

### Rotary Air Grinder Tool

Order Code: **SRD3-85**  
(150 001 060)

For fine grinding, milling and engraving works.  
- Light and practical, like a pen.



Rpm: 85.000

Power: 80 watt

Valve: Rotary Valve or Lever Valve

Exhaust Air Direction: Backwards or Forwards

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

Hose Unit: Not inclusive (€ 120,00) • Weight: 130 g.

Price:

€ 700,00

Made in  
Germany

### Rotary Air Grinder Tool / Oil-free

Order Code: **TVD3-100**  
(150 149 906)

Oil-free grinders - for finest deburring operations.  
- Light and practical.



Rpm: 100.000

Power: 80 watt

Valve: Rotary Valve

Exhaust Air Direction: Forwards

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

Hose Unit: Inclusive • Weight: 250 g.

Price:

€ 750,00

Made in  
Germany

### Rotary Air Grinder & Deburring Tool

Order Code: **SRD3-55**  
(150 000 965)

For fine grinding, milling and engraving works.  
- Light and practical, like a pen.



Rpm: 55.000

Power: 60 watt

Valve: Rotary Valve

Exhaust Air Direction: Backwards

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

Hose Unit: Inclusive • Weight: 95 g.

Price:

€ 900,00

Made in  
Germany

### Rotary Air Grinder Tool / Oil-free

Order Code: **T3-65S**  
(150 149 810)

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 Direction: Backwards

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

Hose Unit: Inclusive • Weight: 390 g.

Price:

€ 930,00

Made in  
Germany

### Rotary Air Grinder Tool

Order Code: **SRD6-45**  
(150 010 750)

For fine - rough grinding, milling and engraving works.  
- Light and practical.



Rpm: 45.000

Power: 260 watt

Valve: Rotary Valve

Exhaust Air Direction: Backwards

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

Hose Unit: Not inclusive (€ 120,00) • Weight: 310 g.

Price:

€ 760,00

Made in  
Germany

### Rotary Air Grinder Tool / Oil-free

Order Code: **T6-50S**  
(150 149 820)

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: 150 watt

Valve: Rotary Valve

Exhaust Air Direction: Backwards

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

Hose Unit: Inclusive • Weight: 400 g.

Price:

€ 960,00

Made in  
Germany

### Rotary Angled Air Grinder Tool

Order Code: **WRD6-20**  
(150 123 475)

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 Direction: Backwards

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

Hose Unit: Not inclusive (€ 120,00) • Weight: 730 g.

Price:

€ 1.150,00

Made in  
Germany

### Rotary Angled Air Grinder Tool

Order Code: **WRD3-85**  
(150 100 315)

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 Direction: Backwards

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

Hose Unit: Inclusive • Weight: 260 g.

Price:

€ 920,00

Made in  
Germany

### Air File Tool / Vibration Damper

Order Code: **FLV4-9**  
(150 322 785)

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.

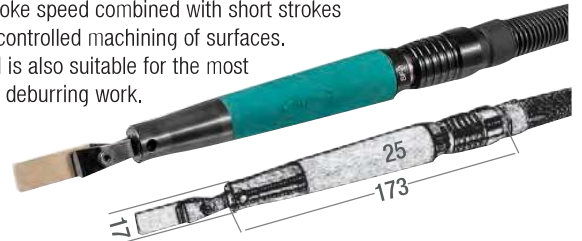
**Price:**  
**€ 820,00**

**Made in  
Germany**

### Air File Tool / Vibration Damper

Order Code: **FLV1-20**  
(150 322 780)

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.

**Price:**  
**€ 820,00**

**Made in  
Germany**

### "RSC" Modular System

For various  
Cnc  
machining  
processes.



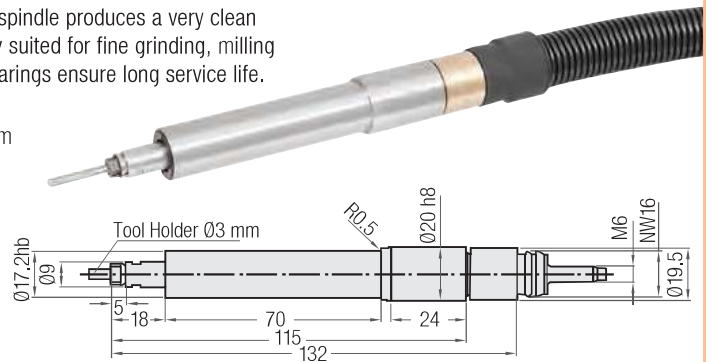
Please ask for information  
from our company.

### 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.



**Price:** € 950,00

**Made in  
Germany**

### "RWA" Pneumatic Spindles

Pneumatically  
controlled,  
operation  
with  
lubricated  
compressed  
air 6 bar.



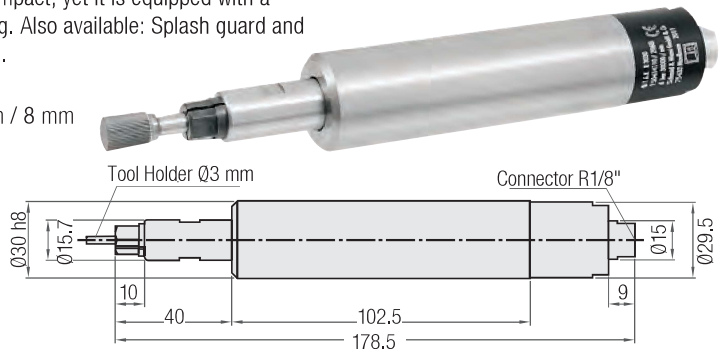
Please ask for information  
from our company.

### 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.



**Price:** € 1.200,00

**Made in  
Germany**

### "BWS 2-22" Quick-change System

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



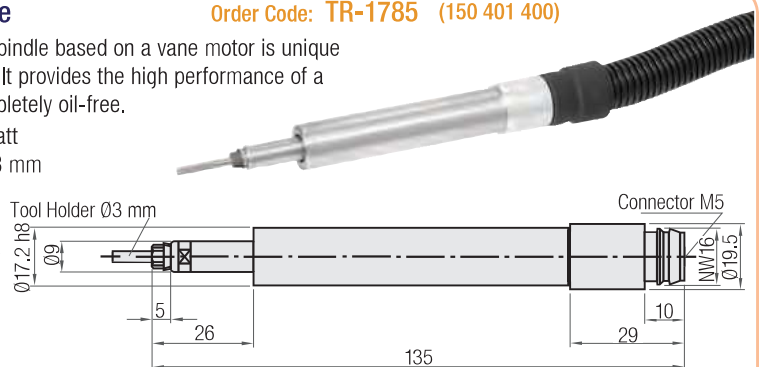
Please ask for information  
from our company.

### 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.



**Price:** € 1.050,00

**Made in  
Germany**

## Rotary Air Grinder Tool Order Code: AG-260

Economic

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



### Standard Accessories



Rpm: 60.000

Collet Ø: 3.0 mm

Dimensions: Ø 20 x Length: 160 mm

Hose Unit: Inclusive

Weight: 140 g.

**During Operation:** Please operate with 2–3 drops of oil per minute.



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

## Rotary Air Grinder Tool Order Code: AG-360

Economic

High torque, silent and well balance. Ideal for precision grinding and finishing works. For applications such as grinding, milling, brushing and polishing with felts. **During Operation:** Please use protective goggles, ear plugs and masks.



### Standard Accessories



Rpm: 60.000

Collet Ø: 2.35 mm - 3.0 mm

Dimensions: Ø 17 x Length: 159 mm

Hose Unit: Inclusive

Weight: 130 g.

**During Operation:** Please operate with 2–3 drops of oil per minute.



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

## Rotary Air Grinder Tool Order Code: AG-460

Economic

High torque, heavy-duty, general purpose applicable on deburring, chamfering, milling, pre-polishing and finishing. Compact design and comfortable usage. **During Operation:** Please use protective goggles, ear plugs and masks.



### Standard Accessories



Rpm: 35.000

Collet Ø: 3.0 mm - 6.0 mm

Dimensions: Ø 22 x Length: 180 mm

Hose Unit: Inclusive

Weight: 170 g.

**During Operation:** Please operate with 2–3 drops of oil per minute.



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

## Micro Rotary Air Grinder Tools

Economic

ET-1



DG



**During Operation:** Please operate with 2–3 drops of oil per minute.

**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	Technical Information / 6.3 Bar	Price
DG-M5	Rpm: 54.000 • Collet Ø: 3 mm • Length: 134 mm Air Hose Ø: 8 mm • Weight: 200 g.	€ 70,00
DG-M	Rpm: 70.000 • Collet Ø: 3 mm • Length: 134 mm Air Hose Ø: 8 mm • Weight: 200 g.	€ 190,00
DG-M8	Rpm: 82.000 • Collet Ø: 3 mm • Length: 134 mm Air Hose Ø: 8 mm • Weight: 200 g.	€ 220,00
ET-1	Rpm: 3.800 • Collet Ø: 6 mm • Length: 171 mm Air Hose Ø: 8 mm • Weight: 200 g.	€ 140,00

## Rotary Air Grinder Tools (for mounted points)

Economic

Order: NAK-A90 Angled Grinder 90°



Order: NAK-A45 Angled Grinder 45°

**During Operation:** Please operate with 2–3 drops of oil per minute.

Rpm: 35.000

Collet Ø: 3.0 mm

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

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

Hose Unit: Inclusive

## Accessories for Rotary Air Grinder Tool



Ø 2.35    Ø 3.0    Ø 6.0  
Spare Collets



Ø 30    Ø 30    Ø 30  
Wheel    Rubber    Abrasive

Collet Type	Order Code
Ø 2.35	AG-672
Ø 3.0	AG-673
Ø 6.0	AG-676

Suitable Tools	Spare Part	Order Code
AG-90 AG-45	Ø 30 Grinding Wheel	AGC01
	Ø 30 Rubber Band	AGS01
	Ø 30 Abrasive Disc	AGP01

## Air File Tool

Order Code: **AR-030**

Economic

### 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.



#### Standard Accessories



Stroke Length: 0.3 mm

Rpm: 40.000

Dimensions: Ø 28 x Length: 200 mm

Hose Unit: Inclusive

Weight: 200 g.

During Operation: Please operate with 2–3 drops of oil per minute.

## Air File Tool

Order Code: **SAR-070**

Economic

### Up & Down Motion

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



#### Standard Accessories



Stroke Length: 0.7 mm

Rpm: 15.000

Dimensions: Ø 18 x Length: 180 mm

Hose Unit: Inclusive

Weight: 250 g.

During Operation: Please operate with 2–3 drops of oil per minute.

## Air File Tool

Order Code: **AR-070**

Economic

### Long Stroke

Suitable for general polishing and finishing.  
Long stroke, adjustable power, low noise & vibration and robust tool life.



#### Standard Accessories



Stroke Length: 0.7 mm

Rpm: 35.000

Dimensions: Ø 28 x Length: 200 mm

Hose Unit: Inclusive

Weight: 200 g.

During Operation: Please operate with 2–3 drops of oil per minute.

## Air File Tool

Order Code: **AR-991**

Economic

### 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.



#### Standard Accessories



Stroke Length: 0.6 mm

Rpm: 4.500

Dimensions: Ø 30 x 140 mm x 206 mm

Hose Unit: Inclusive

Weight: 660 g.

During Operation: Please operate with 2–3 drops of oil per minute.

## Rotary Air Grinder Tools

Order: **AG-90**

Angled Grinder 90°

Economic



Order: **AG-45**

Angled Grinder 45°

#### Standard Accessories



Rpm: 23.500

Grinding / Abrasive Disc 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

Hose Unit: Inclusive

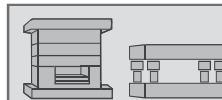
## Accessories for Air File Tool

	Ø 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 →	AR - 664	AR - 665	AR - 661	AR - 662	AR - 667	AR - 666
AR-030	●	●	○	●	○	●
AR-070	●	●	○	●	○	●
AR-300	●	●	●	●	●	●
SAR-070	●	●	●	●	○	●
AR-991	●	●	●	●	●	●

● Standard Holder

○ Optional Holder

○ Incompatible





## Ultrasonic Polishing Machine

Order Code: **U-LAP106**

"U-LAP 106" 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.

**Power Source:** AC 220

**Ultrasonic Power:** 45W, 2 levels

**Stroke Length:** 10 - 35 mm

**Vibration:** 15 - 25 khz

**Dimensions:** 152 x 100 x 72 mm



## Corded Rotary Tool

Order Code: **STRONG**

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.

**Rpm:** 50.000 • **Collet Ø:** 3mm

50 hz / 220 V

190-Piece  
Economic Set

NEW



## Polishing Kit / Multiple

Order Code: **6128001001**

### \* Contents:

- Electrical Rotary Tool
- Grinding Wheels
- Cutting Discs
- Brushes
- Drills
- Wire Brushes
- Diamond Endmills
- Mounted Points
- Polishing Stones
- Mounted Felts
- Abrasive Rolls
- Collets
- Diamond Compounds

### \* Tool Specifications:

- **Power:** 130 Watt
- **Voltage:** 230 V
- **Frequency:** 50 Hz.
- **Speed Control:** 1000 - 3000 Rpm
- **Collets:** Ø16 mm / 2.4 mm - 3.2 mm



Order Code	Specifications
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

## 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.

## Spare Parts



Order Code	Specifications
M19KK	Spiral Rod for Spiral Motor / 965 mm
M19FTK	Spiral Rod with Latch
YP...Ø	Spare Collets / 2.35 - 3 - 4 - 6 mm
BM...W	Foot Switch for Spiral Motor (when ordering: specify current motor watt)

## Hanger for Spiral Motor

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.

145-Piece  
Economic Set

NEW



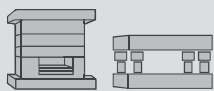
## Mini Polishing Kit

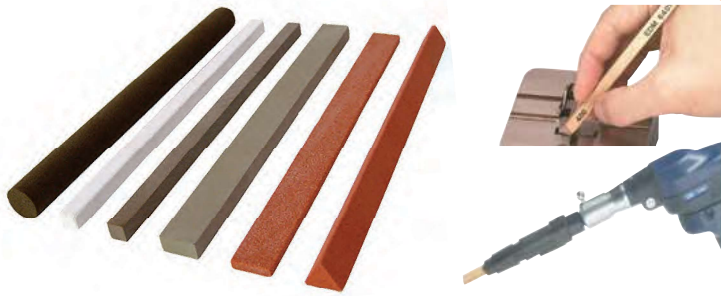
Order Code: **6128002001**



### \* Contents:

- Abrasive Rolls
- Grinding Wheels
- Cutting Discs
- Brushes
- Drills
- Wire Brushes
- Diamond Endmills
- Mounted Points
- Polishing Stones
- Mounted Felts
- Diamond Compounds
- Collets





## EDM Polishing Stones

Code: EG..

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.

### EDM Polishing Stone Types

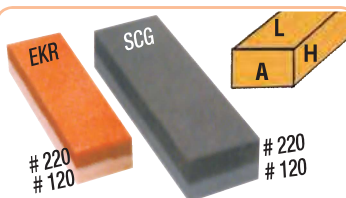
EGK	EGD	EGY	EGU	Grit	Operation
				# 120	Levelling
				# 150	
				# 180	
				# 220	
width x length (mm)	width x length (mm)	diameter x length (mm)	width x length (mm)	# 280	Pre-polishing
4 x 4 x 100	6 x 3 x 150	Ø 6 x 150	8 x 8 x 150	# 320	
6 x 6 x 150	13 x 3 x 150	Ø 8 x 150	10 x 10 x 150	# 400	
8 x 8 x 150	13 x 6 x 150	Ø 10 x 150	-	# 600	
10 x 10 x 150	-	Ø 12 x 150	-	# 800	Finishing
				# 1000	

Order: Type. Dimension. Grit

Order Example:  
EGK. 4 x 4 x 100. 320

### EDM Polishing Stone Holders

Product	Manually Operated				Air File Tool Operated			
Capacity	6 x 3	13 x 3	4 - 6	8 - 10	13 x 3	13 x 6	AR-661	AR-667
Order Code	GT-613	GT-468	GT-133	AR-661	AR-667	AR-666	AR-662	



### Polishing Block Stone

Code: BG..

For wide surface levelling and chamfering / deburring.  
EKR: General Steel • SCG: Hard Steel

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

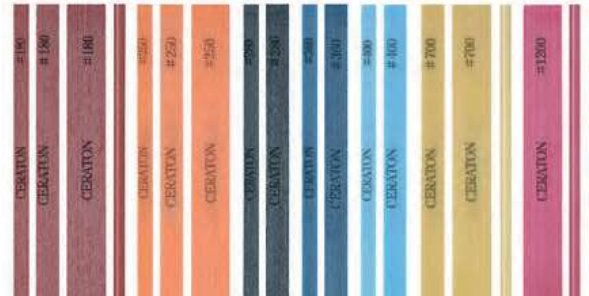


### Mini Cutting Disc

Code: KS..

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

Order Code	d	k	Mandrel
KS25	25	0.65	Ø 2.35 mm Ø 3.0 mm
KS40	40	1.0	
KS60	60	1.5	





## Fiber Ceramic Polishing Stones

Code: SG

"SG" 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. "SG" 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 obtained without clogging. "SG" Ceramic Stones can be used in our Air File Tools or by hand (please see below for manual holders).

### Fiber Ceramic Polishing Stones Types

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

Order:  
SG. Grit Code. Dimension

Order Example:  
SG. CSO. 1 x 6 x 100

### Fiber Ceramic Polishing Stone, Manual Holders

1 x 4 x 100		Order Code: WH041
1 x 6 x 100		Order Code: WH061
1 x 10 x 100		Order Code: WH101
Ø 3 x 100		Order Code: WH22K

### "Strong Fiber Texture & Durable Structure"



"SG" Ceramic Stones suitable to be used in Air File Tools. Refer to "page-341" for Air File Tools.





## Pink Mounted Points

Code: **SPT**

"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.: 50 m / s. Calculation:  $n = \frac{V \text{ (m/s)} \times 60.000}{D \text{ (mm)} \times 3.14}$

Order: **SPT. Code**      Order Example: **SPT. 410A**

## Mounted Points      Shank Dia. 3 mm

Form A / R Shank 3 mm	D	L						
	Ø 3 mm							
Code:	256A	308A	410A	510A	612A	816A	1016A	813R
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 Shank 3 mm	D	L						
	Ø 3 mm							
Code:	30B	40B	50B	60B	80B	100B	120B	1224R
D x L	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	12 x 24

Form C / F Shank 6 mm	D	L						
	Ø 6 mm							
Code:	1015B	1620B	2020B	2030B	2040B	2525B	2532B	3240B
D x L	10 x 15	16 x 20	20 x 20	20 x 30	20 x 40	25 x 25	25 x 32	32 x 40

Form E Shank 6 mm	D	L						
	Ø 6 mm							
Code:	308T	310T	412T	710T	412J	616J	816J	1016J
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

Form G/H/J Shank 6 mm	D	L						
	Ø 6 mm							
Code:	612P	815P	1018P	412K	515K	816K	132E	133E
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



## Mounted Points      Shank Dia. 6 mm

Form A Shank 6 mm	D	L						
	Ø 6 mm							
Code:	1608A	2008A	2016A	2510A	2520A	3220A	4025A	5030A
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 Shank 6 mm	D	L						
	Ø 6 mm							
Code:	1015B	1620B	2020B	2030B	2040B	2525B	2532B	3240B
D x L	10 x 15	16 x 20	20 x 20	20 x 30	20 x 40	25 x 25	25 x 32	32 x 40

Form C / F Shank 6 mm	D	L						
	Ø 6 mm							
Code:	2508C	3208C	4010C	1220D	2035D	0816F	1320F	2032F
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

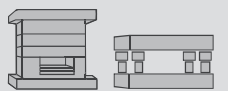
Form E Shank 6 mm	D	L						
	Ø 6 mm							
Code:	0816E	1230E	1640E	2030E	2040E	2525E	2540E	3240E
D x L	8 x 16	12 x 30	16 x 40	20 x 30	20 x 40	25 x 25	25 x 40	32 x 40

Form G/H/J Shank 6 mm	D	L						
	Ø 6 mm							
Code:	2016G	2520G	10H	15H	20H	1225J	1632J	2040J
D x L	20 x 16	25 x 20	Ø 10	Ø 15	Ø 20	12 x 25	16 x 32	20 x 40

## Grinder Disc

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

Order Code	Specification
<b>DP25</b>	Ø 25 x thickness: 3.2 mm / 80 Grit
<b>VM03</b>	Mandrel / 2.35 & 3.00 mm





## Mounted Wire Brushes

These products are very successful in cleaning EDM and deep burrs traces (especially with Guvenal - Diamond Compound Order Code: SDP14).

	Conical & Brass Wired Shank: 3 mm Order: STF158
	Conical & Inox Wired Shank: 3 mm Order: SMF158
	Disc & Brass Wired Shank: 3 mm Order: STF222
	Disc & Inox Wired Shank: 3 mm Order: SMF222
	Flat & Brass Wired Shank: 3 mm Order: STF148
	Flat & Inox Wired Shank: 3 mm Order: SMF148

As per request: Shank 2.35 mm is available.

Code: DZ

Code: DZL



## Self-adhesive Abrasive Disc

For Abrasive:



Order:  
DZ.. x Grit

Order Example:  
DZ18 x 320

For Holder:



Order:  
DZL.. x Shank

Order Example:  
DZL80 x 3

Code	Abrasive	Grit	Holder	Shank
DZ10	Ø 10	# 80	Ø 10	3 mm
DZ18	Ø 18		Ø 18	
DZ30	Ø 30		Ø 30	
DZ45	Ø 45	# 220	Ø 45	6 mm
DZ70	Ø 70	# 320	Ø 70	
DZ80	Ø 80	# 400	Ø 80	
DZ100	Ø 100		Ø 100	

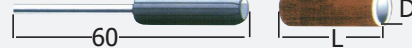


## Mini Abrasive Roll Set Code: ML

Mini Abrasive Rolls & Holder.

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

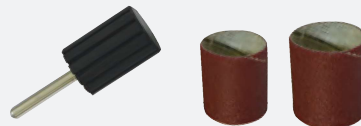
Shank 3 mm



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



As per request / Custom-made orders.



## Mini Abrasive Rolls

Order: Code, Grit	Order Example: SPZ12.. 80
----------------------	------------------------------

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

## Holder for Abrasive Rolls

Order Code	Holder	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



## Rubber Mounted Polishing Point Rubber, Soft Type & Finishing

Form RK	Shank 3 mm	Order:	RK04	RK05	RK06	RK08	RK10
		D x L	4 x 13	5 x 15	6 x 17	8 x 20	10 x 20

Form RB	Shank 6 mm	Order:	RB15	RB20	RB25	RB30	RB35
		D x L	15 x 25	20 x 25	25 x 25	30 x 30	35 x 35



## Rubber Mounted Polishing Point Ceramic, Hard Type & Pre-polishing

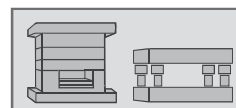
Form CK	Shank 3 mm	Order:	CK04	CK05	CK06	CK08	CK10
		D x L	4 x 13	5 x 15	6 x 17	8 x 20	10 x 20

Form CB	Shank 6 mm	Order:	CB15	CB20	CB25	CB30	CB35
		D x L	15 x 25	20 x 25	25 x 25	30 x 30	35 x 35



## Polishing Rubbers

Cylinder (Ø6x22) Order: Red (medium) : KK06 Black (hard) : KS06 Mandrel : DM03  
Disc (Ø20x3) Order: Red (medium) : DK06 Black (hard) : DS06 Mandrel : VM03



Page

345












Order: **SPK. Code**










Order Example:  
**SPK. 1014A**

## Mounted Polishing Felts Shank Dia. 3 mm

Form A	D	L						
Shank 3 mm	Ø 3 mm							
Code:	0408A	0509A	0610A	0810A	1014A	1220A	1520A	2020A
D x L	4 x 8	5 x 9	6 x 10	8 x 10	10 x 14	12 x 20	15 x 20	20 x 20

Form C / H								
Shank 3 mm								
Code:	0408C	0509C	0610C	0810C	1013C	1214C	1520C	1218H
D x L	4 x 8	5 x 9	6 x 10	8 x 10	10 x 14	12 x 20	15 x 20	20 x 20

								
0410J	0512J	0616J	0817J	1014J	1020J	1220J	1225J	1218T
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

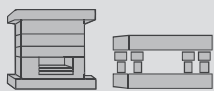
								
08B	10B	12B	18B	1014R	1225R	2505L	2207L	2210L
Ø 8	Ø 10	Ø 12	Ø 18	10 x 14	12 x 25	25 x 5	22 x 7	22 x 10

## Adhesive Felt Discs Code: **Y..D**



Order	Dimension	Hole
Y18D	Ø 18 x 4 mm	7 mm
Y30D	Ø 30 x 4 mm	12 mm
Y45D	Ø 45 x 4 mm	18 mm

"Y..D" Adhesive Felt Discs suitable to be used with "DZL" Holders. Refer to "page-345" for "DZL" Holders.



## Mounted Polishing Felts

Code: **SPK**

It is used at finishing with Diamond Compounds. Also, it can be applied with other polishers. 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.

## Mounted Polishing Felts Shank Dia. 6 mm

Form A / B	D	L						
Shank 6 mm	Ø 6 mm							
Code:	1520A	2020A	2025A	2530A	3040A	14B	20B	
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								
Shank 6 mm								
Code:	2110E	3015E	4020E	5030E	1520C	2025C	2530C	
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								
Shank 6 mm								
Code:	1018K	1220K	1525K	2025K	2530K	1530H	1030G	
D x L	10 x 18	12 x 20	15 x 25	20 x 25	25 x 30	15 x 30	10 x 30	

## Mounted Felt Sticks Code: **S..D**

Usage with Electrical or Air Tools.



Order Code	Dimension	Shank
S06D	6 x 6 x 25 mm	Ø 3 mm
S10D	10 x 10 x 35 mm	
S12D	12 x 12 x 45 mm	

## Felt Polishing Sticks Code: **E..K**

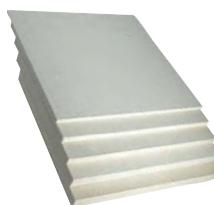
Suitable for manual usage.



Order Code	Dimension
E06K	6 x 6 x 150 mm
E10K	10 x 10 x 150 mm
E12K	12 x 12 x 150 mm
GT-133	Holder (suitable for tool usage)

## Polishing Felt Sheets Code: **P...**

It can be adhered to your tool by cutting.



Order Code	Dimension
P325	6 x 250 x 250 mm
P625	10 x 250 x 250 mm
P1025	12 x 250 x 250 mm



## Mounted Hair Brushes

Code: **SKF**

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.

Shank: 3 mm  
Ø 22 x 2 mm



Order: **SKF022**

Shank: 3 mm  
Ø 16 x 8 mm



Order: **SKF168**

Shank: 3 mm  
Ø 16 x 8 mm



Order: **SKF016**

Shank: 3 mm  
Ø 6 x 8 mm



Order: **SKF068**



GT-133



## Plexiglass Polishing Sticks

Code: **PC..**

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

Order Code	Dimension	Type
PC.08	8 x 8 x 150 mm	Square
PC.10	10 x 6 x 150 mm	Rectangular
PC.13	13 x 6 x 150 mm	Rectangular
PC.06	Ø 6 x 150 mm	Round
GT-133	Holder (suitable for tool usage)	



## Wooden Types

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



Code: **ASK**

Code: **AC..**

### Mounted Wooden Points

Order Code	Dimension
ASK.06	Ø 6 x 15
ASK.10	Ø 10 x 20
ASK.15	Ø 15 x 25
ASK.20	Ø 20 x 30
ASK.010	Ø 10 (spherical)

### Wooden Lapping Sticks

Order Code	Dimension	Type
AC.06	6 x 6 x 150	Square
AC.10	10 x 10 x 150	Square
AC.12	12 x 12 x 150	Square
AC.03	6 x 3 x 150	Rectangular
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



## 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. Economical 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).

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

**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: W170104) is an effective, economic and provide easiness. As a surface protector our new product (order code: W160113) is perfect as flexible surface coating.

## 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.

Content: 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.





Code: **RZ**

## Tapered Abrasive Cartridge Rolls

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
RZ06	6 x 38	# 80
RZ10	10 x 38	
RZ13	13 x 38	# 120
RZ16	16 x 38	
RZ20	20 x 38	# 220

Code	Mandrel
TM03	3 x 30
TM06	6 x 60



Order:  
Code, Grit

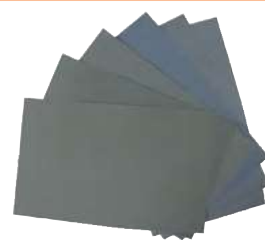
Order Example:  
**RZ16, 220**



Code: **BZ**

## Abrasive Cloth Rolls

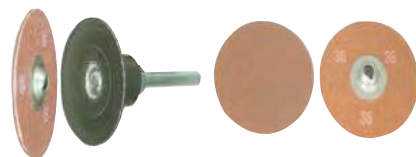
Order Code	Grit	Operation	Width	Package
BZ40	#40	Coarse	150 mm	1 Metre
BZ60	#60			
BZ80	#80			
BZ100	#100			
BZ120	#120			
BZ150	#150	Medium		
BZ180	#180			
BZ220	#220			
BZ280	#280			
BZ320	#320			
BZ400	#400	Fine		
BZ600	#600			
BZ800	#800			



Code: **SZ**

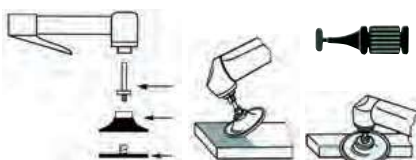
## Waterproof Abrasive Paper

Order Code	Grit	Operation	Dim.	Package
SZ40	#40	Coarse	230 x 280 mm	1 pcs.
SZ60	#60			
SZ80	#80			
SZ100	#100			
SZ120	#120			
SZ150	#150	Medium		
SZ180	#180			
SZ220	#220			
SZ280	#280			
SZ320	#320			
SZ400	#400	Fine		
SZ600	#600			
SZ800	#800			
SZ1000	#1000			
SZ1200	#1200			



## Clip-on Abrasive Disc

Code: **KZD**



### Abrasive Disc

Code	Disc	Grit
KZD38	Ø 38	# 36
KZD51	Ø 51	# 80
KZD76	Ø 76	#120

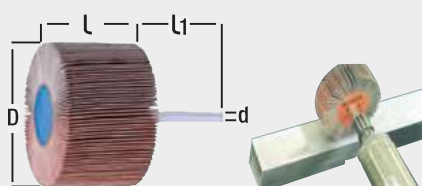
### Mandrel

Order Code	Shank	Rubber Ø
KLT63	6 mm	38 mm
KLT65	6 mm	51 mm
KLT67	6 mm	76 mm



Order:  
Code, Grit

Order Example:  
**KZD51, 80**



## Abrasive Mop Whells

Code: **MZ**

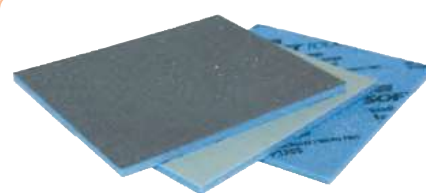
During operation, wear protective goggles. Cutting speed: 15 - 20 m / s max.

Code	D	L	d	L1	Grit
MZ3.1515	15	15	3.0	40	#40
MZ3.2020	20	20			
MZ6.2015	20	15	6.0	40	#60
MZ6.2020		20			
MZ6.2515	25	15		40	#80
MZ6.2525		25			
MZ6.3015	30	15		40	#100
MZ6.3025		25			
MZ6.4020	40	20		40	#120
MZ6.4030		30			
MZ6.5020	50	20		40	#180
MZ6.5030		30			
MZ6.6020	60	20		40	#220
MZ6.6040		40			
MZ6.8040	80	40		40	#320
					#400



Order:  
Code x Grit

Order Example:  
**MZ6.2515 x 80**



## Waterproof Abrasive Paper with Sponge

Code: **SM**

Order Code	Grit	Width	Package
SM150	#150	115 mm	1 Metre
SM220	#220		
SM280	#280		
SM320	#320		
SM400	#400		

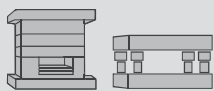


**Note:**  
All sides of the product can be used. Easy to clean, you can use repeatedly.

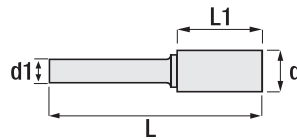
## Foam - Abrasive Pads

Code: **EZ**

Order Code	Grit	Dimension	Package
EZ60	#60	100 x 68 x 27 mm	1 pcs.
EZ100	#100		
EZ150	#150		
EZ220	#220		
EZ320	#320		

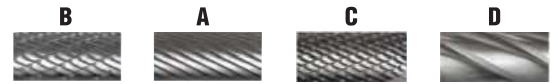


## Carbide Rotary Burrs



Order:  
Code. Shape

Order Example:  
SA14. B



**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 A:** Standard cut for general operations.

**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.



### Cylinder Type DIN 8033

Code: SA

Code	d	d1	L1	L	Shape
SA42	2.5	3	11	38	B
SA43	3.0		14	38	
SA14	5.0	6	16	50	A
SA1	6.0		16	50	C
SA3	9.5		19	63	D
SA5	12.7		25	69	



### Cylinder Type with Endcut

Code: SB

Code	d	d1	L1	L	Shape
SB42	2.5	3	11	38	B
SB43	3.0		14	38	
SB14	5.0	6	16	50	A
SB1	6.0		16	50	C
SB3	9.5		19	63	D
SB5	12.7		25	69	



### Radius Cylindrical Type

Code: SC

Code	d	d1	L1	L	Shape
SC42	3.0	3	14	38	B
SC42ML2	3.0		14	50	
SC14	5.0	6	16	50	A
SC1	6.0		16	50	C
SC3	9.5		19	63	D
SC5	12.7		25	69	



### Ball Type

Code: SD

Code	d	d1	L1	L	Shape
SD41	2.5	3	2.3	38	B
SD42	3.0		2.5	38	
SD14	5.0	6	4.0	50	A
SD1	6.0		5.0	50	C
SD2	8.0		6.4	50	D
SD3	9.5		8.0	52	



### Pointed Tree Type

Code: SG

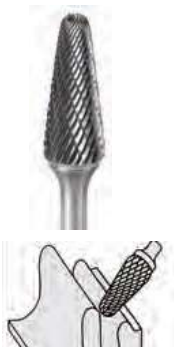
Code	d	d1	L1	L	Shape
SG41	3.0	3	6.0	38	B
SG43	3.0		9.5	38	
SG1	6.0	6	16	50	A
SG2	8.0		19	63	C
SG5	12.7		25	69	D
SG6	16		25	69	



### Flame Type

Code: SH

Code	d	d1	L1	L	Shape
SH41	3.0	3	6.3	38	B
SH41ML	3.0		6.3	50	
SH1	6.0	6	9.5	50	A
SH2	8.0		19	63	C
SH5	12.7		32	76	D
SH6	16		36	80	



### Radius Cone Type

Code: SL

Code	d	d1	L1	L	Shape
SL41	3.0	3	9.5	38	B
SL42	3.0		12.7	38	
SL1	6.0	6	16	50	A
SL2	8.0		22	69	C
SL4	12.7		28	76	D
SL6	16		33	80	



### 90° Cone Type

Code: SK

Code	d	d1	L1	L	Shape
SK42	3.0	3	1.5	38	B
SK1	6.0	6	3.0	50	A
SK3	9.5		4.7	52	C
SK6	16		8	57	D



## CBN 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. **Shank: Ø3 mm • Full Length of Products: 45 mm**

Order: **PEF. Code**

Order Example:  
**PEF. 50B**

Shank: 3 mm	<b>D</b>								
Full Length: 45 mm	<b>L</b>								
Code:	<b>10A</b>	<b>15A</b>	<b>20A</b>	<b>25A</b>	<b>30A</b>	<b>35A</b>	<b>40A</b>	<b>50A</b>	<b>30V</b>
<b>D x L</b>	1x8	1.5x8	2x8	2.5x8	3x10	3.5x10	4x10	5x10	3x10

<b>20B</b>	<b>30B</b>	<b>50B</b>	<b>15C</b>	<b>20C</b>	<b>25C</b>	<b>30C</b>	<b>35C</b>	<b>40C</b>	<b>50C</b>
Ø 2	Ø 3	Ø 5	1.5x8	2 x 8	2.5x8	3x10	3.5x10	4x10	5x10

<b>20F</b>	<b>30F</b>	<b>50F</b>	<b>20P</b>	<b>30P</b>	<b>15R</b>	<b>20R</b>	<b>30R</b>	<b>20T</b>	<b>30T</b>
2x10	3x10	5x10	2x12	3x15	1.5x10	2x12	3x14	2x10	3x10

<b>40Q</b>	<b>30S</b>	<b>40S</b>
4 x 7	3 x 6	4 x 8

				(mandrel)
<b>SPR16</b>	<b>SPR20</b>	<b>SPR22</b>	<b>SPR25</b>	<b>SPR</b>
16 x 0.5	20 x 0.5	22 x 0.5	25 x 0.6	Ø3 mm

## Diamond CBN 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 CBN 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 CBN Set - Economic

Order Code: **T20** 20 pcs.

Order Code: **T30** 30 pcs.



\* Contents are the same as the BMS Set.

## Diamond CBN Set 50 pcs. - Economic

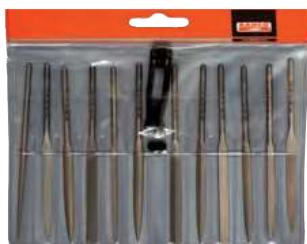
Order Code:  
**C280300**



## 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



## Engineers File - Hand Code: LHE



**Coarse:** For material removing and deburring.  
**Medium:** For general purpose and levelling.  
**Fine:** Precision filling and smoothing.

Order: Code. Cut

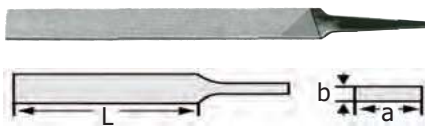
Order Example:  
LHE150. Course

Code	Inch	Cut	a	b	L
LHE100	4"	Coarse	10	2.5	100
LHE150	6"		16	4.0	150
LHE200	8"		20	5.0	200
LHE250	10"	Fine	25	6.5	250
LHE300	12"		30	7.0	300

## Engineers File - Mill Saw Code: MTE

Code: MTE

Order Example:  
MTE200. Medium



Code	Inch	Cut	a	b	L
MTE100	4"	Coarse	10	2.5	100
MTE150	6"		16	3.0	150
MTE200	8"		20	4.0	200
MTE250	10"	Fine	25	5.0	250
MTE300	12"		30	6.5	300

## Engineers File - Square Code: KTE

Code: KTE

Order Example:  
KTE150. Medium



Code	Inch	Cut	a	L
KTE100	4"	Coarse	4	100
KTE150	6"		5	150
KTE200	8"		6	200
KTE250	10"	Fine	8	250
KTE300	12"		10	300

## Engineers File - Half Round Code: YYE

Code: YYE

Order Example:  
YYE100. Medium



Code	Inch	Cut	a	b	L
YYE100	4"	Coarse	10	3.3	100
YYE150	6"		16	5.0	150
YYE200	8"		20	6.0	200
YYE250	10"	Fine	25	7.0	250
YYE300	12"		30	9.0	300

## Engineers File - Round Code: YTE

Code: YTE

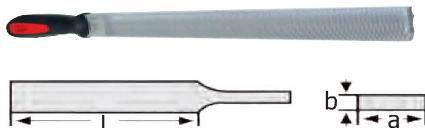
Order Example:  
YTE250. Fine



Code	Inch	Cut	Ø	L
YTE100	4"	Coarse	Ø 4	100
YTE150	6"		Ø 6	150
YTE200	8"		Ø 8	200
YTE250	10"	Fine	Ø 10	250
YTE300	12"		Ø 12	300

## Engineers File - Aluminium Code: ALE

Code: ALE



Order Code	Inch	Cut	a	b	L
ALE250	10"	Coarse	25	6.0	250
ALE300	12"		30	6.5	300

## Plastic Handle for Files "ESSE"



Order Code	Type	File	Inch
ESY04			4"
ESY06			6"
ESY08			8"
ESY10			10"
ESY12			12"

Order Code	Type	File	Inch
ESD04			4"
ESD06			6"
ESD08			8"
ESD10			10"
ESD12			12"

Order Code	Product
ESSE	Handle for Needle Files

## Engineers File - Triangular Code: UTE

Code: UTE



Order Example:  
UTE300. Medium



Code	Inch	Cut	a	L
UTE100	4"	Coarse	7	100
UTE150	6"		9	150
UTE200	8"		11	200
UTE250	10"	Fine	14	250
UTE300	12"		17	300

## 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
SLE140	Ø	5.5 x 1.35	140	4-cut
SLE160	3	6.2 x 1.45	160	

### Steel Needle File - Half Round Code: SYE



Order Code	Shank	a x b	L	Operation
SYE140	Ø	5.0 x 1.75	140	3-cut
SYE160	3	5.5 x 2.0	160	

### Steel Needle File - Round Code: SYE



Order Code	Shank	a (tapered)	L	Operation
SYE140	Ø	1.1 - 2.8	140	all sides
SYE160	3	1.2 - 3.0	160	

### Steel Needle File - Square Code: SKE



Order Code	Shank	a (tapered)	L	Operation
SKE140	Ø	1.3 - 2.5	140	4-cut
SKE160	3	1.4 - 2.7	160	

### Steel Needle File - Triangular Code: SUE



Order Code	Shank	a (tapered)	L	Operation
SUE140	Ø	1.0 - 3.2	140	3-cut
SUE160	3	1.3 - 3.4	160	

## File Cleaning Brushes

Code: 1737BA



Code:  
1737



Code: 1737NX

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



## Diamond File Set - 10 pcs.

Order Code: **TPF10E**

Contains one file each of:

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

Grit: #150 - #200 - #400



Economic

## Diamond File Set - 5 pcs.

Order Code: **RKE1005**

Contains one file each of:

Flat, triangular, square, half round and crossing.



Economic

## Diamond File Set - 10 pcs.

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



Economic

## Diamond Course File Set 5 pcs.

Order Code: **13711**

\* 4 x 160 mm



Economic

## Die Sinkers Diamond Riffler File Set - 5 pcs.

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



Economic

## Diamond Files

Economic Series

### Diamond File - Hand

Code: **ELE**



Order Code	Shank	d x L1 x L
ELE140	Ø4	5 x 70 x 140
ELE160	Ø5	8 x 50 x 160
ELE200	Ø5.5	8 x 70 x 200

### Diamond File - Half Round

Code: **EYY**



Order Code	Shank	d x L1 x L
EYY140	Ø4	5 x 70 x 140
EYY160	Ø5	8 x 50 x 160
EYY200	Ø5.5	8 x 70 x 200

### Diamond File - Round

Code: **EYE**



Order Code	Shank	d x L1 x L
EYE140	Ø4	Ø 3 x 70 x 140
EYE160	Ø5	Ø 4 x 50 x 160
EYE200	Ø5.5	Ø 4 x 70 x 200

### Diamond File - Square

Code: **DEE**



Order Code	Shank	d x L1 x L
DEE140	Ø4	3.0 x 70 x 140
DEE160	Ø5	3.6 x 50 x 160
DEE200	Ø5.5	3.6 x 70 x 200

### Diamond File - Triangular

Code: **UEE**



Order Code	Shank	d x L1 x L
UEE140	Ø4	3.7 x 70 x 140
UEE160	Ø5	5.0 x 50 x 160
UEE200	Ø5.5	5.0 x 70 x 200

## Diamond Tapered Files - Hand

Code: **CF..**

Order Code	Cross Section	Diamond Length	Total Length
CF503		60 mm	180 mm
CF502		60 mm	
CF501		70 mm	

### Diamond File - Round

Order Code: **IF503**



Shank	Cross Section	Length
5 x 5		Diamond: 80 mm Total: 215 mm

### Diamond File - Half Round

Order Code: **IF502**



Shank	Cross Section	Length
11 x 4		Diamond: 80 mm Total: 215 mm

### Diamond File - Flat

Order Code: **IF501**



Shank	Cross Section	Length
11 x 4		Diamond: 80 mm Total: 215 mm

### Diamond File - Triangular

Order Code: **IF505**



Shank	Cross Section	Length
11 x 4		Diamond: 80 mm Total: 215 mm

### Diamond File - Square

Order Code: **IF504**



Shank	Cross Section	Length
6 x 6		Diamond: 80 mm Total: 215 mm

### Diamond File with Handle - Flat

Order Code: **HX4**



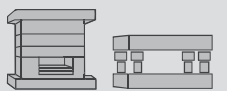
Cross Section	Total Length
	100 mm (4")

### Diamond File with Handle - Flat

Order Code: **HX10**



Cross Section	Total Length
	250 mm (10")



## Diamond Tapered File Set 5 pcs.

Order Code: **CF500**



Set Content: Grit: #150 - #200

Length: 180 • Diamond Length: 70 • Width: 2,8 mm

Length: 180 • Diamond Length: 60 • Width: 2,5 mm

Length: 180 • Diamond Length: 60 • Width: 2,5 mm

Length: 180 • Diamond Length: 50 • Width: 2,0 mm

Length: 180 • Diamond Length: 50 • Width: 2,2 mm

## Diamond Tapered File Set 10 pcs.

Order Code: **PTF10T**



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

Round: #600 Grit Length: 140 mm Ø 3.0 mm

## Diamond Tapered File Set 10 pcs.

Order Code: **PTF100**



4 different model & 10 pcs.

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 Ø 3.0 mm

## Diamond Needle File Set 10 pcs.

Order Code: **PFL100**



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 Ø 3.0 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 Ø 2.0 mm

Riffler: #200 Grit 5,5 x 1,5 mm

## Diamond File Set - 5 pcs.

Order Code: **IF500**



Diamond Length: 80 • Total Length: 215 mm

Set Content: Grit: #100

Round Ø 5.2 mm

Half Round 9.0 x 4.0 mm

Flat 11 x 4.0 mm

Triangular 8.0 mm

Square 6.0 mm

## Diamond Tip File Set - 10 pcs.

Order Code: **FAS100T**



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

Set Content: 1.0 x 0.5

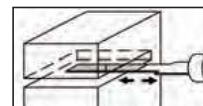
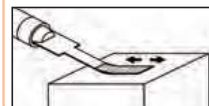
\* Length: 60 • Width: 4 ~ 2 • Grit: #150 #200

\* 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 Riffler File Set - 6 pcs.

Order Code: **BF800**



Shank: Ø 3.0 mm • Total Length: 155 mm

Contains one riffler file each of:

Crossing, Hand, Round, Riffler, Square and Triangular.

## Diamond Tapered File Set 12 pcs.

Order Code: **CF400**



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 12 pcs.

Order Code: **MTF100**



4 different model, 12 pcs. & for Air File Tools.

Shank: Ø3 • Diamond Length: 15 mm

#200 #400 #600 Grit Length: 72 mm

#200 #400 #600 Grit Length: 72 mm

#200 #400 #600 Grit Length: 56 mm

#200 #400 #600 Grit Length: 56 mm



## Tool Post Grinders

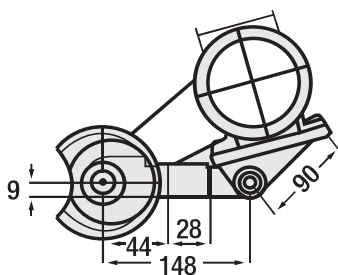
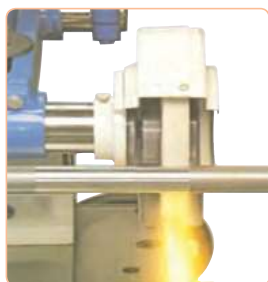
Code: **ST..**

### On Lathe / for Internal & External Grinding

It is an excellent machine for internal / hole grinding with easy to mount to the lathe. During the internal works, it maintains many difficult operation, in addition to external grinding operation together.

- 15 / 20% material removal.
- Internal grinding up to 150 mm (up to 600 mm with additional apparatus).
- Surface / flat grinding operation with Cup Grinding Wheel.

The installation is made by placing a flange on the part of the lathe where the tool holder is located. As all lathes have different axis, the lathe axis is referenced. You can request assistance from our company for installation and training.



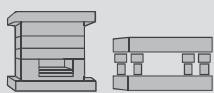
Specification	Order Code: <b>ST175</b>
Motor Power	0.5 HP / 380 V ~ 50 Hz
Rpm	2800
Grinding Wheel	175 x 20 x 20 (25 / 32)
Suitable Lathe	1000 and 1500 mm

Specification	Order Code: <b>ST201</b>
Motor Power	1 HP / 380 V ~ 50 Hz
Rpm	2800
Grinding Wheel	200 x 20 x 20 (25 / 32)
Suitable Lathe	2000 mm

Specification	Order Code: <b>ST202</b>
Motor Power	2 HP / 380 V ~ 50 Hz
Rpm	3000
Grinding Wheel	200 x 20 x 20 (25 / 32)
Suitable Lathe	2000 mm and over

Page

354



## 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.

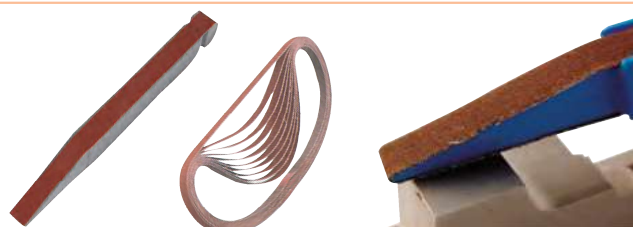
Suitable for dry or wet use.

**Block Dimension:** 80 x 50 x 20 mm.

- Extra Coarse** - 36 grit (wine)  
**Coarse** - 60 grit (blue)  
**Medium** - 120 grit (grey)  
**Fine** - 240 grit (brown)

Order: **KS. Grit**

Order Example:  
**KS. 60**



## Mini Abrasive Pen

Code: **KZ310**

It provides opportunity to use each sides of abrasive by pressing tension spring and turning abrasive band. It is suitable to use at areas that are hard to reach. Multi-purpose usage area at hard operations, it is most suitable equipment to use instead of file. Total length: 158 mm.

### Spare Abrasive Bands:

It can be purchased in packages containing 10 pieces (#180 / #320 grit, 5+5 pcs).

### Mini Abrasive Rod:

Order: **KZ310**

### Spare Abrasive Bands:

Order: **ZK155**



## Work Safety Products for Mould Polishing Operation

Order Code	Product
<b>KBK</b>	Ear Protection
<b>KLK</b>	Earplug
<b>STM</b>	Dust Mask
<b>VTM</b>	Dust Mask with Valve
<b>KG01</b>	Safety Goggles



### Table Lamps with Magnifier & Hand Magnifier with Lamp

Order Code	Specifications
ZLA	Diopter: 5 / Glass Lens Dimension: 190 x 157 mm Light Source: 2x 9W fluorescent lamp / Voltage: 220V - 240V
MBL	Diopter: 5 / Glass Lens Dimension: Ø 88 mm Light Source: LED / Voltage: 220V
TROY	Hand-held / Zoom: 6x / Light Source: LED / Battery: AA



### Tool Cabinet with Drawers

Code: **HOB1...**

The products used in polishing operation absolutely should be stored separately. In order not to mix products and to protect regularly, we are recommended our cabinets.

Order Code: **HOB1-114**

Dimensions	Number of Drawers
400 x 220 x 660 mm	22

Order Code: **HOB1-113**

Dimensions	Number of Drawers
400 x 220 x 500 mm	19

### Clear Loupe Magnifier

Order Code: **183303**



**Magnification Power: 15x**

This pocket magnifier is ideal for a variety of measuring tasks. Transparent draw tube enables clear imaging of the workpiece.

### Headband Magnifier

Order Code: **HL-09**



**Magnification Power: 2.5x**

Light and impact resistant plastic frame. Comfortable padded headband and fully adjustable.



### Industrial Cleaning Cloth Roll

It is produced completely from cellulose and absorber. It is excellent for cleaning of precision tools without leaving a trace. It does not leave feathers, not easily torn and practically used.

**Stand Dimension:** 450(l) x 330(w) x 940(h)  
**Stand Weight:** 2.5 kg • **Cloth Weight:** 11 kg  
**Cloth Length:** 350 metre  
**Cloth Width:** 25 cm

Order Code	Product
P350	Cleaning Cloth Roll (350 metre)
P1000	Cloth Stand + Cloth Roll Set

### Mini Vacuum Base Vice

Order Code: **RMM0201**



**Jaw Width:**  
70 mm  
**Jaw Opening Max.:**  
70 mm  
**Weight:**  
1.25 kg

Vacuum base mounts on any smooth surface for workholding where you need it. Vice can be rotated 360-degree. Supplied with removable soft rubber protective jaw covers.

### 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.

