical decoilers take up less space and have minimum operating cost for companies.

Snubber Bar: Optional



Video



herrblitz



Pneumatic Feeder High precision, rapid & efficient performance

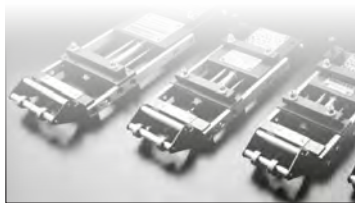
Light Duty

Code: **A - B - C**

Heavy Duty

Code: **P - S - Z**

Order Code	Max. Material Width	Feed Length	Max. Material Thickness	Order Code	Max. Material Width	Feed Length	Max. Material Thickness
A 50	50 mm	0 ~ 50	0 ~ 1.9	P1	0 ~ 155	1.00	0 ~ 3.8
A 100		0 ~ 100	0 ~ 1.8	P2		2.00	0 ~ 3.5
A 150		0 ~ 150	0 ~ 1.5	P3		3.00	0 ~ 3.0
A 200		0 ~ 200	0 ~ 1.3	S1	0 ~ 205	1.00	0 ~ 3.0
A 250		0 ~ 250	0 ~ 1.1	S2		2.00	0 ~ 3.0
B 50	75 mm	0 ~ 50	0 ~ 1.8	S3	0 ~ 305	3.00	0 ~ 3.0
B 100		0 ~ 100	0 ~ 1.7	Z1		1.00	0 ~ 3.0
B 150		0 ~ 150	0 ~ 1.6	Z2		2.00	0 ~ 3.0
B 200		0 ~ 200	0 ~ 1.2	Z3		3.00	0 ~ 2.5
B 250		0 ~ 250	0 ~ 1.1				
C 50	100 mm	0 ~ 50	0 ~ 1.7				
C 100		0 ~ 100	0 ~ 1.5				
C 150		0 ~ 150	0 ~ 1.4				
C 200		0 ~ 200	0 ~ 1.3				
C 250		0 ~ 250	0 ~ 1.2				



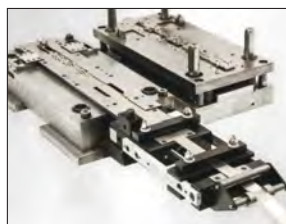
Pneumatic - Automatic Feeder

Since they have been made in modular system, it is quite easy to obtain different dimensions.

Standard Accessories: O-Ring kit

Optional Accessories:

- * Remote control with electro valve (instead of standard mechanic valve)
- * Spring clamp (for pilot release)
- * Transparent top case (to avoid accidents)
- * Programmed counter to repeat feed length
- * Conditioner unit and hose systems to filter pressured air and to lubricate



NEW



Order Code: **SPTA**

Sheet Metal Part Transport Handle

When working with eccentric and hydraulic presses, hand, arm, and finger amputations or crush injuries are among the most common workplace accidents. To prevent such accidents, we have developed the Sheet Metal Part Transport Handle, which ensures a safe working environment.

In the design of the product, not only the risk of hand, arm, or finger amputation or crush injury was considered, but also precautions against electrical leaks were taken. Made from insulating materials, this product eliminates the risk of electric shock, preventing electrical workplace accidents.

Developed with a focus on human health, this product helps prevent workplace accidents that may occur in press machines, allowing workers to work in a safer environment. It also contributes to preventing both material and emotional losses.

Magnet Specifications

- Pulling Force: 3-5 kg
- Gauss Value: 2000-3000 Gauss
- Max. Operating Temperature: 80°C
- Magnet Pulling Distance: 0-5 cm
- Magnet Type: Neodymium (NdFeB)
- Color: Blue
- Grade: N35
- Tolerance: ± 0.1 mm

Dimensions

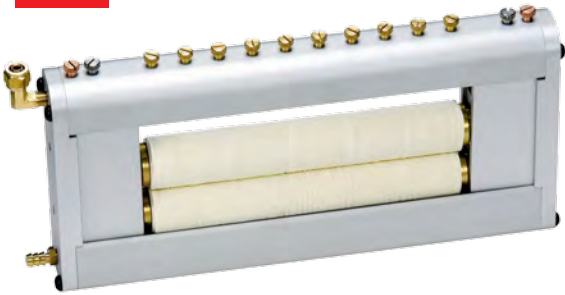
- Length: 201-250 mm
- Width: 35 mm
- Height: 50 mm

Material Specifications

- Outer Material: Plastic
- Fully Stainless: Yes
- Color: Blue
- Tolerance: ± 0.1 mm
- Outer Material
- Quality: Rigid PVC



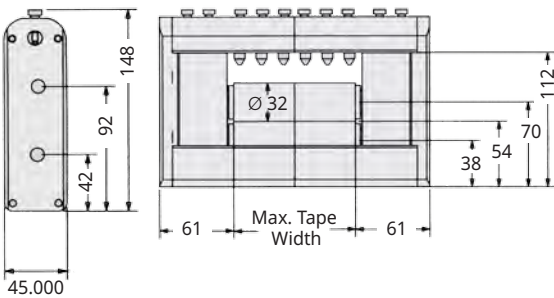
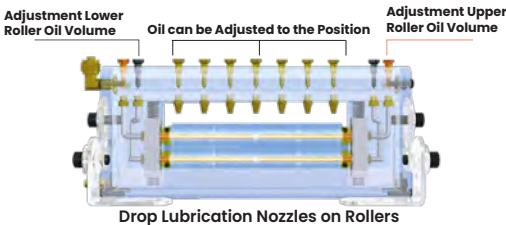
NEW



Roller Lubricator for Steel Roll

Code: **RYS**

Type: Drop Lubrication



Order Code	Max. Material Width
RYS 100	100 mm
RYS 200	200 mm
RYS 300	300 mm
RYS 400	400 mm
RYS 600	600 mm

Video



Min. Material Thickness: 0.10 mm
Max. Material Thickness: 6 mm

Easier and faster production is obtained by lubricating steel roll with drops while work piece / steel roll is switched between rollers in roller lubricating system. This system increases die-tool life and quality product which is not scrap is obtained. Material thicknesses can be adjusted from 0.3 mm to 3.0 mm steel roll thickness.

Standard Features:

- * Thanks to local valves, partial lubrication on mobile steel roll.
- * Industrial felt plates are available in lubricating roller.
- * 3 lt. capacity plastic oil tank.

Optional Features:

- * Time cycled lubricating relay.
- * Hydraulic pump tank.
- * Desired oil capacity.

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Die & Mould / Toolroom Equipment



Order Code: **PKM1**

Pin Cutting & Face Grinding Machine

- LONGNESS TOLERANCE :** 1 mm – 24 mm Ø X 325 mm
SHORTNESS TOLERANCE : 1 mm – 24 mm Ø X 60 mm
CUTTING DISC : 115 – 185 mm X 1,0 X 22MM
GRINDING WHEEL : 100 mm X 50 mm X 20 mm (60 GRIT)
MOTOR : 380V – 50 HZ – 0.75 KW – 1500 CYCLE / min.
RPM: 3650 CYCLE / min.
ANGULARITY: 01-24 mm X 90/±0.02
MACHINE WEIGHT : 80 KG.
MACHINE DIMENSIONS : 500 mm X 425 mm X 355 mm



Rapid, Precise and Easy Cutting

"Especially for round work pieces"

* The 600mm ruler is optional and can be adapted on request (longer length cutting option).

- Not only it guarantees precision degree but also it provides significant saving on time with best usage options in longitude cuttings.

- We recommend you to avoid unqualified and imitation products without CE certificate in the market.

For additional disc and wheel components, see the order codes below

The machine is shipped with 1x Cutting Disc and 1x Grinding Wheel mounted as standard. Additional units can be ordered for replacement.

Description	Order Code
D-100 Grinding Wheel for PKM1	K14020
Cutting Disc for PKM1	HRD-PKMT



Video



"PKM1" provides easiness and rapidness with a strong and fast clamping mechanism (vice). Grinding wheel can be easily dressed with diamond dresser on vice.



Diameter cutting capacity is between 1 – 24 mm. Between the 60 – 325 mm length parts.



you can cut precisely with the help of micrometer located on the ruler (600 mm ruler is optional).



Lever Motions:



Up: Cutting



Down: Face Grinding

Right: Vice Opening



Plexiglass cover provides safety. When cover is opened, it stops and it cannot be operated without closing cover.



It adjust its own cycle automatically depending on diameter of part and plastic bearing which position transmission drive power on belt.



During operation, it grinds cut parts with angularity precision 90 / ±0.02 with the grinding wheel and without changing dimension.

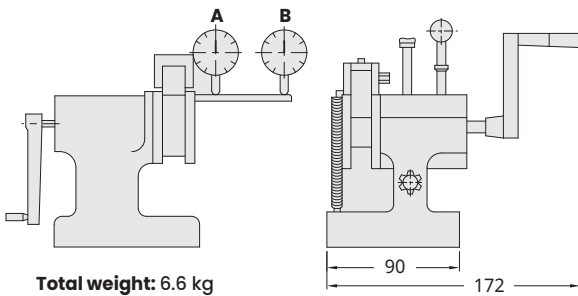
Manual
Type



Pin & Punch Former Tool

Order Code: **VPG**

Punch grinder is a tool which can be put on the surface plate of grinding machine for round punches(1.5mm-25mm). It can be ground by putting among three rollers of punch grinder. without checking the center. Accuracy of roller within 0.005mm while turning right or left. It can allow length 5-35mm Accuracy of point **A** within 0.005mm and point **B** Within 0.008mm while turning.



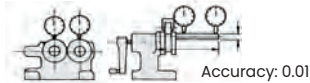
Total weight: 6.6 kg

- * It can be put on the grinding machine workbench for form grinding pins, punches or EDM tools.
- * Pin clamping diameter: $\varnothing 1.5\text{mm} \times \varnothing 25\text{mm}$
- * Pins etc. can be ground by putting among precision rollers of Former Tool without checking the center, the center is determined automatically.
- * Thanks to rigid clamping system, extended grinding length is within 5 - 35mm.

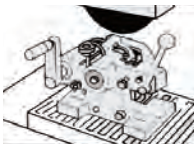


Video

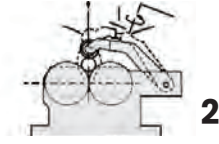
Installation



Accuracy: 0.01



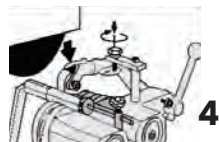
Insert pin into housing.
Tighten screw of lever.



When pin is placed between
precision rollers, center
is found automatically.



After equipment is mounted to
grinding machine, start grinding
by turning lever.



Before starting grinding,
ensure that all fasteners
are tightened.

Motor
Type



Pin & Punch Former Tool

Order Code: **VPGM**

1. High accuracy cylindrical grinding work is possible, just putting this economical unit on surface grinder.
2. No center alignment necessary. just put work piece on rollers.
3. Portable with single hand, thus easily set up.
4. With rollers motor -driven, attention can be concentrated on table/wheel feeds.
5. Work can be formed in radius taper as well.
6. Double roller unit available for long pin or punch grinding.

Technical Information:

Pin clamping length (L): **20 - 120 mm**

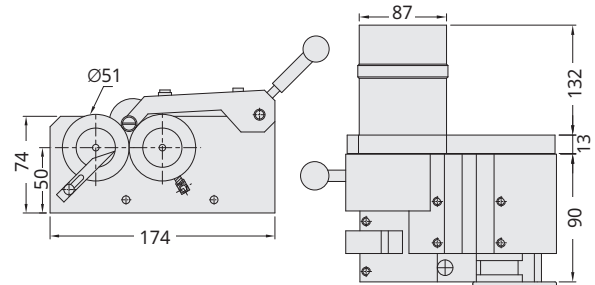
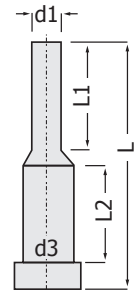
Minimum clamping length (L2): **22 mm**

Pin grinding length (L1): **5 - 35 mm**

Pin clamping dia. (d3): **$\varnothing 2 \sim 25\text{ mm}$**

Pin grinding dia. (d1): **$\varnothing 0.5 \sim 25\text{ mm}$**

Grinding accuracy: **0.01 mm**



FEATURES

Mounting surface: 175 X 218 X 90 mm

50Hz / 220v: 108 rpm

Roller speed 60Hz / 110v: 129 rpm

Accuracy(Roundness and concentricity): 25.4 mm

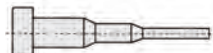
Roller driving motor: 110V, Single phase, 25W

Total weight: 11.8 kg

Some Examples Grinding:



Inclined



Multi Stepped



Cylindrical Slot



Tapered

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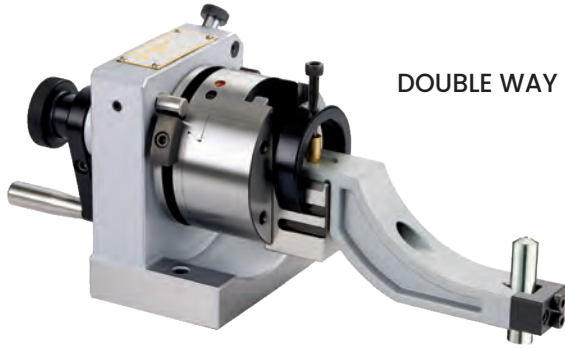
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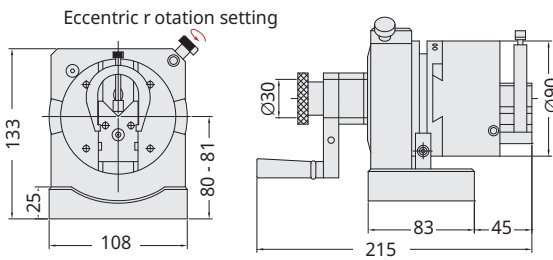
Die & Mould / Toolroom Equipment



DOUBLE WAY

Pin & Punch Former Tool
(Pin bearing length: 22 mm)

Order Code: V-PB



d1: Pin clamping diameter = $\varnothing 4 - \varnothing 30$ mm

L: Pin clamping length = min. 22 mm

"V" Bearing: Up / down motion = 25 mm

"V" Bearing: One way motion = 12.5 mm

"V" Bearing: Total motion = 25 mm

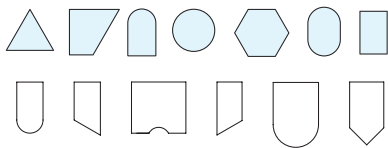
Equipment surface and angle / scale hardness: 63 HRC

Chuck dividing head angle: 24 Pcs. $15^\circ \pm 5^\circ$

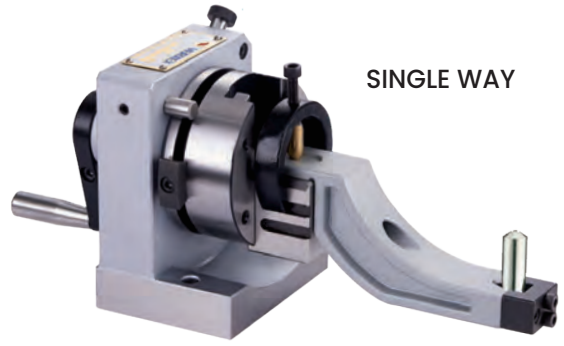
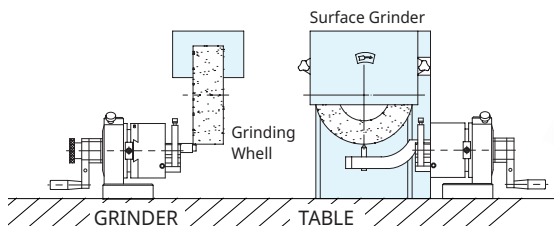
Wheel diameter: 200 mm

Total weight: 10 Kg

Punch end shape, some forms



Specifications: It creates the shapes / forms of die punches or mould ejector pins or it enables to create the desired formed shapes as equipment manually in shaped forming processing grinding machine manually. Motion is provided in two ways with equipment, it is provided 360° angular return motion and eccentric (up / down) motions processing practicality.



SINGLE WAY

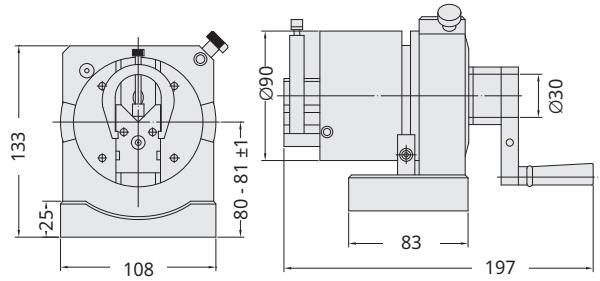
Pin & Punch Former Tool

Order Code: V-PS

Forming tool / apparatus for mould ejector pins and EDM tools (with mounting on the grinding machine workbench).

"V" Bearing Length: 30mm

Rotation Centreline Height: 15mm



d1: Pin clamping diameter = $\varnothing 4 - \varnothing 30$ mm

L: Pin clamping length = min. 22 mm

"V" Bearing: Up / down motion = 25 mm

"V" Bearing: One way motion = 12.5 mm

"V" Bearing: Total motion = 25 mm

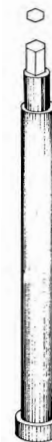
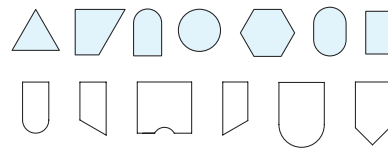
Equipment surface and angle / scale hardness: 63 HRC

Chuck dividing head angle: 24 Pcs. $15^\circ \pm 5^\circ$

Wheel diameter: 200 mm

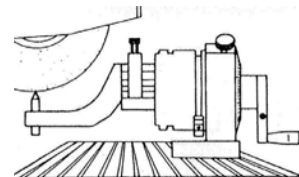
Total weight: 8.7 Kg

Punch end shape, some forms



Punch Forming

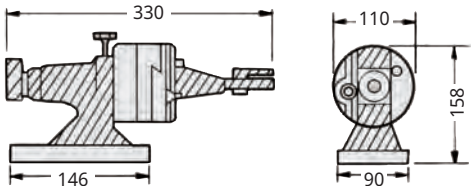
Grinding wheel angular dressing





Wheel Dresser Tool

Order Code: **VTDB**



Working System: Manual system tool over grinding machine.

Convex dressing radius = 0.8 R - 40 R

Concave dressing radius = 0 - 40 R

Max. grinding wheel diameter = Ø 250 mm

Rotation angle = 4 x 90° = 360°

Precision dividing head angle = 6"

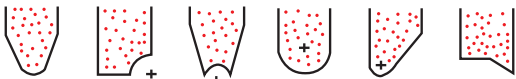
* Precision centre height is obtained with positive cutting angle diamond dressers.

* Thanks to precision ground dovetail slides, absolute distance shifts are prevented in the desired distance.

* By providing control from one point, convex and concave dressing forms are provided precisely and quickly.

* All working surfaces and measuring scale is 60 HRC.

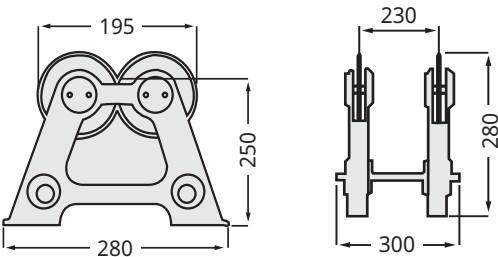
Wheel dressing applications



Wheel Balancing Stand



Order Code: **VBS300**



It helps to measure and develop grinding precision correctly. All surfaces of high precision balancing stand are 55 HRC, steel cast casing. Rotary model round parts are placed on the disc. By turning workpieces, its balance and flatness are monitored.



Order Code: **VPGA**

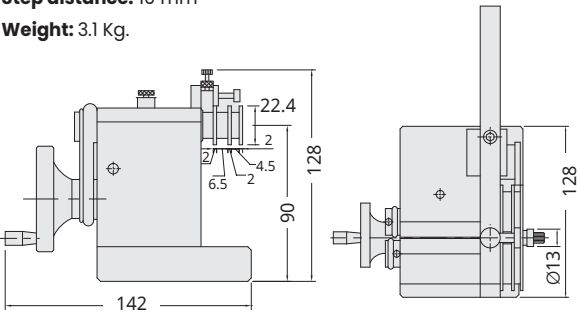
Mini Pin & Punch Former Tool

It is suitable to be used at machining and grinding of small diameters and short pins serially.

Pin diameter capacity: From 0.5 to 6 mm

Step distance: 10 mm

Weight: 3.1 Kg.



Diamond Wheel Dresser

Code: **TDE**

It is for dressing wheels in grinding machines.

Order Code	Type / Car at	Order Code	Type / Car at
TDE 030	0.30	TDE 150	1.50
TDE 050	0.50	TDE 200	2.00
TDE 075	0.75	TDE 250	2.50
TDE 100	1.00	TDE 300	3.00



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Die & Mould / Toolroom Equipment

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► Wire EDM Vise (stainless steel)

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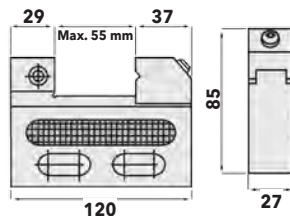
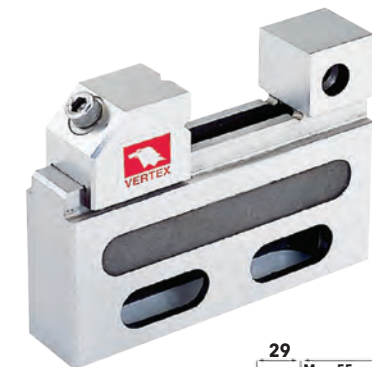
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Order Code:
VSTV - 50W

Precision Ground and Hardened: HRC 58 - 60
Parallelism and Squareness: ± 0.002 mm /100 mm
Max. Opening: 55 mm
Thickness: 27 mm
Jaw Deep: 25 mm
Weight: 1.4 Kg

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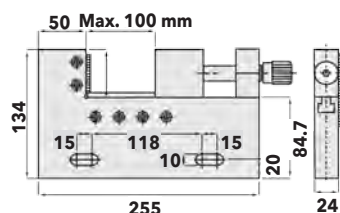
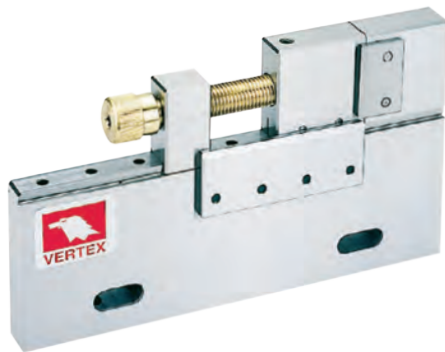
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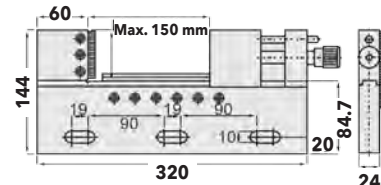
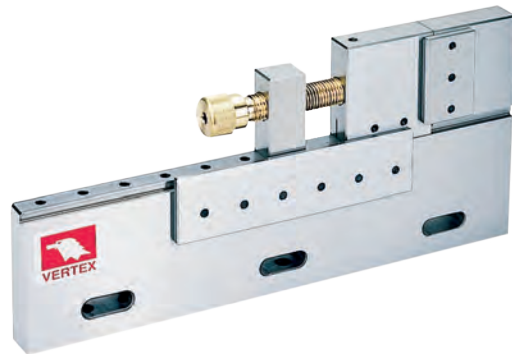
18

Die & Mould / Toolroom Equipment



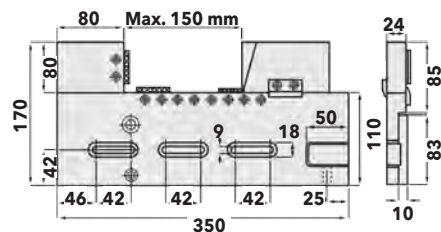
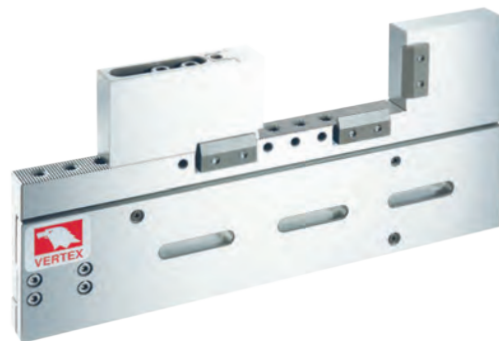
Order Code:
VSTV - 100W

Precision Ground and Hardened: HRC 58 - 60
Parallelism and Squareness: ± 0.002 mm /100 mm
Max. Opening: 100 mm
Thickness: 24 mm
Jaw Deep: 50 mm
Weight: 4.9 Kg



Order Code:
VSTV - 150W

Precision Ground and Hardened: HRC 58 - 60
Parallelism and Squareness: ± 0.002 mm /100 mm
Max. Opening: 150 mm
Thickness: 24 mm
Jaw Deep: 60 mm
Weight: 6.8 Kg



Order Code:
VSTV - 320W

Precision Ground and Hardened: HRC 45 - 55
Parallelism and Squareness: $\pm 0.003/5$ mm /100 mm
Max. Opening: 160 mm
Thickness: 24 mm
Jaw Deep: 60 mm
Weight: 8 Kg



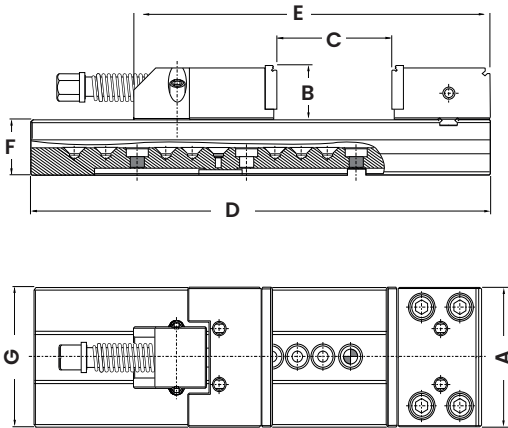
At very affordable prices

Certified with Güvenal Quality Assurance Label

- ✓ High Accuracy
- ✓ Solid and Safe Structure
- ✓ Modularity
- ✓ Versatility

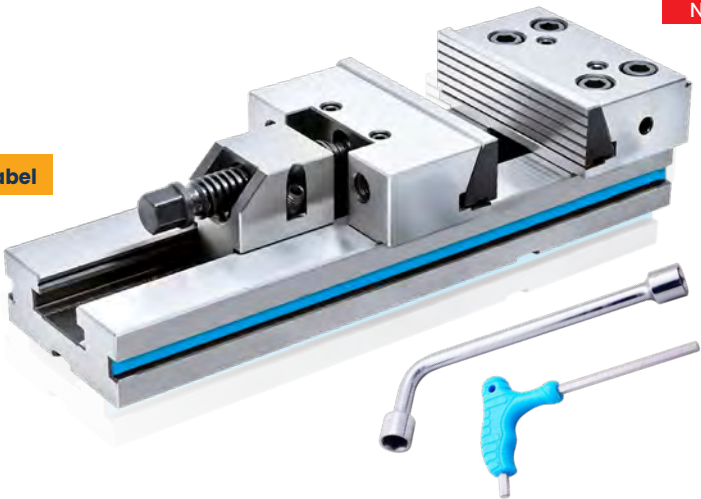
Precision Modular Vise

1. Carburizing of high quality alloy steel with hardness HRC58~62.
2. Parallelism is 0.005mm/100mm and perpendicularity is 0.005mm.
3. Fast workholding and flexible operation
4. For milling, boring, drilling and grinding of CNC machine tools, machining centers and general machine tools.
5. It can keep high precision by using multiple sets at work.

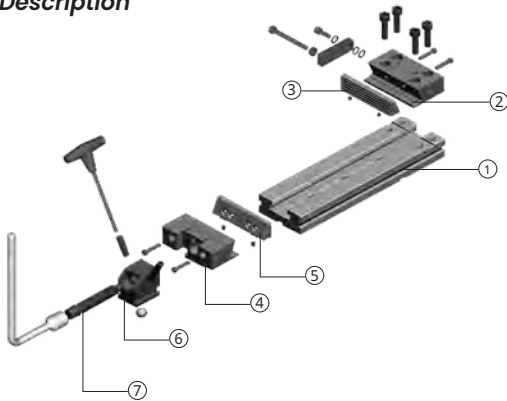


The verticality of the clamp is 50:002. The surface is hardened with high quality alloy steel. The hardness HRC58~62 is used for milling, boring, drilling and grinding of CNC machine tools, machining centers and general machine tools.

Order Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Weight Kg.	Tightening Force
NCB 150 A	150	50	200	420	500	50	125	25	30 kgf.
NCB 150 B	150	50	300	520	600	50	125	29	30 kgf.
NCB 175 B	175	60	300	555	630	58	145	42	30 kgf.
NCB 200 B	200	65	300	595	680	70	170	69	40 kgf.



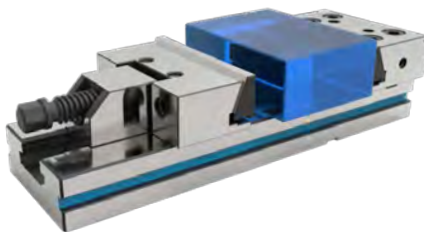
Product Appearance Diagram and Parts Description



- 1. Clamp body
- 2. Fixed Clamp
- 3. Fixed clamp splint
- 4. Movable Clamp
- 5. Movable clamp splint
- 6. Fixed Support
- 7. Screw



By adhering to our special quality & reasonable pricing principles in "Workholding Tools", we work hard to always increase your productivity for our valued KING users. We would like to thank you for choosing our products and starting to discover the KING world.



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Die & Mould / Toolroom Equipment

Permanent Magnetic Clamping Block



- **Ideal Technology for Medium and Large Workpieces**
- **Can Do 5-Sides Machining**
- **Robust and Flexible Clamping Method**
- **Fast, Easy, Compact and Balanced System**

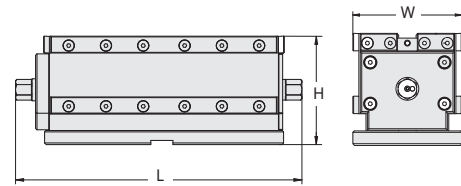
The all models of "ECB - Magnetic Clamping Blocks" are a new sense of clamping methods for metal work on Cnc machining center and milling machine in quick clamp workpieces. Especially, it is ideal to machining parts at Mould & Die production. A special clamping and machining technology without requiring any power supply.

Specifications:

- Free to set up position, numbers and distance of Magnetic Clamping Block according to the dimension of workpiece.
- The products including changeable Induction Soft Block.
It can be revised surface to be 100% accuracy on the machine for clamp workpieces. Can be also cutting, drilling, tapping and slotting directly to the Induction Soft Block during machining workpiece. Multi-function of Induction Soft Block, the user can make it by themselves according to workpiece required.
- Suitable for medium and large workpieces, not suitable for small workpieces.
- Minimum dimension of workpiece required as larger than area of two Magnetic Clamping Blocks. Compact structure, time - effort and space saving.

Important:

- Please always make sure the Switch was in ON position before machining. Please always switch it OFF when not in use.
- The Magnetic Clamping Blocks are not suitable for non-magnetic materials, such as brass, copper, aluminium, stainless steel and etc.



Holding Force: 500 Kg / Unit
Min. Workpiece Thickness: 15 mm
Accuracy: 90°= 0.015/100mm
L x W x H Dimensions: 159.5 x 76 x 78 mm
Mag. Clamping Area (L x W): 126 x 76 mm
Weight: 7 Kg.

Order Code: ECB - 50

Holding Force: 750 Kg / Unit
Min. Workpiece Thickness: 15 mm
Accuracy: 90°= 0.015/100mm
L x W x H Dimensions: 207.5 x 76 x 78 mm
Mag. Clamping Area (L x W): 174 x 76 mm
Weight: 9.5 Kg.

Order Code: ECB - 75

Holding Force: 1200 Kg / Unit
Min. Workpiece Thickness: 20 mm
Accuracy: 90°= 0.015/100mm
L x W x H Dimensions: 220 x 108 x 108 mm
Mag. Clamping Area (L x W): 188 x 108 mm
Weight: 18 Kg.

Order Code: ECB - 120

Holding Force: 2100 Kg / Unit
Min. Workpiece Thickness: 30 mm
Accuracy: 90°= 0.015/100mm
L x W x H Dimensions: 274 x 133 x 134 mm
Mag. Clamping Area (L x W): 234 x 133 mm
Weight: 36 Kg.

Order Code: ECB - 210

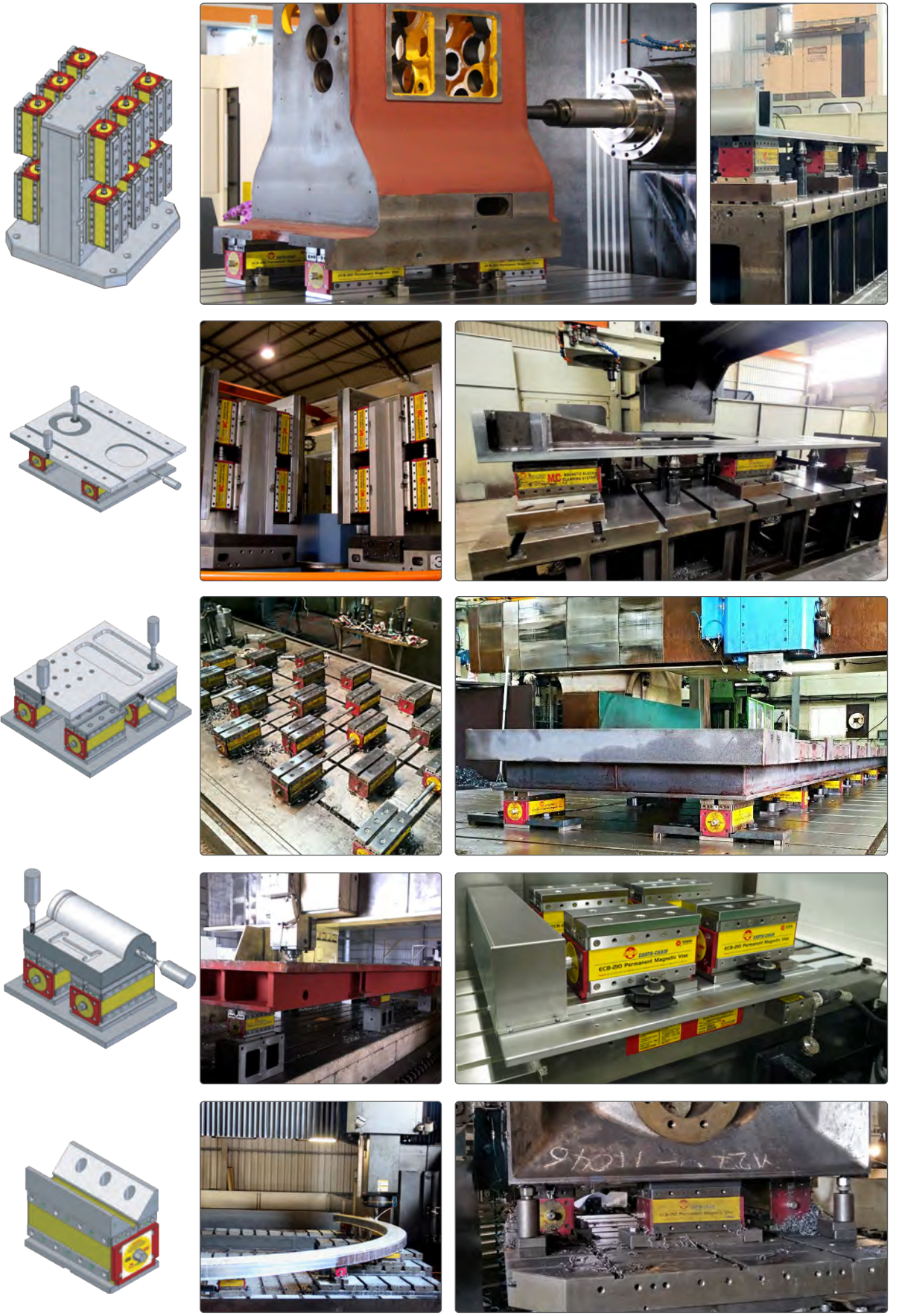
Standard Accessories

- * 2x induction jaws
- * Turn-on / Turn-off lever
- * 4x Block securing clamp
- * Side, front and rear support brackets
- * Two-block combined connector



Code: **ECB**

The ECB Series Permanent Magnetic Workholding Blocks are highly efficient magnetic systems designed for securely clamping and holding metal parts in industrial applications. These blocks increase precision during the machining process by holding the parts in place with their strong magnetic fields

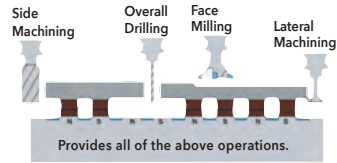


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Die & Mould / Toolroom Equipment

Electro-Permanent Magnetic Chuck

- ▶ Super Power Magnetic Force = 1250 Kg / per 4 Pole
- ▶ We Present "Tool Cabinet as a Free Gift"
- ▶ Can Do 5-Sides Machining
- ▶ Clamping within a Few Seconds
- ▶ Monoblock Design / Compact & Robust



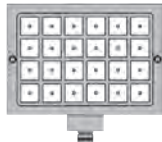
Electro-Permanent Magnetic Chucks are most suitable for heavy duty operations on small & medium workpieces and even for rough milling. Suitable for drilling and finishing operations on workpieces. All 5-sides of the workpiece can be machined in the same setting if clamped magnetically.

Specifications:

- Perfect safety in case of power failure. No electricity needed to keep the Magnetic Chuck ON.
- A minimum of 4 alternate magnetic poles contact is necessary for optimum clamping.
- More functions for cooperate with Induction Blocks (it is provided to you free by Güvenal).
- Magnetic force = 1250 Kg / per 4 pole.
- Adjustable magnetic force (8 level).
- Can do 5-sides machining.
- Easy and practical to clamp a workpiece.
- It provides significant savings in clamping time.
- Recommended minimum thickness of workpiece: 10 mm.

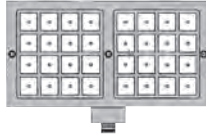
Standard Accessories / Set Content:

1. Electro-Permanent Magnetic Chuck
2. Controller
3. Remote Control (to adjust the magnetic force)
4. Induction Blocks (according to the number of poles)
5. Tool Cabinet (mobile)
6. Fasteners & Connection Cables
7. User & Training Manual



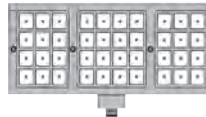
Order Code:
EEPM 3040

Total Holding For ce: 7500 Kgf
Width: 300 mm x Length: 430 mm
Height: 60 mm
Pole Dimension: 50 x 50 mm
Number of Pole: 24 pcs
Voltage (single phase): 220V
Controller Voltage (single phase): 220V
Chuck Net Weight: 61 kg



Order Code:
EEPM 4060

Total Holding For ce: 15000 Kgf
Width: 420 mm x Length: 590 mm
Height: 60 mm
Pole Dimension: 50 x 50 mm
Number of Pole: 48 pcs
Voltage (single phase): 220V
Controller Voltage (single phase): 220V
Chuck Net Weight: 100 kg

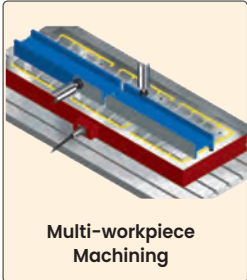
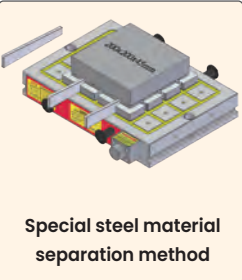
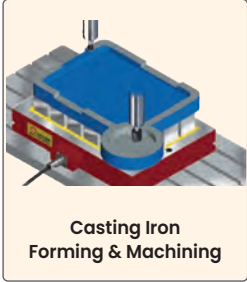
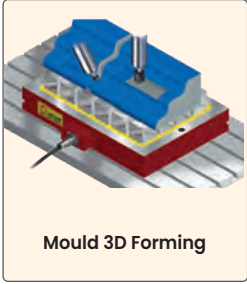
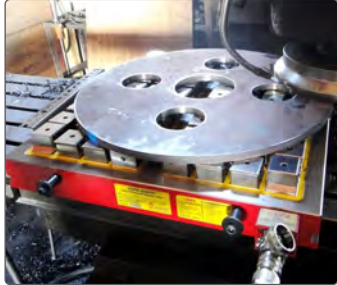
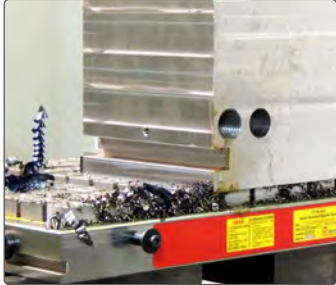
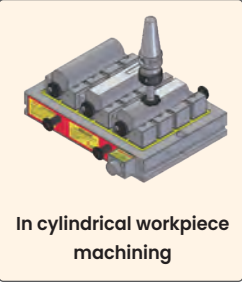
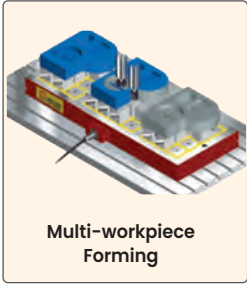
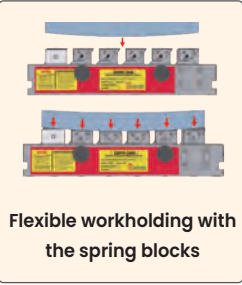
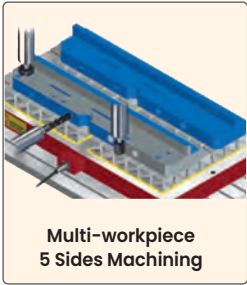
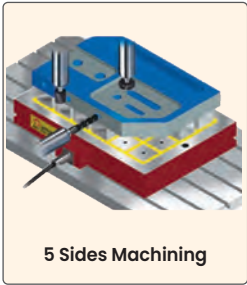
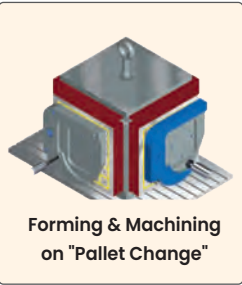


Order Code:
EEPM 40100

Total Holding For ce: 26200 Kgf
Width: 420 mm x Length: 990 mm
Height: 60 mm
Pole Dimension: 50 x 50 mm
Number of Pole: 84 pcs
Voltage (single phase): 220V
Controller Voltage (single phase): 220V
Chuck Net Weight: 193 kg

Code: **EEPM**

Some Applications:



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Die & Mould / Toolroom Equipment

At very affordable prices

Certified with Güvenal Quality Assurance Label

- ✓ Custom-Designed for CNC Machines
- ✓ Suitable for Heavy-Duty Machining Applications
- ✓ High-Precision Workholding
- ✓ Capable of Powerful Milling and Drilling Operations
- ✓ Enables 5-Sided Machining



Total Clamping Capacity

300 x 400 x 90 mm

Order Code: **NMMC 3040**

Dimensions (width × length × thickness):

300 x 400 x 90 mm

Min. Workpiece: 120 x 120 x 80 mm

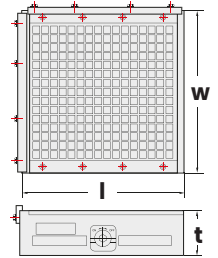
Total Number of Magnetic Poles: 176

Clamping Force per Pole: 25 kgf

Total Clamping Capacity: 4.4 TON

Operating Temperature: Max. 80°C

Weight: 57.5 Kg.



Total Clamping Capacity

400 x 600 x 90 mm

Order Code: **NMMC 4060**

Dimensions (width × length × thickness):

400 x 600 x 90 mm

Min. Workpiece: 120 x 120 x 80 mm

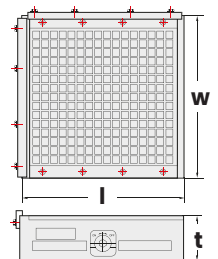
Total Number of Magnetic Poles: 375

Clamping Force per Pole: 25 kgf

Total Clamping Capacity: 9.3 TON

Operating Temperature: Max. 80°C

Weight: 100 Kg.



Super Permanent Magnetic Chuck

Manually Operated – Easy to Use & Heavy-duty Type

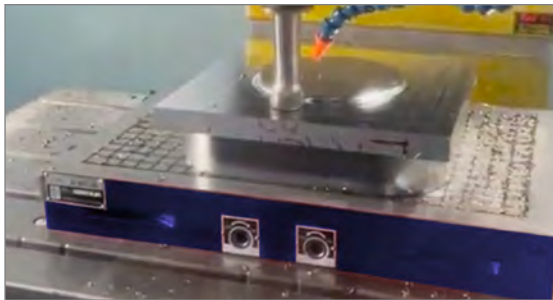
Magnetic force is generated using high-performance materials—there is no time limitation, no energy consumption, no heat generation, making it environmentally friendly and safe. "KING NMMC" offers extremely simple and practical use.

The super-strong holding force and magnetic field can be combined and intensified as the contact area with the workpiece increases, allowing it to be used effectively for heavy milling and drilling operations.

The ultra-powerful permanent magnetic clamping panels are rigid and stable, do not heat up or deform during use, ensuring precise machining.

A simple wrench eliminates the need for an external power source, removing the risk of workpiece drop due to magnetic force loss or power failure.

Workpiece clamping is performed quickly and easily, significantly reducing setup and clamping time. It enables five-sided machining and increases overall machining efficiency by up to 80%



✦ Engineered for precision metal cutting applications, this system is ideally suited for CNC machining centers, CNC engraving and milling machines, surface grinders, and a wide range of other metalworking equipment.

✦ Side Stoppers for small workpieces are provided free of charge with the product.

✦ In multiple operations, it offers the advantage of quick clamping by allowing fast setup and removal, significantly saving time.



Watch the product video



Budget-friendly! A machine that pays for itself in a short time!



End Mill Sharpening Machine

The budget friendly and handy End Mill Sharpening Machine is ideal for resharpening Carbide and HSS end mills. Practical using thanks to easy, compact and robust design. Easy to operate, no experience required for sharpening a precision end mill.

Standard Accessories / Set Content:

1. End Mill Sharpening Machine
2. Tool Cabinet
3. 10 pcs ER Collet Set for EMG-413
6 pcs ER Collet Set for EMG-1325
4. 2 pcs Sharpening Wheel
5. Collet Holder (for 2/4 flute end mill)
6. Collet Holder (for 3 flute end mill)
7. Hex Key (4 mm)
8. Connection Cables
9. User & Training Manual



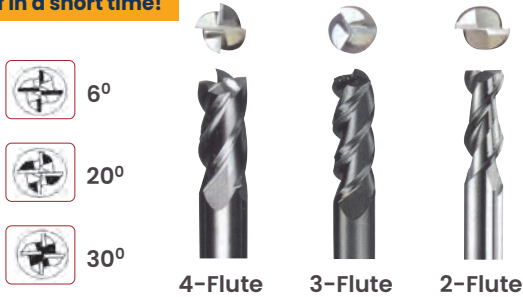
Optional Sharpening Wheels:

(order code = product description)

- * **EMG-413-ID** = "SDC Wheel #300" for Carbide End Mills / Ø 4 - 5
- * **EMG-413-2D** = "SDC Wheel #300" for Carbide End Mills / Ø 6 - 13
- * **EMG-413-1C** = "CBN Wheel #300" for HSS End Mills / Ø 4 - 5
- * **EMG-413-2C** = "CBN Wheel #300" for HSS End Mills / Ø 6 - 13
- * **EMG-1325-ID** = "SDC Wheel #150" for Carbide End Mills / Ø 12 - 25
- * **EMG-1325-1C** = "CBN Wheel #150" for HSS End Mills / Ø 12 - 25

- End Mill Sharpening in 1 Minute
- We Present "Tool Cabinet as a Free Gift"
- Operation is Fast and Easy
- Provide Savings

! Please clean the sharpening chips often for avoid the chip scrape to the sharpening base and keep usage life.



Order Code: **EMG - 413**

End Mill Diameter: Ø 4 - 13 mm

End Mill Angle: 6° - 20° - 30°

Sharpening Wheel 1: SDC #300 / for Carbide End Mills (Ø4-5)

Sharpening Wheel 2: SDC #300 / for Carbide End Mills (Ø6-13)

Motor / Power Supply: 450W / AC 220V

Speed: 6000 RPM

Net Weight: 17 kg



Order Code: **EMG - 1325**

End Mill Diameter: Ø 12 - 25 mm

End Mill Angle: 6° - 20° - 30°

Sharpening Wheel 1: CBN #150 / for HSS End Mills (Ø12-25)

Sharpening Wheel 2: SDC #150 / for Carbide End Mills

Motor / Power Supply: 1000W / AC 220V

Speed: 4300 RPM

Net Weight: 31 kg



Drill & End Mill Cutter

The handy Drill & End Mill Cutter is ideal for cutting Carbide and HSS tools. Practical using thanks to easy, compact and robust design. Easy to operate, no experience required for cutting a precision tool.

Order Code: **ECO - 316**

Diameter: Ø 3 - 16 mm

Cutting Wheel: SDC #100 / for Carbide Tools

Motor / Power Supply: 600W / AC 220V

Speed: 6000 RPM

Net Weight: 13 kg

Standard Accessories:

1. Drill & End Mill Cutter
2. SDC #100 Cutting Wheel
3. Hex Keys (4 - 10 mm)
4. Connection Cables
5. User & Training Manual

Optional Cutting Wheels:

(order code = product description)

* **ECO-316-1C**
"CBN Wheel #100" for HSS Tools

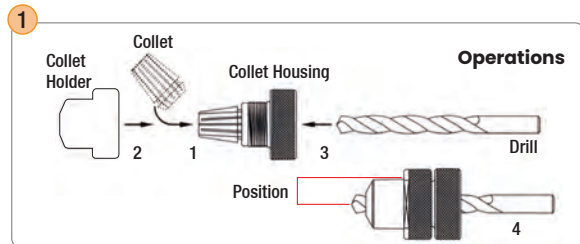
* **ECO-316-1D**
"SDC Wheel #100" for Carbide Tools

Budget-friendly! A machine that pays for itself in a short time!



Drill Sharpening Machine

The budget friendly and handy Drill Sharpening Machine is ideal for resharpening HSS and Carbide drills. Practical using thanks to easy, compact and robust design.



1. Set up the drill to the collet holder:

Follow up the steps 1,2,3 and 4 for set up the drill to the collet holder (without tightening), as shown on image-1.

2. Set up the diameter of drill:

- * Turn right the scale to be "0" position.
- * Adjust the scale to meet the diameter of the drill.



3. Set up the drill to the sharpening position:

Insert the collet holder with drill and turn right, then tight the drill by collet holder for set up the sharpening position, as shown on image-3.

Important: Please always check the center edge of drill must be parallel with the gap of "Collet Holder", as shown on the image-1/ "position".



4. Adjust the drill tip & chip evacuation shape angles:

Adjust the drill tip & chip evacuation shape angles to the suitable / desired position. Turn right for bigger, turn left for smaller, as shown on image-4.



5 & 6. Sharpen the drill tip & chip evacuation shape:

- * Turn on the power of the machine.
- * Insert the collet holder with drill and push to the sharpening wheel slowly, then move left and right repeatedly to sharpen the drill until the sharpening sound disappeared, as shown on image-5.
- * Take out the collet holder with drill and change to the other side to sharpen again in same way as above mentioned, as shown on image-6. Turn off the power of the machine. Your drill is ready to use.



Standard - Chip Evacuation Shapes:



The center point suitable for carbide / hard steels HSS E cobalt, Tin coated etc. hard materials



The center point suitable for general materials such as iron, general steel and brass.. etc.



The center point suitable for soft materials such as copper,aluminium, plastic.. etc.

Order Code: **EDG - 213**

Drill Diameter: Ø 2 - 13 mm

Point Angle of Sharpening: 90° - 140°

Sharpening Wheel: CBN #400 / for

HSS Drills (Ø2-13)

Motor / Power Supply: 250W / AC 220V

Speed: 5500 RPM

Net Weight: 8.5 kg



Order Code: **EDG - 1226**

Drill Diameter: Ø 12 - 26 mm

Point Angle of Sharpening: 90° - 140°

Sharpening Wheel: CBN #400 / for

HSS Drills (Ø12-26)

Motor / Power Supply: 450W / AC 220V

Speed: 4500 RPM

Net Weight: 26 kg

Standard Accessories / Set Content:

1. Drill Sharpening Machine
2. Tool Cabinet
3. 12 pcs ER Collet Set for EDG-213
15 pcs ER Collet Set for EDG-1226
4. CBN Sharpening Wheel for HSS Drills
5. Collet Holder
6. Hex Keys (4 - 5 - 6 mm)
7. Connection Cables
8. User & Training Manual



Optional Sharpening Wheels:

(order code = product description)

* EDG-213N-1D = "SDC Wheel #400" for Carbide Drills / Ø 2 - 13

* EDG-213N-1C = "CBN Wheel #400" for HSS Drills / Ø 2 - 13

* EDG-1226N-1D = "SDC Wheel #400" for Carbide Drills / Ø 12 - 26

* EDG-1226N-1C = "CBN Wheel #400" for HSS Drills / Ø 12 - 26

► Drill Sharpening in 30 Seconds

► We Present "Tool Cabinet as a Free Gift"

► Operation is Fast and Easy

► The Left & Right Sharpening Method Gives the Sharpest and the Most Durable Drill

! Please clean the sharpening chips often for avoid the chip scrape to the sharpening base and keep usage life.



Best in Class: Top Quality & Safety



Lifting Magnet (safety factor: x3.5 times)

Code: ELM



ELM - 100



ELM - 300



ELM - 600



ELM - 1000

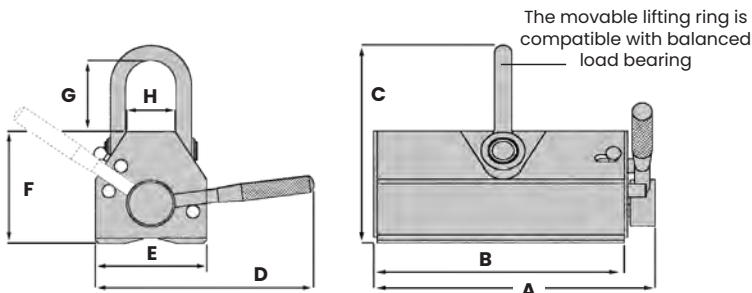


ELM - 2000



ELM - 3000

It features powerful magnetic force, with 3.5 times safety factor makes more safety in use. It is very practical, suitable for move plate steel, block steel and round steel, such as dies, moulds, machine parts and iron materials etc.. It is designed according to the self temporary continuous magnetic carrier block rotary pole logic. When ON - OFF open - close position is on the workpieces, it is taken / turned to ON / open position. When it is in idle position, it absolutely should be in OFF / close position. Carrying capacity can change according to the surface cleaning, thickness, quality, planarity and shape (flat / round) of metal material, also magnetic block and interval of workpiece. It does not require any power supply. There is no relation with electric interruptions, thus eliminating hazards due to failure wiring system as electric type. The handling ring is movable and it is compatible with balanced load bearing. It lifts and handles the load and it is easy to mount.



Order Code	Capacity	A	B	C	D	E	F	G	H	Weight	Safety Factor
ELM - 100	100 kg	107	84	120	125	60	71	41	30	2.5 kg	x3.5
ELM - 300	300 kg	180	155	156	185	90	93	51	41	8.6 kg	
ELM - 600	600 kg	255	224	212	260	115	120	77	52	21 kg	
ELM - 1000	1000 kg	280	245	286	371	165	169	97	87	46 kg	
ELM - 2000	2000 kg	422	380	348	512	216	215	105	121	118 kg	
ELM - 3000	3000 kg	566	530	400	770	216	222	147	80	181 kg	x3.0

Order Code	Steel Plate		Round Steel		Max. Length
	Max. lifting capacity	Min. thickness required	Max. lifting capacity	Max. diameter	
ELM - 100	100 kg	15 mm	60 kg	150 mm	1000 mm
ELM - 300	300 kg	25 mm	180 kg	250 mm	1500 mm
ELM - 600	600 kg	30 mm	360 kg	350 mm	2000 mm
ELM - 1000	1000 kg	40 mm	600 kg	450 mm	2500 mm
ELM - 2000	2000 kg	55 mm	1200 kg	550 mm	3000 mm
ELM - 3000	3000 kg	60 mm	1800 kg	650 mm	3500 mm



(ON)



(OFF)

IMPORTANT !
With ON / OFF switch, it is very easy and convenient to operate. See as the example pictures as below.
Note: Never moves the handle to "ON" side, except on an iron object of holding.