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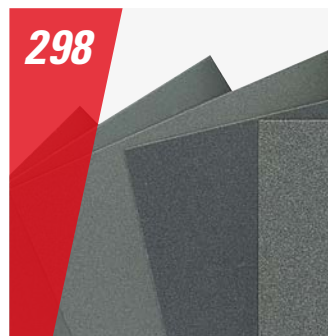
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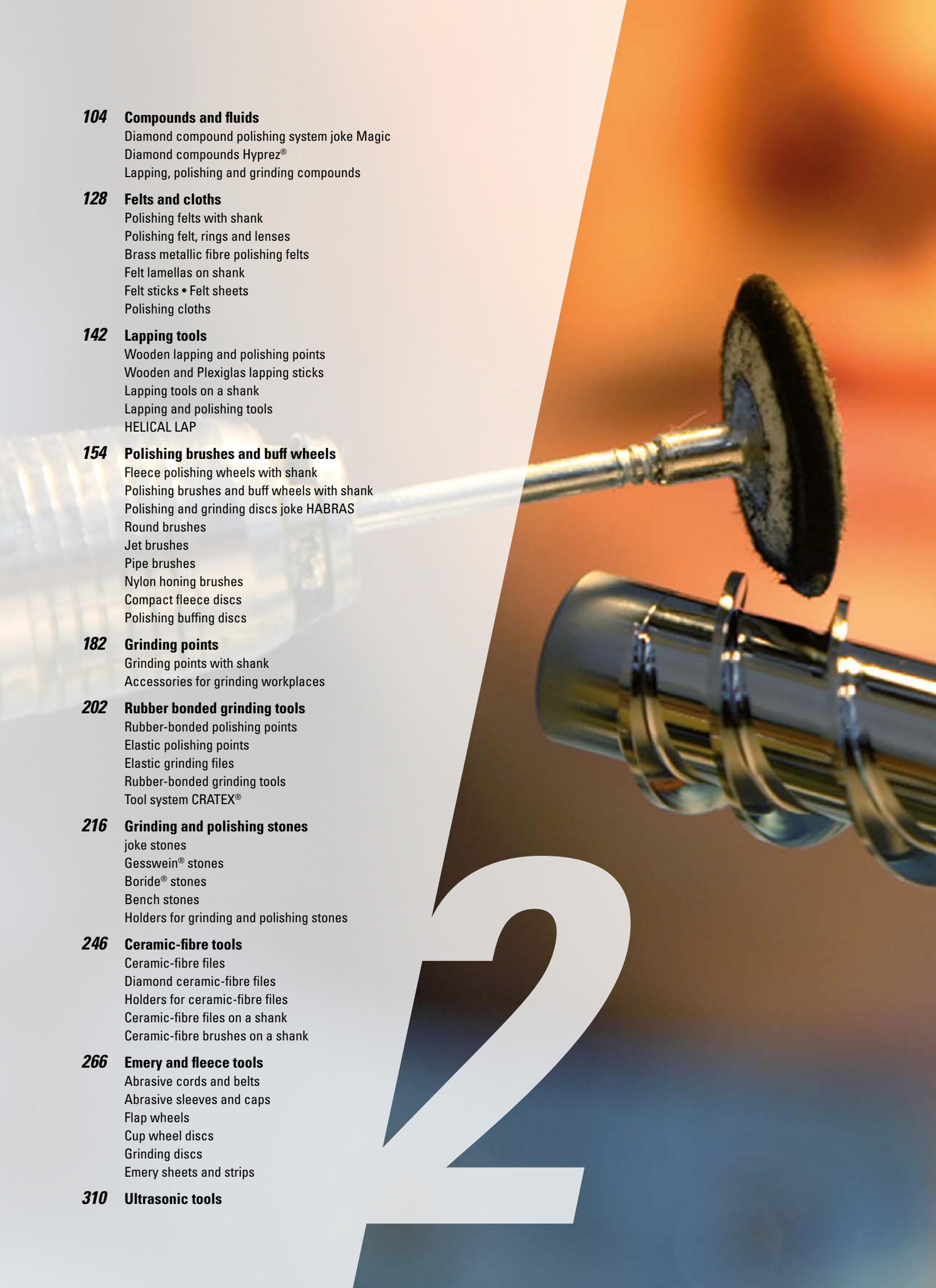
Flap wheels

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Grinding and polishing tools

Basic principles

Finest working processes in tool and mould making

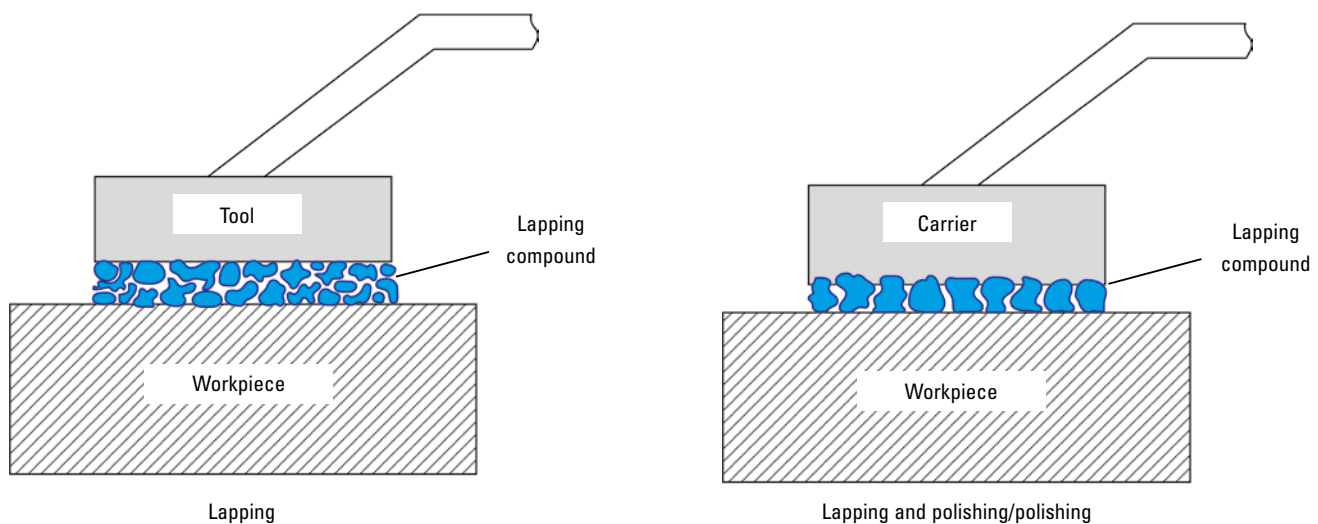
The border between grinding and polishing is not clear-cut and a clear distinction often difficult. Generally, three processes for the fine processing of surfaces can be identified: polishing, lapping and polishing/lapping, all of which are chipping processes with loose grit. These achieve the best roughness values (see page 102).

The surface quality achieved with these processes is mainly dependent on the following factors:

- Grit size of the abrasive
- Working pressure
- Work movement
- Grading of the various abrasives
- Choice of lapping and polishing agent carrier

Grinding

During preliminary processing, these very fine working processes (finishing) are often preceded by (manual) grinding. This involves a chipping process with firmly bound grit. See on the right side for an overview of typical abrasives.



Overview of work processes in tool and mould making

	Definition	Process	Result
Manual grinding	Chipping process with firmly bound grit	Directional movement, material is chipped by bound grit	Directional surface
Polishing	Chipping process with loose grit	Directional or undirectional, grit "embedded" in polishing cloth or felt	High-gloss surface
Lapping		Undirectional crossing movement, rolling grain	Matt surface
Lapping and polishing		Directional or undirectional movement, grit penetrates carrier	Shiny surface

Basic principles that should be adhered to:

- Always from coarse to fine
- Clean workpiece thoroughly after each grit change
- Change lapping or polishing medium carrier when changing grit

Grinding and polishing tools

Basic principles

The theoretical definition of abrasives includes all hard material grits, which are used to achieve stock removal. These are usually applied bound in grinding tools. A distinction is drawn made between natural grits such as quartz, corundum, emery, garnet and natural diamond and synthetic grits such as corundum, silicon carbide, chromium oxide, cubic boron nitride (CBN) and diamonds.

Corundum (aluminium oxide Al_2O_3)

The most widely used abrasive is classed according to its hardness and toughness:

Regular aluminium oxide: consists of approx. 95% Al_2O_3 predominantly from non-alloy and low alloyed steels as well as cast steel and grey cast iron.

Special fused aluminium oxide: owing to a 99.9% Al_2O_3 very hard and heat resistant up to 2,000 °C. Very suitable for tough unhardened steels of more than 60 HRC (tool steel), for working with glass and all steels that require cool grinding.

Semi corundum: mixture of the above. For steels with high hardness and toughness, that are not heat-sensitive.

Silicon carbide

Silicon carbide is mainly characterised by its hard and sharp crystals. It is heat-resistant up to approx. 1,370 °C. An abrasive grit generally only consists of one or a few crystals. This material is harder and more brittle than corundum. Silicon carbide is mainly used on non ferrous metals, rust-free steels, ceramic and mineral materials such as carbonaceous steels. It is also used for dressing grinding tools.

Cubic boron nitride (CBN)

Boron nitride is the second-toughest known material after diamond. It is only suitable as an abrasive in its cubic crystal form (CBN). It is produced synthetically from natural reserves of hexagonal crystalline boron nitride and is usually bound in resin or ceramic. It has a heat resistance of approx. 1,300 °C; from approx. 730 °C, it becomes even harder than diamond! It is used predominantly for grinding tough unhardened steels such as high-speed steel as well as hot- and coldwork steel. Not suitable for soft steels, tungsten carbides, nonferrous metals, chrome and nickel coatings as well as non-metals.

Diamond

The diamonds used today are almost exclusively synthetic. The hardness and geometries for specific applications achieved are superior to those of natural diamonds. Even as the hardest known material, diamonds are only heat-resistant up to 800 °C and their scope of application is therefore somewhat limited. Diamond tools are mainly used for precision grinding on tungsten carbide, grey cast iron, glass, ceramic, porcelain, fire-proof stones, germanium, graphite, cutting ceramics, silicon, rubber, non-ferrous heavy metal, cementite alloys, nickel and chrome alloys, ball bearing steel, tool steels with high carbon and low vanadium content.



manual grinding



Abrasive hardness according to Knoop

Diamond	6000
Cubic boron nitride (CBN)	4700
Boron carbide	2800
Silicon carbide	2480
Corundum	2050
Zirconium corundum	1800

Surface roughness

Overview of the surface roughness of the preliminary processing methods and the different grinding medium grit sizes in linear processing

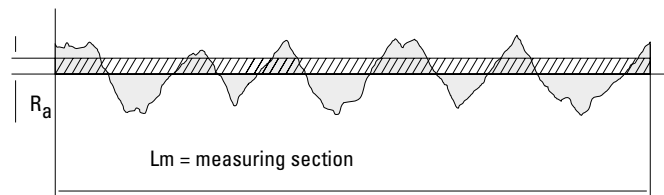
When selecting the correct grit size, a surface improvement by 1.5 roughness classes (coarse surfaces) to 0.5 roughness classes (fine surfaces) should be taken into account.

The tips of the wedges of preliminary processing are max. attainable values under good working conditions. The stock removal dimensions are usually higher than the absolute surface roughness (errors in the macrostructure and removal of the erosion skin). It may therefore be advisable to begin with a coarser grit size.

Surface roughness in mould building

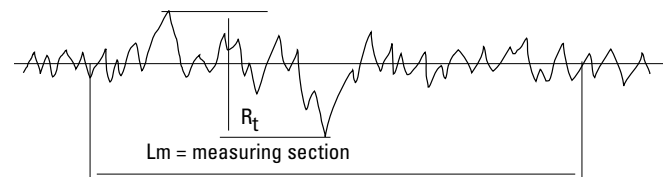
R_a

In by far the most cases, the surface roughness is indicated as an R_a value. The average roughness value finish R_a is the height of the fictitious surface over the midline, the magnitude of which corresponds to the sum of the individual surfaces above and below. The visual appearance may markedly deviate from the indication of the R_a value: e.g. smaller R_a value with visible isolated scratches.



R_t

The R_t value is considerably more meaningful for assessment of very fine surface finishes in mould making: the maximum peak-to-valley height R_t is the vertical distance between the highest and lowest point within the measuring section. For surface roughness indications in this catalogue, the maximum peak-to-valley height R_t is generally used.



Roughness classes

The roughness classes according to DIN/ISO 1302 are indicated as R_a values. The R_t values listed in the table are estimated values that are not contained in the standard. The ratio $R_a:R_t$ corresponds to approx. 1:8 to 1:12 during manual working. As a result of the evenness of manual working and also less pressure and good lubrication, the ratio $R_a:R_t$ can be reduced to 1:6. All the values indicated in this catalogue are empirically determined on steel 1.2767 with 53 HRC and represent non-binding guideline values.

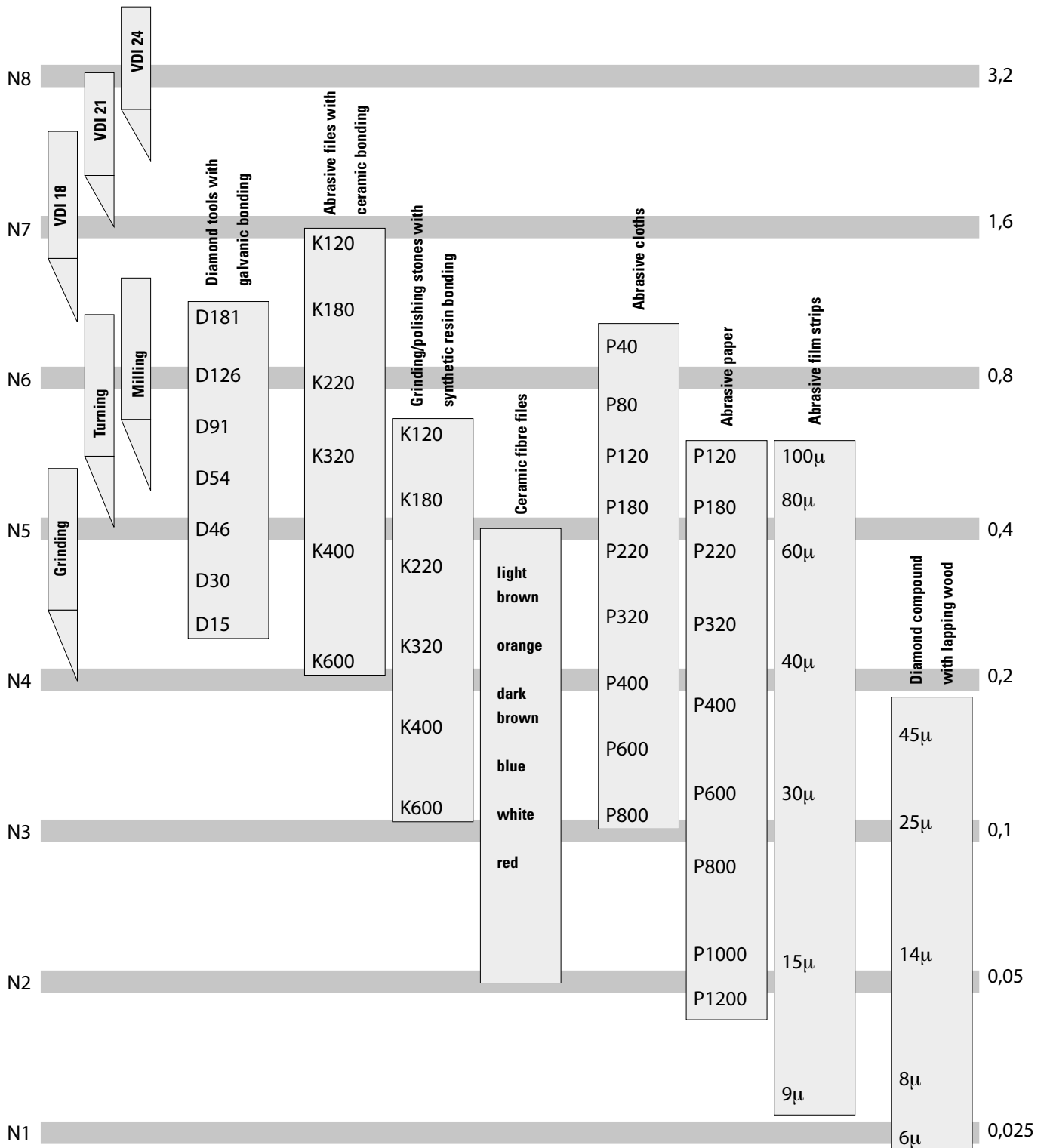


Roughness classes according to DIN/ISO 1302

Degree of roughness No.	Roughness value R_a (μm)	Roughness value R_{max} (μm)
N 12	50	~ 500
N 11	25	~ 250
N 10	12,5	~ 125
N 9	6,3	~ 60
N 8	3,2	20 ... 40
N 7	1,6	10 ... 20
N 6	0,8	6 ... 10
N 5	0,4	2 ... 6
N 4	0,2	1,5 ... 2,5
N 3	0,1	0,75 ... 1,25
N 2	0,05	0,3 ... 0,7
N 1	0,025	0,1 ... 0,3

Surface roughness

Degree of roughness

 Surface roughness R_a


Diamond compound polishing system joke Magic

joke Magic enables you to polish all types of steel, tungsten carbide, ceramics, aluminium and all non-ferrous metals. In no time at all. Reproducible. In material laboratory quality!

Diamond compound polishing system joke Magic

Everyone knows that many roads lead to Rome and there are just as many to the polishing result you want. Wouldn't it be nice to have a system that has been carefully devised to make sure you get the same highgloss finish on the workpiece every time? A system for achieving reproducible results on all types of steel, as well as on tungsten carbides, ceramics, nonferrous metals and aluminium.

Welcome to joke Magic!

joke Magic saves time...

...because its components make sure you attain smoother surfaces quicker without orange peel effect or excavations. With joke Magic you polish in logical steps.

joke Magic saves money...

...because you achieve your goal using less "material". All its components give you the best results with optimised economy and longer life.

joke Magic just does it better...

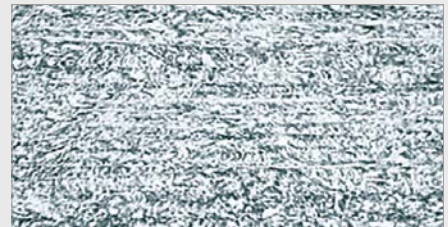
...see for yourself what joke Magic can do. It's time to switch!

joke Magic



Steel
Totally even surface

Standard



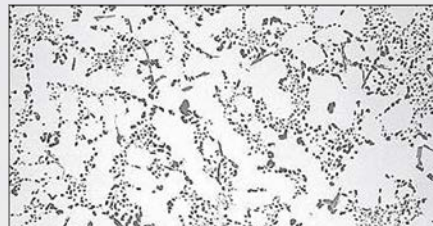
Steel
Uneven surface causes later blotching



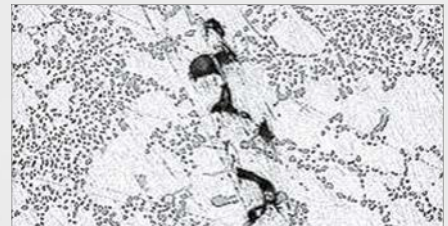
Steel
Polishing without breakouts



Steel
Breakouts in material



Aluminium
All alloy components stay clean



Aluminium
Silicon torn out




Compounds and fluids



Diamond compounds joke Magic oil and alcohol soluble

Our best-selling diamond compound. Specially designed for the new types of steel that tools are manufactured in. To be used neat or with just two drops of diamond fluid. Normally, diamond compounds must be used with a large amount of fluid. Using a large amount of fluid, however, has the effect of making the diamond compound runny, so that a lot of it is simply projected away during polishing. joke Magic diamond compound effectively creates a precisely calibrated, blocky diamond grit, which guarantees top-quality polishing. The result is an incomparably high level of removal on all materials: From soft aluminium to the hardest ceramics as well as for unlimited use on all grades of steel and tungsten carbides.

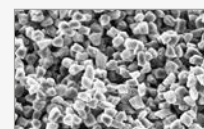
Content	Grit size	Concentration	Colour	Order No.	Price from		
					1 piece	3 pieces	6 pieces
Diamond compounds joke Magic, oil and alcohol soluble							
 10 g	0.25 µm	extra high	grey	0 590 109	50.85 €	47.95 €	44.85 €
	1 µm	extra high	blue	0 590 101	50.85 €	47.95 €	44.85 €
	3 µm	extra high	green	0 590 102	77.15 €	73.20 €	70.40 €
	6 µm	extra high	yellow	0 590 103	95.25 €	90.05 €	86.55 €
	9 µm	extra high	red	0 590 104	92.65 €	87.70 €	84.25 €
	14 µm	extra high	brown	0 590 105	111.10 €	105.40 €	101.65 €
	25 µm	extra high	mahagony	0 590 106	111.10 €	105.40 €	101.65 €
	45 µm	extra high	purple	0 590 107	119.65 €	113.55 €	109.40 €
	70 µm	extra high	burgundy	0 590 108	149.66 €	141.90 €	136.65 €
	20 g	0.25 µm	extra high	grey	0 590 200	86.25 €	81.05 €
0.25 µm		high	grey	0 590 300	59.65 €	56.25 €	52.40 €
1 µm		extra high	blue	0 590 201	86.25 €	81.05 €	75.60 €
1 µm		high	blue	0 590 301	61.20 €	57.55 €	53.75 €
3 µm		extra high	green	0 590 202	94.40 €	88.40 €	83.95 €
3 µm		high	green	0 590 302	61.20 €	57.55 €	53.75 €
6 µm		extra high	yellow	0 590 203	118.35 €	110.15 €	104.15 €
6 µm		high	yellow	0 590 303	89.95 €	85.10 €	81.60 €
9 µm		extra high	red	0 590 204	130.65 €	122.35 €	119.35 €
9 µm		high	red	0 590 304	88.85 €	83.65 €	78.15 €
14 µm		extra high	brown	0 590 205	141.40 €	132.60 €	129.30 €
14 µm		high	brown	0 590 305	119.35 €	113.15 €	108.90 €
25 µm		extra high	mahagony	0 590 206	141.40 €	132.60 €	129.30 €
25 µm		high	mahagony	0 590 306	119.35 €	113.15 €	108.90 €
45 µm		extra high	purple	0 590 207	148.65 €	139.05 €	132.00 €
45 µm		high	purple	0 590 307	124.00 €	117.60 €	113.25 €
70 µm		extra high	burgundy	0 590 208	186.00 €	172.00 €	169.00 €
70 µm		high	burgundy	0 590 308	127.55 €	120.10 €	111.90 €

joke Magic = unparalleled high diamond concentrations

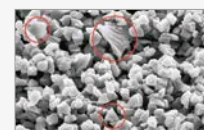
joke Magic extra strong: Our Magic diamond compounds contain twice the quantity of diamonds in comparison to other compounds. Owing to a special manufacturing process, we have managed to rule out contact between the individual diamond grit particles in spite of twice the quantity. Consequently, an inimitable, extremely high stock removal is achieved.

joke Magic strong: the "strong" concentration of our Magic diamond compounds is already comparable to that of other compounds with concentrations indicated as "extra strong", "strong", "very strong", "SS", "K 100", "high", "heavy", etc.

The diamond compounds from the joke Magic series have become the favourite compounds of many polishers, since they always yield a perfect result as innovative all-round diamond compounds. This is something you should not miss either.




joke Magic 6 µm diamond grit – closely calibrated with uniform grit shape –



Standard compound, 6 µm diamond grit – poorly calibrated with uneven grit shape –


Diamond compounds joke Magic ALU water and alcohol soluble

Special compound for aluminium and all non-ferrous metals. Can be used on all host materials, in either a rotating or a linear motion.

	Content	Grit size	Concentration	Colour	Order No.	Price from		
						1 piece	3 pieces	6 pieces
joke Magic ALU diamond compound, water and alcohol soluble								
	10 g	1 µm	extra high	blue	0 591 101	50.75 €	48.05 €	46.20 €
		3 µm	extra high	green	0 591 102	76.20 €	73.00 €	70.50 €
		6 µm	extra high	yellow	0 591 103	93.70 €	89.05 €	85.95 €
		9 µm	extra high	red	0 591 104	91.00 €	86.55 €	83.55 €
		14 µm	extra high	brown	0 591 105	107.75 €	102.60 €	99.05 €


Diamond compounds joke Magic WS water and alcohol soluble

The compound you need to achieve very high gloss effects. Fantastic with high-speed steels!

	Content	Grit size	Concentration	Colour	Order No.	Price from		
						1 piece	3 pieces	6 pieces
joke Magic WS diamond compound, water and alcohol soluble								
	10 g	1 µm	extra high	blue	0 590 701	50.85 €	47.95 €	44.85 €
		3 µm	extra high	green	0 590 702	74.85 €	71.15 €	68.65 €
		6 µm	extra high	yellow	0 590 703	95.25 €	90.05 €	86.55 €
		9 µm	extra high	red	0 590 704	92.65 €	87.70 €	84.25 €
		14 µm	extra high	brown	0 590 705	111.10 €	105.40 €	101.65 €
		25 µm	extra high	mahagony	0 590 706	108.10 €	102.60 €	98.75 €
		45 µm	extra high	purple	0 590 707	119.65 €	113.55 €	109.40 €
		70 µm	extra high	burgundy	0 590 708	124.65 €	117.80 €	113.65 €
		90 µm	extra high	grey	0 590 709	124.65 €	117.80 €	113.65 €


Diamond compounds joke Magic US universally soluble

Very good heat resistance (up to 100° C), therefore best suited to hot tools etc. Very workable.

	Content	Grit size	Concentration	Colour	Order No.	Price from		
						1 piece	3 pieces	6 pieces
joke Magic US diamond compound, universally soluble								
	10 g	1 µm	extra high	blue	0 590 351	47.65 €	45.05 €	43.30 €
		3 µm	extra high	green	0 590 352	58.60 €	55.60 €	53.35 €
		6 µm	extra high	yellow	0 590 353	79.00 €	74.75 €	71.95 €
		9 µm	extra high	red	0 590 354	79.00 €	74.75 €	71.95 €
		14 µm	extra high	brown	0 590 355	85.70 €	81.05 €	77.95 €
		25 µm	extra high	mahagony	0 590 356	85.70 €	81.05 €	77.95 €
		45 µm	extra high	purple	0 590 357	92.35 €	87.50 €	84.15 €
		70 µm	extra high	burgundy	0 590 358	104.85 €	98.75 €	94.00 €
		90 µm	extra high	grey	0 590 359	104.85 €	98.75 €	94.00 €


Diamond compounds joke Magic FAS oil soluble

joke Magic FAS diamond compound consists of a low-viscosity, easily spreadable oil-soluble carrier with hard synthetic diamonds (PKD). The polycrystalline diamond is significantly stronger than the cheaper monocrystalline diamond. Owing to the high stock removal rates, this compound is particularly suitable for hard materials such as ceramic, carbide, cobalt, titanium or nickel.

Content	Grit size	Concentration	Colour	Order No.	Price from		
					1 piece	3 pieces	6 pieces
joke Magic FAS diamond compounds, oil soluble							
 10 g	0.25 µm	extra high	grey	0 590 820	53.45 €	48.55 €	45.05 €
	1 µm	extra high	blue	0 590 821	55.60 €	50.55 €	46.70 €
	3 µm	extra high	green	0 590 822	73.30 €	66.60 €	61.70 €
	6 µm	extra high	yellow	0 590 823	92.35 €	83.85 €	77.75 €
	9 µm	extra high	red	0 590 824	102.10 €	92.75 €	85.95 €
	15 µm	extra high	brown	0 590 825	111.80 €	101.55 €	94.00 €
	25 µm	extra high	mahogany	0 590 826	111.80 €	101.55 €	94.00 €


Diamond sprays joke Magic alcohol soluble

These diamond sprays contain extremely hard, synthetically manufactured diamonds in an alcohol soluble carrier. Also ideal for hard materials such as ceramic and carbide.
CFC-free

Content	Grit size	Order No.	Price from	
			1 piece	1 piece
Diamond spray joke Magic, alcohol soluble				
 200 ml	1 µm	0 590 910	48.05 €	48.05 €
	3 µm	0 590 913	48.05 €	48.05 €
	6 µm	0 590 914	48.05 €	48.05 €
	9 µm	0 590 915	51.15 €	51.15 €
	15 µm	0 590 916	54.45 €	54.45 €

Diamond fluids joke Magic

Thinner for joke Magic diamond compounds joke Magic US and joke Eco-Star

Content	Order No.	Price from	
		1 piece	1 piece
Diamond fluid joke Magic, oil soluble			
 0.5 l	0 590 451	20.50 €	20.50 €
	0 590 451-1	70.60 €	70.60 €
	0 590 452	291.00 €	291.00 €

Diamond fluid joke Magic ALU

Specially for joke Magic ALU diamond compounds, with 100% corrosion protection

Content	Order No.	Price from 1 piece
Diamond fluid joke Magic ALU, water and alcohol soluble		
500 ml	0 591 451	29.20 €



⚙️ Accessories / spare parts

	Order No.	Price from 1 piece
Dosing bottle with pipette, oilproof, 30 ml	0 590 491-1	3.79 €



Super-fine polishing suspensions joke Magic

Magic super-fine polishing suspension

Magic super-fine polishing suspension with combined anti-corrosion power gives workpieces that final, brilliant gloss. This thin suspension and the blocky, agglomerate-free diamonds it contains enables totally scratch-free polishing. If necessary, you can use the super-fine polishing suspension together with the Magic „Clean“ cloth to remove any shadows created during final polishing.

	Content	Grit size	Order No.	Price from 1 piece
Super-fine diamond plastic polishing medium joke Magic				
	50 ml	1 µm	0 590 901	36.55 €
	500 ml	1 µm	0 590 902	314.00 €
	50 ml	3 µm	0 590 903	37.80 €
	50 ml	6 µm	0 590 904	37.80 €

Super-fine diamond polishing suspension joke Magic


	water soluble and alcohol soluble, with anti-corrosion power. For the final, brilliant mirror finish.	500 ml	1 µm	0 591 401	105.30 €
		500 ml	3 µm	0 590 401	102.50 €
		500 ml	6 µm	0 591 402	105.30 €

Diamond compound polishing system joke Magic



Grinding and polishing stones joke Magic STONES

Magic STONES grinding stones

A complete system incorporating grinding stones for pretreatment purposes. The fixed connection to the connecting rod (click system) ensures that no edging takes place whenever the Magic STONES are fitted, which prevents the rat marks usually created otherwise. The spherical pressure load ensures that grinding is vibration-free and leads to a totally even grinding result. The Magic STONES guarantee that the subsequent steps in the process can be carried out error-free.

	Dimensions	Grit size	Packing quantity	Order No.	Price from 1 pack
Grinding and polishing stones joke Magic STONES					
rectangular					
	7 x 9 x 4 mm	220	10 piece	0 590 759	13.00 €
		320	10 piece	0 590 760	14.35 €
		400	10 piece	0 590 761	14.35 €
		600	10 piece	0 590 762	14.35 €

Accessories / spare parts

	Order No.	Price from 1 piece
Ball-ended rod for Magic STONES, 80 mm		
	0 590 753	15.15 €
Ball-ended rod for Magic STONES, 140 mm		
	0 590 752	16.00 €

Polishing cloths Kleenex

High quality 3-ply cloth for wiping after polishing and for applying joke Magic very fine polishing suspension (similar illustration).

	Design	Content	Colour	Dimensions	Order No.	Price from 1 piece
Polishing cloths Kleenex						
	3-ply	72 cloths	white	20 x 20 cm	0 590 602	2.20 €






Polishing cloths self-adhesive




NEW!

Polishing cloths, self-adhesive

Polishing cloths are perfect for final polishing. Thanks to their self-adhesive backing, these cloths can be mounted on a wide variety of holders. Thus, for example, tools used during preparation can be reused simply by sticking the polishing cloth on them. You can choose between standard polishing cloths and Magic JOKER, FINAL and SHINE polishing cloths, which were specially designed for use with joke Magic diamond compound. JOKER and FINAL cloths can be used on 99% of materials. They are ideal for polishing all types of steel and aluminium. SHINE cloths were developed specially for polishing plastics. The cushioning base layer in these cloths means that they are very quiet to use and reduces score marks on the material. Breakouts and dimpling are prevented.

	Shape	Dimensions	Design	Type	Packing quantity	Order No.	Price from 1 pack
Polishing cloths joke Magic, self-adhesive							
	Magic JOKER (synthetic fibre cloth) for diamond compound grit sizes 6 to 3 µm		round	Ø 20 x 1 mm	self-adhesive	Magic JOKER	50 pieces 0 591 501 40.00 €
	round	Ø 32 x 1 mm	self-adhesive	Magic JOKER	50 pieces 0 591 502 64.50 €		
	rectangular	9 x 11.5 x 1 mm	self-adhesive	Magic JOKER	50 pieces 0 591 503 20.10 €		
	square	100 x 100 mm	self-adhesive	Magic JOKER	50 pieces 0 591 505 204.00 €		
	Magic FINAL (short flocked cloth) for diamond compound grit sizes 3 to 1 µm		round	Ø 20 x 2 mm	self-adhesive	Magic FINAL	50 pieces 0 591 601 40.00 €
	round	Ø 32 x 2 mm	self-adhesive	Magic FINAL	50 pieces 0 591 602 64.50 €		
	rectangular	9 x 11.5 x 2 mm	self-adhesive	Magic FINAL	50 pieces 0 591 603 20.10 €		
	square	100 x 100 mm	self-adhesive	Magic FINAL	50 pieces 0 591 605 388.00 €		
	Magic SHINE especially for plastics. Diamond compound grit sizes 6, 3 and 1 µm		round	Ø 12 mm	self-adhesive	Magic SHINE	50 pieces 0 591 707 28.00 €
	round	Ø 18 x 2 mm	self-adhesive	Magic SHINE	50 pieces 0 591 701 40.00 €		
	round	Ø 30 x 2 mm	self-adhesive	Magic SHINE	50 pieces 0 591 702 64.50 €		
	rectangular	9 x 11.5 x 2 mm	self-adhesive	Magic SHINE	50 pieces 0 591 703 20.10 €		
	square	100 x 100 mm	self-adhesive	Magic SHINE	50 pieces 0 591 706 748.00 €		

⚙️ Accessories / spare parts

	Dimensions	Shank dimensions	Type	Suitable abrasive discs	Packing quantity	Order No.	1 piece	1 pack	5 pieces	10 pieces
Toggle rod for tool carrier, length 140 mm										
		Ø 3 mm				0 411 008	27.40 €			
Supports for felts and cloths										
	9 x 11.5				10 pieces	0 411 009-2		17.45 €		
Rubber holder ROTAFLEX										
	Ø 10 mm	Ø 3 x 26 mm	RK 0	R 0		0 544 101	3.61 €		3.37 €	3.12 €
	Ø 18 mm	Ø 3 x 26 mm	RK 1	R 1		0 544 103	3.56 €		3.24 €	3.00 €
	Ø 30 mm	Ø 3 x 26 mm	RK 2	R 2		0 544 104	3.84 €		3.58 €	3.32 €

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Diamond compounds Hyprez®



Diamond compounds Hyprez®

The diamonds

Our Hyprez® diamond compounds contain only special, tested and approved diamonds, ("Advanced Technology Diamonds") from brand manufacturers. They are selected with the greatest care for their size, purity and shape. The diamonds are very pressure-resistant and stay "aggressive" for as long as it is needed. Decades of use of Hyprez® diamond products in industrial mould-making as well as electronics and nanotechnology demonstrate that these products can meet the toughest requirements.

The host material

The host material will not separate from the diamond content and does not dry out. Its compatibility with the various solvents and the solubility of the compounds is also monitored closely.

Continuity thanks to quality



Hyprez® compounds deliver consistent, optimum polishing results. The durability of the diamond compounds is outstanding. The production process, which is continually improved and checked, ensures that their extremely high quality really lasts.

All Hyprez® diamond compounds at a glance

F - Versatile compound	The widest and most varied range of concentrations.
S - Economy compound	Developed for simple, cost-effective jobs.
W - Eco-compound	Water-based W compound developed for environment-friendly and oil-sensitive tasks.
OS - Oil-soluble compound	The ideal compound for high stock removal requirements.
L - for hard cases	Especially for working on tungsten carbide, ceramics and hardened steel.
Super-L - finishing compound	Finest grits for finishing hardened steels and ceramics.
C11 - Stabilised compound	The best compound for direct use on hot moulds or upright walls. Special host material providing optimum tool adhesion.
SC-HT	For high-temperature-areas up to 250°C.

Diamond compounds Hyprez® F oil and water soluble

For maximum flexibility the Hyprez® F series offers both water and oil soluble hosts and a large selection of diamond concentrations.
5 g in Hyplicator® or 10 g syringe.

Content	Grit size	Concentration	Colour	Type	Order No.	Price from		
						1 piece	3 pieces	6 pieces
Diamond compounds Hyprez® F, oil and water soluble								
5 g 	0.10 µm	high	grey	1/10-F 2	0 580 002	32.50 €	29.85 €	27.75 €
	0.25 µm	high	grey	1/4-F 2	0 580 004	32.50 €	29.85 €	27.75 €
	1 µm	low	blue	1-F 1	0 580 005	31.80 €	29.30 €	26.95 €
	1 µm	high	blue	1-F 3	0 580 006	32.50 €	29.85 €	27.75 €
	1 µm	extra high	blue	1-F 4	0 580 007	34.30 €	31.30 €	29.00 €
	3 µm	medium	green	3-F 3	0 580 009	32.50 €	29.85 €	27.75 €
	3 µm	high	green	3-F 4	0 580 010	34.30 €	31.30 €	29.00 €
	3 µm	extra high	green	3-F 6	0 580 011	45.55 €	41.75 €	38.40 €
	6 µm	medium	yellow	6-F 4	0 580 012	41.75 €	38.10 €	35.20 €
	6 µm	high	yellow	6-F 5	0 580 013	43.60 €	40.00 €	36.95 €
	6 µm	extra high	yellow	6-F 7	0 580 014	53.45 €	48.90 €	45.25 €
	8 µm	medium	red	8-F 6	0 580 015	45.55 €	41.75 €	38.40 €
	8 µm	high	red	8-F 8	0 580 016	61.40 €	56.10 €	52.00 €
	14 µm	medium	brown	14-F 6	0 580 018	45.55 €	41.75 €	38.40 €
	14 µm	high	brown	14-F 8	0 580 019	61.40 €	56.10 €	52.00 €
	14 µm	extra high	brown	14-F 9	0 580 020	80.75 €	73.90 €	68.25 €
	25 µm	medium	mahagony	25-F 6	0 580 021	45.55 €	41.75 €	38.40 €
	25 µm	high	mahagony	25-F 8	0 580 022	61.40 €	56.10 €	52.00 €
	45 µm	medium	purple	45-F 6	0 580 024	45.55 €	41.75 €	38.40 €
	45 µm	high	purple	45-F 8	0 580 025	61.40 €	56.10 €	52.00 €
60 µm	extra high	orange	60-F 9	0 580 027	80.75 €	73.90 €	68.25 €	
10 g 	0.10 µm	high	grey	1/10-F 2	0 580 032	42.75 €	39.25 €	36.25 €
	0.25 µm	high	grey	1/4-F 2	0 580 034	42.75 €	39.25 €	36.25 €
	1 µm	low	blue	1-F 1	0 580 035	40.90 €	37.40 €	34.50 €
	1 µm	high	blue	1-F 3	0 580 036	45.45 €	41.40 €	38.30 €
	1 µm	extra high	blue	1-F 4	0 580 037	58.90 €	53.75 €	49.70 €
	3 µm	medium	green	3-F 3	0 580 039	45.45 €	41.40 €	38.30 €
	3 µm	high	green	3-F 4	0 580 040	58.90 €	53.75 €	49.70 €
	3 µm	extra high	green	3-F 6	0 580 041	85.70 €	78.35 €	72.50 €
	6 µm	medium	yellow	6-F 4	0 580 042	58.90 €	53.75 €	49.70 €
	6 µm	high	yellow	6-F 5	0 580 043	81.05 €	74.15 €	68.35 €
	6 µm	extra high	yellow	6-F 7	0 580 044	106.40 €	97.20 €	89.75 €
	8 µm	medium	red	8-F 6	0 580 045	85.70 €	78.35 €	72.50 €
	8 µm	high	red	8-F 8	0 580 046	122.80 €	112.20 €	103.75 €
	14 µm	medium	brown	14-F 6	0 580 048	85.70 €	78.35 €	72.50 €
	14 µm	high	brown	14-F 8	0 580 049	122.80 €	112.20 €	103.75 €
	14 µm	extra high	brown	14-F 9	0 580 050	162.00 €	146.70 €	135.60 €
	25 µm	medium	mahagony	25-F 6	0 580 051	85.70 €	78.35 €	72.50 €
	25 µm	high	mahagony	25-F 8	0 580 052	122.80 €	112.20 €	103.75 €
	45 µm	medium	purple	45-F 6	0 580 054	85.70 €	78.35 €	72.50 €
	45 µm	high	purple	45-F 8	0 580 055	122.80 €	112.20 €	103.75 €
60 µm	extra high	orange	60-F 9	0 580 057	162.00 €	146.70 €	135.60 €	

Diamond compounds Hyprez® OS oil soluble

This oil-based compound is ideal for all uses that require a high level of stock removal.



Content	Grit size	Concentration	Colour	Type	Order No.	Price from		
						1 piece	3 pieces	6 pieces
Diamond compounds Hyprez® OS, oil soluble								
5 g	1 µm	high	blue	1-OS 3	0 580 206	37.10 €	33.85 €	31.30 €
	1 µm	extra high	blue	1-OS 4	0 580 207	38.40 €	35.10 €	32.40 €
	3 µm	medium	green	3-OS 3	0 580 209	37.10 €	33.85 €	31.30 €
	3 µm	high	green	3-OS 4	0 580 210	38.40 €	35.10 €	32.40 €
	3 µm	extra high	green	3-OS 6	0 580 211	45.45 €	41.40 €	38.30 €
	6 µm	medium	yellow	6-OS 4	0 580 212	38.40 €	35.10 €	32.40 €
	6 µm	high	yellow	6-OS 5	0 580 213	41.40 €	38.00 €	35.10 €
	6 µm	extra high	yellow	6-OS 7	0 580 214	56.10 €	51.35 €	47.55 €
	8 µm	medium	red	8-OS 6	0 580 215	45.45 €	41.40 €	38.30 €
	8 µm	high	red	8-OS 8	0 580 216	64.70 €	59.35 €	54.80 €
	8 µm	extra high	red	8-OS 9	0 580 217	84.80 €	77.65 €	71.55 €
	14 µm	medium	brown	14-OS 6	0 580 218	45.45 €	41.40 €	38.30 €
	14 µm	high	brown	14-OS 8	0 580 219	64.70 €	59.35 €	54.80 €
	14 µm	extra high	brown	14-OS 9	0 580 220	84.80 €	77.65 €	71.55 €
	25 µm	medium	mahagony	25-OS 6	0 580 221	45.45 €	41.40 €	38.30 €
	25 µm	high	mahagony	25-OS 8	0 580 222	64.70 €	59.35 €	54.80 €
	25 µm	extra high	mahagony	25-OS 9	0 580 223	84.80 €	77.65 €	71.55 €
	45 µm	medium	purple	45-OS 6	0 580 224	45.45 €	41.40 €	38.30 €
	45 µm	extra high	purple	45-OS 9	0 580 226	84.80 €	77.65 €	71.55 €
	10 g	1 µm	high	blue	1-OS 3	0 580 236	47.20 €	43.20 €
1 µm		extra high	blue	1-OS 4	0 580 237	61.70 €	56.55 €	52.20 €
3 µm		medium	green	3-OS 3	0 580 239	47.20 €	43.20 €	39.85 €
3 µm		high	green	3-OS 4	0 580 240	61.70 €	56.55 €	52.20 €
3 µm		extra high	green	3-OS 6	0 580 241	90.50 €	82.60 €	76.60 €
6 µm		medium	yellow	6-OS 4	0 580 242	61.70 €	56.55 €	52.20 €
6 µm		high	yellow	6-OS 5	0 580 243	82.50 €	75.35 €	69.90 €
6 µm		extra high	yellow	6-OS 7	0 580 244	112.10 €	102.40 €	94.75 €
8 µm		medium	red	8-OS 6	0 580 245	90.50 €	82.60 €	76.60 €
8 µm		high	red	8-OS 8	0 580 246	128.90 €	118.00 €	109.30 €
8 µm		extra high	red	8-OS 9	0 580 247	171.00 €	155.00 €	142.95 €
14 µm		medium	brown	14-OS 6	0 580 248	90.50 €	82.60 €	76.60 €
14 µm		high	brown	14-OS 8	0 580 249	128.90 €	118.00 €	109.30 €
14 µm		extra high	brown	14-OS 9	0 580 250	171.00 €	155.00 €	142.95 €
25 µm		medium	mahagony	25-OS 6	0 580 251	90.50 €	82.60 €	76.60 €
25 µm		high	mahagony	25-OS 8	0 580 252	128.90 €	118.00 €	109.30 €
25 µm		extra high	mahagony	25-OS 9	0 580 253	171.00 €	155.00 €	142.95 €
45 µm		medium	purple	45-OS 6	0 580 254	90.50 €	82.60 €	76.60 €
45 µm		extra high	purple	45-OS 9	0 580 256	171.00 €	155.00 €	142.95 €

Diamond compounds Hyprez® S oil and water soluble

This compound consists of "Advanced Technology" diamonds which are used in more economical doses than F series compounds, for example. They are ideal for simple, economical uses.

Content	Grit size	Concentration	Colour	Order No.	Price from		
					1 piece	3 pieces	6 pieces
Diamond compounds Hyprez® S, oil and water soluble							
10 g	1 µm	medium	blue	0 580 381	40.30 €	36.85 €	34.20 €
	3 µm	medium	green	0 580 382	40.30 €	36.85 €	34.20 €
	6 µm	medium	yellow	0 580 383	70.20 €	64.30 €	59.55 €
	8 µm	medium	red	0 580 384	82.20 €	75.25 €	69.80 €
	14 µm	medium	brown	0 580 385	94.40 €	86.55 €	79.95 €
	25 µm	medium	mahagony	0 580 386	94.40 €	86.55 €	79.95 €
	45 µm	medium	purple	0 580 387	94.40 €	86.55 €	79.95 €
20 g	1 µm	medium	blue	0 580 391	71.85 €	65.85 €	61.00 €
	3 µm	medium	green	0 580 392	71.85 €	65.85 €	61.00 €
	6 µm	medium	yellow	0 580 393	126.20 €	115.55 €	106.95 €
	8 µm	medium	red	0 580 394	147.95 €	135.50 €	125.25 €
	14 µm	medium	brown	0 580 395	171.00 €	157.00 €	143.90 €
	25 µm	medium	mahagony	0 580 396	171.00 €	157.00 €	143.90 €
	45 µm	medium	purple	0 580 397	171.00 €	157.00 €	143.90 €



Diamond compounds Hyprez® W water soluble

The compound for environmentally friendly and oil-sensitive jobs. It is water soluble and contains exclusively natural diamonds.


Content	Grit size	Concentration	Colour	Type	Order No.	Price from		
						1 piece	3 pieces	6 pieces
Diamond compounds Hyprez® W, water soluble								
5 g	1 µm	high	blue	1-W 3	0 580 106	38.20 €	34.90 €	32.30 €
	1 µm	extra high	blue	1-W 4	0 580 107	40.40 €	36.95 €	34.30 €
	3 µm	medium	green	3-W 3	0 580 109	38.20 €	34.90 €	32.30 €
	3 µm	extra high	green	3-W 6	0 580 111	45.45 €	41.40 €	38.30 €
	6 µm	low	yellow	6-W 4	0 580 112	40.40 €	36.95 €	34.30 €
	6 µm	extra high	yellow	6-W 7	0 580 114	56.10 €	51.35 €	47.55 €
	14 µm	medium	brown	14-W 6	0 580 118	45.45 €	41.40 €	38.30 €
10 g	1 µm	high	blue	1-W 3	0 580 136	47.20 €	43.20 €	39.85 €
	1 µm	extra high	blue	1-W 4	0 580 137	61.70 €	56.55 €	52.20 €
	3 µm	medium	green	3-W 3	0 580 139	47.20 €	43.20 €	39.85 €
	3 µm	extra high	green	3-W 6	0 580 141	79.95 €	71.15 €	66.15 €
	6 µm	low	yellow	6-W 4	0 580 142	61.70 €	56.55 €	52.20 €
	6 µm	extra high	yellow	6-W 7	0 580 144	112.10 €	102.40 €	94.75 €
	14 µm	medium	brown	14-W 6	0 580 148	90.50 €	82.60 €	76.60 €



Diamond compounds Hyprez® SC-HT oil soluble



NEW!

Newly developed diamond compound with quick-cutting, sharp-cutting diamond particles for rapid, high stock removal. The diamond particles are embedded in an innovative carrier with excellent sliding characteristics and extremely high temperature resistance. Workpieces with a surface temperature of up to max. 250 °C can easily be processed with this compound without the compound melting.

Content	Grit size	Concentration	Colour	Order No.	Price from		
					1 piece	3 pieces	6 pieces
Diamond compounds Hyprez® SC-HT, oil soluble							
 5 g	1 µm	extra high	white	0 580 270	43.80 €	41.55 €	39.15 €
	3 µm	extra high	yellow	0 580 271	47.55 €	44.95 €	42.35 €
	6 µm	extra high	orange	0 580 272	54.80 €	51.90 €	48.90 €
	9 µm	extra high	green	0 580 273	62.10 €	58.70 €	55.40 €
	20 µm	extra high	blue	0 580 274	69.35 €	65.65 €	61.90 €
	30 µm	extra high	red	0 580 275	69.35 €	65.65 €	61.90 €
	45 µm	extra high	brown	0 580 276	69.35 €	65.65 €	61.90 €
	60 µm	extra high	black	0 580 277	73.10 €	69.35 €	65.65 €


Diamond compounds Hyprez® L oil soluble

Hyprez® L compound was developed for particularly hard materials. It is oil soluble and the best choice for treating tungsten carbide, ceramics, hardened and powder metalurgic steels. 5 g in Hyplicator® or 10 g spray.

Content	Grit size	Concentration	Colour	Type	Order No.	Price from		
						1 piece	3 pieces	6 pieces
Diamond compounds Hyprez® L, oil soluble								
 5 g	1 µm	extra high	blue	1-L 2	0 580 302	40.90 €	37.40 €	34.50 €
	3 µm	high	green	3-L 3	0 580 304	42.55 €	38.95 €	36.15 €
	6 µm	high	yellow	6-L 4	0 580 306	47.20 €	43.20 €	39.85 €
	14 µm	medium	brown	14-L 3	0 580 309	42.55 €	38.95 €	36.15 €
	14 µm	high	brown	14-L 5	0 580 310	52.90 €	48.65 €	45.05 €
	25 µm	medium	mahagony	25-L 4	0 580 311	47.20 €	43.20 €	39.85 €
	25 µm	high	mahagony	25-L 6	0 580 312	62.95 €	57.35 €	52.90 €
	45 µm	medium	purple	45-L 4	0 580 313	47.20 €	43.20 €	39.85 €
	45 µm	high	purple	45-L 5	0 580 314	52.90 €	48.65 €	45.05 €
	60 µm	high	orange	60-L 6	0 580 316	62.95 €	57.35 €	52.90 €
 10 g	1 µm	extra high	blue	1-L 2	0 580 322	62.35 €	56.95 €	52.60 €
	3 µm	high	green	3-L 3	0 580 324	78.15 €	71.35 €	65.95 €
	6 µm	high	yellow	6-L 4	0 580 326	86.85 €	78.90 €	72.60 €
	14 µm	medium	brown	14-L 3	0 580 329	78.15 €	71.35 €	65.95 €
	14 µm	high	brown	14-L 5	0 580 330	101.35 €	92.85 €	85.60 €
	25 µm	medium	mahagony	25-L 4	0 580 331	86.85 €	78.90 €	72.60 €
	25 µm	high	mahagony	25-L 6	0 580 332	111.30 €	102.40 €	95.45 €
	45 µm	medium	purple	45-L 4	0 580 333	86.85 €	78.90 €	72.60 €
	45 µm	high	purple	45-L 5	0 580 334	101.35 €	92.85 €	85.60 €
	60 µm	high	orange	60-L 6	0 580 336	111.30 €	102.40 €	95.45 €


Diamond compounds Hyprez® Super-L oil soluble

Very fine grits and extremely stable diamonds for final finishing of tungsten, ceramics and powder metallurgic steels.

Content	Grit size	Concentration	Order No.	Price from		
				1 piece	3 pieces	6 pieces
Diamond compounds Hyprez® Super L, oil soluble						
 5 g	0.10 µm	high	0 580 260	68.25 €	62.45 €	57.65 €
	0.25 µm	high	0 580 261	68.25 €	62.45 €	57.65 €
	0.75 µm	high	0 580 262	68.25 €	62.45 €	57.65 €
	1 µm	high	0 580 263	90.80 €	83.15 €	76.95 €
	2 µm	high	0 580 264	90.80 €	83.15 €	76.95 €
	3 µm	high	0 580 265	118.10 €	108.00 €	99.80 €


Diamond compounds Hyprez® C11 oil soluble

Especially for difficult applications on hot moulds or standing walls. The uneven surfaces of high-strength diamond grits ensure a high level of material removal, even in difficult situations.

Content	Grit size	Concentration	Colour	Type	Order No.	Price from		
						1 piece	3 pieces	6 pieces
Diamond compounds Hyprez® C11, oil soluble								
 5 g	1 µm	high	light yellow	1-C 11	0 580 701	44.85 €	41.00 €	38.00 €
	3 µm	high	yellow	3-C 11	0 580 702	46.40 €	42.45 €	39.45 €
	6 µm	high	ochre	6-C 11	0 580 703	69.25 €	63.45 €	58.70 €
	14 µm	high	light blue	14-C 11	0 580 704	114.40 €	104.75 €	97.00 €
	25 µm	high	red	25-C 11	0 580 705	114.40 €	104.75 €	97.00 €
	45 µm	high	brown	45-C 11	0 580 706	114.40 €	104.75 €	97.00 €
20 g	1 µm	high	light yellow	1-C 11	0 580 711	157.00 €	142.65 €	132.10 €
	3 µm	high	yellow	3-C 11	0 580 712	163.00 €	148.15 €	137.15 €
	6 µm	high	ochre	6-C 11	0 580 713	248.00 €	225.00 €	210.00 €
	14 µm	high	light blue	14-C 11	0 580 714	406.00 €	370.00 €	344.00 €
	25 µm	high	red	25-C 11	0 580 715	406.00 €	370.00 €	344.00 €


Diamond fluids Hyprez® OS oil soluble

Thinner for all oil soluble diamond compounds Hyprez®

	Content	Type	Order No.	Price from 1 piece
Diamond fluid Hyprez® OS, oil soluble				
	1 litre	OS	0 580 504	28.05 €
	2 litre	OS	0 580 507	45.35 €
	5 litre	OS	0 580 510	70.40 €

Diamond fluids Hyprez® W water soluble

Thinner for all water soluble diamond compounds Hyprez®

	Content	Type	Order No.	Price from 1 piece
Diamond fluid Hyprez® W, water soluble				
	1 litre	W	0 580 505	28.70 €
	2 litre	W	0 580 508	38.75 €

Accessories / spare parts


	Order No.	Price from 1 piece
Pump spray bottle, 250 ml		
for filling with diamond fluid	0 580 455	9.80 €
Spray bottle, 100 ml		
	0 580 515-2	7.65 €



Diamond gels Hyprez®


Hyprez® diamond gels combine the advantages of diamond compounds and diamond emulsions in one efficient product – ideal for polishing large surface areas. They work in the conventional way but need no additional fluid or other substances. The gel retains its viscosity even for longer periods. The diamond grits are always uniformly distributed. The practical dispensing bottle is simple to use and enables economical dosing. Please be careful not to apply too much diamond gel - one drop is generally enough for the entire surface to be polished.

Tip: to thoroughly clean the tool after polishing, we recommend X 73016-A cleaner.

	Content	Grit size	Colour	Type	Order No.	Price from	
						1 piece	5 pieces
Diamond gels Hyprez®							
	20 g	1 µm	red	HYG 450	0 580 371	61.10 €	51.65 €
		3 µm	yellow	HYG 430	0 580 372	71.05 €	60.25 €
		6 µm	yellow	HYG 420	0 580 373	94.40 €	79.70 €
		8 µm	green	HYG 410	0 580 374	115.10 €	97.50 €
		15 µm	blue	HYG 320	0 580 375	112.20 €	94.85 €
		30 µm	blue	HYG 310	0 580 376	112.20 €	94.85 €
		45 µm	blue	HYG 300	0 580 377	112.20 €	94.85 €


Diamond sprays Hyprez®

For efficient, economic polishing and lapping of large surfaces as well as impregnating polishing cloths and plates. The solvent contained in the diamond spray ensures the even distribution of diamond grits. Diamond particles do not clump together, which guarantees the full cutting power of every individual particle.

	Content	Grit size	Order No.	Price from	
				1 piece	5 pieces
Diamond spray Hyprez®					
	75 g	0.10 µm	0 580 361	49.10 €	41.75 €
		0.25 µm	0 580 362	49.10 €	41.75 €
		1 µm	0 580 363	49.10 €	41.75 €
		3 µm	0 580 364	49.10 €	41.75 €
		6 µm	0 580 365	49.10 €	41.75 €
		8 µm	0 580 366	49.10 €	41.75 €
		14 µm	0 580 367	49.10 €	41.75 €
		25 µm	0 580 368	49.10 €	41.75 €
		45 µm	0 580 369	49.10 €	41.75 €


Polishing compounds Dialux

Ranging from "normal" polishing to superfinishing. The right compound for every application. Owing to the very good adhesive properties, the Dialux polishing compounds are perfectly suited to work with polishing felts and brushes.

	Content	Colour	Order No.	Price from			
				1 piece	5 pieces	10 pieces	
Polishing compounds Dialux							
	for polishing metals, chromium etc.	140 g	green	0 580 560	6.80 €	6.10 €	5.10 €
	high-gloss polishing for all metals	125 g	white	0 580 561	4.05 €	3.69 €	3.19 €
	for super-finishing of all metals	120 g	blue	0 580 562	4.28 €	3.86 €	3.33 €
	for eliminating scratches and streaks (high-gloss polish white is additionally required for this purpose)	145 g	orange	0 580 563	3.84 €	3.49 €	3.07 €
	for refreshing stainless steels	125 g	grey	0 580 564	3.99 €	3.55 €	3.14 €
	for polishing or refreshing non-ferrous metals and aluminium	110 g	yellow	0 580 565	3.63 €	3.32 €	2.89 €
	Polishing compound type 462 – without particles of animal origin • Specially designed for use in the food and chemical industry!	700 g		0 580 566	18.35 €	16.30 €	14.35 €

Polishing compounds Dipo


The "classic" product uses corundum as abrasive for polishing unhardened steels and aluminium. Available as a tube (50 ml) or in the large canister (1,000 ml).

	Content	Grit size	Order No.	Price from	
				1 piece	25 pieces
Lapping and polishing compounds Dipo					
	50 ml tube	5 - 8 µm, very fine	0 580 571	4.00 €	3.50 €
		10 - 15 µm, fine	0 580 572	4.00 €	3.50 €
		30 - 50 µm, coarse	0 580 573	4.00 €	3.50 €
		80 - 100 µm, very coarse	0 580 574	4.00 €	3.50 €
	1,000 ml can	5 - 8 µm, very fine	0 580 575	21.85 €	20.00 €
		10 - 15 µm, fine	0 580 576	21.85 €	20.00 €
		30 - 50 µm, coarse	0 580 577	21.85 €	20.00 €
		80 - 100 µm, very coarse	0 580 578	21.85 €	20.00 €

Marking pen easyMark writes on all surfaces


No mould should be without this pen. You can use it to write on or mark practically any surface - whatever its condition may be. The pen even writes on moist, oily surfaces and its markings are resistant to sunlight and smudging. The highly resistant tip can even be used on asphalt. Additionally on all metals, wood, glass, foam materials, rubber, concrete, stone, paper, on fabrics and many more. Stroke width up to 4 mm.




		Order No.	Price from	
			1 piece	10 pieces
easyMark marking pen				
	colour:	white	0 202 250	2.86 €
	stroke width:	up to 4 mm		

Marking compounds


For controlling surfaces. The parts to be controlled are covered in marking compound after processing. The movement of components on a surface plate or against each other results in a colour layer, which provides information regarding the surface quality. Can be easily removed with a cleaning agent.

		Content	Colour	Order No.	Price from 1 piece
Marking compounds					
heat resistant up to 60 °C					
		60 g tube	blue	0 202 252	10.10 €
		225 g can	blue	0 202 251-1	17.10 €

heat resistant up to 200 °C					
		60 g tube	blue	0 202 255	16.90 €
		225 g can	blue	0 202 257-1	30.30 €

Special grinding compounds

For fine grinding, lapping and dressing work. Also suitable for plastics. The paste with SiC abrasive can be diluted and removed with oil, petroleum or petroleum spirit.

		Content	Grit size	Order No.	Price from 1 piece
Special grinding compounds					
		220 ml can	8 - 11 µm, very fine	0 580 581-1	19.50 €
			16 - 20 µm, fine	0 580 582-1	19.50 €
			27 - 31 µm, medium fine	0 580 583-1	15.60 €
			42 - 47 µm, medium	0 580 584-1	15.60 €
			88 - 105 µm, very coarse	0 580 586-1	15.60 €

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Polishing compounds

Elsterglanz polishing compound

Original Elsterglanz safely cleans, polishes and preserves surfaces of different materials. Elsterglanz is non-corrosive, acidfree and completely material-friendly. Special ingredients have a water-repellant and preserving effect, thereby providing long-lasting protection against tarnishing and resoiling.

	Content	Application	Order No.	Price from	
				1 piece	10 pieces
Elsterglanz polishing compound					
	150 ml tube	Universal, particularly for stainless steels	0 580 630	6.70 €	6.60 €



		Copper, brass, bronze	0 580 631	6.70 €	6.40 €
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Polishing compounds

Simichrome polishing compound

Suitable for almost all metals such as stainless steel, chrome, copper, tin, aluminium, brass, magnesium, gold and silver.

- Extremely fine metal polish
- Removes small scratches and aging layers
- Leaves an absolutely tremendous shine
- Additionally forms an ultrafine and lasting protective film

	Content	Order No.	Price from
			1 piece
Simichrome polishing compound			
	50 g tube	0 580 638	11.05 €





	250 g can	0 580 642	45.75 €
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Polishing compounds

Polishing compound Dur-Plastic-Polish


Care from a tube for all ungrained hard plastics. Returns clarity to dull Plexiglas and Macrolon panes and creates a shine on polyester and Plexiglas products. In paste form; use undiluted with a soft cloth.

	Content	Order No.	Price from 1 piece
Dur-Plastic-Polish			
	125 ml tube	0 960 024-1	17.45 €
	1,000 ml can	0 960 014	53.20 €

Polishing compounds


Polishing medium METAREX

A polishing medium consisting of impregnated cotton for use on metals. Very well suited for repolishing PET bottle moulds. Gently eliminates everything that may have accumulated on the material (rust, verdigris, sulphide and oxide blackening) gently without leaving traces (scratches, white residues). Protects against premature oxidation.


	Content	Order No.	Price from 1 piece
METAREX polishing medium			
	100 g can	0 960 028	9.15 €
	200 g can	0 960 029	16.95 €

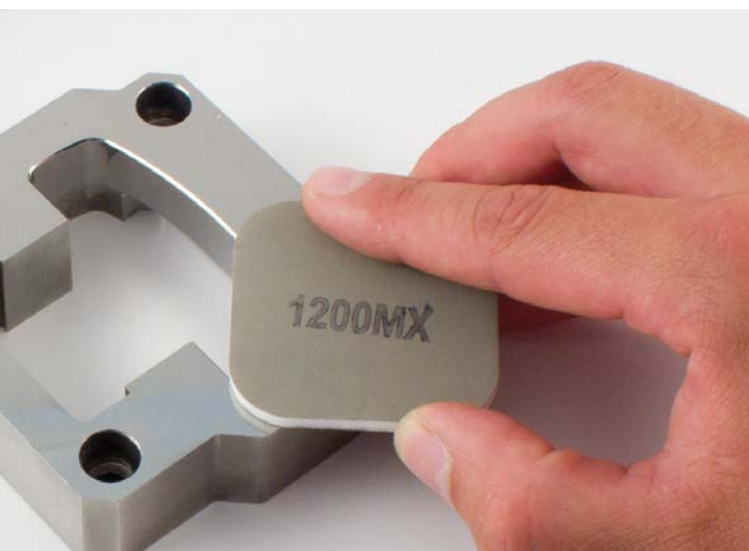
Polishing pad Micro-Mesh[®], Ultra-Flex ideal for small polishing work

The polishing pads are the ideal partner for minor repairs and polishing work on smaller workpieces. The abrasive is applied on both sides and a larger surface area of the grinding points is achieved by the flexible carrier. The pads can be used wet or dry. Also very good for processing aluminium; an appropriate cooling fluid should be used in this case and the processing speed should be reduced.

Dimensions	Grit size	Design	Packing quantity	Order No.	Price from		
					1 piece	30 pieces	50 pieces
Polishing pads Micro-Mesh[®], Ultra-Flex							
 50 x 50 mm	60	Ultra-Flex	10 pieces	0 402 091	1.72 €	1.59 €	1.43 €
	80	Ultra-Flex	10 pieces	0 402 092	1.72 €	1.59 €	1.43 €
	100	Ultra-Flex	10 pieces	0 402 093	1.72 €	1.59 €	1.43 €
	120	Ultra-Flex	10 pieces	0 402 094	1.72 €	1.59 €	1.43 €
	150	Ultra-Flex	10 pieces	0 402 095	1.72 €	1.59 €	1.43 €
	180	Ultra-Flex	10 pieces	0 402 096	1.72 €	1.59 €	1.43 €
	240	Ultra-Flex	10 pieces	0 402 097	1.72 €	1.59 €	1.43 €
	320	Ultra-Flex	10 pieces	0 402 098	1.72 €	1.59 €	1.43 €
	360	Ultra-Flex	10 pieces	0 402 099	1.72 €	1.59 €	1.43 €
	400	Ultra-Flex	10 pieces	0 402 100	1.72 €	1.59 €	1.43 €
	600	Ultra-Flex	10 pieces	0 402 101	1.72 €	1.59 €	1.43 €
	800	Ultra-Flex	10 pieces	0 402 102	1.72 €	1.59 €	1.43 €
	1200	Ultra-Flex	10 pieces	0 402 103	1.72 €	1.59 €	1.43 €

↓ matching set

Dimensions	Content	Order No.	Price from	
			1 set	3 set
Polishing pad set Micro-Mesh[®], Ultra-Flex				
 50 x 50 mm	13 pads	0 402 090	21.15 €	19.05 €



Know-how!

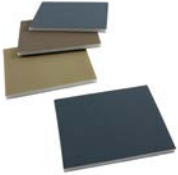
60 MX corresponds to approx. grit size P 240

Material

60 MX – 600 MX = SiC
800 MX – 1200 MX = Korund

Polishing pad Micro-Mesh[®], Ultra-Flex ideal for small polishing work

NEW!

Dimensions	Grit size	Design	Packing quantity	Order No.	Price from		
					1 piece	30 pieces	50 pieces
Polishing pads Micro-Mesh[®], Ultra-Flex							
 76 x 102 mm	60	Ultra-Flex	10 pieces	0 402 065	3.47 €	3.20 €	2.88 €
	80	Ultra-Flex	10 pieces	0 402 066	3.47 €	3.20 €	2.88 €
	100	Ultra-Flex	10 pieces	0 402 067	3.47 €	3.20 €	2.88 €
	120	Ultra-Flex	10 pieces	0 402 068	3.47 €	3.20 €	2.88 €
	150	Ultra-Flex	10 pieces	0 402 069	3.47 €	3.20 €	2.88 €
	180	Ultra-Flex	10 pieces	0 402 070	3.47 €	3.20 €	2.88 €
	240	Ultra-Flex	10 pieces	0 402 071	3.47 €	3.20 €	2.88 €
	320	Ultra-Flex	10 pieces	0 402 072	3.47 €	3.20 €	2.88 €
	360	Ultra-Flex	10 pieces	0 402 073	3.47 €	3.20 €	2.88 €
	400	Ultra-Flex	10 pieces	0 402 075	3.47 €	3.20 €	2.88 €
	600	Ultra-Flex	10 pieces	0 402 076	3.47 €	3.20 €	2.88 €
	800	Ultra-Flex	10 pieces	0 402 077	3.47 €	3.20 €	2.88 €
	1200	Ultra-Flex	10 pieces	0 402 078	3.47 €	3.20 €	2.88 €

Schmitzol's Wiener Kalk


Look it up in a German dictionary and you will find that the German word "Wienern" means polishing, buffing and raising a shine. That is what this original has been producing for more than 125 years: brilliance. Excellent for caring for and cleaning stainless steel, chrome, brass, copper, nickel, gold, silver, aluminium, glass, varnish and plastic. Even tiles, baths, washbasins and hobs are given a shine. Wiener Kalk is very well suited for cleaning moulds polished with up to 6 µm diamond. As a pure natural product, it is completely free of organic substances, phosphates and heavy metals. It does not contain any lime (chalk) either; the name has merely grown up historically over the years.

Schmitzol's Wiener Kalk	Content	Order No.	Price from
			1 piece
	125 g can	0 960 020	4.25 €




2 Polishing medium Ouator

Cotton wool balls for gentle polishing of aluminium, metal and plastic. The cotton wool is impregnated with a polishing medium and can be plucked piecewise from the ball. This allows very economical use, all the more so in that the individual pieces can easily be reused several times (keep in a bag after use!). A deep gloss can be achieved on all materials with this cotton wool - perfect for cleaning and raising a shine. Furthermore, the surface is slightly sealed, which protects against water droplets and corrosion.

Content	Type	Colour	suitable for materials	Order No.	Price from 1 piece
Ouator polishing medium					
	250 g can	A	pink	Aluminium	0 960 025 47.90 €
		M	blue	Metal	0 960 026 47.90 €
		MPT	white	Plastic	0 960 027 47.90 €


Polishing wool

If it is good for human skin, it cannot fail to be right for technical surfaces. Cotton wool is a universal cleaning aid. A choice between cotton and viscose (rayon) in addition to a „50 / 50 blend“ of both is available. Rayon very rapidly absorbs liquid, whereas cotton stores it longer and offers better cohesion of the fibres. Cotton wool pads (100% cotton) are available in addition to the loose cotton wool balls.

Design	Material	Content	Order No.	Price from 1 pack
Polishing wool				
	Cotton wool	50 % viscose / 50 % cotton	100 g in the bag	0 960 010 2.27 €
		100 % cotton	100 g in the bag	0 960 011 2.27 €
		100 % cotton	250 g in the bag	0 960 012 4.80 €
		100 % viscose	180 g in the bag	0 960 013-1 2.24 €
Cotton wool pads	100 % cotton	40 pieces in the bag	0 960 015 1.62 €	



Polishing cloths Kleenex

High quality 3-ply cloth for wiping after polishing and for applying joke Magic very fine polishing suspension (similar illustration).

Design	Content	Colour	Dimensions	Order No.	Price from 1 piece
Polishing cloths Kleenex					
	3-ply	72 cloths	white	20 x 20 cm	0 590 602 2.20 €

Cleaning wires

Flexible and firm at the same time. Particularly suitable for detaching and removing simple soiling in the drilling holes. Trimming made of soft cotton, with and without incorporated bristles (for maximum cleaning power). The wires are resistant against cleaning media and can be used both wet and dry. Available in long (150 mm) and longer (300 mm), conically wound respectively.

	Material	Dimensions	Packing quantity	Order No.	Price from 1 pack
Cleaning wires					
	Cotton wool without bristles	Ø 4/5 x 150 mm	80 piece	0 960 005	2.30 €
	Cotton wool with bristles	Ø 4/5 x 150 mm	80 piece	0 960 006	2.96 €
		Ø 3.5/5.5 x 300 mm	50 piece	0 960 007	4.70 €



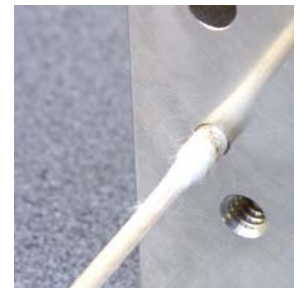
Cotton wool without bristles





Cotton wool with bristles

Cotton buds

Familiar in principle to any child. The joke cotton buds have a very dense and firm cotton wool head trimming (small and large version available). With their long wooden shanks, they are markedly superior to PP sticks, since more rigid and resistant to cleaners. Furthermore, their diameter also fits in the collets of our handpieces. Use wet or dry for cleaning and with compound for polishing.



	Design	Dimensions	Packing quantity	Order No.	Price from 1 pack
Cotton buds on wooden sticks					
	small head (Ø approx. 4 - 5.5 mm)	Ø 2.3 x 150 mm	100 piece	0 960 001	10.75 €
	large head (Ø approx. 10 - 12 mm)	Ø 3 x 200 mm	50 piece	0 960 002	10.95 €



Felts and cloths

Our polishing felt selection is the result of long, practical experience. All common shapes, dimensions and grades of hardness are available. Joke polishing felts are distinguished both by the high stability and outstanding elasticity of their material. In order to no need for new paragraph results at all times, they should always be used in conjunction with Magic and/or Hyprez® diamond compounds available from Joke. Polishing felts from our company enable you to polish safely, cleanly and efficiently even the most complicated moulds, such as die-casting and injection moulds, cutting tools, dies etc.








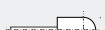







Shank-Ø:

- Ø 2,35 x 40 mm
- Ø 3 x 40 mm
- Ø 6 x 40 mm

Hardness grades:

- Soft: felt on its own without any impregnation (< 0.65 g/cm³ density)
- Standard: light impregnation means greater stability (< 0.65 g/cm³ density)
- Super-hard: total shape stability due to special, additional impregnation (0.65 g/cm³ density)

15 different shapes:

	• Pear		• Lens		• Tree with pointed end		• Drop
	• Halfround		• Wheel		• Pointed cone		• Rounded cylinder
	• Cone		• Rings		• Barrel		• Cylinder
	• Sphere		• Tree		• Trapezium		

129 Polishing felts with shank

136 Brass filament polishing felts

139 Felt sticks • Felt sheets












133 Polishing felt rings and lenses

138 Felt lamellas on shank







140 Polishing cloths



Polishing felts shank Ø 2.35 x 40 mm

	Head dimensions	Hardness	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from	
							1 piece €	50 pieces €
Polishing felts, shank Ø 2.35 x 40 mm								
cylinder								
	Ø 4 x 10 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 107	1.14 €	1.08 €
	Ø 4 x 12 mm	super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 494	1.71 €	1.49 €
	Ø 8 x 12 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 105	0.87 €	0.84 €
sphere								
	Ø 6 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 104	1.03 €	0.95 €
pointed cone								
	Ø 6 x 18 mm	super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 490	2.41 €	2.37 €
	Ø 7 x 15 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 109	0.90 €	0.80 €
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 451	0.94 €	0.89 €
pear								
	Ø 8 x 11 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 114	1.15 €	1.04 €
	Ø 9 x 13 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 110	0.94 €	0.93 €
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 452	0.98 €	0.93 €
cone								
	Ø 7 x 15 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 116	0.87 €	0.84 €
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 454	0.94 €	0.89 €
lens								
	Ø 17 x 5 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 121	1.52 €	1.51 €
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 458	1.60 €	1.53 €
	Ø 22 x 5 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 120	1.64 €	1.57 €
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 457	1.72 €	1.67 €
wheel								
	Ø 17 x 5 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 119	0.94 €	0.89 €
	Ø 22 x 5 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 118	1.03 €	0.95 €
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 456	1.13 €	1.08 €
barrel								
	Ø 8 x 11 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 112	0.87 €	0.84 €
	Ø 9 x 13 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 111	0.94 €	0.93 €
trapeze								
	Ø 12 / 8 x 12 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 117	1.01 €	0.97 €
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 455	1.07 €	1.03 €
drop								
	Ø 8 x 11 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 115	0.87 €	0.84 €
	Ø 9 x 13 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	0 570 113	0.92 €	0.91 €

Polishing felts shank Ø 3 x 40 mm

	Head dimensions	Hardness	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from	
							1 piece	50 pieces
Polishing felts, shank Ø 3 x 40 mm								
cylinder								
	♣ Ø 6 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 301	0.85 €	0.78 €
		super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 461	0.87 €	0.80 €
		soft	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 315	1.01 €	0.90 €
	Ø 6 x 13 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 322	0.80 €	0.76 €
	Ø 8 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 302	0.84 €	0.79 €
		super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 462	0.90 €	0.84 €
	♣ Ø 8 x 12 mm	soft	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 317	1.07 €	0.95 €
	Ø 10 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 303	0.90 €	0.84 €
		super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 463	0.98 €	0.92 €
	♣ Ø 10 x 12 mm	soft	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 319	1.07 €	0.95 €
	Ø 10 x 13 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 323	0.89 €	0.83 €
	Ø 10 x 15 mm	soft	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 320	1.09 €	0.97 €
	Ø 10 x 20 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 354	1.09 €	1.02 €
	Ø 13 x 20 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 324	1.85 €	1.67 €
	Ø 15 x 20 mm	standard	Ø 3 x 30 mm	10 m/s	10 pieces	0 570 355	1.46 €	1.39 €
	Ø 15 x 32 mm	soft	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 347	4.20 €	3.57 €
	Ø 16 x 30 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 325	2.07 €	1.94 €
	Ø 20 x 20 mm	soft	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 498	3.14 €	2.74 €
Ø 20 x 40 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 326	3.17 €	2.93 €	
rounded cylinder								
	♣ Ø 6 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 312	0.84 €	0.78 €
	♣ Ø 8 x 12 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 313	0.90 €	0.87 €
sphere								
	Ø 6 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 356	1.07 €	1.01 €
	Ø 8 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 357	1.09 €	1.02 €
	Ø 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 358	1.21 €	1.09 €
	Ø 12 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 359	1.31 €	1.27 €
pointed cone								
	Ø 6 x 18 mm	super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 328	1.85 €	1.58 €
	Ø 7 x 16 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 327	0.80 €	0.76 €
	♣ Ø 10 x 18 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 304	1.03 €	0.97 €
lens								
	Ø 21 x 4 mm	super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 459	2.41 €	2.27 €
wheel								
	Ø 21 x 4 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 489	2.05 €	1.90 €

Polishing felts

shank Ø 3 x 40 mm

	Head dimensions	Hardness	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
							1 piece	50 pieces	
rounded arch									
	↓ Ø 6 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 308	0.84 €	0.78 €	
		super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 466	0.87 €	0.80 €	
	↓ Ø 8 x 12 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 311	0.90 €	0.84 €	
tree with pointed end									
	↓ Ø 6 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 310	0.84 €	0.78 €	
		standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 314	0.94 €	0.89 €	
		standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 309	0.90 €	0.84 €	
		super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 465	0.94 €	0.89 €	
trapeze									
	↓	Ø 9/6 x 15 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 491	1.44 €	1.31 €
		Ø 10/7 x 15 mm	super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 469	1.07 €	0.99 €
		Ø 15/10 x 15 mm	soft	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 321	1.25 €	1.09 €
			standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 305	1.16 €	1.08 €
		super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 464	1.33 €	1.29 €	
drop									
	↓	Ø 6 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 306	0.84 €	0.78 €
		Ø 8 x 12 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	0 570 307	0.90 €	0.84 €

↓ matching set

Set Polishing felts, shank Ø 3 x 40 mm	Order No.	Price from	
		1 set	
Content: 14 pieces	0 570 300	12.90 €	



Other polishing felts on request!





















We will also be pleased to supply polishing felts in other shapes, hardnesses, head and shank dimensions.

Please consult **Markus Abstoß**:

Tel. +49 (0) 22 04 / 8 39-0


m.abstoss@joke.de

Polishing felts shank Ø 6 x 40 mm



	Head dimensions	Hardness	Shank dimensions	Cutting speed max.	Order No.	Price from	
						1 piece	50 pieces
Polishing felts, shank Ø 6 x 40 mm							
cylinder							
	⌵ Ø 10 x 12 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 331	1.09 €	1.04 €
	⌵ Ø 12 x 12 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 332	1.13 €	1.06 €
	⌵ Ø 15 x 20 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 333	1.43 €	1.36 €
		super-hard	Ø 6 x 40 mm	10 m/s	0 570 471	1.61 €	1.47 €
	⌵ Ø 15 x 30 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 334	1.57 €	1.46 €
	⌵ Ø 20 x 20 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 335	1.70 €	1.57 €
		super-hard	Ø 6 x 40 mm	10 m/s	0 570 472	2.17 €	2.06 €
	⌵ Ø 20 x 30 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 336	2.34 €	2.21 €
	⌵ Ø 25 x 30 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 337	2.49 €	2.34 €
	⌵ Ø 30 x 35 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 338	2.96 €	2.73 €
		super-hard	Ø 6 x 40 mm	10 m/s	0 570 473	4.05 €	3.87 €
sphere							
	Ø 12 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 360	1.38 €	1.32 €
	Ø 20 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 362	2.49 €	2.34 €
cone							
	⌵ Ø 20 x 30 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 339	2.34 €	2.21 €
		super-hard	Ø 6 x 40 mm	10 m/s	0 570 474	2.77 €	2.65 €
rounded arch							
	⌵ Ø 15 x 20 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 340	1.43 €	1.36 €
		super-hard	Ø 6 x 40 mm	10 m/s	0 570 475	1.70 €	1.57 €
tree, XL							
	⌵ Ø 20 x 70 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 342	5.30 €	4.61 €
trapeze							
	Ø 30/22 x 25 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 493	3.75 €	3.45 €
halfround							
	⌵ Ø 30 x 20 mm	standard	Ø 6 x 40 mm	10 m/s	0 570 341	2.37 €	2.21 €

Polishing felts shank Ø 6 x 40 mm

↓ matching set

	Order No.	Price from 1 set
Set of polishing felts, shank Ø 6 x 40 mm		
	Content: 12 pieces	0 570 330 25.25 €



Polishing felts Polishing felt rings

	Exterior Ø	Interior Ø	Height	Hardness	Cutting speed max.	Packing quantity	Order No.	Price from	
								1 pack	10 packs
Polishing felt rings									
non-self-adhesive									
	18 mm	7 mm	4 mm	standard	10 m/s	10 pieces	0 570 412	3.40 €	3.14 €
	30 mm	12 mm	4 mm	standard	10 m/s	10 pieces	0 570 414	6.95 €	6.10 €
	45 mm	18 mm	4 mm	standard	10 m/s	10 pieces	0 570 415	9.40 €	8.55 €
self-adhesive									
	18 mm	7 mm	4 mm	standard	10 m/s	10 pieces	0 570 422	5.60 €	5.30 €
	30 mm	12 mm	4 mm	standard	10 m/s	10 pieces	0 570 424	10.00 €	9.50 €
	45 mm	18 mm	4 mm	standard	10 m/s	10 pieces	0 570 425	13.85 €	12.90 €


2 Polishing felts rings • lenses • holders

Magic polishing felts - with barrier layer


A newly developed special impregnation technique ensures you to get the best polishing results when using Magic polishing felts. It means you get less moisture absorption than with normal felts, which enables the diamonds to provide their best cutting performance. joke Magic polishing felts have a wavy surface and are not impregnated, yet they need up to 40% less diamond compound than normal felts. Their precise, smooth surface creates a rapid, even surface on the material being worked and consistently prevents dimpling. A barrier located on the rear side of the felts prevents the ingress of liquid adhesive whenever the felts are glued to the rubber holders. It also prevents the felts from being affected by the adhesive and the adhesive from softening due to the polish used on the felts.

	Dimensions	Hardness	Packing quantity	Order No.	Price from			
					1 pack	1 piece	5 packs	5 pieces
Polishing felts joke Magic, non-self adhesive								
	Ø 30 / 12 x 4 mm	standard	10 pieces	0 590 501	12.30 €		10.95 €	
	100 x 30 x 2 mm	standard	10 pieces	0 590 502	15.15 €		14.60 €	
	290 x 280 x 2 mm	standard	1 piece	0 411 370		25.20 €		22.60 €

Accessories / spare parts

	Order No.	Price from	
		1 piece	10 pieces
Adhesive Rudolfix 333, 100 g tube			
 for fixing polishing felt rings to rubber supports	0 570 420	7.25 €	6.60 €

Polishing felts Polishing felt holder

	Dimensions	Hardness	Shank dimensions	Cutting speed max.	Order No.	Price from	
						1 piece	10 pieces
Polishing felt holder (rubber holders with attached felt ring)							
	Ø 18 mm	standard	Ø 3 x 26 mm	10 m/s	0 570 403	8.65 €	8.15 €
	Ø 30 mm	standard	Ø 3 x 26 mm	10 m/s	0 570 404	8.85 €	8.25 €
	Ø 45 mm	standard	Ø 6 x 32 mm	10 m/s	0 570 405	9.30 €	8.65 €

Polishing felts

Polishing felt lenses

	Dimensions	Drilling dimension	Hardness	Suitable mounting shank	Cutting speed max.	Packing quantity	Order No.	Price from	
								1 piece	50 pieces
Polishing felt lenses									
without shank									
	Ø 13 x 4 mm	2 mm	standard	Type 21, 22, 23	10 m/s	10 pieces	0 570 431	0.88 €	0.80 €
	Ø 19 x 5 mm	2 mm	standard	Type 26, 27	10 m/s	10 pieces	0 570 433	1.02 €	0.94 €
	Ø 25 x 6 mm	2 mm	standard	Type 26, 27	10 m/s	10 pieces	0 570 434	1.26 €	1.15 €
	Ø 38 x 6 mm	2 mm	standard	Type 26, 27	10 m/s	10 pieces	0 570 435	2.24 €	2.08 €
	Ø 51 x 8 mm	6 mm	standard	Type 41	10 m/s	10 pieces	0 570 436	3.67 €	3.49 €




Accessories / spare parts

	Bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from	
						1 piece	10 pieces
CRATEX® grinding wheel holder							
	Ø 1.5 - 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4,5 mm	0 545 275	1.16 €	0.97 €
		Ø 3 x 40 mm	22	Ø 38 x 4,5 mm	0 545 276	1.16 €	0.97 €
		Ø 6 x 40 mm	23	Ø 38 x 4,5 mm	0 545 277	1.16 €	0.97 €
		Ø 3 x 40 mm	26	Ø 25 x 8,5 mm	0 545 280	1.41 €	1.12 €
		Ø 6 x 40 mm	27	Ø 25 x 8,5 mm	0 545 281	1.41 €	1.12 €
	Ø 6 mm	Ø 6 x 25 mm	41	Ø 75 x 9,5 mm	0 545 282	3.94 €	3.61 €


Brass filament polishing felts shank Ø 3 and 6 mm • Felt rings

Brass filament polishing felts


The felts, which contain brass filaments, are excellent for working with complex geometries, such as with aluminium. In conjunction with compounds, they can be used to remove process residues (e.g. on milling lines) very rapidly. Cloths, felt discs, polishing felts or polishing brushes can be used for final polishing.

	Head dimensions	Shank dimensions	Cutting speed max.	Order No.	Price from	
					1 piece	50 pieces
Brass filament polishing felts with shank						
cylinder						
	Ø 6 x 10 mm	Ø 3 x 40 mm	10 m/s	0 570 291	1.15 €	1.07 €
	Ø 8 x 10 mm	Ø 3 x 40 mm	10 m/s	0 570 292	1.26 €	1.16 €
	Ø 10 x 10 mm	Ø 3 x 40 mm	10 m/s	0 570 293	1.34 €	1.25 €
	Ø 12 x 12 mm	Ø 6 x 40 mm	10 m/s	0 570 296	1.70 €	1.57 €
	Ø 15 x 20 mm	Ø 6 x 40 mm	10 m/s	0 570 297	2.37 €	2.22 €
	Ø 20 x 20 mm	Ø 6 x 40 mm	10 m/s	0 570 298	3.09 €	2.93 €
	Ø 25 x 30 mm	Ø 6 x 40 mm	10 m/s	0 570 299	6.60 €	6.00 €
sphere						
	Ø 12 mm	Ø 6 x 40 mm	10 m/s	0 570 398	2.07 €	1.92 €
pointed cone						
	Ø 10 x 18 mm	Ø 3 x 40 mm	10 m/s	0 570 294	1.73 €	1.57 €
trapeze						
	Ø 15 / 10 x 15 mm	Ø 3 x 40 mm	10 m/s	0 570 295	1.85 €	1.58 €

Brass filament polishing felts Rings

	Exterior Ø	Interior Ø	Height	Packing quantity	Order No.	Price from	
						1 pack	5 packs
Brass polishing felt rings, non-self adhesive							
	18 mm	7 mm	4 mm	10 pieces	0 570 392	4.64 €	4.36 €
	30 mm	12 mm	4 mm	10 pieces	0 570 394	9.50 €	9.00 €
	45 mm	18 mm	4 mm	10 pieces	0 570 395	18.35 €	16.90 €

Accessories / spare parts

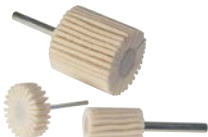
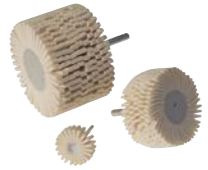
	Order No.	Price from	
		1 piece	10 pieces
Adhesive Rudolfix 333, 100 g tube			
	for fixing polishing felt rings to rubber supports	0 570 420	7.25 € 6.60 €

Felt lamellas shank Ø 3 and 6 mm

Felt lamellas


The main strength of these polishing felts is their elasticity. They fit perfectly onto the contours of the tool being used. In particular, their "slit shape" is a must-have for this type of work. Because these felts fit tool contours, you need less working pressure and that means less "scoring" on the workpiece. Essentially: You just get better results. Ideal for use with jokeFlex Premium Plus or Power Motor Systems.

Recommended speed: 3,000 - 6,000 rpm


	Head dimensions	Hardness	Felt thickness	Shank dimensions	Cutting speed max.	Order No.	Price from	
							1 piece	10 pieces
Felt lamellas on shank								
Standard								
	20 x 10 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	0 411 701	5.70 €	4.97 €
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	0 411 721	5.70 €	4.97 €
	20 x 20 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	0 411 702	6.35 €	5.20 €
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	0 411 722	6.05 €	5.15 €
	25 x 10 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	0 411 703	5.90 €	5.05 €
	25 x 20 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	0 411 704	6.45 €	5.50 €
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	0 411 724	6.45 €	5.50 €
	25 x 30 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	0 411 705	6.95 €	6.05 €
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	0 411 725	6.95 €	6.05 €
	30 x 5 mm	H 40	3 mm	Ø 3 x 40 mm	10 m/s	0 411 710	6.35 €	5.20 €
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	0 411 712	6.35 €	5.20 €
	40 x 5 mm	H 40	3 mm	Ø 3 x 40 mm	10 m/s	0 411 711	6.65 €	5.70 €
		H 40	3 mm	Ø 6 x 40 mm	10 m/s	0 411 713	6.65 €	5.70 €
	50 x 5 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	0 411 714	7.70 €	6.85 €
slit								
	30 x 10 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	0 411 706	7.50 €	6.75 €
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	0 411 726	7.50 €	6.75 €
	30 x 20 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	0 411 707	7.50 €	6.75 €
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	0 411 727	7.50 €	6.75 €
	30 x 30 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	0 411 708	8.10 €	7.25 €
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	0 411 728	8.10 €	7.25 €
	40 x 10 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	0 411 733	8.30 €	7.50 €
	40 x 20 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	0 411 734	8.30 €	7.50 €
	40 x 30 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	0 411 735	8.95 €	8.10 €
	40 x 40 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	0 411 736	10.15 €	9.05 €
	50 x 20 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	0 411 741	8.95 €	8.10 €
	50 x 30 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	0 411 742	10.50 €	9.35 €
	50 x 40 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	0 411 743	12.05 €	10.70 €
	50 x 50 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	0 411 744	12.95 €	11.60 €
	60 x 40 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	0 411 751	14.85 €	12.95 €
	60 x 50 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	0 411 752	16.25 €	14.85 €
	80 x 30 mm	H 40	5 mm	Ø 6 x 40 mm	10 m/s	0 411 765	15.25 €	13.40 €
	80 x 50 mm	H 40	5 mm	Ø 6 x 40 mm	10 m/s	0 411 767	20.70 €	18.45 €

Felt sticks

Felt sticks without shank


	Dimensions	Hardness	Order No.	Price from	
				1 piece	10 pieces
Felt sticks					
square					
	6 x 6 x 150 mm	medium	0 411 301	0.66 €	0.58 €
		standard	0 411 304	0.75 €	0.64 €
	10 x 10 x 150 mm	medium	0 411 302	1.26 €	1.08 €
		standard	0 411 305	1.36 €	1.22 €
	12 x 12 x 150 mm	medium	0 411 303	1.62 €	1.41 €
		standard	0 411 306	1.78 €	1.57 €

 *matching set*

	Order No.	Price from	
		1 set	
Assorted felt sticks			
	Contents: 18 felt sticks, three in each hardness and design	0 411 300	22.60 €

Felt sticks



shank Ø 3.2 mm

	Dimensions	Hardness	Shank dimensions	Order No.	Price from	
					1 piece	10 pieces
Felt sticks with shank, 30° slant						
	6 x 6 x 37 mm	medium	Ø 3.2 x 30 mm	0 411 321	2.28 €	2.09 €
		standard	Ø 3.2 x 30 mm	0 411 324	2.37 €	2.20 €
		super-hard	Ø 3.2 x 30 mm	0 411 327	2.37 €	2.22 €
	10 x 10 x 45 mm	medium	Ø 3.2 x 30 mm	0 411 322	2.56 €	2.48 €
		standard	Ø 3.2 x 30 mm	0 411 325	2.70 €	2.53 €
	12 x 12 x 45 mm	medium	Ø 3.2 x 30 mm	0 411 323	3.09 €	2.93 €
		standard	Ø 3.2 x 30 mm	0 411 326	3.22 €	3.03 €

 *matching set*

	Order No.	Price from	
		1 set	
Assorted felt sticks with shank, contents: 6 pieces			
	Contents: 6 pieces	0 411 320	14.75 €

Felt sheets

	Dimensions	Hardness	Order No.	Price from	
				1 piece	5 pieces
Felt sheets					
	6 x 250 x 250 mm	soft	0 411 341	22.25 €	20.50 €
		medium	0 411 351	25.45 €	23.00 €
		standard	0 411 361	28.55 €	25.90 €
	10 x 250 x 250 mm	soft	0 411 342	34.55 €	31.55 €
		medium	0 411 352	39.60 €	36.20 €
		standard	0 411 362	44.85 €	40.60 €
	12 x 250 x 250 mm	medium	0 411 353	44.85 €	40.60 €
		standard	0 411 363	64.20 €	58.30 €
	25 x 250 x 250 mm	soft	0 411 345	61.95 €	56.25 €
medium		0 411 355	88.50 €	80.45 €	
standard		0 411 365	100.75 €	91.50 €	
Felt sheets, self-adhesive					
	3 x 250 x 250 mm	standard	0 411 368	17.25 €	15.60 €





Hardness grades

Soft	0,48 g/cm ³
Medium	0,56 g/cm ³
Standard	0,64 g/cm ³
Super-hard	0,64 g/cm ³ (with impregnation!)

Polishing cloths self-adhesive

Polishing cloths

Polishing cloths are perfect for final polishing. Thanks to their self-adhesive backing, these cloths can be mounted on a wide variety of holders. Thus, for example, tools used during preparation can be reused simply by sticking the polishing cloth on them. You can choose between standard polishing cloths and Magic JOKER, FINAL and SHINE polishing cloths, which were specially designed for use with joke Magic diamond compound. JOKER and FINAL cloths can be used on 99% of materials. They are ideal for polishing all types of steel and aluminium. SHINE cloths were developed specially for polishing plastics. The cushioning base layer in these cloths means that they are very quiet to use and reduces score marks on the material. Breakouts and dimpling are prevented.

	Shape	Dimensions	Type	Packing quantity	Order No.	Price from		
						1 pack	5 packs	
Standard polishing cloths, self-adhesive								
	Type 450 for diamond compound grit sizes 6 to 3 µm	wheel	Ø 12 x 0.8 mm	450	10 pieces	0 543 311	3.40 €	3.09 €
		wheel	Ø 20 x 0.8 mm	450	10 pieces	0 543 312	8.80 €	7.95 €
		wheel	Ø 33 x 0.8 mm	450	10 pieces	0 543 313	10.10 €	9.10 €
		wheel	Ø 50 x 0.8 mm	450	10 pieces	0 543 314	14.75 €	13.10 €
		wheel	Ø 78 x 0.8 mm	450	10 pieces	0 543 316	22.05 €	20.30 €
	Type 432 for diamond compound grit sizes 3 to 1/4 µm	wheel	Ø 12 x 1.0 mm	432	10 pieces	0 543 301	3.20 €	2.89 €
		wheel	Ø 20 x 1.0 mm	432	10 pieces	0 543 302	5.70 €	4.97 €
		wheel	Ø 33 x 1.0 mm	432	10 pieces	0 543 303	9.20 €	8.45 €
		wheel	Ø 50 x 1.0 mm	432	10 pieces	0 543 304	13.85 €	12.60 €
		wheel	Ø 78 x 1.0 mm	432	10 pieces	0 543 306	20.60 €	18.65 €

3D printing!

*Fine,
what's next...?*

The complete range for 3D postprocessing

- How do I remove the support structures quickly and easily without damaging the mould?
- What is the quickest and most effective way of achieving my desired surface?
- How do I process moulds that are difficult to access?



In our brochure, you will find all the information you need about 3D printing and - as a special feature - how to post-process it correctly.

A short call to **+49 22 04 / 839-0** or an email to **sales@joke.de** suffices.

Order No.: P-ADDITIV-GB

Lapping tools

143 Lapping and polishing points made of wood

146 Lapping and polishing tools

145 Lapping sticks made of wood and Plexiglas

150 HELICAL LAP

Lapping and polishing points made of wood shank Ø 3 mm

Lapping and polishing points made of wood

These points made of hard and soft wood can be used rotating or linear (in hand-filing machines). These points can also be shaped for processing radii and the like. Use mainly with compounds.

Design	Shape	Head dimensions	Shank dimensions	Order No.	Price from		
					1 piece	10 pieces	
Lapping and polishing points made of wood, shank Ø 3 mm							
	hard wood	cylinder	Ø 6 x 15 mm	Ø 3 x 30 mm	0 570 174	1.58 €	1.40 €
		cylinder	Ø 10 x 20 mm	Ø 3 x 30 mm	0 570 173	1.73 €	1.51 €
		cylinder	Ø 15 x 25 mm	Ø 3 x 30 mm	0 570 172	2.35 €	2.12 €
		cylinder	Ø 20 x 30 mm	Ø 3 x 30 mm	0 570 171	2.49 €	2.22 €
		sphere	Ø 10 x 10 mm	Ø 3 x 30 mm	0 570 176	1.66 €	1.43 €
	flame	Ø 10 x 30 mm	Ø 3 x 30 mm	0 570 178	1.73 €	1.51 €	
	soft wood	cylinder	Ø 6 x 15 mm	Ø 3 x 30 mm	0 570 184	1.58 €	1.40 €
		cylinder	Ø 10 x 20 mm	Ø 3 x 30 mm	0 570 183	1.73 €	1.51 €
		cylinder	Ø 15 x 25 mm	Ø 3 x 30 mm	0 570 182	2.59 €	2.33 €
		cylinder	Ø 20 x 30 mm	Ø 3 x 30 mm	0 570 181	2.49 €	2.22 €
		sphere	Ø 10 x 10 mm	Ø 3 x 30 mm	0 570 186	1.80 €	1.63 €
	flame	Ø 10 x 30 mm	Ø 3 x 30 mm	0 570 188	1.73 €	1.51 €	

Lapping and polishing points made of wood shank Ø 6 mm














Lapping and polishing points made of wood

These points made of hard and soft wood can be used rotating or linear (in hand-filing machines). These points can also be shaped for processing radii and the like. Use mainly with compounds.


Design	Shape	Head dimensions	Shank dimensions	Order No.	Price from		
					1 piece	10 pieces	
Lapping and polishing points made of wood, shank Ø 6 mm							
	hard wood	cylinder	Ø 15 x 25 mm	Ø 6 x 30 mm	0 570 272	3.02 €	2.76 €
		cylinder	Ø 20 x 30 mm	Ø 6 x 30 mm	0 570 271	3.15 €	2.96 €
	soft wood	cylinder	Ø 15 x 25 mm	Ø 6 x 30 mm	0 570 282	3.34 €	3.10 €
		cylinder	Ø 20 x 30 mm	Ø 6 x 30 mm	0 570 281	3.53 €	3.29 €

2 Wooden lapping sticks hard

These sticks are made from laminated hard wood. The individual layers are pressed together crossways to their grain under very high pressure. This results in a long service life with very high structural stability. Use with diamond compounds before final polishing and whenever high stock removal is required.

	Dimensions	Hardness	Order No.	Price from	
				1 piece	10 pieces
Wooden lapping sticks, hard (pear)					
square, with chamfer					
	 3 x 3 x 150 mm	hard	0 411 271	1.66 €	1.43 €
	 4.5 x 4.5 x 150 mm	hard	0 411 272	1.81 €	1.63 €
	 6.5 x 6.5 x 150 mm	hard	0 411 273	2.65 €	2.36 €
rectangular, with chamfer					
	 7 x 3 x 150 mm	hard	0 411 274	2.09 €	1.86 €
	 12.5 x 8 x 150 mm	hard	0 411 275	3.71 €	3.34 €
	 19 x 8 x 150 mm	hard	0 411 276	4.67 €	4.16 €
round, pointed					
	 Ø 3 x 150 mm	hard	0 411 277	1.74 €	1.52 €
	 Ø 4.5 x 150 mm	hard	0 411 278	2.65 €	2.36 €
	 Ø 6.5 x 150 mm	hard	0 411 279	3.28 €	2.89 €
round, unpointed					
	Ø 10 x 300 mm	hard	0 411 290	12.70 €	11.45 €

 *matching set*

	Order No.	Price from
		1 set
Wooden lapping stick set, hard (9 pcs)	0 411 270	22.50 €
		

Wooden lapping sticks soft

These soft wooden lapping sticks are used as carriers for fine diamond compounds during polishing. Precision is therefore a must. That is why only carefully selected, clean and absolutely inclusion-free wood is able to complete its career as a soft wood lapping stick at joke.

	Dimensions	Hardness	Order No.	Price from	
				1 piece	10 pieces
Wooden lapping sticks, soft (lime)					
square, with chamfer					
	☞ 3 x 3 x 150 mm	soft	0 411 281	0.64 €	0.59 €
	☞ 4.5 x 4.5 x 150 mm	soft	0 411 282	0.77 €	0.63 €
	☞ 6.5 x 6.5 x 150 mm	soft	0 411 283	0.77 €	0.63 €
rectangular, with chamfer					
	☞ 7 x 3 x 150 mm	soft	0 411 284	0.77 €	0.63 €
	☞ 12.5 x 8 x 150 mm	soft	0 411 285	1.25 €	1.08 €
	☞ 19 x 8 x 150 mm	soft	0 411 286	1.66 €	1.43 €
round, pointed					
	☞ Ø 3 x 150 mm	soft	0 411 287	1.00 €	0.90 €
	☞ Ø 4.5 x 150 mm	soft	0 411 288	1.00 €	0.90 €
	☞ Ø 6.5 x 150 mm	soft	0 411 289	1.06 €	0.96 €

☿ *matching set*

	Order No.	Price from
		1 set
Wooden lapping stick set, soft (9 pcs)	0 411 280	8.90 €



Plexiglas lapping sticks

We offer these Plexiglas lapping sticks for all those unable to choose between hard and soft wood for their lapping sticks. Their hardness falls right between both wood versions. Likewise used with diamond compounds.

	Dimensions	Hardness	Order No.	Price from	
				1 piece	10 pieces
Plexiglas lapping sticks					
square, with chamfer					
	3 x 3 x 15 mm	medium	0 411 251	1.70 €	1.51 €
	4.5 x 4.5 x 15 mm	medium	0 411 252	1.70 €	1.51 €
	6.5 x 6.5 x 15 mm	medium	0 411 253	2.72 €	2.46 €
rectangular, with chamfer					
	7 x 3 x 15 mm	medium	0 411 254	2.12 €	1.90 €
	12.5 x 8 x 15 mm	medium	0 411 255	3.90 €	3.46 €
	19 x 8 x 15 mm	medium	0 411 256	4.73 €	4.27 €

Lapping and polishing tool system flex-poli-snap

These lapping and polishing tools are linked to the ball-ended rod via a clever snap-mechanism. This prevents the ball-ended rod from slipping during processing and damaging the material. Simply "snap in" and get down to work.


Design	Dimensions	Suitable ball-ended rod	Packing quantity	Order No.	Price from	
					1 pack	3 packs
Lapping and polishing tools flex-poli-snap						
ring						
	plastic	Ø 4 mm	0 411 174 / 170	50 pieces	0 411 600-50	35.45 € 33.20 €
		Ø 5 mm	0 411 175 / 171	50 pieces	0 411 601-50	35.45 € 33.20 €
		Ø 6 mm	0 411 176 / 172	50 pieces	0 411 602-50	35.45 € 33.20 €
		Ø 8 mm	0 411 177 / 173	50 pieces	0 411 603-50	35.45 € 33.20 €
	brass	Ø 4 mm	0 411 174 / 170	50 pieces	0 411 620-50	67.60 € 63.25 €
		Ø 5 mm	0 411 175 / 171	50 pieces	0 411 621-50	67.60 € 63.25 €
		Ø 6 mm	0 411 176 / 172	50 pieces	0 411 622-50	67.60 € 63.25 €
		Ø 8 mm	0 411 177 / 173	50 pieces	0 411 623-50	67.60 € 63.25 €
square						
	plastic	4 x 4 mm	0 411 174 / 170	50 pieces	0 411 610-50	35.45 € 33.20 €
		5 x 5 mm	0 411 175 / 171	50 pieces	0 411 611-50	35.45 € 33.20 €
		6 x 6 mm	0 411 176 / 172	50 pieces	0 411 612-50	35.45 € 33.20 €
		8 x 8 mm	0 411 177 / 173	50 pieces	0 411 613-50	35.45 € 33.20 €
	brass	4 x 4 mm	0 411 174 / 170	50 pieces	0 411 630-50	67.60 € 63.25 €
		5 x 5 mm	0 411 175 / 171	50 pieces	0 411 631-50	67.60 € 63.25 €
		6 x 6 mm	0 411 176 / 172	50 pieces	0 411 632-50	67.60 € 63.25 €
		8 x 8 mm	0 411 177 / 173	50 pieces	0 411 633-50	67.60 € 63.25 €

↓ matching set



Set flex-poli-snap lapping and polishing tool set	Order No.	Price from	
		1 set	3 set
10 tools each in brass and plastic, Ø or edge length: 4, 5, 6 and 8 mm	0 411 189	140.00 €	131.55 €

The flex-poli-snap ball-ended rods are available with angular and straight heads (only in the set!). Both versions offer the "click" for a secure snap-on connection between tool and rod.

Head dimensions	For lapping tool size	Design	Shank dimensions	Order No.	Price from
					1 piece
Ball-ended rods flex-poli-snap					
	Ø 1.9 mm	Ø 4 / 4 x 4 mm	angular	Ø 3.5 mm	0 411 174 16.10 €
	Ø 2.4 mm	Ø 5 / 5 x 5 mm	angular	Ø 3.5 mm	0 411 175 19.00 €
	Ø 2.9 mm	Ø 6 / 6 x 6 mm	angular	Ø 3.5 mm	0 411 176 16.10 €
	Ø 3.9 mm	Ø 8 / 8 x 8 mm	angular	Ø 3.5 mm	0 411 177 16.10 €

↓ matching set







flex-poli-snap ball-ended rod set	Order No.	Price from
		1 set
The set contains 4 straight and 4 angular flex-poli-snap ball-ended rods, rod holder, allen key and a hand rest including suitable stopper.	0 411 169	155.00 €

Lapping and polishing rings for rotating processing


Lapping and polishing rings for driving by the corresponding articulated handle and an angle handpiece.

Tip: the Ø 12 mm can also be used for linear movement with a ball-ended rod, for example in hand-filing machines.



	Design	Dimensions	Packing quantity	Order No.	Price from 1 pack
Lapping and polishing rings					
	plastic	Ø 8 mm	10 pieces	0 570 045	10.85 €
		Ø 12 mm	10 pieces	0 570 055-10	16.20 €
		Ø 20 mm	10 pieces	0 570 075	26.50 €
	plastic collar ring	Ø 12 mm	5 pieces	0 570 063	11.85 €
	brass	Ø 8 mm	10 pieces	0 570 044	21.85 €
		Ø 12 mm	10 pieces	0 570 054-10	34.00 €
		Ø 20 mm	10 pieces	0 570 074	67.90 €
	brass collar ring	Ø 12 mm	5 pieces	0 570 062	20.30 €

Lapping and polishing rings for rotating processing

Diamond lapping and polishing rings with metalbound diamonds for lapping of copied, milled, turned and eroded surfaces with peak-to-valley heights greater than 5 µm. Ring and workpiece must be free of oil. Build-up edges must be removed with the ring on abrasive paper of grit size 80-120.



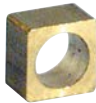



	Dimensions	Grit size	Order No.	Price from 1 piece
Diamond lapping and polishing rings				
	Ø 8 mm	D 151	0 570 041	114.40 €
	Ø 12 mm	D 151	0 570 051	190.00 €
	Ø 20 mm	D 151	0 570 071	224.00 €

Accessories / spare parts

	Dimensions	Shank dimensions	Order No.	Price from 1 piece
suitable articulated handles for lapping and polishing rings				
	Ø 8 mm	Ø 3 mm	0 570 050	16.50 €
	Ø 12 mm	Ø 3 mm	0 570 060	15.25 €
	Ø 20 mm	Ø 3 mm	0 570 080	14.15 €
		Ø 6 mm	0 570 081	17.55 €

Lapping and polishing tools for linear processing

Rings, squares and triangles made of brass and plastic for lapping and polishing of small faces, corners and edges (particularly triangles). Linear movement through ball-ended rods, which are clamped into hand-filing machines.

Design	Dimensions	Suitable ball-ended rod	Packing quantity	Order No.	Price from		
					1 pack	3 packs	
Lapping and polishing tools							
ring							
	brass	Ø 2 x 1.5 mm	0 411 141	50 pieces	0 411 101-50	16.80 €	15.80 €
		Ø 2.5 x 1.5 mm	0 411 142	50 pieces	0 411 102-50	16.00 €	15.15 €
		Ø 3 x 2 mm	0 411 143	50 pieces	0 411 103-50	15.70 €	14.75 €
		Ø 4 x 3 mm	0 411 144	50 pieces	0 411 104-50	15.50 €	14.45 €
		Ø 5 x 3 mm	0 411 145	50 pieces	0 411 105-50	14.95 €	13.95 €
		Ø 6 x 4 mm	0 411 146	50 pieces	0 411 106-50	14.35 €	13.60 €
	plastic	Ø 2 x 1.5 mm	0 411 141	100 pieces	0 411 121	24.45 €	22.80 €
		Ø 2.5 x 1.5 mm	0 411 142	100 pieces	0 411 122	21.65 €	19.50 €
		Ø 3 x 2 mm	0 411 143	100 pieces	0 411 123	22.70 €	21.25 €
		Ø 4 x 3 mm	0 411 144	100 pieces	0 411 124	22.25 €	20.85 €
		Ø 5 x 3 mm	0 411 145	100 pieces	0 411 125	21.35 €	20.10 €
		Ø 6 x 4 mm	0 411 146	100 pieces	0 411 126	20.75 €	19.40 €
square							
	brass	2 x 2 x 1.5 mm	0 411 141	50 pieces	0 411 111-50	26.60 €	25.05 €
		2.5 x 2.5 x 1.5 mm	0 411 142	50 pieces	0 411 112-50	25.90 €	24.45 €
		3 x 3 x 2 mm	0 411 143	50 pieces	0 411 113-50	25.90 €	24.45 €
		4 x 4 x 3 mm	0 411 144	50 pieces	0 411 114-50	24.85 €	23.60 €
		5 x 5 x 3 mm	0 411 145	50 pieces	0 411 115-50	24.25 €	22.70 €
		6 x 6 x 4 mm	0 411 146	50 pieces	0 411 116-50	23.40 €	21.75 €
	plastic	2 x 2 x 1.5 mm	0 411 141	100 pieces	0 411 131	38.65 €	36.20 €
		3 x 3 x 2 mm	0 411 143	100 pieces	0 411 133	37.40 €	35.15 €
		4 x 4 x 3 mm	0 411 144	100 pieces	0 411 134	35.75 €	33.70 €
		5 x 5 x 3 mm	0 411 145	100 pieces	0 411 135	34.85 €	32.70 €
		6 x 6 x 4 mm	0 411 146	100 pieces	0 411 136	33.60 €	31.65 €
		triangle					
	brass	3.5 x 3.5 x 3.5 mm	0 411 141	50 pieces	0 411 117-50	42.65 €	40.10 €
		6 x 6 x 6 mm	0 411 142	50 pieces	0 411 118-50	48.65 €	45.65 €
		8 x 8 x 8 mm	0 411 144	50 pieces	0 411 119-50	57.30 €	53.90 €
	plastic	3.5 x 3.5 x 3.5 mm	0 411 141	100 pieces	0 411 137	32.15 €	30.40 €
		6 x 6 x 6 mm	0 411 142	100 pieces	0 411 138	34.65 €	32.35 €
		8 x 8 x 8 mm	0 411 144	100 pieces	0 411 139	36.40 €	34.30 €

Lapping and polishing tools for linear processing

Accessories / spare parts

	Dimensions	Shank dimensions	Order No.	Price from 1 piece
Ball-ended rods, straight				
	Ø 1.8 x 140 mm	Ø 3.5 mm	0 411 141	15.50 €
	Ø 2.2 x 140 mm	Ø 3.5 mm	0 411 142	15.05 €
	Ø 2.7 x 140 mm	Ø 3.5 mm	0 411 143	14.85 €
	Ø 3.5 x 140 mm	Ø 3.5 mm	0 411 144	13.95 €
	Ø 4.5 x 140 mm	Ø 3.5 mm	0 411 145	15.25 €
	Ø 5.5 x 140 mm	Ø 3.5 mm	0 411 146	12.90 €

matching set

		Order No.	Price from	
			1 set	5 set
Lapping and polishing tool set, triangles				
	50 pcs of each dimension in brass and plastic	0 411 120	198.00 €	
Lapping and polishing tool set, rings and squares				
	Approx. 25 pcs per dimension and shape in brass and plastic	0 411 100	240.00 €	234.00 €

2 Internal lapping tools HELICAL LAP

The ideal solution for perfect bores

HELICAL LAP internal and external lapping tools

are made of close-grained grey cast iron. A homogenous smooth structure is achieved by a special annealing process making HELICAL LAP the ideal carrier for any lapping media, especially for joke Magic and/or Hyprez® diamond compounds.

HELICAL LAP internal lapping tools

have a spiral cut and taper bore, which fits precisely to the corresponding shaft. These two features guarantee a uniform and cylindrical expansion of the lapping tools. Roundness and parallelism of bores can be achieved quickly and economically within extremely fine limits. All internal lapping tools are ground. The retraction tool is used for the expanded lapping tool. It is available with several inserts; for applications refer to the table.

HELICAL LAP outside lapping tools

also have a spiral cut and must be used with the corresponding holder. First, the lapping tool is fixed in the holder to prevent the tool from rotating simultaneously. The inside diameter of the lapping tool can be adjusted to a precisely round shape by contracting the holder. – All external lapping tools are ground and supplied at least 0.02 mm bigger than the indicated nominal diameter.

Basic principles

- Internal lapping tools should be longer than the bore to be lapped
- External lapping tools should be shorter than the shaft to be lapped
- Lapping tools should be stored separately according to the grit size.



Looking for the right compound?

Flip through to page 104. A large selection of the widest variety of compounds is to be found on 24 pages. **Markus Abstoß** will be pleased to help you with any enquiries:
Tel. +49 (0) 22 04 / 8 39-0
m.abstoss@joke.de



The HELICAL LAP system works

Work instructions

Drilling and reaming, then finishing with HELICAL LAP, Tolerance $\begin{matrix} +0,002 \\ -0 \end{matrix}$

All finished bores must be cylindrical and round, max. deviation 0.2 μm .
The R_a value must not exceed 0.05 μm .

Measuring results

1. INITIAL SITUATION

Steel bush, hardened $\varnothing 16 \times 35$ mm
Measuring instrument: Taylor Hobson
Talyrond Roundness error: 0.04 mm
Measured R_a value: 0.6 μm

2. ROUGH LAPPING

Time: 5 min
Tool: HELICAL LAP
Lapping compound: joke HYPREZ®
diamond compound 14 μm
Correction of roundness to 0.0004 mm



3. FINISHING

Time: 5 min
Tool: HELICAL LAP
Lapping compound: joke HYPREZ®
diamond compound 3 μm
Correction of roundness to 0.0002 mm
Measured R_a value: 0.04 μm



Internal lapping tools HELICAL LAP

Standard dimensions

Design	End Ø E	Total length D	Suitable push-fit shaft	Suitable driver	Suitable retraction tool	Order No.	Price from 1 piece
Internal lapping tool HELICAL LAP							
 without radial groove	1.674 - 1.930 mm	16 mm	0 586 102	0 586 152	0 586 201	0 586 302	34.75 €
	1.956 - 2.311 mm	16 mm	0 586 102	0 586 152	0 586 201	0 586 303	34.75 €
	2.362 - 2.743 mm	19 mm	0 586 103	0 586 153	0 586 201	0 586 304	31.95 €
	2.743 - 3.099 mm	19 mm	0 586 103	0 586 154	0 586 201	0 586 305	31.95 €
	3.149 - 3.479 mm	22 mm	0 586 104	0 586 154	0 586 201	0 586 306	28.60 €
	3.530 - 3.886 mm	22 mm	0 586 104	0 586 154	0 586 201	0 586 307	28.60 €
	3.937 - 4.318 mm	22 mm	0 586 104	0 586 154	0 586 201	0 586 308	28.60 €
	4.318 - 4.673 mm	22 mm	0 586 104	0 586 154	0 586 201	0 586 309	28.60 €
 with radial groove	4.724 - 5.105 mm	35 mm	0 586 105	0 586 155	0 586 211	0 586 310	27.40 €
	5.130 - 5.461 mm	35 mm	0 586 105	0 586 155	0 586 211	0 586 311	27.40 €
	5.537 - 5.918 mm	45 mm	0 586 106	0 586 156	0 586 211	0 586 312	29.75 €
	5.918 - 6.248 mm	45 mm	0 586 106	0 586 156	0 586 211	0 586 313	29.75 €
	6.324 - 6.705 mm	50 mm	0 586 107	0 586 157	0 586 211	0 586 314	31.10 €
	6.731 - 7.010 mm	50 mm	0 586 107	0 586 157	0 586 211	0 586 315	31.10 €
	7.112 - 7.340 mm	50 mm	0 586 107	0 586 157	0 586 211	0 586 316	31.10 €
	7.518 - 7.670 mm	50 mm	0 586 107	0 586 157	0 586 211	0 586 317	31.10 €
	7.924 - 8.305 mm	50 mm	0 586 108	0 586 158	0 586 211	0 586 318	31.95 €
	8.305 - 8.610 mm	50 mm	0 586 108	0 586 158	0 586 211	0 586 319	31.95 €
	8.712 - 8.915 mm	50 mm	0 586 108	0 586 158	0 586 211	0 586 320	31.95 €
	9.093 - 9.245 mm	50 mm	0 586 108	0 586 158	0 586 211	0 586 321	31.95 €
	9.499 - 9.855 mm	63 mm	0 586 109	0 586 159	0 586 211	0 586 322	34.75 €
	9.906 - 10.185 mm	63 mm	0 586 109	0 586 159	0 586 211	0 586 323	34.75 €
	10.287 - 10.515 mm	63 mm	0 586 109	0 586 159	0 586 211	0 586 324	34.75 €
	10.693 - 10.845 mm	63 mm	0 586 109	0 586 159	0 586 211	0 586 325	34.75 €
	11.074 - 11.430 mm	63 mm	0 586 110	0 586 160	0 586 211	0 586 326	38.00 €
	11.480 - 11.785 mm	63 mm	0 586 110	0 586 160	0 586 211	0 586 327	38.00 €
	11.861 - 12.090 mm	63 mm	0 586 110	0 586 160	0 586 211	0 586 328	38.00 €
	12.268 - 12.420 mm	63 mm	0 586 110	0 586 160	0 586 211	0 586 329	38.00 €
12.674 - 13.081 mm	83 mm	0 586 111	0 586 161	0 586 211	0 586 330	45.80 €	
13.081 - 13.487 mm	83 mm	0 586 111	0 586 161	0 586 211	0 586 331	95.90 €	
13.462 - 13.868 mm	83 mm	0 586 111	0 586 161	0 586 211	0 586 332	45.80 €	

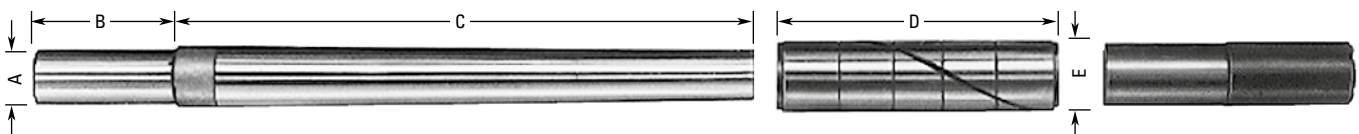


Practical tips

If the desired diameter cannot be found in the table, rework the next largest lapping tool to the suitable diameter, e.g. on a lathe. The recesses must be retained, since they serve as a compound reservoir. The diameter to be adjusted is always the actual bore diameter minus 2 x stated grit size of the compound used. Process, clean and measure the bore and subsequently fit the tool to the mandrel accordingly by expansion.

Special sizes available on request! Please enquire about our special sizes, indicating the actual diameter of the workpiece to be processed.




Speed: 100 – 200 1/min



Internal lapping tools HELICAL LAP

Standard dimensions

Accessories / spare parts

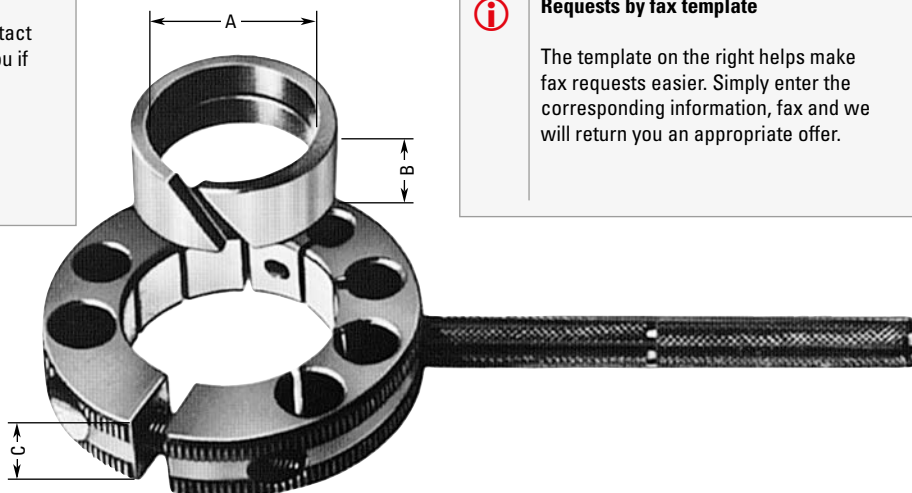
Type	Shank dimensions A x B	Taper length length C	Order No.	Price from 1 piece
Push-fit shafts HELICAL LAP				
	3/0	Ø 3.2 x 19 mm	38 mm	0 586 102 98.60 €
	2/0	Ø 3.2 x 19 mm	41 mm	0 586 103 92.25 €
	0	Ø 3.2 x 19 mm	44 mm	0 586 104 85.30 €
	1	Ø 4.8 x 25 mm	70 mm	0 586 105 69.30 €
	2	Ø 4.8 x 25 mm	76 mm	0 586 106 72.95 €
	3	Ø 4.8 x 25 mm	102 mm	0 586 107 76.55 €
	4	Ø 5.6 x 25 mm	102 mm	0 586 108 81.65 €
	5	Ø 7.2 x 38 mm	127 mm	0 586 109 86.85 €
	6	Ø 8.0 x 38 mm	127 mm	0 586 110 91.00 €
	7	Ø 9.5 x 38 mm	152 mm	0 586 111 95.30 €
Driver HELICAL LAP				
	3/0			0 586 152 22.05 €
	2/0			0 586 153 22.05 €
	0			0 586 154 22.05 €
	1			0 586 155 24.90 €
	2			0 586 156 24.90 €
	3			0 586 157 24.90 €
	4			0 586 158 25.80 €
	5			0 586 159 25.80 €
	6			0 586 160 28.30 €
	7			0 586 161 33.00 €
Retraction tool HELICAL LAP				
	Size 0			0 586 201 238.00 €
	Size 1			0 586 211 326.00 €



Your choice made easy

Refer to the relevant column in the "internal lapping tools" table to find the matching accessories. Enquiries pleased, your contact **Markus Abstoß** will be pleased to help you if you still have any further questions:

Tel. +49 (0) 22 04 / 8 39-0
m.abstoss@joke.de



Requests by fax template

The template on the right helps make fax requests easier. Simply enter the corresponding information, fax and we will return you an appropriate offer.

Technical support HELICAL LAP

Request HELICAL LAP

Fax No. +49 (0) 22 04 / 8 39-540

Mail sales@joke.de

Internal lapping tool

Actual Ø of bore

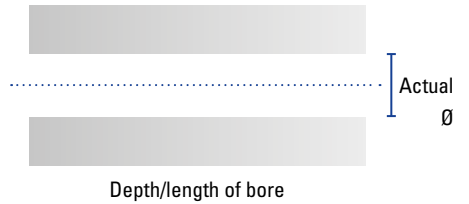
Depth/length of bore

Blind hole bore

yes no

number of internal lapping tools required

.....



External lapping tool

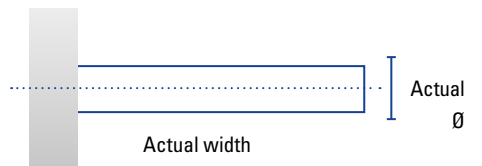
Actual Ø of shaft

Required width of lapping tool

Actual shaft width

number of external lapping tools required

.....



Sender

Company

.....

Name

.....

First name

.....

Department

.....

Street

.....

Postcode / town / city

.....

Phone no.

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Fax no.

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Mail

.....

Date, signature

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Polishing brushes and buff wheels

- 157** Fleece polishing wheels with shank
- 159** Polishing brushes and buff wheels with shaft
- 166** Polishing grinding discs joke HABRAS
- 172** Convolute compact grinding discs
- 173** Round brushes
- 174** Polishing buffing discs
- 176** Jet brushes
- 178** Pipe brushes
- 180** Nylon honing brushes



Characteristics and fields of application of the brush trimmings

Trimming material	Characteristics	Field of application
Fine cotton	<ul style="list-style-type: none"> • Natural product, soft • Picked • Highly adaptable 	<ul style="list-style-type: none"> • Shining, polishing, dust removal • Use with compounds
Felt buff	<ul style="list-style-type: none"> • Natural product • Highly adaptable 	<ul style="list-style-type: none"> • Shining, polishing, dust removal • Use with compounds
Muslin/fleece	<ul style="list-style-type: none"> • Highly adaptable • High strength • High stock removal until completely worn 	<ul style="list-style-type: none"> • Shining, polishing, dust removal • Use with compounds • Deburring
Goat hair	<ul style="list-style-type: none"> • Very flexible, very soft • Absorbent • Natural product 	<ul style="list-style-type: none"> • Shining, polishing, dust removal • Use with compounds (< 6 µm)
Horsehair	<ul style="list-style-type: none"> • Flexible yet hard • Absorbent • Natural product 	<ul style="list-style-type: none"> • Shining, polishing, dust removal • Use with compounds (< 6 µm)
Bristles (black or white)	<ul style="list-style-type: none"> • Flexible, yet hard • Elastic • Strongest of all natural products • Good compound absorbance in the individual bristles (hollow!) 	<ul style="list-style-type: none"> • Shining, polishing, dust removal • Use with compounds (< 6 µm)

Polishing wheels, brushes, buff wheels

Overview

1
2
3
4
5
6
7




Characteristics and fields of application of the brush trimmings

Trimming material	Characteristics	Field of application
Nylon/synthetic	<ul style="list-style-type: none"> Better than chemical fibres with regard to friction resistance, elasticity, flexibility and durability Resistant to solvents, but readily soluble in acids Preferably used in the food and chemical industry (in contrast to natural products --> bristles) 	<ul style="list-style-type: none"> Shining, polishing, dust removal Use with compounds (< 6 µm)
Deerskin	<ul style="list-style-type: none"> Highly adaptable Natural product Resistant High stock removal 	<ul style="list-style-type: none"> Shining, polishing, dust removal Use with compounds
Brass wire	<ul style="list-style-type: none"> More supple and softer in the polished section than steel wires Discoloration on the workpiece possible 	<ul style="list-style-type: none"> Polishing, descaling, deburring Use with and without compounds
BAE steel, Bessemer wire, steel wire	<ul style="list-style-type: none"> Flexible and elastic Leave a distinctly visible polished section 	<ul style="list-style-type: none"> Preliminary polishing, descaling, deburring Use with and without compounds
V2A wire	<ul style="list-style-type: none"> Comparable to steel wire Resistant to acids and alkalis More unbreakable than steel Does not leave any rust residues and may also be used with water 	<ul style="list-style-type: none"> Preliminary polishing, polishing, deburring of stainless steel and aluminium Polishing with water and at high temperatures Use with and without compounds
HABRAS discs	<ul style="list-style-type: none"> Work without additional abrasive Very flexible, soft plastic Excellent service life High, uniform stock removal until completely worn 	<ul style="list-style-type: none"> Soft metals, aluminium, non-ferrous metals to a shine Deburring of hard plastic Deburring, matting and working to a finish
HABRAS brushes	<ul style="list-style-type: none"> High elasticity and resistance to buckling High, uniform stock removal until completely worn Long service life Low dust generation Work without additional abrasive 	<ul style="list-style-type: none"> General deburring Preparation for polishing
Nylon bristles	<ul style="list-style-type: none"> Work without additional abrasive High elasticity and resistance to buckling High, uniform stock removal until completely worn Little contact pressure required 	<ul style="list-style-type: none"> Deburring Matting Surface smoothing
Grinding fleece	<ul style="list-style-type: none"> Work without additional abrasive High, uniform stock removal until completely worn Cool, soft cut Usable on all materials Adapts to contours 	<ul style="list-style-type: none"> Deburring Matting Surface smoothing







Polishing wheels, foamed shank Ø 2.35 x 40 mm

Polishing wheels and abrasive fleece



Foamed polishing wheels are highly dimensionally stable and are used in grooves and for edge processing. Abrasive fleece may be used wet and dry for deburring, matting and improving surfaces. They are characterised by a cool, soft cut. Owing to their elasticity, they adapt well to the surface contours. Use on all steels, non-ferrous metals, aluminium and plastics.

	Head dimensions	Hardness	Grit size	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
								1 piece	50 pieces
Polishing wheel, foamed, shank Ø 2.35 mm									
	Ø 25 x 6 mm	medium	coarse	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 950	2.26 €	1.84 €

Polishing wheels, foamed shank Ø 3 x 40 mm

	Head dimensions	Hardness	Grit size	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
								1 piece	50 pieces
Polishing wheel, foamed, shank Ø 3 mm									
	Ø 25 x 6 mm	soft	fine	Ø 3 x 40 mm	15,000 1/min	10 pieces	0 570 926	3.24 €	2.93 €
		hard	medium	Ø 3 x 40 mm	15,000 1/min	10 pieces	0 570 923	3.24 €	2.93 €
		hard	coarse	Ø 3 x 40 mm	15,000 1/min	10 pieces	0 570 922	3.24 €	2.93 €
	Ø 25 x 12 mm	hard	medium	Ø 3 x 40 mm	15,000 1/min	10 pieces	0 570 924	4.45 €	4.17 €
		hard	coarse	Ø 3 x 40 mm	15,000 1/min	10 pieces	0 570 925	4.45 €	4.17 €
	Ø 30 x 3 mm	medium	medium	Ø 3 x 40 mm	15,000 1/min	10 pieces	0 570 933	3.70 €	3.25 €
	Ø 30 x 6 mm	soft	fine	Ø 3 x 40 mm	15,000 1/min	10 pieces	0 570 932	4.45 €	3.78 €
		medium	medium	Ø 3 x 40 mm	15,000 1/min	10 pieces	0 570 931	4.45 €	3.78 €
		hard	coarse	Ø 3 x 40 mm	15,000 1/min	10 pieces	0 570 930	4.45 €	3.78 €
	Ø 40 x 3 mm	medium	medium	Ø 3 x 40 mm	12,000 1/min	10 pieces	0 570 937	4.45 €	3.90 €
	Ø 40 x 6 mm	soft	fine	Ø 3 x 40 mm	12,000 1/min	10 pieces	0 570 936	5.69 €	4.78 €
		medium	medium	Ø 3 x 40 mm	12,000 1/min	10 pieces	0 570 935	5.69 €	4.78 €
		hard	coarse	Ø 3 x 40 mm	12,000 1/min	10 pieces	0 570 934	5.69 €	4.78 €

Fleece polishing wheels shank Ø 2.35 x 40 mm

	Head dimensions	Hardness	Grit size	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
								1 piece	50 pieces
Abrasive fleece, shank Ø 2.35 mm, dual-layer									
	Ø 25 x 6 mm	medium	medium	Ø 2.35 x 40 mm	5,000 1/min	10 pieces	0 570 951	1.53 €	1.26 €
		medium	fine	Ø 2.35 x 40 mm	5,000 1/min	10 pieces	0 570 952	1.74 €	1.26 €
		medium	very fine	Ø 2.35 x 40 mm	5,000 1/min	10 pieces	0 570 956	2.02 €	1.33 €
Abrasive fleece, shank Ø 2.35 mm, triple-layer									
	Ø 25 x 8 mm	medium	medium	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 953	1.74 €	1.30 €



Fleece polishing wheels

shank Ø 3 x 40 mm

	Grit fleece
	very coarse = K 60
	coarse = K 80
	medium = K 180
	fine = K 240
	very fine = K 400
	ultra fine = K 1000



	Head dimensions	Hardness	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
							1 piece	50 pieces
Abrasive fleece, shank Ø 3 mm, triple-layer								
extra coarse								
For deburring, derusting, etc. • firm grade	Ø 22 x 13 mm	hard	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 572 309	2.79 €	2.43 €
	Ø 25 x 17 mm	hard	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 572 310	2.83 €	2.46 €
	Ø 30 x 17 mm	hard	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 572 311	2.94 €	2.56 €
very coarse								
Ideally suited for all metals. High stock removal on aluminium, gold and silver. • very coarse grade	Ø 22 x 13 mm	medium	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 570 966	2.92 €	2.61 €
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 570 940	2.92 €	2.61 €
	Ø 40 x 22 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 570 945	3.24 €	2.89 €
coarse								
For processing all materials, ideal for removing small scratches, for deburring on hard metals.	Ø 22 x 13 mm	medium	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 570 967	2.74 €	2.38 €
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 570 941	2.79 €	2.46 €
	Ø 40 x 22 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 570 946	3.14 €	2.75 €
medium								
Very well suited for processing aluminium and stainless steel. • very firm grade	Ø 22 x 13 mm	very hard	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 572 315	2.86 €	2.48 €
	Ø 25 x 17 mm	very hard	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 572 316	2.94 €	2.56 €
	Ø 30 x 17 mm	very hard	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 572 317	3.02 €	2.65 €
For processing all materials, ideal for removing small scratches, for deburring on hard metals	Ø 22 x 13 mm	medium	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 570 968	2.74 €	2.38 €
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 570 942	3.15 €	2.38 €
	Ø 40 x 22 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 570 947	3.14 €	2.75 €
fine								
For processing all metals, highly versatile.	Ø 22 x 13 mm	medium	Ø 3 x 40 mm	10,000 1/min	10 piece	0 570 969	2.74 €	2.38 €
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 piece	0 570 943	2.79 €	2.46 €
	Ø 40 x 22 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 570 948	3.14 €	2.75 €
very fine (SIC)								
Using this grinding fleece results in a slight shine. Ideal for aluminium, stainless steels, etc..	Ø 22 x 13 mm	medium	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 572 301	2.60 €	2.24 €
	Ø 25 x 17 mm	medium	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 572 302	2.66 €	2.29 €
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 572 303	2.69 €	2.38 €
ultrafine								
Very fine grinding nylon and grit. Ideal for processing gold, silver, brass, copper and aluminium.	Ø 22 x 13 mm	soft	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 572 305	2.86 €	2.48 €
	Ø 25 x 17 mm	soft	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 572 304	2.94 €	2.56 €
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 570 958	3.08 €	2.73 €
without grit								
Abrasive nylon without grain, ideal in combination with diamond compounds or other polishing pastes.	Ø 22 x 13 mm	medium	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 570 970	2.67 €	2.37 €
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 570 944	2.62 €	2.33 €
	Ø 30 x 17 mm	hard	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 572 306	2.79 €	2.43 €
	Ø 40 x 22 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	0 570 949	2.92 €	2.61 €




Polishing brushes

shank Ø 2.35 mm

	Material	Head dimensions	Trimming Ø	Trimming	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
									1 piece	50 pieces
Polishing brushes, shank Ø 2.35 mm										
cup										
	BAE steel, corrugated	Ø 12 x 6 mm	0.08 mm	straight	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 570	3.57 €	3.13 €
		Ø 12 x 8 mm	0.08 mm	cylindrical	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 160	2.19 €	1.88 €
		Ø 12 x 6 mm	0.10 mm	bevelled	Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 571	2.52 €	2.25 €
	V2A wire, corrugated	Ø 12 x 6 mm	0.08 mm	straight	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 520	3.37 €	2.91 €
		Ø 12 x 6 mm	0.10 mm	bevelled	Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 503	2.28 €	1.96 €
	brass, corrugated	Ø 12 x 6 mm	0.08 mm	straight	Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 610	2.35 €	2.04 €
		Ø 12 x 6 mm	0.10 mm	bevelled	Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 501	1.83 €	1.58 €
		Ø 12 x 8 mm	0.08 mm	cylindrical	Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 133	2.21 €	1.98 €
	bristles, white	Ø 8 x 4 mm	-	bevelled	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 663	2.21 €	1.91 €
		Ø 12 x 8 mm	-	straight	Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 660	1.83 €	1.58 €
		Ø 12 x 8 mm	-	cylindrical	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 130	1.51 €	1.34 €
		Ø 12 x 8 mm	-	bevelled	Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 661	1.86 €	1.62 €
	bristles, black	Ø 8 x 4 mm	-	bevelled	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 714	2.35 €	2.04 €
		Ø 12 x 8 mm	-	straight	Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 710	1.83 €	1.58 €
		Ø 12 x 8 mm	-	cylindrical	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 128	1.31 €	1.12 €
	nylon	Ø 12 x 8 mm	-	bevelled	Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 711	1.69 €	1.43 €
		Ø 8 x 4 mm	-	bevelled	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 754	2.21 €	1.91 €
		Ø 12 x 6 mm	0.30 mm	cylindrical	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 751-0	1.86 €	1.64 €
	goat hair, white	Ø 8 x 4 mm	-	bevelled	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 872	2.53 €	2.25 €
		Ø 12 x 6 mm	-	cylindrical	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 871-0	1.69 €	1.45 €
		Ø 12 x 8 mm	-	bevelled	Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 870	2.11 €	1.82 €
small brushes										
	V2A wire, corrugated	Ø 3 x 8 mm	0.10 mm		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 513	1.75 €	1.50 €
		Ø 4 x 8 mm	0.10 mm		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 510	1.86 €	1.61 €
		Ø 5.5 x 11 mm	0.10 mm		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 511	2.91 €	2.49 €
		Ø 6 x 13 mm	0.10 mm		Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 502	3.37 €	2.99 €
	BAE steel, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 560	1.58 €	1.38 €
		Ø 5.5 x 11 mm	0.10 mm		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 561	3.30 €	2.91 €
	brass, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 620	1.33 €	1.12 €
		Ø 5.5 x 11 mm	0.10 mm		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 621	1.96 €	1.72 €
	bristles, white	Ø 3 x 8 mm	-		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 669	1.37 €	1.14 €
		Ø 4 x 8 mm	-		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 670	1.37 €	1.14 €
		Ø 5.5 x 11 mm	-		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 671	1.74 €	1.47 €
	bristles, black	Ø 4 x 8 mm	-		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 720	1.37 €	1.14 €
		Ø 5.5 x 11 mm	-		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 721	1.74 €	1.47 €
		Ø 7 x 13 mm	-		Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 723	1.61 €	1.42 €
	goat hair	Ø 4 x 8 mm	-		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 673	1.74 €	1.51 €
		Ø 5.5 x 11 mm	-		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 674	1.93 €	1.70 €

Polishing brushes

shank Ø 2.35 mm

	Material	Head dimensions	Trimming Ø	Trimming	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
									1 piece	50 pieces
small brushes with elastic protection										
	V2A wire, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 512	2.85 €	2.41 €
	BAE steel, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 2.35 x 35 mm	10,000 1/min	10 pieces	0 570 562	2.63 €	2.27 €
	brass, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 622	2.07 €	1.80 €
	bristles, white	Ø 4 x 8 mm	-		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 672	2.26 €	1.93 €
	bristles, black	Ø 4 x 8 mm	-		Ø 2.35 x 25 mm	10,000 1/min	10 pieces	0 570 722	1.83 €	1.58 €
wheel										
	VA wire, corrugated	Ø 12 mm	0.06 mm		Ø 2.35 x 30 mm	10,000 1/min	10 pieces	0 570 583	3.27 €	2.81 €
		Ø 14 mm	0.06 mm		Ø 2.35 x 30 mm	10,000 1/min	10 pieces	0 570 585	3.28 €	2.81 €
	V2A wire, corrugated	Ø 16 x 2 mm	0.08 mm		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 505	4.01 €	3.49 €
		Ø 19 x 2 mm	0.08 mm		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 500	3.49 €	3.13 €
		Ø 22 x 2 mm	0.08 mm		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 504	3.43 €	3.05 €
	BAE steel, corrugated	Ø 16 x 2 mm	0.08 mm		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 553	3.49 €	3.13 €
		Ø 19 x 2 mm	0.08 mm		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 551	2.95 €	2.66 €
		Ø 22 x 2 mm	0.10 mm		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 550	2.01 €	1.80 €
	brass, corrugated	Ø 16 x 2 mm	0.10 mm		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 605	2.34 €	2.07 €
		Ø 19 x 2 mm	0.10 mm		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 600	1.90 €	1.72 €
		Ø 22 x 2 mm	0.08 mm		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 601	2.27 €	2.01 €
	goat hair, grey	Ø 10 mm	-		Ø 2.35 x 30 mm	10,000 1/min	10 pieces	0 570 575	2.16 €	1.86 €
	horsehair, grey	Ø 10 mm	-		Ø 2.35 x 30 mm	10,000 1/min	10 pieces	0 570 576	2.16 €	1.86 €
	horsehair, silver-grey	Ø 10 mm	-		Ø 2.35 x 30 mm	10,000 1/min	10 pieces	0 570 577	2.16 €	1.86 €
	Chungking bristles, white	Ø 10 mm	-		Ø 2.35 x 30 mm	10,000 1/min	10 pieces	0 570 578	2.20 €	1.90 €
	cotton	Ø 10 mm	-		Ø 2.35 x 30 mm	10,000 1/min	10 pieces	0 570 579	2.09 €	1.80 €
	Scotch Brite, coarse	Ø 10 mm	-		Ø 2.35 x 30 mm	10,000 1/min	10 pieces	0 570 582	2.38 €	2.05 €
	bristles, white	Ø 16 x 1 mm	-		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 653	1.40 €	1.18 €
		Ø 19 x 1 mm	-		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 652	1.40 €	1.27 €
		Ø 22 x 1 mm	-		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 651	1.69 €	1.45 €




Polishing brushes shank Ø 2.35 mm

	Material	Head dimensions	Trimming Ø	Trimming	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
									1 piece	50 pieces
	bristles, black	Ø 16 x 1 mm	-		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 703	1.40 €	1.18 €
		Ø 19 x 1 mm	-		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 702	1.40 €	1.27 €
		Ø 22 x 1 mm	-		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 701	1.40 €	1.27 €
	nylon	Ø 16 x 1.5 mm	0.15 mm		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 752	1.71 €	1.51 €
		Ø 19 x 1.5 mm	0.15 mm		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 753	1.71 €	1.51 €
		Ø 22 x 1.5 mm	0.15 mm		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 750	1.69 €	1.45 €
	goat hair, white	Ø 16 x 1 mm	-		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 851	1.74 €	1.51 €
		Ø 22 x 1 mm	-		Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 850	1.46 €	1.33 €







Polishing brushes shank Ø 3 mm

	Material	Head dimensions	Trimming Ø	Trimming	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
									1 piece	50 pcs.
Polishing brushes, shank Ø 3 mm										
cup										
	BAE steel, corrugated	Ø 8 x 5 mm	0.08 mm	straight	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 587	2.74 €	2.37 €
		Ø 10 x 6 mm	0.08 mm	straight	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 588	2.78 €	2.32 €
		Ø 12 x 6 mm	0.08 mm	straight	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 568	2.86 €	2.59 €
		Ø 12 x 6 mm	0.10 mm	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 573	2.74 €	2.41 €
	bristles, black	Ø 8 x 4 mm	-	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 775	2.63 €	2.24 €
		Ø 12 x 8 mm	-	straight	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 776	2.02 €	1.75 €
		Ø 12 x 8 mm	-	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 734	2.08 €	1.80 €
	bristles, white	Ø 8 x 4 mm	-	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 777	3.21 €	3.04 €
		Ø 12 x 8 mm	-	straight	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 664	1.91 €	1.65 €
		Ø 12 x 8 mm	-	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 735	1.99 €	1.74 €
	brass, corrugated	Ø 6.5 x 4 mm	0.08 mm	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 785	3.29 €	2.84 €
		Ø 6.5 x 4 mm	0.10 mm	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 786	3.12 €	2.70 €
		Ø 12 x 6 mm	0.08 mm	straight	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 614	2.82 €	2.52 €
		Ø 12 x 6 mm	0.10 mm	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 779	2.02 €	1.75 €
	nylon	Ø 8 x 4 mm	0.15 mm	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 774	3.25 €	3.10 €
	horse hair, black	Ø 25 x 15 mm	-	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 873	6.70 €	6.00 €
	Steel wire, corrugated	Ø 6.5 x 4 mm	0.08 mm	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 787	3.48 €	2.99 €






Polishing brushes shank Ø 3 mm

	Material	Head dimensions	Trimming Ø	Trimming	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
									1 piece	50 pcs.
	V2A wire, corrugated	Ø 12 x 6 mm	0.08 mm	straight	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 521	3.49 €	2.99 €
		Ø 12 x 6 mm	0.10 mm	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 736	2.69 €	2.29 €
	goat hair, grey	Ø 25 x 15 mm	-	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 874	5.30 €	4.97 €
	goat hair, white	Ø 8 x 4 mm	-	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 773	2.80 €	2.42 €
		Ø 12 x 8 mm	-	bevelled	Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 733	2.69 €	2.34 €















small brushes

	BAE steel, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 565	2.82 €	2.56 €
		Ø 5.5 x 11 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 564	2.79 €	2.46 €
	bristles, black	Ø 4 x 8 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 727	1.32 €	1.18 €
		Ø 5.5 x 11 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 737	1.74 €	1.47 €
		Ø 7 x 13 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 728	1.87 €	1.75 €
	bristles, white	Ø 3 x 8 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 668	1.32 €	1.18 €
		Ø 4 x 8 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 676	1.71 €	1.47 €
		Ø 5.5 x 11 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 677	2.08 €	1.84 €
	brass, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 625	1.48 €	1.35 €
		Ø 5.5 x 11 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 626	2.26 €	1.94 €
	V2A wire, corrugated	Ø 3 x 8 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 761	2.04 €	1.76 €
		Ø 4 x 8 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 762	2.20 €	1.91 €
		Ø 5.5 x 11 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 763	3.31 €	2.79 €
		Ø 6 x 13 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 729	4.09 €	3.55 €
	goat hair, white	Ø 4 x 8 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 679	1.87 €	1.58 €
		Ø 5.5 x 11 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 760	2.47 €	2.35 €



small brushes with elastic protection

	BAE steel, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 567	2.00 €	1.74 €
	bristles, black	Ø 4 x 8 mm	-		Ø 3 x 25 mm	10,000 1/min	10 pieces	0 570 719	1.91 €	1.65 €
	bristles, white	Ø 4 x 8 mm	-		Ø 3 x 25 mm	10,000 1/min	10 pieces	0 570 678	2.35 €	2.01 €
	brass, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 764	2.93 €	2.52 €
	V2A wire, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 765	2.63 €	2.18 €








Polishing brushes shank Ø 3 mm

	Material	Head dimensions	Trimming Ø	Trimming	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
									1 piece	50 pcs.
wheel										
	BAE steel, corrugated	Ø 16 x 2 mm	0.08 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 770	3.70 €	3.28 €
		Ø 19 x 2 mm	0.08 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 771	3.14 €	2.79 €
		Ø 22 x 2 mm	0.08 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 554	2.01 €	1.82 €
	cotton	Ø 10 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 794	2.16 €	1.86 €
	bristles, black	Ø 16 x 1 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 709	1.72 €	1.43 €
		Ø 19 x 1 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 708	2.19 €	1.93 €
		Ø 22 x 1 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 731	1.60 €	1.43 €
	bristles, white	Ø 16 x 1 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 657	1.72 €	1.43 €
		Ø 19 x 1 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 656	2.19 €	1.93 €
		Ø 22 x 1 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 732	2.10 €	1.85 €
	Chung-king bristles, black	Ø 10 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 793	2.27 €	1.96 €
	Chung-king bristles, white	Ø 10 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 792	2.27 €	1.96 €
	brass, corrugated	Ø 10 mm	0.08 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 795	2.61 €	2.25 €
		Ø 16 x 2 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 769	3.06 €	2.72 €
		Ø 19 x 2 mm	0.10 mm		Ø 3 x 40 mm	10,000 1/min	10 pieces	0 570 607	3.06 €	2.68 €
		Ø 22 x 2 mm	0.08 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 603	2.02 €	1.82 €
		Ø 32 x 2 mm	0.10 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 602	3.31 €	2.99 €
	nylon	Ø 16 x 1.5 mm	0.15 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 767	1.87 €	1.62 €
		Ø 19 x 1.5 mm	0.15 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 768	1.87 €	1.62 €
		Ø 22 x 1.5 mm	0.15 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 755	2.19 €	1.92 €
	horsehair, grey	Ø 10 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 790	2.24 €	1.92 €
	horsehair, silver-grey	Ø 10 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 791	2.24 €	1.92 €
	Scotch Brite, rough	Ø 10 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 798	2.45 €	2.13 €
	Steel wire, corrugated	Ø 10 mm	0.08 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 797	2.72 €	2.34 €
	V2A wire, corrugated	Ø 16 x 2 mm	0.08 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 772	4.21 €	3.68 €
		Ø 19 x 2 mm	0.08 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 508	4.44 €	3.93 €
		Ø 22 x 2 mm	0.08 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 506	2.58 €	2.31 €
	SS wire, corrugated	Ø 10 mm	0.08 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 796	3.80 €	3.29 €
		Ø 12 mm	0.06 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 584	3.33 €	2.87 €
		Ø 14 mm	0.06 mm		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 586	3.34 €	2.87 €


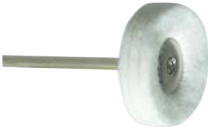

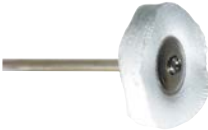

Polishing brushes shank Ø 3 mm

	Material	Head dimensions	Trimming Ø	Trimming	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
									1 piece	50 pcs.
	goat hair, grey	Ø 10 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 789	2.24 €	1.92 €
	goat hair, white	Ø 10 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 788	2.24 €	1.92 €
		Ø 16 x 1 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 766	1.94 €	1.73 €
		Ø 22 x 1 mm	-		Ø 3 x 30 mm	10,000 1/min	10 pieces	0 570 730	2.63 €	2.33 €


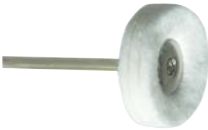

Polishing brushes shank Ø 6 mm

	Material	Head dimensions	Trimming Ø	Shank dimensions	Rotation speed max.	Order No.	Price from	
							1 piece	25 pieces
Polishing brushes, shank Ø 6 mm								
wheel								
	goat hair	Ø 45 / 25 x 4 mm	0.10 mm	Ø 6 x 40 mm	10,000 1/min	0 570 243	8.05 €	6.95 €
	cotton	Ø 45 / 25 x 4 mm	-	Ø 6 x 40 mm	10,000 1/min	0 570 246	5.70 €	4.82 €
	fleece, 8 layers	Ø 80 / 40 x 8 mm	-	Ø 6 x 40 mm	10,000 1/min	0 570 144	4.70 €	4.25 €
	nylon	Ø 45 / 25 x 4 mm	0.30 mm	Ø 6 x 40 mm	10,000 1/min	0 570 244	6.80 €	5.70 €
	bristles, black	Ø 45 / 25 x 4 mm	-	Ø 6 x 40 mm	10,000 1/min	0 570 245	6.95 €	5.90 €
	brass wire	Ø 30 / 18 x 6 mm	0.10 mm	Ø 6 x 40 mm	10,000 1/min	0 570 223	7.65 €	6.60 €
		Ø 50 / 25 x 6 mm	0.10 mm	Ø 6 x 40 mm	10,000 1/min	0 570 229	10.10 €	8.35 €
	Bessemer wire	Ø 45 / 25 x 4 mm	0.10 mm	Ø 6 x 40 mm	10,000 1/min	0 570 241	10.95 €	9.90 €

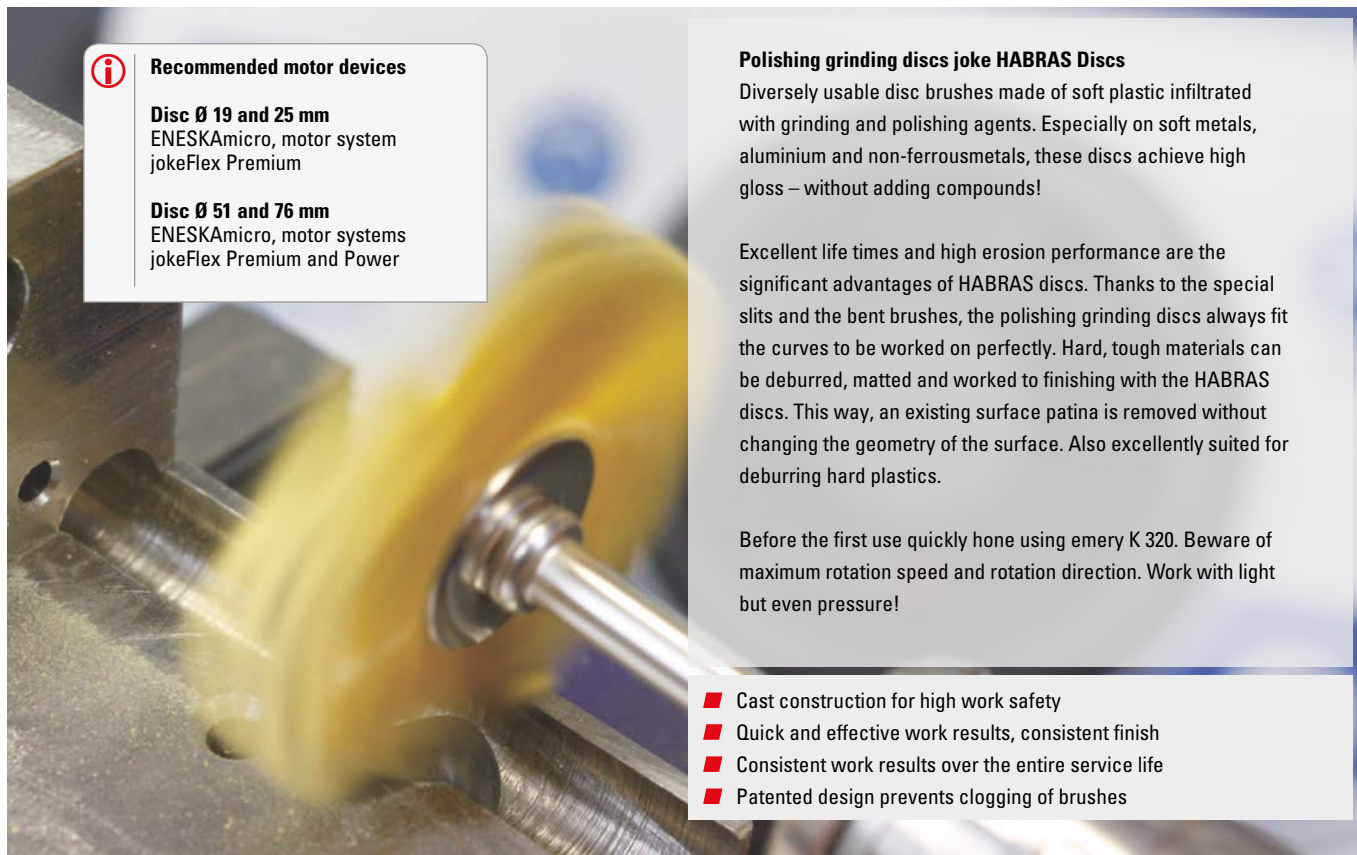
Polishing buff wheels shank Ø 2.35 mm

	Material	Layers	Head dimensions	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
								1 piece	50 pieces
Polishing buff wheels, shank Ø 2.35 mm									
	fine cotton		Ø 22 x 6 mm	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 900	4.31 €	3.68 €
	felt	3 layers	Ø 22 x 6 mm	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 980	2.38 €	2.11 €
	deerskin	5 layers	Ø 22 x 8 mm	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 800	2.69 €	2.39 €
	muslin	16 layers	Ø 22 x 3 mm	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 990	2.86 €	2.51 €
	fleece	16 layers	Ø 21 x 3 mm	Ø 2.35 x 40 mm	10,000 1/min	10 pieces	0 570 143	3.11 €	2.65 €

Polishing buff wheels shank Ø 3 mm

	Material	Layers	Head dimensions	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
								1 piece	50 pieces
Polishing buff wheels, shank Ø 3 mm									
	fine cotton		Ø 22 x 6 mm	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 570 900-0	4.84 €	4.46 €
	felt	3 layers	Ø 22 x 6 mm	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 570 984	2.80 €	2.46 €
	deerskin	5 layers	Ø 22 x 8 mm	Ø 3 x 40 mm	10,000 1/min	10 pieces	0 570 801	3.06 €	2.83 €

Polier-Schleifscheiben joke HABRAS Discs



Recommended motor devices

Disc Ø 19 and 25 mm
ENESKAmicro, motor system
jokeFlex Premium

Disc Ø 51 and 76 mm
ENESKAmicro, motor systems
jokeFlex Premium and Power

Polishing grinding discs joke HABRAS Discs

Diversely usable disc brushes made of soft plastic infiltrated with grinding and polishing agents. Especially on soft metals, aluminium and non-ferrous metals, these discs achieve high gloss – without adding compounds!

Excellent life times and high erosion performance are the significant advantages of HABRAS discs. Thanks to the special slits and the bent brushes, the polishing grinding discs always fit the curves to be worked on perfectly. Hard, tough materials can be deburred, matted and worked to finishing with the HABRAS discs. This way, an existing surface patina is removed without changing the geometry of the surface. Also excellently suited for deburring hard plastics.

Before the first use quickly hone using emery K 320. Beware of maximum rotation speed and rotation direction. Work with light but even pressure!

- Cast construction for high work safety
- Quick and effective work results, consistent finish
- Consistent work results over the entire service life
- Patented design prevents clogging of brushes

Overview HABRAS discs







Use	Abrasive	Grit size	Colour	Deliverable diameter					
				Ø 19 mm	Ø 25 mm*	Ø 51 mm		Ø 76 mm	
				with shank Ø 3 x 40 mm	with shank Ø 3 x 40 mm	with shank Ø 6 x 40 mm	without shank	with shank Ø 6 x 40 mm	without shank
Deburring, Matting	Corundum	extra coarse P 36	brown	✗	✓ 0571 067	✗	✗	✗	✗
		very coarse P 50	green	✗	✓ 0571 068	✗	✗	✗	✗
		coarse P 80	yellow	✓ 0571 031	✓ 0571 061	✓ 0571 501	✓ 0571 521	✓ 0571 511	✓ 0571 531
Deburring, Matting, Cross fading		medium P 120	white	✗	✓ 0571 069	✓ 0571 509	✓ 0571 529	✓ 0571 519	✓ 0571 539
		standard P 220	red	✓ 0571 032	✓ 0571 062	✓ 0571 502	✓ 0571 522	✓ 0571 512	✓ 0571 532
Matting, Cleaning		fine P 400	blue	✓ 0571 033	✓ 0571 063	✓ 0571 503	✓ 0571 523	✓ 0571 513	✓ 0571 533
Cleaning, Finishing	Pumic stone	very fine –	pink	✓ 0571 034	✗	✓ 0571 504	✓ 0571 524	✓ 0571 514	✓ 0571 534
Finishing	High-grade corundum (EKR)	extra fine 6 µm	orange	✓ 0571 035	✗	✓ 0571 505	✓ 0571 525	✓ 0571 515	✓ 0571 535
		ultra fine 1 µm	light green	✓ 0571 036	✗	✓ 0571 506	✓ 0571 526	✓ 0571 516	✓ 0571 536

* HARBAS Pro: The special robust design!

Polishing grinding discs joke HABRAS Discs shank Ø 3 x 40 mm

joke HABRAS discs are characterised by excellent service life and uniform stock removal. Work is performed directly without addition of compounds. Especially for mirror-polishing soft metals, aluminium and non-ferrous metals. Hard, tough metals such as titanium and stainless steels can be matted and mirror-polished. Any existing surface patina is removed without changing the surface geometry. Well suited for deburring hard plastics. Owing to their slotted design, joke HABRAS discs adapt to the surface shape.

TIP: briefly dress joke HABRAS discs before first time use and observe the maximum speed and direction of rotation. Work with light but even working pressure







	Polish	Head dimensions	Grit size	Colour	Shank dimensions	Rotation speed max.	Order No.	Price from		
								1 piece	5 pieces	10 pieces
Polishing grinding discs joke HABRAS Discs, shank Ø 3 x 40 mm										
corundum										
	coarse	Ø 19 mm	P 80	yellow	Ø 3 x 40 mm	20,000 1/min	0 571 031	9.20 €	8.55 €	7.75 €
	standard	Ø 19 mm	P 80	red	Ø 3 x 40 mm	20,000 1/min	0 571 032	9.20 €	8.55 €	7.75 €
	fine	Ø 19 mm	P 80	blue	Ø 3 x 40 mm	20,000 1/min	0 571 033	9.20 €	8.55 €	7.75 €
pumice										
	very fine	Ø 19 mm	P 80	pink	Ø 3 x 40 mm	20,000 1/min	0 571 034	10.30 €	10.00 €	8.35 €
extra fine high-grade corundum										
	shine	Ø 19 mm	6 µm	orange	Ø 3 x 40 mm	20,000 1/min	0 571 035	9.20 €	8.55 €	7.75 €
	mirror finish	Ø 19 mm	1 µm	light green	Ø 3 x 40 mm	20,000 1/min	0 571 036	9.20 €	8.55 €	7.75 €


TIP:








The worn grinding discs can be replaced! In doing so, you can reuse the shanks!

Replacement discs for shank mounting on page 170!

Polishing grinding discs joke HABRAS Discs Pro shank Ø 3 x 40 mm

	Polish	Head dimensions	Grit size	Colour	Shank dimensions	Rotation speed max.	Order No.	Price from		
								1 piece	5 pieces	10 pieces
Polishing grinding discs joke HABRAS Discs Pro, shank Ø 3 x 40 mm										
corundum										
	extra coarse	Ø 25 x 4 mm	P 36	brown	Ø 3 x 40 mm	20,000 1/min	0 571 067	8.80 €	8.25 €	6.95 €
	very coarse	Ø 25 x 4 mm	P 36	green	Ø 3 x 40 mm	20,000 1/min	0 571 068	8.80 €	8.25 €	6.95 €
	coarse	Ø 25 x 4 mm	P 80	yellow	Ø 3 x 40 mm	20,000 1/min	0 571 061	8.80 €	8.25 €	6.95 €
	medium	Ø 25 x 4 mm	P 120	white	Ø 3 x 40 mm	20,000 1/min	0 571 069	8.80 €	8.25 €	6.95 €
	standard	Ø 25 x 4 mm	P 36	red	Ø 3 x 40 mm	20,000 1/min	0 571 062	8.80 €	8.25 €	6.95 €
extra fine high-grade corundum										
	fine	Ø 25 x 4 mm	P 36	blue	Ø 3 x 40 mm	20,000 1/min	0 571 063	8.80 €	8.25 €	6.95 €

Polishing grinding discs joke HABRAS Discs shank Ø 6 x 40 mm

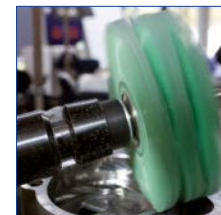
Polish	Head dimensions	Grit size	Colour	Shank dimensions	Rotation speed max.	Order No.	Price from			
							1 piece	5 pieces	10 pieces	
Polishing grinding discs joke HABRAS Discs, 4 layers, shank Ø 6 x 40 mm										
corundum										
	coarse	Ø 51 x 5 mm	P 80	yellow	Ø 6 x 40 mm	12,500 1/min	0 571 501	40.70 €	35.15 €	31.45 €
		Ø 76 x 5 mm	P 80	yellow	Ø 6 x 40 mm	7,500 1/min	0 571 511	48.65 €	41.95 €	37.50 €
	medium	Ø 51 x 5 mm	P 120	white	Ø 6 x 40 mm	12,500 1/min	0 571 509	41.95 €	36.40 €	32.45 €
		Ø 76 x 5 mm	P 120	white	Ø 6 x 40 mm	7,500 1/min	0 571 519	48.65 €	41.95 €	37.50 €
	standard	Ø 51 x 5 mm	P 220	red	Ø 6 x 40 mm	12,500 1/min	0 571 502	41.95 €	36.40 €	32.45 €
		Ø 76 x 5 mm	P 220	red	Ø 6 x 40 mm	7,500 1/min	0 571 512	48.65 €	41.95 €	37.50 €
	fine	Ø 51 x 5 mm	P 400	blue	Ø 6 x 40 mm	12,500 1/min	0 571 503	41.95 €	36.40 €	32.45 €
		Ø 76 x 5 mm	P 400	blue	Ø 6 x 40 mm	7,500 1/min	0 571 513	48.65 €	41.95 €	37.50 €
pumice										
	very fine	Ø 51 x 5 mm	-	pink	Ø 6 x 40 mm	12,500 1/min	0 571 504	41.95 €	36.40 €	32.45 €
extra fine high-grade corundum										
	shine	Ø 51 x 5 mm	6 µm	orange	Ø 6 x 40 mm	12,500 1/min	0 571 505	41.95 €	36.40 €	32.45 €
		Ø 76 x 5 mm	6 µm	orange	Ø 6 x 40 mm	7,500 1/min	0 571 515	48.65 €	41.95 €	37.50 €
	high gloss	Ø 51 x 5 mm	1 µm	light green	Ø 6 x 40 mm	12,500 1/min	0 571 506	41.95 €	36.40 €	32.45 €
		Ø 76 x 5 mm	1 µm	light green	Ø 6 x 40 mm	7,500 1/min	0 571 516	48.65 €	41.95 €	37.50 €

Polishing grinding discs joke HABRAS without shank for self-assembly


HABRAS Discs without shank

Simply go and make yourself your own HABRAS disc tool! The individual solution tailored to your application.

The individually available HABRAS discs are supplied in the same versions, grit sizes and diameters as the shank-mounted discs.



	Dimensions	Drilling dimension	Polish	Grit size	Colour	Rotation speed max.	Packing quantity	Order No.	Price from		
									1 pack	5 packs	10 packs
Polishing grinding discs joke HABRAS without shank											
	Ø 19 mm	1.8 mm	very fine		pink	20,000 1/min	4 pieces	0 571 040	8.25 €	7.75 €	7.35 €
		1.8 mm	very fine		pink	20,000 1/min	48 pieces	0 571 046	90.75 €	83.45 €	78.00 €
	1.8 mm	shine	6 µm	orange	20,000 1/min	4 pieces	0 571 041	8.25 €	7.75 €	7.35 €	
	1.8 mm	shine	6 µm	orange	20,000 1/min	48 pieces	0 571 047	90.75 €	83.45 €	78.00 €	
	1.8 mm	high gloss	1 µm	light green	20,000 1/min	4 pieces	0 571 042	8.25 €	7.75 €	7.35 €	
	1.8 mm	high gloss	1 µm	light green	20,000 1/min	48 pieces	0 571 048	90.75 €	83.45 €	78.00 €	
	1.8 mm	coarse	P 80	yellow	20,000 1/min	4 pieces	0 571 037	8.25 €	7.75 €	7.35 €	
	1.8 mm	coarse	P 80	yellow	20,000 1/min	48 pieces	0 571 043	90.75 €	83.45 €	78.00 €	
	1.8 mm	medium	P 120	white	20,000 1/min	4 pieces	0 571 075	8.25 €	7.75 €	7.35 €	
	1.8 mm	medium	P 120	white	20,000 1/min	48 pieces	0 571 076	90.75 €	83.45 €	78.00 €	
	1.8 mm	standard	P 220	red	20,000 1/min	4 pieces	0 571 038	8.25 €	7.75 €	7.35 €	
	1.8 mm	standard	P 220	red	20,000 1/min	48 pieces	0 571 044	90.75 €	83.45 €	78.00 €	
	1.8 mm	fine	P 400	blue	20,000 1/min	4 pieces	0 571 039	8.25 €	7.75 €	7.35 €	
	1.8 mm	fine	P 400	blue	20,000 1/min	48 pieces	0 571 045	90.75 €	83.45 €	78.00 €	

	Dimensions	Drilling dimension	Polish	Grit size	Colour	Rotation speed max.	Order No.	Price from		
								1 piece	5 pieces	10 pieces
Polishing grinding discs joke HABRAS without shank										
	Ø 51 x 5 mm	5 mm	very fine		pink	12,500 1/min	0 571 524	35.25 €	32.15 €	29.80 €
		5 mm	shine	6 µm	orange	12,500 1/min	0 571 525	35.25 €	32.15 €	29.80 €
		5 mm	high gloss	1 µm	light green	12,500 1/min	0 571 526	35.25 €	32.15 €	29.80 €
	Ø 76 x 5 mm	5 mm	shine	6 µm	orange	7,500 1/min	0 571 535	41.95 €	38.35 €	35.35 €
		5 mm	high gloss	1 µm	light green	7,500 1/min	0 571 536	41.95 €	38.35 €	35.35 €
	Ø 51 x 5 mm	5 mm	coarse	P 80	yellow	12,500 1/min	0 571 521	35.25 €	32.15 €	29.80 €
		5 mm	medium	P 120	white	12,500 1/min	0 571 529	35.25 €	32.15 €	29.80 €
		5 mm	standard	P 220	red	12,500 1/min	0 571 522	35.25 €	32.15 €	29.80 €
		5 mm	fine	P 400	blue	12,500 1/min	0 571 523	35.25 €	32.15 €	29.80 €
	Ø 76 x 5 mm	5 mm	coarse	P 80	yellow	7,500 1/min	0 571 531	41.95 €	38.35 €	35.35 €
		5 mm	medium	P 120	white	7,500 1/min	0 571 539	41.95 €	38.35 €	35.35 €
		5 mm	standard	P 220	red	7,500 1/min	0 571 532	41.95 €	38.35 €	35.35 €
5 mm		fine	P 400	blue	7,500 1/min	0 571 533	41.95 €	38.35 €	35.35 €	



Matching mounting shanks on page 191:

- for discs Ø 19 mm: type 21, 22, 23, 24, 25, 26, 27
- for discs Ø 51 and 76 mm: type 41, 42

Note: 4 layers are bound together here to form a disc

Polishing grinding brushes joke HABRAS shank Ø 3 x 40 mm

Polishing grinding brushes joke HABRAS

The carrier material of these polishing grinding brushes consists of nylon fibre, the characteristics of which, such as elasticity and bend-resistance are of advantage for all applications. The silicon carbide and corundum abrasives are applied with even distribution in the individual fibres.

Owing to the different grit sizes, the brushes in the HABRAS series are highly versatile in use. During processing, the HABRAS brushes are characterised above all by high stability with simultaneously low dust production.

Use for example for deburring cutting edges in carbide metal. Simply condition on K 320 emery before using for the first time!



HABRAS brushes and HABRAS

discs – what is the difference?

In both versions, the grit is embedded in the carrier material and is not released during work. Consequently, the result is consistent until completely worn out.

The discs are manufactured in their entirety using the injection moulding method and are only available as wheels. In the case of the brushes, the nylon fibres are grouped together as a pencil, wheel or cup. In contrast to the discs, it is not necessary to observe the direction of rotation in this case!

		Abrasive	Fibre	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from	
									1 piece	10 pieces
Polishing grinding brushes joke HABRAS shank Ø 3 x 40 mm										
cup										
	corundum	coarse		Ø 12 / 6 mm	P 320	Ø 3 x 40 mm	2,800 1/min	0 571 013	9.90 €	8.25 €
		medium		Ø 12 / 6 mm	P 320	Ø 3 x 40 mm	2,800 1/min	0 571 012	10.00 €	8.25 €
		fine		Ø 12 / 6 mm	P 320	Ø 3 x 40 mm	2,800 1/min	0 571 011	9.90 €	8.25 €
	SiC	coarse		Ø 12 / 6 mm	P 320	Ø 3 x 40 mm	2,800 1/min	0 571 016	10.00 €	8.45 €
		medium		Ø 12 / 6 mm	P 320	Ø 3 x 40 mm	2,800 1/min	0 571 015	10.00 €	8.45 €
		extra fine		Ø 12 / 6 mm	P 320	Ø 3 x 40 mm	2,800 1/min	0 571 014	10.00 €	8.25 €
small brushes										
	corundum	coarse		Ø 5 / 8 mm	P 320	Ø 3 x 40 mm	2,800 1/min	0 571 023	10.00 €	8.45 €
		medium		Ø 5 / 8 mm	P 500	Ø 3 x 40 mm	2,800 1/min	0 571 022	9.00 €	7.85 €
		fine		Ø 5 / 8 mm	P 500	Ø 3 x 40 mm	2,800 1/min	0 571 021	9.90 €	8.25 €
	SiC	coarse		Ø 5 / 8 mm	P 320	Ø 3 x 40 mm	2,800 1/min	0 571 026	10.00 €	8.45 €
		medium		Ø 5 / 8 mm	P 500	Ø 3 x 40 mm	2,800 1/min	0 571 025	10.00 €	8.45 €
		extra fine		Ø 5 / 8 mm	P 500	Ø 3 x 40 mm	2,800 1/min	0 571 024	10.00 €	8.45 €
wheel										
	corundum	coarse		Ø 22 mm	P 320	Ø 3 x 40 mm	2,800 1/min	0 571 003	10.00 €	8.25 €
		medium		Ø 22 mm	P 500	Ø 3 x 40 mm	2,800 1/min	0 571 002	9.90 €	8.25 €
		fine		Ø 22 mm	P 600	Ø 3 x 40 mm	2,800 1/min	0 571 001	9.90 €	8.25 €
	SiC	coarse		Ø 22 mm	P 320	Ø 3 x 40 mm	2,800 1/min	0 571 006	10.00 €	8.25 €
		medium		Ø 22 mm	P 500	Ø 3 x 40 mm	2,800 1/min	0 571 005	10.00 €	8.25 €
		extra fine		Ø 22 mm	P 600	Ø 3 x 40 mm	2,800 1/min	0 571 004	10.00 €	8.45 €

Convolute compact grinding discs

Convolute compact grinding discs

Wound, not pressed. These special grinding discs have been developed for the demanding preliminary and final processing of surfaces of the widest array of materials. They result from winding nylon fleece fabric around a hard core. Beforehand, the fabric is wetted with a special abrasive resin system. The winding results in a very uniform structure with which the direction of rotation must nevertheless be observed.

The discs are available in two abrasive finishes grit sizes in addition to three hardnesses.

The advantages:

- long service life
- consistent stock removal, dust-free
- highly resistant with only minor edge wear
- little contact heating
- no smearing of the surface
- rapid and easy profiling
- simple to use = efficient work
- optimally adapts to the workpiece
- no workpiece damage



Hardness grades

- 9 = extra hard
- 8 = hard
- 7 = medium/hard

		Dimensions	Drilling dimension	Hardness	Grit size	Rotation speed max.	Order No.	Price from 1 piece
Convolute compact grinding discs								
Corundum								
	The best choice for working on steel, aluminium, zinc, die-cast metal and brass.	Ø 150 x 12.5 mm	25.4 mm	8	A-Medium	5,500 1/min	0 430 021	47.65 €
		Ø 200 x 25.4 mm	76.2 mm	7	A-Medium	4,500 1/min	0 430 022	94.75 €
		Ø 200 x 25.4 mm	76.2 mm	7	A-Fine	4,500 1/min	0 430 023	94.75 €
		Ø 200 x 25.4 mm	76.2 mm	8	A-Medium	4,500 1/min	0 430 024	94.75 €
Silicon carbide								
	For final finishing on stainless steel, titanium, cobalt chrome and nickel alloys.	Ø 150 x 12.5 mm	25.4 mm	7	S-Fine	5,500 1/min	0 430 031	47.65 €
		Ø 150 x 25.4 mm	25.4 mm	7	S-Fine	5,500 1/min	0 430 033	74.45 €
		Ø 200 x 25.4 mm	76.2 mm	7	S-Medium	4,500 1/min	0 430 036	94.75 €
		Ø 200 x 25.4 mm	76.2 mm	7	S-Fine	4,500 1/min	0 430 037	94.75 €
		Ø 200 x 25.4 mm	76.2 mm	9	S-Medium	4,500 1/min	0 430 040	94.75 €
		Ø 200 x 25.4 mm	76.2 mm	9	S-Fine	4,500 1/min	0 430 041	94.75 €



Applications for the convolute compact grinding discs

Application	Specification	Recommended working speed
Cleaning: general cleaning, removal of rust, oxidation and slight scale, cleaning of pipe threads and slight casting burrs	6 S-Fine 7 S-Fine 8 S-Fine	11 – 32 m/sec.
Deburring: mouldings and milled parts, rounding of edges on metal parts, slight deburring of piston rings and other metal parts	7 S-Medium 8 S-Medium 9 S-Medium 9 S-Fine	28 – 41 m/sec.
Overlaying: turbine blades, preparation of surfaces before galvanising, forging flashes on turbine blades, overlaying sanding marks of grit size 60/80/120	7 S-Fine 8 A-Medium	28 – 41 m/sec.
Final finishing: satin finishing, finishing of aluminium parts, final surface finishing before coating, final finishing of cutlery, final finishing of hand-held tools before coating	S-Med finishing S-Fine finishing 8 S-Fine 9 S-Fine	2 – 15 m/sec.

Round brushes with nylon grinding bristles

Round brushes with nylon grinding bristles

The nylon fibres of these brushes are interspersed with silicon carbide. The latter is constantly released during work and a highly even grinding effect with a highly uniform ground section is produced.


The nylon polishing bristles are extremely elastic and flexible and consequently absolutely unbreakable. The trimming area does not clog with work residues during deployment and the polishing effect remains constantly high throughout the entire working period. Suitable for wet and dry use.

Further advantages:

- long service life
- only very light contact pressure required
- low heat generation
- usable for clockwise and anticlockwise running
- suitable for machine and manual use

	Dimensions	Grit size	Drilling dimension	Rotation speed max.	Order No.	Price from	
						1 piece	3 pieces
Round brushes with nylon grinding bristles (silicon-carbide-embedded)							
	Ø 75 x 12 mm	K 80	15.9 mm	20,000 1/min	0 571 370	34.10 €	30.00 €
		K 120	15.9 mm	20,000 1/min	0 571 371	34.10 €	30.00 €
		K 180	15.9 mm	20,000 1/min	0 571 372	34.10 €	30.00 €
		K 320	15.9 mm	20,000 1/min	0 571 373	34.10 €	30.00 €
	Ø 100 x 13 mm	K 80	15.9 mm	12,000 1/min	0 571 374	34.75 €	30.50 €
		K 120	15.9 mm	12,000 1/min	0 571 375	34.75 €	30.50 €
		K 180	15.9 mm	12,000 1/min	0 571 376	34.75 €	30.50 €
		K 320	15.9 mm	12,000 1/min	0 571 377	34.75 €	30.50 €
	Ø 125 x 16 mm	K 80	15.9 mm	12,000 1/min	0 571 378	41.55 €	36.50 €
		K 120	15.9 mm	12,000 1/min	0 571 379	41.55 €	36.50 €
		K 180	15.9 mm	12,000 1/min	0 571 380	41.55 €	36.50 €
		K 320	15.9 mm	12,000 1/min	0 571 381	41.55 €	36.50 €
	Ø 150 x 18 mm	K 80	20 mm	6,000 1/min	0 571 382	44.00 €	38.65 €
		K 120	20 mm	6,000 1/min	0 571 383	44.00 €	38.65 €
		K 180	20 mm	6,000 1/min	0 571 384	44.00 €	38.65 €
		K 320	20 mm	6,000 1/min	0 571 385	44.00 €	38.65 €

Accessories / spare parts

		For bore dimensions	Shank dimensions	Order No.	Price from 1 piece
Clamping mandrel					
	using this clamping mandrel, the round brushes Ø 75, 100 and 125 mm can be operated manually on the jokeFlex Power motor unit.	Ø 15.9 mm	Ø 6 x 40 mm	0 571 400	20.30 €

2 Polishing buffing discs OPTI for use on polishing machines

Polishing buffing discs OPTI

These discs are used on stationary polishing machines in conjunction with solid polishing compounds (Dialux).

Available in two versions:

Cotton, soft:

- highly adaptable
- use for final polishing

Cotton, hard (quilted):

- very firm
- high stock removal rates
- highly dimensionally stable



	Head dimensions	Material	Drilling dimension	Rotation speed max.	Order No.	Price from 1 piece
Polishing buffing discs OPTI						
	Ø 200 x 20 mm	cotton, soft	15.9 mm	3,000 1/min	0 041 622	29.30 €
		cotton, hard (quilted)	15.9 mm	3,000 1/min	0 041 623	23.10 €
	Ø 250 x 25 mm	cotton, soft	20 mm	3,000 1/min	0 041 632	35.45 €
		cotton, hard (quilted)	20 mm	3,000 1/min	0 041 633	35.45 €

The perfect complement

OPTI polish

The ideal polishing machine for fine machining



Order No.	Price
0 041 620-0	260.00 €



The perfect complement

Dialux polishing compound

- polishing compounds in "bar form"
- use up to finishing stage
- perfect for use with felts, brushes and buffers



Order No.	Price
0 580 560	6.80 €

The perfect complement

Protective goggles

- Clear, optically correct, scratchproof PC glasses
- Comfort cushions on the sidepiece ends
- Soft nose pad



Order No.	Price
0 203 083	5.40 €

The perfect complement

Universal-Spray joke X 73020

- five products rolled into one: corrosion protection, cleaning, water repellence, lubrication and preservation
- cleans surfaces and cares for tools



Order No.	Price
0 580 526	5.45 €




Drilling brushes

Drilling brushes

Do you often struggle with heavy burrs on tough materials? From now on, the odds will be in your favour, for we are providing you with the appropriate "weapon" in the form of these new brushes. The special feature: triangular piano wire is used as the trimming, which is additionally twisted again around its own axis.

The drilling brushes are available with three different head versions:

1. Wire, oval: for readily accessible transverse holes.
2. Wire, crossed: for transverse holes and end face processing in addition to non-concentric holes.
3. Wire, knotted: for transverse holes at the bottom of the blind hole. For removing very heavy burrs.

	Head dimensions	Trimming Ø	Shank dimensions	Total length	Rotation speed max.	Order No.	Price from		
							1 piece	3 pieces	5 pieces
Drilling brushes									
Wire, crossed									
	Ø 3 x 30 mm	Ø 0.7 mm	Ø 3 x 70 mm	100 mm	700 1/min	0 571 721	32.45 €	30.20 €	28.05 €
	Ø 4 x 30 mm	Ø 0.7 mm	Ø 3 x 70 mm	100 mm	700 1/min	0 571 722	32.45 €	30.20 €	28.05 €
	Ø 5 x 30 mm	Ø 0.7 mm	Ø 4 x 50 mm	100 mm	700 1/min	0 571 723	39.60 €	36.60 €	33.80 €
	Ø 6 x 30 mm	Ø 0.7 mm	Ø 4 x 50 mm	100 mm	700 1/min	0 571 724	39.60 €	36.60 €	33.80 €
	Ø 7 x 30 mm	Ø 0.7 mm	Ø 5 x 50 mm	100 mm	700 1/min	0 571 725	41.10 €	38.05 €	34.85 €
	Ø 8 x 35 mm	Ø 0.7 mm	Ø 5 x 45 mm	100 mm	700 1/min	0 571 726	41.75 €	38.85 €	35.45 €
Wire, oval									
	Ø 3 x 30 mm	Ø 0.7 mm	Ø 3 x 70 mm	100 mm	700 1/min	0 571 701	34.20 €	31.65 €	29.30 €
	Ø 4 x 30 mm	Ø 0.7 mm	Ø 3 x 70 mm	100 mm	700 1/min	0 571 702	34.20 €	31.65 €	29.30 €
	Ø 5 x 30 mm	Ø 0.7 mm	Ø 4 x 50 mm	100 mm	700 1/min	0 571 703	40.40 €	37.30 €	34.45 €
	Ø 6 x 30 mm	Ø 0.7 mm	Ø 5 x 50 mm	100 mm	700 1/min	0 571 704	40.40 €	37.30 €	34.45 €
	Ø 7 x 40 mm	Ø 0.7 mm	Ø 5 x 40 mm	100 mm	700 1/min	0 571 705	45.05 €	41.65 €	38.35 €
	Ø 8 x 40 mm	Ø 0.7 mm	Ø 5 x 40 mm	100 mm	700 1/min	0 571 706	45.65 €	42.25 €	38.95 €
	Ø 9 x 45 mm	Ø 0.7 mm	Ø 6 x 35 mm	100 mm	700 1/min	0 571 707	51.30 €	47.70 €	43.70 €
Wire, knotted									
	Ø 5 x 30 mm	Ø 0.7 mm	Ø 4 x 50 mm	100 mm	700 1/min	0 571 711	39.60 €	36.60 €	33.80 €
	Ø 6 x 30 mm	Ø 0.7 mm	Ø 4 x 50 mm	100 mm	700 1/min	0 571 712	39.60 €	36.60 €	33.80 €
	Ø 7 x 30 mm	Ø 0.7 mm	Ø 5 x 50 mm	100 mm	700 1/min	0 571 713	40.40 €	37.30 €	34.45 €
	Ø 8 x 30 mm	Ø 0.7 mm	Ø 5 x 50 mm	100 mm	700 1/min	0 571 714	40.40 €	37.30 €	34.45 €
	Ø 9 x 30 mm	Ø 0.7 mm	Ø 6 x 50 mm	100 mm	700 1/min	0 571 715	42.55 €	39.45 €	36.40 €
	Ø 10 x 30 mm	Ø 0.7 mm	Ø 6 x 50 mm	100 mm	700 1/min	0 571 716	42.55 €	39.45 €	36.40 €
	Ø 11 x 30 mm	Ø 0.7 mm	Ø 6 x 50 mm	100 mm	700 1/min	0 571 717	43.20 €	40.20 €	37.00 €



The drilling brushes are available with three different head versions:

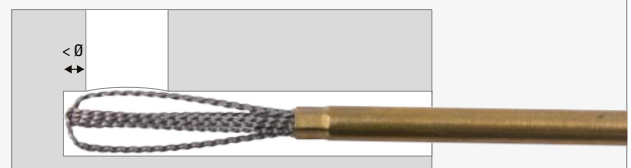
1. Wire, oval: for readily accessible transverse holes.



2. Wire, crossed: for transverse holes and end face processing in addition to non-concentric holes.



3. Wire, knotted: for transverse holes at the bottom of the blind hole. For removing very heavy burrs.



2 Jet brushes shaft with eyelets

Jet brushes

The solution for inner cleaning, dust removal and varnish removal for jets, pipes, hoses, threaded holes, crossed holes, cylinders and much more.

Created for real men capable of driving the brushes with sheer muscle power. For those with less brute force, the brushes can also be inserted using a cordless screw driver. To do this, simply cut off the eyelets. The jet brushes are wound clockwise.

Available with nylon trimming and corrugated wire made of brass, steel or stainless steel.



- Processing of (cross) drill holes, jets, cylinders etc.
- Optimum for deburring, dust removal and varnish removal
- Drive by muscle power or machine (cordless screw driver)
- Available in four trimming versions



i A little thicker please!

For optimum results, select the following excess brush dimensions according to the drilling hole diameter:


- Drilling hole > 4 mm: approx. 10 – 15 %
- Drilling hole > 15 mm: approx. 20 – 25 %

		Head dimensions	Trimming Ø	Shank dimensions	Total length	Order No.	Price from	
							1 piece	10 pieces
Jet brushes, cylinders, shaft with eyelets								
Nylon								
	Excellent elasticity and durability. Resistant to solvents, but easily dissolved in acid. To shine, polish and clean. Possible to use with compounds.	Ø 2 x 100 mm	0.06 mm	Ø 1.4 x 200 mm	300 mm	0 571 240	4.10 €	3.61 €
		Ø 3 x 100 mm	0.10 mm	Ø 1.6 x 200 mm	300 mm	0 571 241	3.71 €	3.20 €
		Ø 4 x 100 mm	0.15 mm	Ø 1.4 x 200 mm	300 mm	0 571 200	2.36 €	2.05 €
		Ø 5 x 100 mm	0.15 mm	Ø 1.8 x 200 mm	300 mm	0 571 201	2.36 €	2.05 €
		Ø 6 x 100 mm	0.15 mm	Ø 1.8 x 200 mm	300 mm	0 571 202	2.36 €	2.05 €
		Ø 8 x 100 mm	0.25 mm	Ø 2.6 x 200 mm	300 mm	0 571 203	2.36 €	2.05 €
		Ø 10 x 100 mm	0.25 mm	Ø 2.6 x 200 mm	300 mm	0 571 204	2.47 €	2.18 €
		Ø 12 x 100 mm	0.25 mm	Ø 2.6 x 200 mm	300 mm	0 571 205	2.47 €	2.18 €
		Ø 15 x 100 mm	0.25 mm	Ø 2.6 x 200 mm	300 mm	0 571 206	2.85 €	2.47 €
		Ø 18 x 100 mm	0.25 mm	Ø 2.6 x 200 mm	300 mm	0 571 207	2.85 €	2.47 €
		Ø 20 x 100 mm	0.25 mm	Ø 2.6 x 200 mm	300 mm	0 571 208	2.98 €	2.59 €
		Ø 25 x 100 mm	0.35 mm	Ø 3.2 x 200 mm	300 mm	0 571 209	3.12 €	2.74 €
Corrugated brass wire								
	Silky and softer grinding pattern than steel wires. Possible discolouration on workpiece. For polishing, descaling, deburring. Possible to use with and without compounds.	Ø 4 x 100 mm	0.08 mm	Ø 1.8 x 200 mm	300 mm	0 571 210	10.95 €	9.60 €
		Ø 5 x 100 mm	0.08 mm	Ø 1.8 x 200 mm	300 mm	0 571 211	10.95 €	9.60 €
		Ø 6 x 100 mm	0.15 mm	Ø 1.8 x 200 mm	300 mm	0 571 212	7.85 €	7.45 €
		Ø 8 x 100 mm	0.15 mm	Ø 2.8 x 200 mm	300 mm	0 571 213	6.40 €	5.70 €
		Ø 10 x 100 mm	0.15 mm	Ø 2.8 x 200 mm	300 mm	0 571 214	5.50 €	4.90 €
		Ø 12 x 100 mm	0.15 mm	Ø 2.8 x 200 mm	300 mm	0 571 215	8.15 €	7.25 €
		Ø 15 x 100 mm	0.15 mm	Ø 4.6 x 200 mm	300 mm	0 571 216	5.50 €	4.90 €
		Ø 18 x 100 mm	0.15 mm	Ø 4.6 x 200 mm	300 mm	0 571 217	8.25 €	7.35 €
		Ø 20 x 100 mm	0.20 mm	Ø 4.6 x 200 mm	300 mm	0 571 218	5.90 €	5.20 €
		Ø 25 x 100 mm	0.20 mm	Ø 4.6 x 200 mm	300 mm	0 571 219	9.20 €	8.05 €

Jet brushes shaft with eyelets

	Head dimensions	Trimming Ø	Shank dimensions	Total length	Order No.	Price from	
						1 piece	10 pieces
Corrugated steel wire							
 <p>Bendable and elastic wire which leaves a significantly visible grinding pattern on the work piece. For pre-polishing, descaling, deburring. Possible to use with and without compounds.</p>	Ø 4 x 100 mm	0.10 mm	Ø 1.8 x 200 mm	300 mm	0 571 220	7.95 €	7.55 €
	Ø 5 x 100 mm	0.10 mm	Ø 1.8 x 200 mm	300 mm	0 571 221	7.95 €	7.05 €
	Ø 6 x 100 mm	0.10 mm	Ø 1.8 x 200 mm	300 mm	0 571 222	7.35 €	7.05 €
	Ø 8 x 100 mm	0.15 mm	Ø 3.7 x 200 mm	300 mm	0 571 223	5.70 €	5.15 €
	Ø 10 x 100 mm	0.15 mm	Ø 3.7 x 200 mm	300 mm	0 571 224	5.00 €	4.57 €
	Ø 12 x 100 mm	0.15 mm	Ø 3.7 x 200 mm	300 mm	0 571 225	7.35 €	6.40 €
	Ø 15 x 100 mm	0.15 mm	Ø 4.6 x 200 mm	300 mm	0 571 226	5.00 €	4.70 €
	Ø 18 x 100 mm	0.15 mm	Ø 4.6 x 200 mm	300 mm	0 571 227	7.45 €	6.60 €
	Ø 20 x 100 mm	0.20 mm	Ø 4.6 x 200 mm	300 mm	0 571 228	6.70 €	4.69 €
	Ø 25 x 100 mm	0.20 mm	Ø 4.6 x 200 mm	300 mm	0 571 229	7.85 €	6.95 €
Stainless steel wire, corrugated							
 <p>Comparable with steel wire but resistant to acids and alkalis. More break resistant than steel. Can also be used with water and leaves no rust residues on the material. For pre-polishing, descaling, deburring especially for stainless steels and aluminium. With and without compounds.</p>	Ø 4 x 100 mm	0.10 mm	Ø 1.8 x 200 mm	300 mm	0 571 230	12.60 €	10.30 €
	Ø 5 x 100 mm	0.10 mm	Ø 1.8 x 200 mm	300 mm	0 571 231	12.60 €	10.30 €
	Ø 6 x 100 mm	0.10 mm	Ø 1.8 x 200 mm	300 mm	0 571 232	12.60 €	10.30 €
	Ø 8 x 100 mm	0.15 mm	Ø 1.8 x 200 mm	300 mm	0 571 233	9.20 €	7.45 €
	Ø 10 x 100 mm	0.15 mm	Ø 3.7 x 200 mm	300 mm	0 571 234	9.20 €	7.45 €
	Ø 12 x 100 mm	0.15 mm	Ø 3.7 x 200 mm	300 mm	0 571 235	9.20 €	7.45 €
	Ø 15 x 100 mm	0.15 mm	Ø 4.6 x 200 mm	300 mm	0 571 236	9.50 €	7.65 €
	Ø 25 x 100 mm	0.15 mm	Ø 4.6 x 200 mm	300 mm	0 571 239	9.50 €	7.65 €

Jet brushes stainless steel shank with eyelets

	Head dimensions	Trimming Ø	Shank dimensions	Total length	Order No.	Price from	
						1 piece	10 pieces
Jet brush, cylinder, stainless steel shank with eyelets							
Nylon							
 <p>Very good elasticity, durability and resistance to solvents. For shining, polishing and cleaning. Can be used with compounds. What is special about these jet brushes is the stainless steel shank. This ensures that no corrosion forms when used with water.</p>	2 x 100 mm	0.08 mm	Ø 0.93 x 200 mm	300 mm	0 571 801	5.70 €	4.34 €
	3 x 100 mm	0.10 mm	Ø 1.50 x 200 mm	300 mm	0 571 802	5.80 €	4.38 €
	4 x 100 mm	0.10 mm	Ø 2.22 x 200 mm	300 mm	0 571 803	5.80 €	4.42 €
	5 x 100 mm	0.10 mm	Ø 2.22 x 200 mm	300 mm	0 571 804	5.90 €	4.47 €
	6 x 100 mm	0.10 mm	Ø 2.22 x 200 mm	300 mm	0 571 805	6.00 €	4.51 €
	8 x 100 mm	0.15 mm	Ø 2.22 x 200 mm	300 mm	0 571 806	6.10 €	4.57 €
	10 x 100 mm	0.15 mm	Ø 2.22 x 200 mm	300 mm	0 571 807	6.10 €	4.61 €
	12 x 100 mm	0.15 mm	Ø 2.22 x 200 mm	300 mm	0 571 808	6.20 €	4.66 €
	20 x 100 mm	0.15 mm	Ø 2.96 x 200 mm	300 mm	0 571 809	6.20 €	4.70 €
	30 x 100 mm	0.30 mm	Ø 3.33 x 200 mm	300 mm	0 571 810	6.30 €	4.74 €
	40 x 100 mm	0.30 mm	Ø 3.70 x 200 mm	300 mm	0 571 811	6.30 €	4.78 €
	60 x 100 mm	0.30 mm	Ø 3.70 x 200 mm	300 mm	0 571 812	6.40 €	4.82 €
	100 x 100 mm	0.30 mm	Ø 4.62 x 200 mm	300 mm	0 571 813	6.40 €	4.86 €



2 Pipe brushes nylon with silicon carbide

Pipe brushes


Pipe brushes are ideally suited for deburring and cleaning work in crossways drillings and insertions. The flexible trimming made of nylon or steel prevents breakage of the material even with the highest stress and deformation.

The pipe brushes are available in four different versions:

- nylon standard with silicon carbide
- nylon standard with corundum
- nylon-diamond
- steel without additional abrasive.

	Abrasive	Head dimensions	Shank dimensions	Total length	Order No.	Price from	
						1 piece	10 pieces
Nylon silicon carbide pipe brushes							
SiC							
 Using nylon pipe brushes smooths the surface and positively influences the latter for subsequent use. The twisted wire is zinc-coated. Linear use by hand and clockwise in machines.	SiC	Ø 0.7 x 12 mm	Ø 0.42 mm	100 mm	0 571 101	15.35 €	13.85 €
	SiC	Ø 1.2 x 12 mm	Ø 0.47 mm	100 mm	0 571 102	15.25 €	13.85 €
	SiC	Ø 1.9 x 18 mm	Ø 0.74 mm	100 mm	0 571 103	15.25 €	13.85 €
	SiC	Ø 2.2 x 18 mm	Ø 0.94 mm	100 mm	0 571 104	15.25 €	13.85 €
	SiC	Ø 2.6 x 25 mm	Ø 1.08 mm	100 mm	0 571 105	15.25 €	13.85 €
	SiC	Ø 3.2 x 25 mm	Ø 1.66 mm	100 mm	0 571 106	15.25 €	13.85 €
	SiC	Ø 3.5 x 25 mm	Ø 1.66 mm	100 mm	0 571 107	11.45 €	10.75 €
Nylon-corundum pipe brushes							
Corundum							
	Corundum	Ø 4.2 x 25 mm	Ø 2.2 mm	125 mm	0 571 108	10.95 €	10.20 €
	Corundum	Ø 4.8 x 25 mm	Ø 2.2 mm	125 mm	0 571 109	10.65 €	10.00 €
	Corundum	Ø 5.5 x 25 mm	Ø 2.2 mm	125 mm	0 571 110	10.45 €	9.90 €
	Corundum	Ø 6.6 x 25 mm	Ø 3 mm	125 mm	0 571 111	10.20 €	9.50 €
	Corundum	Ø 8.2 x 25 mm	Ø 3 mm	125 mm	0 571 112	10.00 €	9.50 €
	Corundum	Ø 9.8 x 25 mm	Ø 3.4 mm	125 mm	0 571 113	10.20 €	9.90 €
	Corundum	Ø 11.5 x 25 mm	Ø 3.4 mm	125 mm	0 571 114	10.45 €	10.00 €
	Corundum	Ø 13.0 x 25 mm	Ø 4.2 mm	125 mm	0 571 115	10.65 €	10.00 €
	Corundum	Ø 16.0 x 25 mm	Ø 4.2 mm	125 mm	0 571 116	15.25 €	13.85 €
	Corundum	Ø 17.5 x 25 mm	Ø 4.2 mm	125 mm	0 571 117	15.25 €	13.85 €
	Corundum	Ø 19.4 x 25 mm	Ø 5.6 mm	125 mm	0 571 118	15.35 €	13.85 €
	Corundum	Ø 22.6 x 25 mm	Ø 5.6 mm	125 mm	0 571 119	15.35 €	13.85 €
	Corundum	Ø 25.8 x 25 mm	Ø 6.2 mm	125 mm	0 571 120	15.35 €	13.85 €

Pipe brushes nylon with diamond

	Abrasive	Head dimensions	Shank dimensions	Total length	Order No.	Price from	
						1 piece	3 pieces
Nylon-diamond pipe brushes							
Diamond							
 <p>By the use of industrial diamonds, eminently suitable for processing tungsten carbide. The shank in zinc-coated twisted wire is additionally stabilised with a brass bush for brushes of Ø 4 mm and more. Suitable for manual and machine use.</p>	Diamond	Ø 2 x 20 mm	Ø 1 mm	100 mm	0 571 121	79.95 €	72.75 €
	Diamond	Ø 2.5 x 20 mm	Ø 1 mm	100 mm	0 571 122	83.75 €	76.35 €
	Diamond	Ø 3 x 20 mm	Ø 1.5 mm	100 mm	0 571 123	87.35 €	79.45 €
	Diamond	Ø 3.5 x 20 mm	Ø 1.5 mm	100 mm	0 571 124	90.45 €	82.10 €
	Diamond	Ø 4 x 20 mm	Ø 3 mm	115 mm	0 571 125	93.35 €	84.90 €
	Diamond	Ø 5 x 20 mm	Ø 3 mm	115 mm	0 571 126	98.40 €	89.35 €
	Diamond	Ø 6 x 20 mm	Ø 3 mm	115 mm	0 571 127	103.75 €	94.15 €
	Diamond	Ø 7 x 20 mm	Ø 3 mm	115 mm	0 571 128	107.15 €	97.35 €
	Diamond	Ø 8 x 20 mm	Ø 3 mm	115 mm	0 571 129	114.55 €	104.15 €
	Diamond	Ø 9 x 20 mm	Ø 3 mm	115 mm	0 571 130	120.55 €	109.40 €
	Diamond	Ø 10 x 20 mm	Ø 4 mm	115 mm	0 571 131	126.40 €	114.95 €
	Diamond	Ø 12 x 20 mm	Ø 6 mm	115 mm	0 571 132	130.55 €	118.35 €


Pipe brushes Steel

Pipe brushes

Pipe brushes are ideally suited for deburring and cleaning work in crossways drillings and insertions. The flexible trimming made of nylon or steel prevents breakage of the material even with the highest stress and deformation.

The pipe brushes are available in four different versions:

- nylon standard with silicon carbide
- nylon standard with corundum
- nylon-diamond
- steel without additional abrasive.

	Trimming	Head dimensions	Trimming Ø	Shank dimensions	Total length	Order No.	Price from	
							1 piece	10 pieces
Steel pipe brushes								
 <p>Brushes with steel trimming without additional abrasive. Ideal for simple deburring work.</p>	Stahl	Ø 6 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	0 571 170	6.00 €	5.20 €
	Stahl	Ø 8 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	0 571 171	6.00 €	5.20 €
	Stahl	Ø 10 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	0 571 172	6.60 €	5.70 €
	Stahl	Ø 11 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	0 571 173	6.60 €	5.70 €
	Stahl	Ø 13 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	0 571 174	6.80 €	6.00 €
	Stahl	Ø 14 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	0 571 175	6.80 €	6.00 €
	Stahl	Ø 16 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	0 571 176	7.25 €	6.60 €

Nylon honing brushes Novoflex-B

Nylon honing brushes Novoflex-B

An innovative tool for perfect results on surfaces or in bores. These silicon carbide abrasive balls have a flexible arrangement and therefore adapt to the processed surface – even in non-concentric bores. These brushes are useful for example for removing burr on all common materials. The Novoflex-B honing brushes leave a cross-grinding on the surface, which is the perfect carrier for an possible oil film. The surface is free from cold-shaped or deformed material. The only „hardware“ you need to work with these brushes is a conventional hand drill. Honing machines or cordless screwdrivers can be used for serial production.

Possible applications:

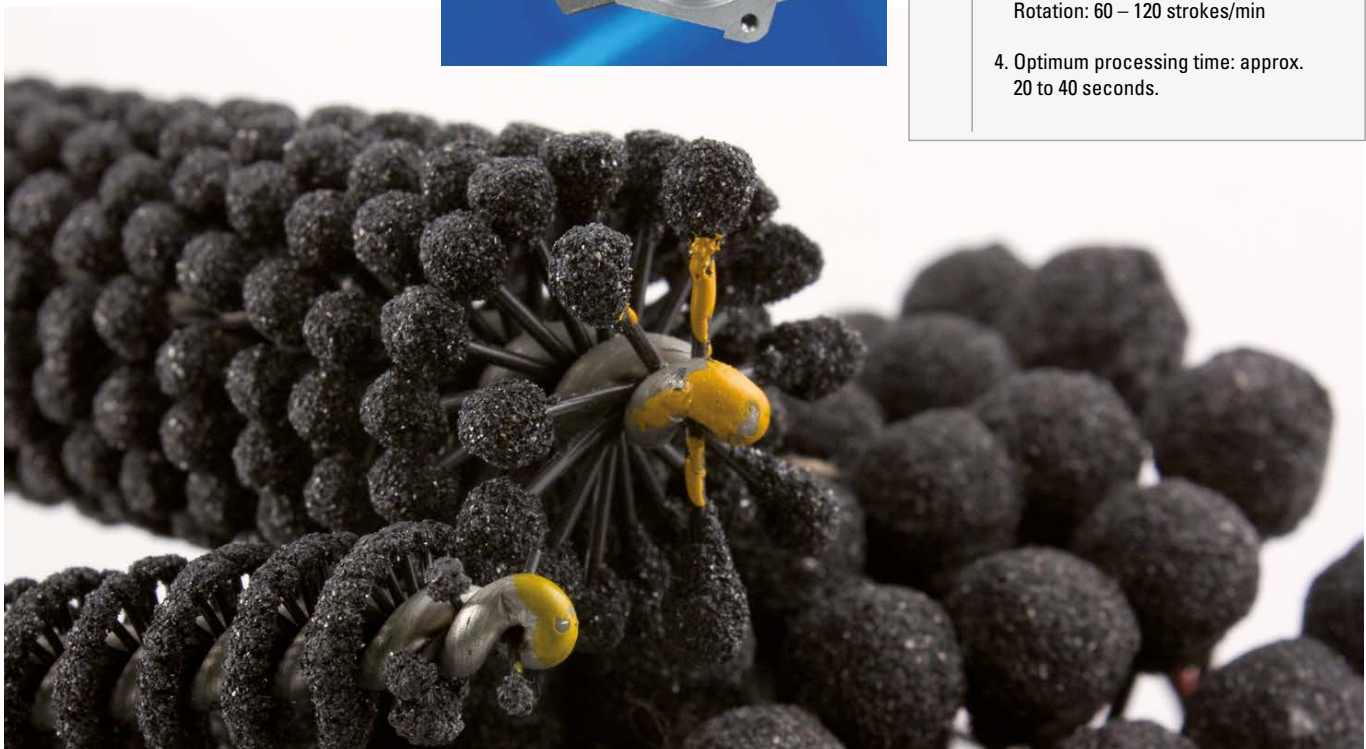
- Motor cylinders
- Drive rods
- Bores on shafts and crank levers
- Pneumatic and hydraulic cylinders
- Valve guides
- Compressed air units
- Wheel brake cylinders
- Brake control cylinders
- Pipes and hoses
- Many more applications in the automotive, aeronautics and aerospace construction and in the firearms industry.



Tip: jet and pipe brushes are best suited for bores < 8 mm (see pages 176 and 178)!




Important points for the use of Novoflex-B nylon honing brushes?

1. Always choose the brush diameter according to the bore. If the desired brush size is not available, use the next larger one.
2. Always use the brushes with oil with a viscosity between 10 and 30 or with special honing oil. We also recommend joke lubricant X 73012.
3. Recommended speed: 350 – 700 rpm;
Rotation: 60 – 120 strokes/min
4. Optimum processing time: approx. 20 to 40 seconds.



Nylon honing brushes

Novoflex-B

	For bore dimensions	Head dimensions	Grit size	Shank dimensions	Total length	Order No.	Price from 1 piece
Nylon honing brushes Novoflex-B							
	Ø 8 mm	Ø 9 x 50 mm	120	Ø 3.7 mm	200 mm	0 571 300	26.20 €
		Ø 9 x 50 mm	180	Ø 3.6 mm	200 mm	0 571 330	24.85 €
	Ø 10 mm	Ø 11 x 60 mm	120	Ø 3.7 mm	200 mm	0 571 301	27.85 €
		Ø 11 x 60 mm	180	Ø 3.6 mm	200 mm	0 571 331	26.20 €
	Ø 11 mm	Ø 12 x 60 mm	120	Ø 3.7 mm	200 mm	0 571 302	28.35 €
		Ø 12 x 60 mm	180	Ø 3.6 mm	200 mm	0 571 332	26.60 €
	Ø 12 mm	Ø 13 x 60 mm	120	Ø 3.7 mm	200 mm	0 571 303	28.95 €
		Ø 13 x 60 mm	180	Ø 3.6 mm	200 mm	0 571 333	27.10 €
	Ø 14 mm	Ø 15.5 x 60 mm	120	Ø 3.7 mm	200 mm	0 571 304	29.60 €
		Ø 15.5 x 60 mm	180	Ø 3.6 mm	200 mm	0 571 334	27.65 €
	Ø 16 mm	Ø 18 x 60 mm	120	Ø 4.6 mm	200 mm	0 571 305	31.35 €
		Ø 18 x 60 mm	180	Ø 4.6 mm	200 mm	0 571 335	29.50 €
	Ø 18 mm	Ø 20 x 60 mm	120	Ø 4.6 mm	200 mm	0 571 306	31.95 €
		Ø 20 x 60 mm	180	Ø 4.6 mm	200 mm	0 571 336	31.95 €
	Ø 20 mm	Ø 22 x 70 mm	120	Ø 4.6 mm	200 mm	0 571 307	32.35 €
		Ø 22 x 70 mm	180	Ø 4.6 mm	200 mm	0 571 337	30.50 €
	Ø 22 mm	Ø 25 x 70 mm	120	Ø 4.6 mm	200 mm	0 571 308	33.80 €
		Ø 25 x 70 mm	180	Ø 4.6 mm	200 mm	0 571 338	33.80 €
	Ø 24 mm	Ø 27 x 70 mm	120	Ø 5.1 mm	200 mm	0 571 309	34.85 €
		Ø 27 x 70 mm	180	Ø 5.1 mm	200 mm	0 571 339	34.85 €
	Ø 25 mm	Ø 28 x 70 mm	120	Ø 5.1 mm	200 mm	0 571 310	35.85 €
		Ø 28 x 70 mm	180	Ø 5.1 mm	200 mm	0 571 340	33.80 €
	Ø 27 mm	Ø 30 x 70 mm	120	Ø 5.1 mm	200 mm	0 571 311	37.00 €
		Ø 30 x 70 mm	180	Ø 5.1 mm	200 mm	0 571 341	37.00 €
	Ø 29 mm	Ø 32 x 70 mm	120	Ø 5.1 mm	200 mm	0 571 312	38.05 €
		Ø 32 x 70 mm	180	Ø 5.1 mm	200 mm	0 571 342	38.05 €
	Ø 32 mm	Ø 35 x 70 mm	120	Ø 5.1 mm	200 mm	0 571 313	40.10 €
		Ø 35 x 70 mm	180	Ø 5.7 mm	200 mm	0 571 343	40.10 €
	Ø 35 mm	Ø 38 x 70 mm	120	Ø 5.7 mm	200 mm	0 571 314	41.95 €
		Ø 38 x 70 mm	180	Ø 5.7 mm	200 mm	0 571 344	41.95 €
	Ø 38 mm	Ø 41 x 70 mm	120	Ø 5.7 mm	200 mm	0 571 315	43.80 €
		Ø 41 x 70 mm	180	Ø 5.7 mm	200 mm	0 571 345	43.80 €
	Ø 42 mm	Ø 45 x 70 mm	120	Ø 5.7 mm	200 mm	0 571 316	45.55 €
		Ø 45 x 70 mm	180	Ø 5.7 mm	200 mm	0 571 346	45.55 €
	Ø 45 mm	Ø 48 x 70 mm	120	Ø 5.7 mm	200 mm	0 571 317	47.40 €
		Ø 48 x 70 mm	180	Ø 5.7 mm	200 mm	0 571 347	47.40 €


In order to avoid blunders...

...the honing brushes are colour-coded to distinguish between the grit sizes:

Grit 120 = yellow
 Grit 180 = red

1
2
3
4
5
6
7



Grinding points




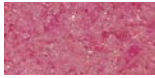

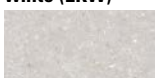
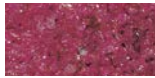






The maximum permissible speeds depending on the cutting speed:

\emptyset	V_c 35 m/s	V_c 50 m/s
4 mm	170.000 1/min	240.000 1/min
6 mm	110.000 1/min	160.000 1/min
8 mm	80.000 1/min	120.000 1/min
10 mm	65.000 1/min	95.000 1/min
12 mm	55.000 1/min	80.000 1/min
20 mm	33.000 1/min	47.000 1/min

Grinding points Overview

-  very well suited
-  suitable

	Cast iron, malleable cast iron	Steel, cast steel	Alloyed/hardened and tempered steels	High and highest alloyed steels	Welding seams on alloyed and non-alloyed steels	Hardened tool steels	Hard chrome-plated steels	Titanium, cobalt and nickel alloys	Glass/ceramic/carbide metal	Aluminium/soft non-ferrous metals
AWCO grinding points  184										
Aluminium oxide fibre grinding points  186										
Silicon carbide for aluminium (SiC-Alu)  187										
High-grade corundum pink (EKR)  188										
High-grade corundum white-brown (EKWbr)  193										
High-grade corundum white (EKW)  194										
High-grade corundum dark red (EKD)  195										
Blue Stones  196										
VORTEX  198										
NORTON  199										
Fibre-laminated grinding and polishing points  200										

Grinding points AWCO
















shank Ø 3 x 30 mm, mm, hardness J

Grinding points AWCO


The ideal points for regrinding repair weldings. Produced from ceramic bond with a mixture of white high-grade corundum and blue ceramic sintered corundum. This material combination results in extraordinarily high chip removal rates with an excellent service life.

The advantages:

- cool cutting owing to friability of the grit mixture
- high stock removal rates with a very good service life
- self-sharpening effect of the sintered corundum for consistent stock removal rates




	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
AWCO grinding points, shank Ø 3 x 30 mm										
cylinder										
	Ø 1 x 5 mm	J	320	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 421	3.97 €	3.66 €	3.44 €
	Ø 1.5 x 8 mm	J	320	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 422	3.97 €	3.66 €	3.44 €
	Ø 1.7 x 8 mm	J	320	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 423	3.97 €	3.66 €	3.44 €
	Ø 2 x 5 mm	J	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 424	2.53 €	2.34 €	2.21 €
	Ø 3 x 6 mm	J	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 427	2.27 €	2.08 €	1.95 €
		J	120	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 428	2.27 €	2.08 €	1.95 €
	Ø 4 x 8 mm	J	60	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 429	2.27 €	2.08 €	1.95 €
		J	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 430	2.27 €	2.08 €	1.95 €
	Ø 5 x 10 mm	J	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 431	2.27 €	2.08 €	1.95 €
		J	60	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 432	2.27 €	2.08 €	1.95 €
	Ø 6 x 13 mm	J	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 433	2.27 €	2.08 €	1.95 €
		J	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 434	2.27 €	2.08 €	1.95 €
	Ø 8 x 16 mm	J	60	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 436	2.38 €	2.21 €	2.08 €
		J	46	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 439	2.29 €	2.11 €	1.97 €
		J	60	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 440	2.29 €	2.11 €	1.97 €
		J	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 441	2.29 €	2.11 €	1.97 €
sphere										
	Ø 3 mm	J	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 447	2.53 €	2.34 €	2.21 €
	Ø 6 mm	J	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 449	2.61 €	2.39 €	2.27 €
	Ø 8 mm	J	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 452	2.75 €	2.52 €	2.39 €
wheel										
	Ø 13 x 3 mm	J	46	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 442	2.36 €	2.19 €	2.04 €
		J	60	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 443	2.36 €	2.19 €	2.04 €
	Ø 20 x 6 mm	J	46	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 444	2.51 €	2.32 €	2.20 €
		J	60	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 445	2.51 €	2.32 €	2.20 €
tree with pointed end										
	Ø 3 x 6 mm	J	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 455	2.59 €	2.38 €	2.26 €
	Ø 4 x 8 mm	J	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 458	2.66 €	2.44 €	2.31 €

matching set

	Order No.	Price from	
		1 set	
Set of grinding points AWCO			
	Contents: 12 pieces	0 542 420	29.15 €

Grinding points AWCO

Ø 6 x 40 mm, hardness J

	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
AWCO grinding points, shank Ø 6 x 40 mm										
cylinder										
	☒ Ø 8 x 16 mm	J	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 471	2.29 €	2.11 €	1.97 €
	☒ Ø 10 x 13 mm	J	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 473	2.34 €	2.17 €	2.03 €
	☒ Ø 10 x 20 mm	J	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 475	2.59 €	2.38 €	2.26 €
	☒ Ø 13 x 25 mm	J	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 477	2.97 €	2.75 €	2.59 €
	☒ Ø 16 x 20 mm	J	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 479	2.82 €	2.61 €	2.45 €
	☒ Ø 16 x 32 mm	J	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 481	3.19 €	2.95 €	2.78 €
	☒ Ø 20 x 25 mm	J	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 483	3.05 €	2.80 €	2.65 €
	☒ Ø 20 x 40 mm	J	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 485	3.97 €	3.66 €	3.44 €
sphere										
	☒ Ø 13 mm	J	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 491	2.94 €	2.72 €	2.54 €
tree with pointed end										
	☒ Ø 13 x 20 mm	J	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 494	3.36 €	3.09 €	2.90 €

↓ *matching set*

	Order No.	Price from	
		1 set	
Set of AWCO grinding points			
	Contents: 10 pieces	0 542 470	29.30 €



i Right diameter but wrong grit size?
 Many other grit sizes on request.
 Please consult **Markus Abstoß**:
 Tel. +49 (0) 22 04 / 8 39-0 • m.abstoss@joke.de

2 Aluminium oxide fibre grinding points

shank Ø 3 x 30 mm

Aluminium oxide fibre grinding points

- Deburring and chamfering of cross holes
- Removing burr at the bottom of blind holes
- Precision removal of fine burr
- Self-sharpening without grinding dust
- High edge stability and dimensional stability for extended service life
- Elastic shank with high bending radius (2 mm)
- Range of different grit sizes
- Versatile application areas
- Use by hand and machine (processing centres, special machines, drilling machines, with robots, etc.)



	Head dimensions	Collar dimensions	Grit size	Colour	Shank dimensions	Rotation speed max.	Order No.	Price from		
								1 piece	3 pieces	5 pieces
Aluminium oxide fibre grinding points, shank Ø 3 mm										
cylinder										
	Ø 3 x 3 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6,000 1/min	0 425 181	23.80 €	21.75 €	20.00 €
		Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6,000 1/min	0 425 182	23.80 €	21.75 €	20.00 €
		Ø 1.5 x 40 mm	# 800	blue	Ø 3 x 30 mm	6,000 1/min	0 425 183	23.80 €	21.75 €	20.00 €
	Ø 4 x 4 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6,000 1/min	0 425 184	28.35 €	26.00 €	23.70 €
		Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6,000 1/min	0 425 185	28.35 €	26.00 €	23.70 €
		Ø 1.5 x 40 mm	# 400	blue	Ø 3 x 30 mm	6,000 1/min	0 425 186	28.35 €	26.00 €	23.70 €
	Ø 5 x 5 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6,000 1/min	0 425 187	31.25 €	28.65 €	26.00 €
		Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6,000 1/min	0 425 188	31.25 €	28.65 €	26.00 €
		Ø 1.5 x 40 mm	# 800	blue	Ø 3 x 30 mm	6,000 1/min	0 425 189	31.25 €	28.65 €	26.00 €
sphere										
	Ø 3 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6,000 1/min	0 425 161	23.80 €	21.75 €	20.00 €
		Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6,000 1/min	0 425 162	23.80 €	21.75 €	20.00 €
		Ø 1.5 x 40 mm	# 800	blue	Ø 3 x 30 mm	6,000 1/min	0 425 163	23.80 €	21.75 €	20.00 €
	Ø 4 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6,000 1/min	0 425 164	28.35 €	26.00 €	23.70 €
		Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6,000 1/min	0 425 165	28.35 €	26.00 €	23.70 €
		Ø 1.5 x 40 mm	# 800	blue	Ø 3 x 30 mm	6,000 1/min	0 425 166	28.35 €	26.00 €	23.70 €
	Ø 5 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6,000 1/min	0 425 167	31.25 €	28.65 €	26.00 €
		Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6,000 1/min	0 425 168	31.25 €	28.65 €	26.00 €
		Ø 1.5 x 40 mm	# 800	blue	Ø 3 x 30 mm	6,000 1/min	0 425 169	31.25 €	28.65 €	26.00 €
	Ø 6 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6,000 1/min	0 425 170	34.20 €	31.45 €	28.55 €
		Ø 1.5 x 40 mm	# 220	orange	Ø 3 x 30 mm	6,000 1/min	0 425 171	34.20 €	31.45 €	28.55 €
		Ø 1.5 x 40 mm	# 220	blue	Ø 3 x 30 mm	6,000 1/min	0 425 172	34.20 €	31.45 €	28.55 €
	Ø 10 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6,000 1/min	0 425 173	40.90 €	37.70 €	34.20 €

Grinding points SiC-Alu shank Ø 3 x 30 mm and 6 x 40 mm

Grinding points SiC-Alu

These grinding points were especially developed for processing aluminium. The high plasticity of aluminium means that if the wrong grinding points are used, „smearing“ and „clogging“ of the tool occurs.

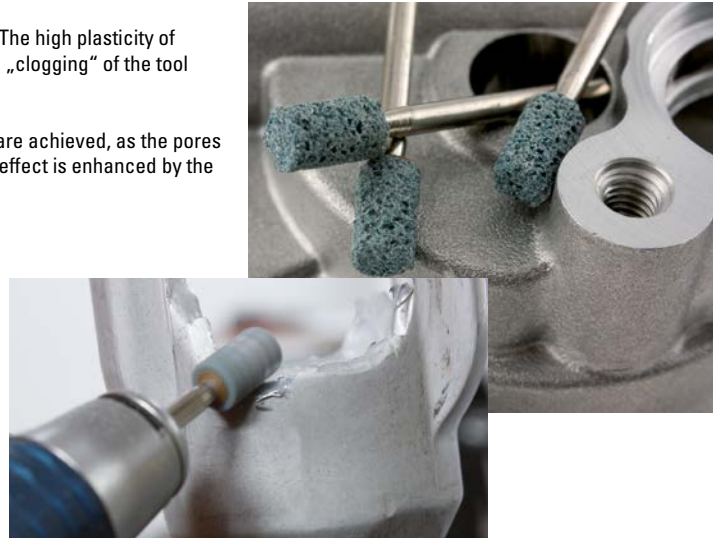
Owing to their special structural configuration, extremely long service lives are achieved, as the pores of the points do not become clogged during processing. The selfsharpening effect is enhanced by the special impregnation of these grinding points.



Particularly suitable for:

- non-ferrous metals (especially aluminium)
- hard-chromium plated steels
- high and highest-alloyed steels


Also suitable for:

- tempered and hardened steels
- soft non-ferrous metals








	Head dimensions	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
							1 piece	20 pieces	50 pieces
SiC-Alu grinding points, shank Ø 3 x 30 mm									
cylinder									
	Ø 4 x 8 mm	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 501	2.16 €	2.00 €	1.86 €
	Ø 5 x 10 mm	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 502	2.16 €	2.00 €	1.86 €
	Ø 6 x 10 mm	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 503	2.12 €	1.98 €	1.83 €
	Ø 8 x 10 mm	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 504	2.18 €	2.04 €	1.88 €
	Ø 10 x 10 mm	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 505	2.18 €	2.04 €	1.88 €
SiC-Alu grinding points, shank Ø 6 x 40 mm									
cylinder									
	Ø 10 x 13 mm	80	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 506	2.15 €	1.99 €	1.84 €
	Ø 16 x 32 mm	80	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 511	2.86 €	2.65 €	2.46 €
	Ø 20 x 25 mm	80	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 513	2.80 €	2.59 €	2.40 €

matching set

	Order No.	Price from 1 set
Set of grinding points SiC-Alu		
 <p>The set consists of the following five cylindrical grinding points with a grit size of SiC 80, shank Ø 3 x 30 mm:</p> <ul style="list-style-type: none"> • Cylinder, Ø 4 x 8 mm, (order no. 0 542 501) • Cylinder, Ø 5 x 10 mm, (order no. 0 542 502) • Cylinder, Ø 6 x 10 mm, (order no. 0 542 503) • Cylinder, Ø 8 x 10 mm, (order no. 0 542 504) • Cylinder, Ø 10 x 10 mm, (order no. 0 542 505) <p>The grinding points are particularly suitable for processing aluminium and hard chrome-plated steels as well as high-alloy and ultra high alloy steels. They are also suitable for annealed and hardened steels and for soft non-ferrous metals.</p>	0 542 530	17.45 €







Grinding points EKR

shank \varnothing 2,35 x 40 mm, hardness N

	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
EKR grinding points, shank \varnothing 2.35 x 40 mm										
cylinder										
	\varnothing 2 x 5 mm	N	120	\varnothing 2.35 x 40 mm	50 m/s	10 pieces	0 542 101	2.06 €	1.89 €	1.78 €
	\varnothing 3 x 6 mm	N	100	\varnothing 2.35 x 40 mm	50 m/s	10 pieces	0 542 102	2.06 €	1.89 €	1.78 €
	\varnothing 4 x 8 mm	N	80	\varnothing 2.35 x 40 mm	50 m/s	10 pieces	0 542 103	2.06 €	1.89 €	1.78 €
	\varnothing 6 x 10 mm	N	80	\varnothing 2.35 x 40 mm	50 m/s	10 pieces	0 542 105	2.38 €	2.16 €	2.06 €
wheel										
	\varnothing 10 x 3 mm	N	100	\varnothing 2.35 x 40 mm	50 m/s	10 pieces	0 542 107	3.19 €	2.93 €	2.75 €
sphere										
	\varnothing 5 mm	N	100	\varnothing 2.35 x 40 mm	50 m/s	10 pieces	0 542 114	2.62 €	2.42 €	2.28 €
	\varnothing 8 mm	N	80	\varnothing 2.35 x 40 mm	50 m/s	10 pieces	0 542 115	2.93 €	2.68 €	2.54 €

Grinding points EKR
























shank \varnothing 3 x 30 mm, hardness N

	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
EKR grinding points, shank \varnothing 3 x 30 mm										
cylinder										
	\varnothing 2 x 5 mm	N	120	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 542 131	1.29 €	1.19 €	1.09 €
	\varnothing 2.5 x 6 mm	N	100	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 540 922	2.06 €	1.89 €	1.78 €
	\varnothing 3 x 6 mm	N	100	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 542 132	1.13 €	0.98 €	0.92 €
	\varnothing 4 x 8 mm	N	80	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 542 133	1.21 €	1.04 €	0.97 €
	\varnothing 5 x 6 mm	N	80	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 540 923	1.99 €	1.83 €	1.73 €
	\varnothing 5 x 10 mm	N	80	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 542 134	1.28 €	1.10 €	1.02 €
	\varnothing 6 x 6 mm	N	60	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 540 924	1.99 €	1.83 €	1.73 €
	\varnothing 6 x 10 mm	N	80	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 542 135	1.35 €	1.17 €	1.08 €

Grinding points EKR











shank Ø 3 x 30 mm, hardness N



	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
pointed cylinder										
	Ø 5 x 7 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 932	2.20 €	2.00 €	1.88 €
	Ø 8 x 10 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 140	2.38 €	2.20 €	2.04 €
wheel										
	Ø 4 x 1 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 904	2.36 €	2.19 €	2.02 €
	Ø 5 x 3 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 905	2.36 €	2.19 €	2.01 €
	Ø 8 x 2 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 903	2.36 €	2.19 €	2.02 €
	Ø 9 x 2 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 901	2.36 €	2.19 €	2.02 €
	Ø 9 x 3 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 902	2.36 €	2.19 €	2.02 €
	Ø 10 x 5 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 139	3.06 €	2.80 €	2.62 €
conical										
	Ø 3.3 / 2.2 x 6.4 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 929	1.99 €	1.83 €	1.73 €
	Ø 4.4 / 3 x 10 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 930	1.99 €	1.83 €	1.73 €
	Ø 7 / 3.5 x 6 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 906	2.06 €	1.89 €	1.76 €
cone										
	Ø 6 x 11 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 936	1.64 €	1.48 €	1.32 €
	Ø 8 x 8 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 149	3.31 €	3.06 €	2.87 €
	Ø 10 x 10 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 150	2.36 €	2.19 €	2.04 €
trapeze										
	Ø 3.2 / 2 x 4 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 910	1.99 €	1.83 €	1.73 €
	Ø 5 / 2 x 2.5 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 907	1.99 €	1.83 €	1.73 €
	Ø 5 / 3 x 5 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 911	1.99 €	1.83 €	1.73 €
	Ø 7 / 5 x 6 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 912	1.99 €	1.83 €	1.73 €
	Ø 8 / 3.5 x 4 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 909	1.99 €	1.83 €	1.73 €
tree with pointed end										
	Ø 4.3 x 7 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 934	2.20 €	2.00 €	1.88 €
	Ø 5 x 10 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 542 147	2.44 €	2.27 €	2.07 €
	Ø 6 x 8 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 933	2.20 €	2.00 €	1.88 €
	Ø 6 x 10 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	0 540 935	2.39 €	2.20 €	2.05 €

Grinding points EKR

shank \varnothing 3 x 30 mm, hardness N

	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	1 piece	20 pieces	50 pieces
barrel										
	\varnothing 4 x 5 mm	N	80	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 540 917	2.18 €	1.99 €	1.87 €
	\varnothing 6 x 8 mm	N	80	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 540 918	1.99 €	1.83 €	1.73 €
rhombus										
	\varnothing 7 x 5 mm	N	100	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 540 920	2.39 €	2.21 €	2.05 €
mushroom										
	\varnothing 8 x 1.6 mm	N	100	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 540 921	2.24 €	2.05 €	1.90 €
sphere										
	\varnothing 3 mm	N	100	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 540 913	1.95 €	1.80 €	1.70 €
	\varnothing 4 mm	N	80	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 540 914	1.95 €	1.80 €	1.70 €
	\varnothing 5 mm	N	80	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 540 915	2.24 €	2.05 €	1.90 €
	\varnothing 8 mm	N	80	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 542 145	1.41 €	1.23 €	1.14 €
	\varnothing 10 mm	N	60	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 542 146	1.54 €	1.36 €	1.26 €
wheel										
	\varnothing 5 x 1.5 mm	N	100	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 540 925	2.38 €	2.20 €	2.05 €
	\varnothing 6 x 2.5 mm	N	100	\varnothing 3 x 30 mm	50 m/s	10 pieces	0 540 926	2.33 €	2.15 €	1.99 €





 *matching set*

	Order No.	Price from
Set of grinding points EKR		1 set
	Contents: 36 pieces	0 540 900 87.60 €

Grinding points EKR





shank Ø 6 x 40 mm, hardness N

 1
2
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	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
EKR grinding points, shank Ø 6 x 40 mm										
cylinder										
	Ø 4 x 8 mm	N	80	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 702	2.20 €	2.00 €	1.88 €
	Ø 5 x 10 mm	N	80	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 703	2.20 €	2.00 €	1.88 €
	Ø 6 x 10 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 704	1.19 €	1.14 €	1.10 €
	Ø 8 x 10 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 705	2.11 €	1.91 €	1.80 €
	Ø 8 x 16 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 706	1.19 €	1.14 €	1.10 €
	Ø 10 x 10 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 707	2.11 €	1.91 €	1.80 €
	Ø 10 x 20 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 708	1.29 €	1.25 €	1.21 €
	Ø 13 x 13 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 710	2.15 €	1.97 €	1.82 €
	Ø 13 x 20 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 711	2.44 €	2.27 €	2.07 €
	Ø 16 x 16 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 712	2.33 €	2.15 €	1.99 €
	Ø 16 x 20 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 713	2.44 €	2.27 €	2.07 €
	Ø 16 x 32 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 714	1.65 €	1.54 €	1.44 €
	Ø 20 x 20 mm	N	36	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 715	2.62 €	2.42 €	2.26 €
	Ø 20 x 25 mm	N	36	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 716	1.58 €	1.43 €	1.29 €
Ø 20 x 40 mm	N	36	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 718	3.45 €	3.19 €	2.99 €	
sphere										
	Ø 8 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 747	1.91 €	1.73 €	1.59 €
	Ø 10 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 736	2.75 €	2.54 €	2.37 €
	Ø 16 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 738	1.75 €	1.66 €	1.60 €
	Ø 20 mm	N	36	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 739	2.02 €	1.87 €	1.76 €
cone										
	Ø 16 x 32 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 742	3.45 €	3.14 €	2.99 €
	Ø 16 x 40 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 743	2.71 €	2.57 €	2.40 €
	Ø 20 x 32 mm	N	36	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 744	2.17 €	1.89 €	1.78 €
	Ø 20 x 40 mm	N	36	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 745	4.21 €	3.88 €	3.58 €
wheel										
	Ø 25 x 6 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 728	2.50 €	2.32 €	2.17 €
	Ø 32 x 8 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 730	2.80 €	2.54 €	2.44 €
	Ø 40 x 10 mm	N	30	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 731	3.06 €	2.80 €	2.62 €
	Ø 40 x 20 mm	N	30	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 724	3.51 €	3.24 €	3.06 €

Grinding points EKR

shank \varnothing 3 x 40/60 mm, hardness N • Shanks made from rustproof steel

	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
EKR grinding points, shank \varnothing 3 x 40 mm, rustproof steel										
cylinder										
	\varnothing 2 x 5 mm	N	60	\varnothing 3 x 40 mm	35 m/s	10 pieces	0 542 651	3.44 €	3.19 €	2.76 €
		N	60	\varnothing 3 x 60 mm	35 m/s	10 pieces	0 542 661	4.66 €	4.30 €	3.72 €
	\varnothing 3 x 5 mm	N	60	\varnothing 3 x 40 mm	35 m/s	10 pieces	0 542 652	3.47 €	3.20 €	2.77 €
		N	60	\varnothing 3 x 60 mm	35 m/s	10 pieces	0 542 662	4.71 €	4.34 €	3.76 €
	\varnothing 4 x 8 mm	N	60	\varnothing 3 x 40 mm	35 m/s	10 pieces	0 542 653	2.94 €	2.73 €	2.35 €
		N	60	\varnothing 3 x 60 mm	35 m/s	10 pieces	0 542 663	4.17 €	3.84 €	3.34 €
	\varnothing 5 x 10 mm	N	60	\varnothing 3 x 40 mm	35 m/s	10 pieces	0 542 654	2.96 €	2.75 €	2.37 €
		N	60	\varnothing 3 x 60 mm	35 m/s	10 pieces	0 542 664	4.20 €	3.87 €	3.36 €
	\varnothing 6 x 10 mm	N	60	\varnothing 3 x 40 mm	35 m/s	10 pieces	0 542 655	3.14 €	2.90 €	2.49 €
		N	60	\varnothing 3 x 60 mm	35 m/s	10 pieces	0 542 665	4.31 €	4.00 €	3.44 €
	\varnothing 7 x 10 mm	N	60	\varnothing 3 x 40 mm	35 m/s	10 pieces	0 542 656	3.36 €	3.10 €	2.69 €
	\varnothing 7 x 70 mm	N	60	\varnothing 3 x 60 mm	35 m/s	10 pieces	0 542 666	4.44 €	4.10 €	3.54 €
sphere										
	\varnothing 5 mm	N	60	\varnothing 3 x 60 mm	35 m/s	10 pieces	0 542 677	4.58 €	4.24 €	3.67 €
	\varnothing 6 mm	N	60	\varnothing 3 x 60 mm	35 m/s	10 pieces	0 542 678	4.88 €	4.53 €	3.92 €
cone										
	\varnothing 6 x 10 mm	N	60	\varnothing 3 x 60 mm	35 m/s	10 pieces	0 542 680	4.58 €	4.24 €	3.67 €
tree with pointed end										
	\varnothing 3 x 6 mm	N	60	\varnothing 3 x 60 mm	35 m/s	10 pieces	0 542 679	3.63 €	3.36 €	2.90 €




Why rustproof shanks?

These points have shanks made of rustproof steel. They are mainly used in the food and chemical industry.

Blowing pen

A must for every workplace!














Possibly the smallest blowing pen in the world. It weighs a mere 20 g and regulates the compressed air perfectly. The small aperture of 3 mm ensures that the air really only goes where it should. A must for every workplace!

	Order No.	Price from
		1 piece
Blowing pen		
 <p>For direct connection to a rapid coupling system. Dimensions: \varnothing12.5 x 108 mm Weight: 20 g</p>	0 203 200	22.70 €

Grinding points EKWbr


shank Ø 3 x 30 mm, hardness O/P



	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
EKWbr grinding points, shank Ø 3 x 30 mm										
cylinder										
	Ø 3 x 6 mm	O/P	100	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 401	1.98 €	1.83 €	1.73 €
	Ø 4 x 8 mm	O/P	80	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 402	1.98 €	1.83 €	1.73 €
	Ø 5 x 10 mm	O/P	80	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 403	1.98 €	1.83 €	1.73 €
	Ø 6 x 10 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 404	1.98 €	1.83 €	1.73 €
	Ø 8 x 10 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 405	1.90 €	1.79 €	1.69 €
	Ø 10 x 10 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 406	1.85 €	1.73 €	1.60 €
	Ø 10 x 13 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 407	1.95 €	1.81 €	1.71 €
	Ø 10 x 15 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 408	2.02 €	1.86 €	1.75 €
	Ø 13 x 13 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 409	1.95 €	1.81 €	1.71 €
	Ø 13 x 16 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 410	2.42 €	2.24 €	2.07 €
wheel										
	Ø 13 x 3 mm	O/P	80	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 412	1.90 €	1.79 €	1.69 €
	Ø 16 x 4 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 413	2.02 €	1.86 €	1.75 €
	Ø 20 x 6 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	0 542 414	2.26 €	2.07 €	1.93 €





Grinding points EKW

shank Ø 3 x 40 mm, hardness N

	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
EKW grinding points, shank Ø 3 x 40 mm										
cylinder										
	Ø 2 x 5 mm	N	80	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 601	2.72 €	2.48 €	2.35 €
	Ø 3 x 5 mm	N	80	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 602	2.65 €	2.50 €	2.34 €
	Ø 4 x 8 mm	N	80	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 603	2.32 €	2.16 €	2.03 €
	Ø 5 x 10 mm	N	80	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 604	2.36 €	2.18 €	2.05 €
	Ø 6 x 10 mm	N	80	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 605	2.44 €	2.26 €	2.14 €
	Ø 7 x 10 mm	N	80	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 606	2.50 €	2.31 €	2.22 €

Grinding points EKW

shank Ø 3 x 40/60 mm, hardness N, shanks made from rustproof steel

	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
EKW grinding points, shank Ø 3 x 40/60 mm, rustproof steel										
cylinder										
	Ø 2 x 5 mm	N	80	Ø 3 x 40 mm	35 m/s	10 pieces	0 542 631	3.44 €	3.19 €	2.76 €
		N	80	Ø 3 x 60 mm	35 m/s	10 pieces	0 542 641	4.66 €	4.30 €	3.72 €
	Ø 3 x 5 mm	N	80	Ø 3 x 40 mm	35 m/s	10 pieces	0 542 632	3.47 €	3.20 €	2.77 €
	Ø 4 x 8 mm	N	80	Ø 3 x 40 mm	35 m/s	10 pieces	0 542 633	2.94 €	2.73 €	2.35 €
		N	80	Ø 3 x 60 mm	35 m/s	10 pieces	0 542 643	4.17 €	3.84 €	3.34 €
	Ø 5 x 10 mm	N	80	Ø 3 x 40 mm	35 m/s	10 pieces	0 542 634	2.96 €	2.75 €	2.37 €
		N	80	Ø 3 x 60 mm	35 m/s	10 pieces	0 542 644	4.20 €	3.87 €	3.36 €
	Ø 6 x 10 mm	N	80	Ø 3 x 40 mm	35 m/s	10 pieces	0 542 635	3.14 €	2.90 €	2.49 €
	Ø 7 x 10 mm	N	80	Ø 3 x 40 mm	35 m/s	10 pieces	0 542 636	3.36 €	3.10 €	2.69 €
sphere										
	Ø 3 mm	N	80	Ø 3 x 60 mm	35 m/s	10 pieces	0 542 671	4.51 €	4.17 €	3.61 €
	Ø 5 mm	N	80	Ø 3 x 60 mm	35 m/s	10 pieces	0 542 672	4.58 €	4.24 €	3.67 €
	Ø 6 mm	N	80	Ø 3 x 60 mm	35 m/s	10 pieces	0 542 673	4.88 €	4.53 €	3.92 €
cone										
	Ø 6 x 10 mm	N	80	Ø 3 x 60 mm	35 m/s	10 pieces	0 542 675	4.58 €	4.24 €	3.67 €
tree with pointed end										
	Ø 3 x 6 mm	N	80	Ø 3 x 60 mm	35 m/s	10 pieces	0 542 674	3.87 €	3.59 €	3.12 €



Why rustproof shanks?

These points have shanks made of rustproof steel. They are mainly used in the food and chemical industry.

Grinding points EKD

shank Ø 3 x 40 mm, hardness N



	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
EKD grinding points, shank Ø 3 x 40 mm										
cylinder										
	Ø 2 x 5 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 331	2.33 €	2.17 €	1.99 €
	Ø 4 x 8 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 332	2.19 €	2.02 €	1.88 €
	Ø 5 x 10 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 333	2.19 €	2.02 €	1.88 €
	Ø 8 x 10 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 334	1.98 €	1.83 €	1.73 €
pointed cylinder										
	Ø 7 x 12 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 340	2.24 €	2.05 €	1.90 €
rounded cylinder										
	Ø 3 x 6 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 347	2.42 €	2.24 €	2.07 €
	Ø 4 x 8 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 348	2.42 €	2.24 €	2.07 €
	Ø 6 x 10 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 341	2.33 €	2.17 €	1.99 €
	Ø 6 x 12 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 342	2.33 €	2.17 €	1.99 €
wheel										
	Ø 10 x 2 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 336	2.24 €	2.05 €	1.90 €
	Ø 10 x 5 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 337	2.02 €	1.86 €	1.75 €
mushroom										
	Ø 10 x 2 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 338	3.14 €	2.87 €	2.62 €
cone										
	Ø 5 x 10 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 339	2.35 €	2.19 €	2.01 €
sphere										
	Ø 5 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 344	2.46 €	2.27 €	2.12 €
	Ø 8 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 345	2.46 €	2.27 €	2.12 €
	Ø 10 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 346	2.42 €	2.24 €	2.07 €
cone										
	Ø 8 x 8 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 349	3.19 €	2.88 €	2.71 €
	Ø 10 x 10 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	0 542 350	2.38 €	2.21 €	2.05 €

matching set













	Order No.	Price from
Set of grinding points EKD		1 set
	0 542 330	48.25 €

Contents: 18 pieces




Grinding points Blue Stones

shank \varnothing 3 x 40 mm, hardness QU





	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
Blue Stones grinding points, shank \varnothing 3 x 40 mm										
cylinder										
	\varnothing 2 x 5 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 778	1.27 €	1.15 €	0.99 €
	\varnothing 3 x 6 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 779	1.32 €	1.25 €	1.04 €
	\varnothing 4 x 8 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 780	1.35 €	1.28 €	1.06 €
	\varnothing 5 x 6 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 781	1.35 €	1.28 €	1.06 €
	\varnothing 5 x 10 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 782	1.40 €	1.32 €	1.10 €
	\varnothing 6 x 6 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 783	1.40 €	1.32 €	1.10 €
	\varnothing 6 x 10 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 784	1.40 €	1.32 €	1.10 €
	\varnothing 8 x 10 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 785	1.40 €	1.32 €	1.10 €
	\varnothing 10 x 10 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 786	1.45 €	1.38 €	1.14 €
wheel										
	\varnothing 4 x 1.6 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 787	2.02 €	1.89 €	1.60 €
	\varnothing 8 x 1.6 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 788	1.40 €	1.32 €	1.10 €
	\varnothing 13 x 3 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 789	1.29 €	1.19 €	1.01 €
	\varnothing 13 x 6 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 790	1.43 €	1.34 €	1.10 €
tree with pointed end										
	\varnothing 3 x 6 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 774	2.12 €	1.98 €	1.70 €
	\varnothing 5 x 10 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 773	1.86 €	1.76 €	1.46 €
sphere										
	\varnothing 3 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 775	1.56 €	1.45 €	1.25 €
	\varnothing 5 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 776	1.56 €	1.45 €	1.25 €
	\varnothing 6 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 777	1.66 €	1.54 €	1.32 €
rounded arch										
	\varnothing 6 x 10 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 772	1.93 €	1.82 €	1.51 €
pointed cone										
	\varnothing 6 x 10 mm	QU	120	\varnothing 3 x 40 mm	50 m/s	10 pieces	0 542 771	1.45 €	1.38 €	1.14 €

 *matching set*


	Grit size	Order No.	Price from
Set of grinding points Blue Stones			1 set
	Contents: 20 pieces	K 120	0 542 770 30.30 €

Grinding points Blue Stones

shank Ø 6 x 40 mm, hardness QU

	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
Blue Stones grinding points, shank Ø 6 x 40 mm										
cylinder										
	Ø 6 x 10 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 812	2.20 €	2.05 €	1.88 €
	Ø 8 x 10 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 813	2.20 €	2.05 €	1.88 €
	Ø 10 x 10 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 815	2.78 €	2.61 €	2.39 €
	Ø 10 x 20 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 816	3.34 €	3.12 €	2.85 €
sphere										
	Ø 8 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 818	3.15 €	2.94 €	2.71 €
	Ø 10 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 819	3.15 €	2.96 €	2.74 €
	Ø 13 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 820	3.52 €	3.30 €	3.02 €
tree with pointed end										
	Ø 6 x 13 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 822	2.59 €	2.39 €	2.21 €
cone										
	Ø 8 x 10 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	0 542 824	2.59 €	2.39 €	2.21 €

 *matching set*

	Grit size	Order No.	Price from
			1 set
Set of grinding points Blue Stones			
	Contents: 9 pieces	K 120	0 542 810 29.60 €

Compact discs VORTEX® Unitized for manual and machine use


Compact discs VORTEX® Unitized

A new dimension in deburring and uniform finishing – particularly on materials that are difficult to process.


The patented grit of these discs results in an up to twice as high, very aggressive stock removal in comparison to conventional discs, with improved results on the workpiece.

The advantages at a glance:

- more rapid stock removal, shortened throughput times, optimised quality
- cool cut
- maximum service lives: consistent stock removal performance from the beginning to the end of the disc
- usable for a wide range of shapes and contours

Bonding	Dimensions	Drilling dimension	Order No.	Price from	
				1 piece	10 pieces
Compact discs VORTEX® Unitized					
	soft	Ø 75 x 3 mm	6.3 mm	0 545 681	6.95 € 5.70 €
	hard	Ø 50 x 6 mm	6.3 mm	0 545 680	6.40 € 5.10 €
		Ø 75 x 3 mm	6.3 mm	0 545 682	8.05 € 6.95 €
		Ø 75 x 12 mm	6.3 mm	0 545 683	14.05 € 11.95 €
		Ø 150 x 6 mm	25.4 mm	0 545 684	22.60 € 20.95 €

⚙️ Accessories / spare parts

	For bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from	
						1 piece	10 pieces
CRATEX® grinding wheel holder							
	Ø 1/4" / Ø 6.3 mm	Ø 6 x 40 mm	32	Ø 75 x 20 mm	0 545 297	8.55 €	8.15 €



before

removing of milling traces from 1.2379




after

Grinding points NORTON

shank Ø 3 / 6 x 40 mm, soft

Suitable for all metals, ideal for softer materials such as aluminium. Perfect in postprocessing for 3D printed aluminium parts

	Head dimensions	Hardness	Grit size	Colour	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
									1 piece	20 pieces	50 pieces
NORTON grinding points, shank Ø 3 / 6 x 40 mm											
cylinder											
	Ø 6 x 12 mm	soft	fine	grey	Ø 3 x 40 mm	50 m/s	10 pieces	0 571 911	3.49 €	3.35 €	3.21 €
	Ø 10 x 12 mm	soft	fine	grey	Ø 3 x 40 mm	50 m/s	10 pieces	0 571 910	3.91 €	3.74 €	3.59 €
	Ø 20 x 25 mm	soft	fine	grey	Ø 6 x 40 mm	50 m/s	10 pieces	0 571 912	6.95 €	6.65 €	6.35 €

Grinding points VORTEX®




shank Ø 3 x 40 mm, hard

VORTEX®-blue grinding points

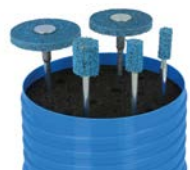
The grinding points are ideally suited for processing hard materials that are difficult to machine, such as titanium, Inconel, etc. The patented high performance grit is ideal for rapid stock removal and reduces processing times.

The following versions are available:

- Wheel version (slightly flexible)
- Cylinder version (firm)

	Head dimensions	Hardness	Grit size	Colour	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
									1 piece	20 pieces	50 pieces
VORTEX®-blue grinding points, shank Ø 3 x 40 mm											
wheel											
	Ø 25 x 3 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	0 571 904	3.16 €	2.75 €	2.65 €
	Ø 30 x 3 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	0 571 900	3.64 €	3.37 €	3.12 €
cylinder											
	Ø 5 x 12 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	0 571 901	4.73 €	4.39 €	4.05 €
	Ø 6 x 13 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	0 571 902	4.48 €	4.17 €	3.84 €
	Ø 10 x 12 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	0 571 903	4.12 €	3.71 €	3.37 €
sphere											
	Ø 6 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	0 571 926	5.40 €	4.83 €	3.86 €
	Ø 8 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	0 571 927	6.15 €	5.50 €	4.40 €
	Ø 10 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	0 571 928	6.95 €	6.20 €	4.94 €


matching set

	Order No.	Price from
		1 set
Set of grinding points VORTEX®-blue		
 <p>The set consists of the following five coarse-grit, hard grinding points with a shank Ø 3 x 40 mm:</p> <ul style="list-style-type: none"> • Wheel, Ø 25 x 3 mm (order no. 0 571 904) • Wheel, Ø 30 x 3 mm (order no. 0 571 900) • Cylinder, Ø 5 x 13 mm (order no. 0 571 901) • Cylinder, Ø 6 x 13 mm (order no. 0 571 902) • Cylinder, Ø 10 x 12 mm (order no. 0 571 903) 	0 571 915	25.45 €


Grinding points VORTEX®

shank Ø 6 x 40 mm, hard

NEW!

	Head dimensions	Hardness	Grit size	Colour	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
									1 piece	20 pieces	50 pieces
VORTEX®-blue grinding points, shank Ø 6 x 40 mm											
cylinder											
	Ø 10 x 20 mm	hard	coarse	blue	Ø 6 x 40 mm	50 m/s	10 pieces	0 571 920	7.15 €	6.85 €	4.64 €
	Ø 13 x 20 mm	hard	coarse	blue	Ø 6 x 40 mm	50 m/s	10 pieces	0 571 921	7.35 €	7.15 €	4.84 €
	Ø 20 x 25 mm	hard	coarse	blue	Ø 6 x 40 mm	50 m/s	10 pieces	0 571 922	7.60 €	7.35 €	4.99 €

↓ matching set

		Order No.	Price from
			1 set
Set of grinding points VORTEX®-blue		0 571 925	35.65 €
	The set consists of the following three coarse-grit, hard grinding points with a shank Ø 6 x 40 mm: <ul style="list-style-type: none"> • Cylinder, Ø 10 x 20 mm (order no. 0 571 920) • Cylinder, Ø 13 x 20 mm (order no. 0 571 921) • Cylinder, Ø 20 x 25 mm (order no. 0 571 922) 		

Fibre-laminated grinding and polishing points

shank Ø 3 x 40 mm





Fibre-laminated grinding and polishing points

These fibre-laminated grinding points produce excellent surfaces with high stock removal. The tools do not clog, offer a very good service life, grind and polish simultaneously and are vibration-free. They are ideal for hard chromium plated steels and have proved their worth with all difficult steels in aeronautical, motor and plant construction. The points are available in two bonding strengths and different grit sizes:

Hard: Aggressive for high stock removal and fine surfaces.




Soft: Polishing with low stock removal and deburring.

Vmax 30 m/s



	Head dimensions	Bonding	Grit size	Shank dimensions	Order No.	Price from		
						1 piece	10 pieces	20 pieces
Fibre-laminated grinding points, corundum, shank Ø 3 x 40 mm								
cylinder								
	Ø 6 x 6 mm	hard	80	Ø 3 x 40 mm	0 545 611	3.37 €	3.12 €	2.86 €
		soft	80	Ø 3 x 40 mm	0 545 612	3.37 €	3.12 €	2.86 €
		soft	180	Ø 3 x 40 mm	0 545 613	3.37 €	3.12 €	2.86 €
	Ø 6 x 13 mm	hard	80	Ø 3 x 40 mm	0 545 614	4.00 €	3.63 €	3.37 €
		soft	80	Ø 3 x 40 mm	0 545 615	4.00 €	3.63 €	3.37 €
		soft	180	Ø 3 x 40 mm	0 545 616	4.00 €	3.63 €	3.37 €
	Ø 10 x 19 mm	hard	54	Ø 3 x 40 mm	0 545 617	4.89 €	4.52 €	4.14 €
		hard	80	Ø 3 x 40 mm	0 545 618	4.89 €	4.52 €	4.14 €
		soft	80	Ø 3 x 40 mm	0 545 619	4.89 €	4.52 €	4.14 €
		soft	180	Ø 3 x 40 mm	0 545 620	4.89 €	4.52 €	4.14 €
	Ø 13 x 13 mm	hard	80	Ø 3 x 40 mm	0 545 621	4.00 €	3.63 €	3.37 €
		soft	80	Ø 3 x 40 mm	0 545 622	4.00 €	3.63 €	3.37 €
		soft	180	Ø 3 x 40 mm	0 545 623	4.00 €	3.63 €	3.37 €

Fibre-laminated grinding and polishing points

shank \varnothing 3 x 40 mm

	Head dimensions	Bonding	Grit size	Shank dimensions	Order No.	Price from		
						1 piece	10 pieces	20 pieces
sphere								
	\varnothing 6 mm	hard	80	\varnothing 3 x 40 mm	0 545 658	4.88 €	4.49 €	4.10 €
	\varnothing 6.5 mm	soft	80	\varnothing 3 x 40 mm	0 545 647	5.95 €	5.35 €	4.92 €
	\varnothing 8 mm	hard	80	\varnothing 3 x 40 mm	0 545 659	4.88 €	4.49 €	4.10 €
	\varnothing 13 mm	hard	54	\varnothing 3 x 40 mm	0 545 626	4.83 €	4.44 €	4.07 €
		soft	80	\varnothing 3 x 40 mm	0 545 609	4.83 €	4.44 €	4.07 €
		hard	80	\varnothing 3 x 40 mm	0 545 627	4.83 €	4.44 €	4.07 €
		soft	180	\varnothing 3 x 40 mm	0 545 610	4.83 €	4.44 €	4.07 €
pointed cone								
	\varnothing 10 x 19 mm	hard	54	\varnothing 3 x 40 mm	0 545 605	6.05 €	5.35 €	4.83 €
		soft	80	\varnothing 3 x 40 mm	0 545 607	6.05 €	5.35 €	4.83 €
		hard	80	\varnothing 3 x 40 mm	0 545 606	6.05 €	5.35 €	4.83 €
		soft	180	\varnothing 3 x 40 mm	0 545 608	6.05 €	5.35 €	4.83 €
cone								
	\varnothing 13 x 19 mm	hard	54	\varnothing 3 x 40 mm	0 545 601	6.35 €	5.35 €	4.89 €
		soft	80	\varnothing 3 x 40 mm	0 545 603	6.35 €	5.35 €	4.89 €
		hard	80	\varnothing 3 x 40 mm	0 545 602	6.35 €	5.35 €	4.89 €
		soft	180	\varnothing 3 x 40 mm	0 545 604	6.35 €	5.35 €	4.89 €

 **matching set**

	Order No.	Price from
		1 set
Set of grinding points, fibre-laminated		
	This range contains following seven hard bonded, fibre-laminated polishing points in grit size 80, shank dimensions 3 x 40mm:	0 545 695 35.25 €
	<ul style="list-style-type: none"> • Cylinder, \varnothing 6 x 6 mm, (Order.-Nr. 0 545 611) • Cylinder, \varnothing 6 x 13 mm, (Order.-Nr. 0 545 614) • Cylinder, \varnothing 10 x 19 mm, (Order.-Nr. 0 545 618) • Cylinder, \varnothing 13 x 13 mm, (Order.-Nr. 0 545 621) • Sphere, \varnothing 13 mm, (Order.-Nr. 0 545 627) • Pointed Cone \varnothing 10 x 19 mm, (Order.-Nr. 0 545 606) • Cone, \varnothing 13 x 19 mm, (Order.-Nr. 0 545 602) These polishing points are suitable for fine surfaces due to a high material removal	
	This range contains following seven soft bonded, fibre-laminated polishing points in grit size 80, shank dimensions 3 x 40mm:	0 545 690 35.25 €
	<ul style="list-style-type: none"> • Cylinder, \varnothing 6 x 6 mm, (Order.-Nr. 0 545 612) • Cylinder, \varnothing 6 x 13 mm, (Order.-Nr. 0 545 615) • Cylinder, \varnothing 10 x 19 mm, (Order.-Nr. 0 545 619) • Cylinder, \varnothing 13 x 13 mm, (Order.-Nr. 0 545 622) • Sphere, \varnothing 13 mm, (Order.-Nr. 0 545 609) • Pointed Cone \varnothing 10 x 19 mm, (Order.-Nr. 0 545 607) • Cone, \varnothing 13 x 19 mm, (Order.-Nr. 0 545 603) These polishing points are suitable for polishing aluminium and for deburring due to a low material removal.	

Rubber-bonded grinding tools

203 Rubber-bonded polishing points

206 Elastic polishing points

208 Elastic grinding files

**209 Rubber-bonded grinding tools
CERA Sticks**

210 Tool system CRATEX®

Rubber-bonded tools are the right choice wherever the highest demands are placed on the polished section and the latter's dimensional stability. A wide selection of these can be found with us: polishing points on a shank (rubber-bonded, elastic and fibrelaminated), rubber-bonded grinding discs, in addition to compact discs and of course the CRATEX® tool system, which has been tried and trusted for decades.








Rubber-bonded polishing points series 700

hard rubber bonding • shank Ø 3 x 30 mm


Rubber-bonded polishing points series 700

Thanks to their hard rubber bond and corundum grit combination, these fine grinding and polishing tools with hard rubber bonding are particularly suited for very fine grinding, equally for cast iron, hardened or unhardened, alloy or nonalloy steels as well as all other materials to be ground. These tools do not clog, do not smear and deliver high efficiency with medium grinding pressure.

Cutting speed Vmax: 50 m/s

	Head dimensions	Grit size	Shank dimensions	Order No.	Price from		
					1 piece	20 pieces	50 pieces
Rubber-bonded polishing points series 700, shank Ø 3 x 30 mm							
hard rubber bonding							
cylinder							
	Ø 4 x 8 mm	100	Ø 3 x 30 mm	0 544 701	3.06 €	2.75 €	2.50 €
	Ø 5 x 10 mm	100	Ø 3 x 30 mm	0 544 702	3.06 €	2.75 €	2.50 €
	Ø 6 x 10 mm	100	Ø 3 x 30 mm	0 544 703	3.06 €	2.75 €	2.50 €
	Ø 7 x 10 mm	100	Ø 3 x 30 mm	0 544 704	3.06 €	2.75 €	2.50 €
	Ø 8 x 10 mm	100	Ø 3 x 30 mm	0 544 705	3.06 €	2.75 €	2.50 €
	Ø 10 x 10 mm	100	Ø 3 x 30 mm	0 544 706	3.06 €	2.75 €	2.50 €
	Ø 10 x 13 mm	100	Ø 3 x 30 mm	0 544 707	3.06 €	2.75 €	2.50 €
	Ø 10 x 16 mm	100	Ø 3 x 30 mm	0 544 708	3.06 €	2.75 €	2.50 €
	Ø 13 x 3 mm	100	Ø 3 x 30 mm	0 544 712	3.06 €	2.75 €	2.53 €
	Ø 13 x 13 mm	100	Ø 3 x 30 mm	0 544 709	3.06 €	2.75 €	2.53 €
	Ø 13 x 16 mm	100	Ø 3 x 30 mm	0 544 710	3.06 €	2.75 €	2.53 €
	Ø 16 x 4 mm	100	Ø 3 x 30 mm	0 544 713	3.06 €	2.75 €	2.53 €
	Ø 16 x 16 mm	100	Ø 3 x 30 mm	0 544 715	3.06 €	2.75 €	2.53 €
	Ø 20 x 6 mm	100	Ø 3 x 30 mm	0 544 714	3.69 €	3.38 €	3.14 €

 *matching set*

	Grit size	Order No.	Price from
			1 set
Rubber-bonded polishing points series 700, 14 pieces			
	100	0 544 700	44.85 €










Rubber-bonded polishing points series 720

Soft rubber bond

Rubber-bonded polishing points series 720

The special features of the soft rubber bond of the series 720 is an extremely soft cut, high surface quality and very low stock removal of the corundum grit. The outstanding elasticity of the soft rubber bond results in a relatively low cutting speed for the vibration-free operation.

Cutting speed V_{max} : 15 m/s

	Head dimensions	Grit size	Colour	Shank dimensions	Order No.	Price from		
						1 piece	20 pieces	50 pieces
Rubber-bonded polishing points series 720, shank \varnothing 3 x 30 mm & 3 x 60 mm								
Soft rubber bond								
sphere								
	\varnothing 5 mm	120	red	\varnothing 3 x 30 mm	0 544 760	4.00 €	3.59 €	3.28 €
		120	red	\varnothing 3 x 60 mm	0 544 727	5.15 €	4.59 €	4.05 €
	\varnothing 8 mm	120	red	\varnothing 3 x 30 mm	0 544 767	4.93 €	4.41 €	4.07 €
		120	red	\varnothing 3 x 60 mm	0 544 726	5.80 €	4.97 €	4.39 €
	\varnothing 10 mm	120	red	\varnothing 3 x 30 mm	0 544 768	5.10 €	4.55 €	4.16 €
		120	red	\varnothing 3 x 60 mm	0 544 725	5.90 €	5.10 €	4.49 €
\varnothing 13 mm	120	red	\varnothing 3 x 30 mm	0 544 719	5.05 €	4.50 €	4.25 €	
cylinder								
	\varnothing 4 x 8 mm	80	grey	\varnothing 3 x 30 mm	0 544 731	2.99 €	2.68 €	2.47 €
		120	red	\varnothing 3 x 30 mm	0 544 751	2.30 €	2.15 €	2.02 €
		220	brown	\varnothing 3 x 30 mm	0 544 771	2.99 €	2.68 €	2.47 €
		280	green	\varnothing 3 x 30 mm	0 544 791	2.99 €	2.68 €	2.47 €
	\varnothing 5 x 10 mm	80	grey	\varnothing 3 x 30 mm	0 544 732	2.99 €	2.68 €	2.47 €
		120	red	\varnothing 3 x 30 mm	0 544 752	2.99 €	2.68 €	2.47 €
		220	brown	\varnothing 3 x 30 mm	0 544 772	2.99 €	2.68 €	2.47 €
		280	grey	\varnothing 3 x 30 mm	0 544 792	2.99 €	2.68 €	2.47 €
	\varnothing 6 x 10 mm	80	grey	\varnothing 3 x 30 mm	0 544 733	2.99 €	2.68 €	2.47 €
		120	red	\varnothing 3 x 30 mm	0 544 753	2.35 €	2.15 €	2.02 €
		220	brown	\varnothing 3 x 30 mm	0 544 773	2.99 €	2.68 €	2.47 €
		280	green	\varnothing 3 x 30 mm	0 544 793	2.99 €	2.68 €	2.47 €
	\varnothing 8 x 10 mm	80	grey	\varnothing 3 x 30 mm	0 544 734	2.39 €	2.24 €	2.19 €
		120	red	\varnothing 3 x 30 mm	0 544 754	2.39 €	2.25 €	2.15 €
		220	brown	\varnothing 3 x 30 mm	0 544 774	2.39 €	2.25 €	2.15 €
		280	green	\varnothing 3 x 30 mm	0 544 794	2.99 €	2.68 €	2.47 €
	\varnothing 10 x 10 mm	80	grey	\varnothing 3 x 30 mm	0 544 735	2.99 €	2.68 €	2.47 €
		120	red	\varnothing 3 x 30 mm	0 544 755	2.99 €	2.68 €	2.47 €
		220	brown	\varnothing 3 x 30 mm	0 544 775	2.99 €	2.68 €	2.47 €
		280	green	\varnothing 3 x 30 mm	0 544 795	2.99 €	2.68 €	2.47 €
	\varnothing 13 x 13 mm	80	grey	\varnothing 3 x 30 mm	0 544 736	3.06 €	2.75 €	2.50 €
		120	red	\varnothing 3 x 30 mm	0 544 756	3.06 €	2.75 €	2.50 €
		220	brown	\varnothing 3 x 30 mm	0 544 776	3.06 €	2.75 €	2.50 €
		280	green	\varnothing 3 x 30 mm	0 544 796	3.06 €	2.75 €	2.50 €
	\varnothing 13 x 16 mm	80	grey	\varnothing 3 x 30 mm	0 544 737	3.06 €	2.75 €	2.50 €
		120	red	\varnothing 3 x 30 mm	0 544 757	3.06 €	2.75 €	2.50 €
		220	brown	\varnothing 3 x 30 mm	0 544 777	3.06 €	2.75 €	2.50 €
		280	green	\varnothing 3 x 30 mm	0 544 797	3.06 €	2.75 €	2.50 €
	\varnothing 16 x 16 mm	80	grey	\varnothing 3 x 30 mm	0 544 738	3.06 €	2.75 €	2.50 €
		120	red	\varnothing 3 x 30 mm	0 544 758	3.06 €	2.75 €	2.50 €
		220	brown	\varnothing 3 x 30 mm	0 544 778	3.06 €	2.75 €	2.50 €
		280	green	\varnothing 3 x 30 mm	0 544 798	3.06 €	2.75 €	2.50 €

Rubber-bonded polishing points series 720

Soft rubber bond

matching set

	Grit size	Order No.	Price from 1 set
Rubber-bonded polishing points series 720, 8 pieces, shank Ø 3 x 30 mm			
	80	0 544 730	21.45 €
	120	0 544 750	21.95 €
	220	0 544 770	21.95 €
	280	0 544 790	21.85 €

	Head dimensions	Grit size	Colour	Shank dimensions	Order No.	1 piece	Price from 20 pieces	50 pieces
Rubber-bonded polishing points series 720, shank Ø 6 x 40 mm								
Soft rubber bond								
cylinder								
	Ø 8 x 16 mm	80	grey	Ø 6 x 40 mm	0 544 741	2.87 €	2.50 €	2.35 €
		120	red	Ø 6 x 40 mm	0 544 761	3.06 €	2.75 €	2.53 €
		220	brown	Ø 6 x 40 mm	0 544 781	3.06 €	2.75 €	2.53 €
		280	green	Ø 6 x 40 mm	0 544 801	3.06 €	2.75 €	2.53 €
	Ø 10 x 20 mm	80	grey	Ø 6 x 40 mm	0 544 742	2.39 €	2.29 €	2.23 €
		120	red	Ø 6 x 40 mm	0 544 762	2.39 €	2.30 €	2.18 €
		220	brown	Ø 6 x 40 mm	0 544 782	3.06 €	2.75 €	2.53 €
		280	green	Ø 6 x 40 mm	0 544 802	3.06 €	2.75 €	2.53 €
	Ø 13 x 20 mm	80	grey	Ø 6 x 40 mm	0 544 743	3.14 €	2.80 €	2.54 €
		120	red	Ø 6 x 40 mm	0 544 763	2.39 €	2.27 €	2.15 €
		220	brown	Ø 6 x 40 mm	0 544 783	3.14 €	2.80 €	2.54 €
		280	green	Ø 6 x 40 mm	0 544 803	3.14 €	2.80 €	2.54 €
	Ø 16 x 20 mm	80	grey	Ø 6 x 40 mm	0 544 744	3.58 €	3.19 €	2.99 €
		120	red	Ø 6 x 40 mm	0 544 764	3.58 €	3.19 €	2.99 €
		220	brown	Ø 6 x 40 mm	0 544 784	3.58 €	3.19 €	2.99 €
		280	green	Ø 6 x 40 mm	0 544 804	3.58 €	3.19 €	2.99 €
	Ø 16 x 32 mm	120	red	Ø 6 x 40 mm	0 544 765	2.74 €	2.48 €	2.28 €
		80	grey	Ø 6 x 40 mm	0 544 745	2.73 €	2.58 €	2.42 €
		220	brown	Ø 6 x 40 mm	0 544 785	2.74 €	2.59 €	2.42 €
	Ø 20 x 20 mm	80	grey	Ø 6 x 40 mm	0 544 746	4.15 €	3.69 €	3.51 €
		120	red	Ø 6 x 40 mm	0 544 766	4.33 €	3.88 €	3.58 €
		220	brown	Ø 6 x 40 mm	0 544 786	4.33 €	3.88 €	3.58 €
		280	green	Ø 6 x 40 mm	0 544 806	4.33 €	3.88 €	3.58 €
sphere								
	Ø 13 mm	120	red	Ø 6 x 40 mm	0 544 769	5.15 €	4.60 €	4.22 €






Elastic polishing points

shank Ø 2.35 x 40 mm

Elastic polishing points

These points are available with silicon carbide or diamond as abrasive. These points are highly suitable for working on hard and tough materials, such as titanium or ceramic. They leave a matt finish with excellent roughness values on materials. Regardless of the various bonds, these points can be easily shaped.


Recommended Speed: 5,000 – 10,000 rpm

	Head dimensions	Grit size	Colour	Shank dimensions	Rotation speed max.	Order No.	Price from	
							1 piece	10 pieces
Elastic polishing points, shank Ø 2.35 x 40 mm								
Diamond polishing points, medium bond								
pointed								
	Ø 4 x 13 mm	medium / K 150	pink	Ø 2.35 x 40 mm	10,000 1/min	0 542 914	25.00 €	22.30 €
		fine / K 240	light grey	Ø 2.35 x 40 mm	10,000 1/min	0 542 915	25.00 €	22.30 €
silicone polishing points, soft bond								
cylinder								
	Ø 6 x 11.5 mm	coarse / K 80	white	Ø 2.35 x 40 mm	10,000 1/min	0 542 904	2.62 €	2.29 €
		medium / K 150	black	Ø 2.35 x 40 mm	10,000 1/min	0 542 905	2.62 €	2.29 €
		fine / K 240	light blue	Ø 2.35 x 40 mm	10,000 1/min	0 542 906	2.62 €	2.29 €
pointed								
	Ø 4.5 x 12 mm	coarse / K 80	white	Ø 2.35 x 40 mm	10,000 1/min	0 542 901	2.62 €	2.29 €
		medium / K 150	black	Ø 2.35 x 40 mm	10,000 1/min	0 542 902	2.62 €	2.29 €
		fine / K 240	light blue	Ø 2.35 x 40 mm	10,000 1/min	0 542 903	2.62 €	2.29 €
technical polishing points, hard bond								
cylinder								
	Ø 10 x 12 mm	very coarse	blue	Ø 2.35 x 40 mm	10,000 1/min	0 542 910	3.16 €	2.76 €
		coarse	grey	Ø 2.35 x 40 mm	10,000 1/min	0 542 911	3.16 €	2.76 €
		medium	red brown	Ø 2.35 x 40 mm	10,000 1/min	0 542 912	3.16 €	2.76 €
pointed								
	Ø 3.3 x 7.5 mm	very coarse	blue	Ø 2.35 x 40 mm	10,000 1/min	0 542 907	2.85 €	2.48 €
		coarse	grey	Ø 2.35 x 40 mm	10,000 1/min	0 542 908	2.85 €	2.48 €
		medium	red brown	Ø 2.35 x 40 mm	10,000 1/min	0 542 909	2.85 €	2.48 €

Elastic polishing points

shank Ø 3 x 30 mm


NEW!

	Order No.	Price from			
		1 set	5 set	10 set	
SET – Elastic grinding- and polishing points, shank-Ø 3 x 30 mm, consisting of 10 pieces					
	Set includes:	0 544 800	41.00 €	38.05 €	34.55 €
	2 x cyl., Ø 5 x 15 mm, grit 80 2 x cyl., Ø 5 x 15 mm, grit 120 2 x cyl., Ø 5 x 15 mm, grit 220 2 x cyl., Ø 5 x 15 mm, grit 320 1 x cyl., Ø 4 x 13 mm, diamond grit 1000 1 x cyl., Ø 4 x 13 mm, diamond grit 3000				


Elastic polishing points joke FlexPol with holder shank \varnothing 2.35 x 30 mm

These elastic polishers with silicon carbide in plastic rubber bond are ideal for processing hard and tough materials in hard to reach places. The points are available in five different diameters and six grit sizes each. Independently of the various bond strengths, these points can be profiled very well. The points are suitable for both rotating and linear applications. Handling the points is very easy with the right holder. By simply turning the holder, you can clamp the flexi-polishers and change them equally quickly.

Recommended rotational speed: 15,000 rpm. – max. rotational speed: 30,000 rpm

	Dimensions	Grit size	Colour	Bonding	Packing quantity	Order No.	Price from
							1 pack
Elastic polishing points joke FlexPol							
	\varnothing 1.5 x 15 mm	coarse	blue	hard	10 pieces	0 542 942-10	6.60 €
		medium	dark brown	x-hard	10 pieces	0 542 941-10	6.60 €
		medium	dark grey	medium	10 pieces	0 542 943-10	6.60 €
		fine	red brown	medium	10 pieces	0 542 944-10	6.60 €
		x-fine	green	medium	10 pieces	0 542 945-10	6.60 €
		xx-fine	yellow	medium	10 pieces	0 542 946-10	6.60 €
	\varnothing 2 x 20 mm	coarse	blue	hard	10 pieces	0 542 952-10	6.60 €
		medium	dark brown	x-hard	10 pieces	0 542 951-10	6.60 €
		medium	dark grey	medium	10 pieces	0 542 953-10	6.60 €
		fine	red brown	medium	10 pieces	0 542 954-10	6.60 €
		x-fine	green	medium	10 pieces	0 542 955-10	6.60 €
		xx-fine	yellow	medium	10 pieces	0 542 956-10	6.60 €
	\varnothing 3 x 23 mm	coarse	blue	hard	10 pieces	0 542 962-10	6.60 €
		medium	dark brown	x-hard	10 pieces	0 542 961-10	6.60 €
		medium	dark grey	medium	10 pieces	0 542 963-10	6.60 €
		fine	red brown	medium	10 pieces	0 542 964-10	6.60 €
		x-fine	green	medium	10 pieces	0 542 965-10	6.60 €
		xx-fine	yellow	medium	10 pieces	0 542 966-10	6.60 €
	\varnothing 4 x 26 mm	coarse	blue	hard	10 pieces	0 542 972-10	8.15 €
		medium	dark brown	x-hard	10 pieces	0 542 971-10	8.15 €
		medium	dark grey	medium	10 pieces	0 542 973-10	8.15 €
		fine	red brown	medium	10 pieces	0 542 974-10	8.15 €
		x-fine	green	medium	10 pieces	0 542 975-10	8.15 €
		xx-fine	yellow	medium	10 pieces	0 542 976-10	8.15 €
	\varnothing 5 x 28 mm	coarse	blue	hard	10 pieces	0 542 982-10	8.15 €
		medium	dark brown	x-hard	10 pieces	0 542 981-10	8.15 €
		medium	dark grey	medium	10 pieces	0 542 983-10	8.15 €
		fine	red brown	medium	10 pieces	0 542 984-10	8.15 €
		x-fine	green	medium	10 pieces	0 542 985-10	8.15 €
		xx-fine	yellow	medium	10 pieces	0 542 986-10	8.15 €

Accessories / spare parts

	Dimensions	Order No.	Price from		
			1 piece	3 pieces	5 pieces
Holder for joke FlexPol, shank \varnothing 2.35 x 30 mm					
	\varnothing 2 mm	0 542 950	8.25 €	7.50 €	7.20 €
	\varnothing 3 mm	0 542 960	8.25 €	7.50 €	7.20 €
	\varnothing 4 mm	0 542 970	10.30 €	9.05 €	8.65 €
	\varnothing 5 mm	0 542 980	10.30 €	9.05 €	8.65 €

Elastic grinding files

joke PU-DIA

Rubber-bonded grinding files joke PU-DIA

Synthetic diamond grits bonded in polyurethane (PU). Excellent stock removal performance on hardened surfaces and also the correct medium of choice for removing erosion structures. Owing to the elastic bond, these tools also adapt very well to the widest array of contours without any risk of breaking. Two dimensions in each of six grit sizes as standard (others on request!).

Use: Wet/dry with water, fluid or oil.

Tip: Make your own grinding files.

The joke Pu-Dia's can be simply cut to size and adapted.




	Dimensions	Grit size	Colour	Order No.	Price from	
					1 piece	5 pieces
Elastic grinding files joke PU-DIA						
rectangular						
	10 x 10 x 100 mm	D 3	green	0 545 801	14.90 €	13.20 €
		D 9	red	0 545 802	14.90 €	13.20 €
		D 15	brown	0 545 803	14.90 €	13.20 €
		D 30	mahogany	0 545 804	14.90 €	13.20 €
		D 40	purple	0 545 805	14.90 €	13.20 €
		D 60	orange	0 545 806	14.90 €	13.20 €
	20 x 20 x 100 mm	D 3	green	0 545 811	26.85 €	23.55 €
		D 9	red	0 545 812	26.85 €	23.55 €
		D 15	brown	0 545 813	26.85 €	23.55 €
		D 30	mahogany	0 545 814	26.85 €	23.55 €
		D 40	purple	0 545 815	26.85 €	23.55 €
		D 60	orange	0 545 816	26.85 €	23.55 €

Polishing point set, soft elastomer

shank Ø 2.35 x 30 mm

	Grit size	Colour	Shank dimensions	Packing quantity	Order No.	Price from		
						1 set	20 set	50 set
Polishing point set, soft elastomer								
	SiC 240	green	Ø 2.35 - 30 mm	12 piece	0 544 855	29.85 €	29.00 €	27.35 €
	SiC 400	grey	Ø 2.35 - 30 mm	12 piece	0 544 856	29.85 €	29.00 €	27.35 €

Lapping and polishing rubber for self-made tools






Dimensions	Grit size	Type	Order No.	Price from	
				1 piece	20 pieces
Lapping and polishing rubber for self-made tools					
stick					
	Ø 6 x 200 mm	120	SG-6	0 544 951	5.70 € 4.97 €
	Ø 10 x 200 mm	120	SG-100	0 544 956	9.65 € 8.50 €
	Ø 12 x 200 mm	120	SG-120	0 544 952	9.45 € 8.50 €

Rubber-bonded grinding tools CERA Sticks


Rubber-bonded grinding tools CERA Sticks

A rubber tool on a handle – or modern: stick. Highly practical in any case, since firstly handy and secondly adapting optimally to the contours to be processed. This qualifies the sticks above all for uneven surfaces in addition to places which are difficult to reach. For deburring work, removal of annealing colours, for chamfering ...

... available separately in different grit sizes or as a set in the practical plastic box.

Coating dimensions	Grit size	Colour	Order No.	Price from
				1 piece
Rubber-bonded grinding tool with handle CERA Stick				
	50 x 12 x 6 mm	# 46	grey	0 544 581 12.90 €
		# 80	red	0 544 582 12.90 €
		# 120	blue	0 544 583 12.90 €
		# 220	yellow	0 544 584 12.90 €
		# 320	violet	0 544 585 12.90 €

 *matching set*

Order No.	Price from
	1 pack
Set CERA Sticks in plastic box	
	Contents: 1 stick in each grit size 0 544 580 59.25 €

2 Tool system CRATEX® Sets

The assortment for tool and mould makers. The bond is made of chemical rubber. In contrast to hard grinding wheels, the CRATEX® bond has a unique cushioned action ensuring soft, smooth and free cutting. With harder materials, CRATEX® yields a clean, polishable cut, free from corrugation and discoloration. CRATEX® grinds and polishes soft materials and plastics without tearing. It resists clogging and smearing and does not result in any glassy points.

CRATEX® can be used for dry and wet grinding. The tools are insensitive to all common grinding cooling media and rust protectors and to oil. Even more gentle work can be achieved in conjunction with polishing pastes.

Typical applications:

Smoothing and polishing of casting moulds, dies and other production tools, smoothing of edges on punched or sheared parts or glass, lapping of welded seams after rough grinding; sharpening of cutting dies, deburring and smoothing of plastic workpieces, reworking injection channels; polishing of moulds.

The advantages at a glance:

- flexible and adaptable
- clean, discoloration-free polished section
- for all metals, non-ferrous metals and plastics
- grinding, polishing, deburring and smoothing
- four different grit sizes

CRATEX® tools are available in four standard grit sizes, which each have a different colour for ease of differentiation:

(C) Coarse – dark green – grit size 40

For coarse grinding and deburring. Cuts rapidly without clogging. CRATEX® C is used for soft materials such as brass, copper and aluminium and leaves a clean, smooth surface after rough casting.

(M) Medium – dark brown – grit size 90

For light deburring and for general finishing, yielding a surface quality between preliminary grinding and polishing. CRATEX® M is recommended for the working states following rough grinding of brass, copper, aluminium and stainless steel, etc. It is eminently suitable for polishing of moulds and for performing general finishing work.

(F) Fine – light brown – grit size 120

A fine, needle-sharp grit size for polishing. A clean, polished surface is achieved very rapidly using this grit size. Particularly suitable for highalloyed steels, gold and other noble metals, for which a good surface is required.

(XF) Extra fine – light green – grit size 240

A microfine grit for achievement of a high gloss polish or final polishing on all metals.





Maximum cutting speeds and best operating speeds

For most efficient results and good surface quality, operating speeds must not exceed the maximum safety speeds mentioned in the instruction sheets of the relevant CRATEX® tools. The maximum cutting speed must never be exceeded.




The rpm values for small CRATEX® wheels up to Ø 25 mm are based on a protruding shank length between 10 and 15 mm. If the protruding shank length exceeds 15 mm, the speed must be reduced by 20 % per 5 mm.



Tool system CRATEX® Sets

	Order No.	Price from 1 set
CRATEX® Set 778, 68 pieces		
 <p>Contents in plastic storage case:</p> <ul style="list-style-type: none"> 8 points shape 4 8 points shape 6 8 points shape 8 8 points shape 10 8 points shape 11 8 points shape 12 8 points shape 14 8 points shape 15 equally assorted in the four CRATEX® grit sizes 2 point mounting shanks shape 12 (Ø 3 mm) 2 point mounting shanks shape 13 (Ø 3 mm) 	0 545 291	109.65 €
CRATEX® Set 777, 84 pieces		
 <p>Contents in plastic storage case:</p> <ul style="list-style-type: none"> 8 wheels shape 2 16 points shape 6 16 points shape 8 8 points shape 10 8 wheels shape 54 16 wheels shape 74 8 wheels shape 86 equally assorted in the four CRATEX® grit sizes 2 point mounting shanks shape 22 (Ø 3 mm) 2 point mounting shanks shape 12 (Ø 3 mm) 	0 545 292	92.20 €

2 Tool system CRATEX® rubber-bonded abrasives for shank-mounting

Shape	Dimensions	Grit size	Type	Order No.	Price from	
					1 piece	20 pieces
CRATEX® rubber-bonded abrasive for shank mounting						
	wheel, tapered	Ø 16 x 2.5 mm	C-coarse 40	2	0 545 005	0.58 € 0.55 €
		Ø 16 x 2.5 mm	M-medium 90	2	0 545 006	0.58 € 0.55 €
		Ø 16 x 2.5 mm	F-fine 120	2	0 545 007	0.58 € 0.55 €
		Ø 16 x 2.5 mm	XF-extra fine 240	2	0 545 008	0.58 € 0.55 €
		Ø 25 x 3 mm	C-coarse 40	5	0 545 009	0.99 € 0.92 €
		Ø 25 x 3 mm	M-medium 90	5	0 545 010	0.99 € 0.92 €
		Ø 25 x 3 mm	F-fine 120	5	0 545 011	0.99 € 0.92 €
		Ø 25 x 3 mm	XF-extra fine 240	5	0 545 012	0.99 € 0.92 €
	point, cylindrical shape	Ø 6 x 12.5 mm	C-coarse 40	4	0 545 017	0.69 € 0.61 €
		Ø 6 x 12.5 mm	M-medium 90	4	0 545 018	0.69 € 0.61 €
		Ø 6 x 12.5 mm	F-fine 120	4	0 545 019	0.69 € 0.61 €
		Ø 6 x 12.5 mm	XF-extra fine 240	4	0 545 020	0.69 € 0.61 €
		Ø 6 x 22 mm	C-coarse 40	6	0 545 021	0.84 € 0.68 €
		Ø 6 x 22 mm	M-medium 90	6	0 545 022	0.84 € 0.68 €
		Ø 6 x 22 mm	F-fine 120	6	0 545 023	0.84 € 0.68 €
		Ø 6 x 22 mm	XF-extra fine 240	6	0 545 024	0.84 € 0.68 €
	point, bullet-shape	Ø 7 x 25 mm	C-coarse	8	0 545 029	0.84 € 0.68 €
		Ø 7 x 25 mm	M-medium 90	8	0 545 030	0.84 € 0.68 €
		Ø 7 x 25 mm	F-fine 120	8	0 545 031	0.84 € 0.68 €
		Ø 7 x 25 mm	XF-extra fine 240	8	0 545 032	0.84 € 0.68 €
		Ø 9.5 x 16 mm	C-coarse 40	10	0 545 033	0.87 € 0.70 €
		Ø 9.5 x 16 mm	M-medium 90	10	0 545 034	0.87 € 0.70 €
		Ø 9.5 x 16 mm	F-fine 120	10	0 545 035	0.87 € 0.70 €
		Ø 9.5 x 16 mm	XF-extra fine 240	10	0 545 036	0.87 € 0.70 €
		Ø 9.5 x 25 mm	C-coarse 40	11	0 545 037	1.55 € 1.33 €
		Ø 9.5 x 25 mm	M-medium 90	11	0 545 038	1.55 € 1.33 €
		Ø 9.5 x 25 mm	F-fine 120	11	0 545 039	1.55 € 1.33 €
		Ø 9.5 x 25 mm	XF-extra fine 240	11	0 545 040	1.55 € 1.33 €
	Ø 12.5 x 22 mm	C-coarse 40	15	0 545 041	1.71 € 1.50 €	
	Ø 12.5 x 22 mm	M-medium 90	15	0 545 042	1.71 € 1.50 €	
	Ø 12.5 x 22 mm	F-fine 120	15	0 545 043	1.71 € 1.50 €	
	Ø 12.5 x 22 mm	XF-extra fine 240	15	0 545 044	1.71 € 1.50 €	





Tool system CRATEX® rubber-bonded abrasives for shank-mounting

Shape	Dimensions	Grit size	Type	Order No.	Price from		
					1 piece	20 pieces	
	wheel	Ø 16 x 2.3 mm	C-coarse 40	53	0 545 073	0.63 €	0.57 €
	Ø 16 x 2.3 mm	M-medium 90	53	0 545 074	0.63 €	0.57 €	
	Ø 16 x 2.3 mm	F-fine 120	53	0 545 075	0.63 €	0.57 €	
	Ø 16 x 2.3 mm	XF-extra fine 240	53	0 545 076	0.63 €	0.57 €	
	Ø 16 x 3 mm	C-coarse 40	54	0 545 077	0.76 €	0.68 €	
	Ø 16 x 3 mm	M-medium 90	54	0 545 078	0.76 €	0.68 €	
	Ø 16 x 3 mm	F-fine 120	54	0 545 079	0.76 €	0.68 €	
	Ø 16 x 3 mm	XF-extra fine 240	54	0 545 080	0.76 €	0.68 €	
	Ø 22 x 3 mm	C-coarse 40	74	0 545 085	0.86 €	0.74 €	
	Ø 22 x 3 mm	M-medium 90	74	0 545 086	0.86 €	0.74 €	
	Ø 22 x 3 mm	F-fine 120	74	0 545 087	0.86 €	0.74 €	
	Ø 22 x 3 mm	XF-extra fine 240	74	0 545 088	0.86 €	0.74 €	
	Ø 22 x 4.5 mm	C-coarse 40	76	0 545 089	1.14 €	1.03 €	
	Ø 22 x 4.5 mm	M-medium 90	76	0 545 090	1.14 €	1.03 €	
	Ø 22 x 4.5 mm	F-fine 120	76	0 545 091	1.14 €	1.03 €	
	Ø 22 x 4.5 mm	XF-extra fine 240	76	0 545 092	1.14 €	1.03 €	
		cone	Ø 25 x 3 mm	C-coarse 40	80	0 545 101	1.11 €
Ø 25 x 3 mm		M-medium 90	80	0 545 102	1.11 €	1.01 €	
Ø 25 x 3 mm		F-fine 120	80	0 545 103	1.11 €	1.01 €	
Ø 25 x 3 mm		XF-extra fine 240	80	0 545 104	1.11 €	1.01 €	
Ø 16/6 x 25 mm		M-medium 90	1340	0 545 118	7.90 €	6.75 €	
Ø 16/6 x 25 mm		F-fine 120	1340	0 545 119	7.90 €	6.75 €	







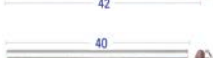






Tool system CRATEX® rubber-bonded grinding wheels for elastic grinding

Dimensions	Drilling dimension	Grit size	Type	Rotation speed max.	Order No.	Price from
						1 piece
CRATEX® Rubber-bonded grinding wheels						
	Ø 38 x 3 mm	3 mm	M-medium 90	152	15,000 1/min	0 545 302 5.20 €
	Ø 38 x 9.5 mm	6 mm	M-medium 90	156	15,000 1/min	0 545 314 11.80 €
	Ø 50 x 3 mm	6 mm	C-coarse 40	202	10,500 1/min	0 545 321 8.65 €
		6 mm	F-fine 120	202	10,500 1/min	0 545 323 8.65 €
Ø 50 x 4.5 mm	6 mm	M-medium 90	203	10,500 1/min	0 545 326 8.75 €	
Ø 50 x 6 mm	6 mm	C-coarse 40	204	10,500 1/min	0 545 329 10.40 €	
		F-fine 120	204	10,500 1/min	0 545 331 10.40 €	
Ø 75 x 6 mm	6 mm	M-medium 90	304	7,000 1/min	0 545 358 19.55 €	
Ø 125 x 6 mm	25 mm	XF-extra fine 240	504	4,200 1/min	0 545 408 35.95 €	

Tool system CRATEX® mounting shanks and grinding wheel holders

	for bore dimensions	Shank dimensions	Type	Order No.	Price from	
					1 piece	10 pieces
CRATEX® mounting shanks						
	Ø 2 mm	Ø 2.35 mm	11	0 545 271	0.88 €	0.68 €
	Ø 2 mm	Ø 3 mm	12	0 545 272	0.88 €	0.68 €
	Ø 3 mm	Ø 3 mm	13	0 545 273	0.88 €	0.68 €
	Ø 3 mm	Ø 6 mm	14	0 545 274	1.05 €	0.87 €

Tool system CRATEX® mounting shanks and grinding wheel holders

	for bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from	
						1 piece	10 pieces
CRATEX® grinding wheel holder							
	Ø 1.5 - 1.8 mm	Ø 2.35 x 30/15 mm	25	Ø 38 x 4.5 mm	0 545 279	0.96 €	0.80 €
	Ø 1.5 - 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	0 545 275	1.16 €	0.97 €
	Ø 1.5 - 1.8 mm	Ø 3 x 40/30 mm	24	Ø 38 x 3 mm	0 545 278	1.16 €	0.97 €
	Ø 1.5 - 1.8 mm	Ø 3 x 40 mm	22	Ø 38 x 4.5 mm	0 545 276	1.16 €	0.97 €
	Ø 1/8" / Ø 3.2 mm	Ø 3 x 40/30 mm	28	Ø 38 x 5.5 mm	0 545 296	1.83 €	1.48 €
	Ø 1.5 - 1.8 mm	Ø 3 x 40 mm	26	Ø 25 x 8.5 mm	0 545 280	1.41 €	1.12 €
	Ø 1.5 - 1.8 mm	Ø 6 x 40 mm	23	Ø 38 x 4.5 mm	0 545 277	1.16 €	0.97 €
	Ø 1.5 - 1.8 mm	Ø 6 x 40 mm	27	Ø 25 x 8.5 mm	0 545 281	1.41 €	1.12 €
	Ø 3 mm	Ø 6 x 40 mm	33	Ø 45 x 6 mm	0 545 269	11.25 €	
	Ø 6 mm	Ø 6 x 25 mm	41	Ø 75 x 9.5 mm	0 545 282	3.94 €	3.61 €
	Ø 6 mm	Ø 6 x 40 mm	42	Ø 75 x 20 mm	0 545 283	3.23 €	2.96 €
	Ø 1/4" / Ø 6.3 mm	Ø 6 x 30 mm	31	Ø 75 x 25 mm	0 545 284	9.40 €	7.65 €
	Ø 1/4" / Ø 6.3 mm	Ø 6 x 40 mm	32	Ø 75 x 20 mm	0 545 297	8.55 €	8.15 €

Tool system CRATEX® rubber-bonded sticks for hand (filing machine) use

Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	10 pieces	
CRATEX® rubber-bonded sticks						
square						
	6 x 6 x 150 mm	C-coarse 40	6202	0 545 171	9.35 €	7.90 €
		M-medium 90	6202	0 545 172	9.35 €	7.90 €
		F-fine 120	6202	0 545 173	9.35 €	7.90 €
		XF-s, fine 240	6202	0 545 174	9.35 €	7.90 €
	12.5 x 12.5 x 150 mm	C-coarse 40	6404	0 545 175	15.80 €	13.15 €
		M-medium 90	6404	0 545 176	15.80 €	13.15 €
		F-fine 120	6404	0 545 177	15.80 €	13.15 €
		XF-s, fine 240	6404	0 545 178	15.80 €	13.15 €
	18 x 18 x 150 mm	C-coarse 40	6606	0 545 179	27.30 €	22.60 €
		M-medium 90	6606	0 545 180	27.30 €	22.60 €
		F-fine 120	6606	0 545 181	27.30 €	22.60 €
		XF-s, fine 240	6606	0 545 182	27.30 €	22.60 €
rectangular						
	25 x 3 x 150 mm	C-coarse 40	6801	0 545 191	13.35 €	11.15 €
		M-medium 90	6801	0 545 192	13.35 €	11.15 €
		F-fine 120	6801	0 545 193	13.35 €	11.15 €
	25 x 6 x 150 mm	C-coarse 40	6802	0 545 199	15.80 €	13.15 €
		M-medium 90	6802	0 545 200	15.80 €	13.15 €
		F-fine 120	6802	0 545 201	15.80 €	13.15 €
	25 x 9.5 x 150 mm	C-coarse 40	6803	0 545 203	18.00 €	14.70 €
		M-medium 90	6803	0 545 204	18.00 €	14.70 €
		F-fine 120	6803	0 545 205	18.00 €	14.70 €
		XF-s, fine 240	6803	0 545 206	18.00 €	14.70 €
round						
	Ø 4.8 x 150 mm	M-medium 90	036	0 545 228	7.70 €	5.90 €
		F-fine 120	036	0 545 229	7.70 €	5.90 €
	Ø 6 x 150 mm	C-coarse 40	046	0 545 231	8.40 €	7.05 €
		M-medium 90	046	0 545 232	8.40 €	7.05 €
		F-fine 120	046	0 545 233	8.40 €	7.05 €
		XF-s, fine 240	046	0 545 234	8.40 €	7.05 €
	Ø 9.5 x 150 mm	M-medium 90	066	0 545 240	9.50 €	8.00 €
		F-fine 120	066	0 545 241	9.50 €	8.00 €
		XF-s, fine 240	066	0 545 242	9.50 €	8.00 €
	Ø 12.5 x 150 mm	C-coarse 40	086	0 545 243	13.25 €	11.05 €
		M-medium 90	086	0 545 244	13.25 €	11.05 €
		F-fine 120	086	0 545 245	13.25 €	11.05 €
		XF-s, fine 240	086	0 545 246	13.25 €	11.05 €
	Ø 16 x 150 mm	M-medium 90	0106	0 545 248	20.00 €	16.40 €
		F-fine 120	0106	0 545 249	20.00 €	16.40 €
	Ø 18 x 150 mm	C-coarse 40	0126	0 545 251	24.50 €	20.30 €
		M-medium 90	0126	0 545 252	24.50 €	20.30 €
		F-fine 120	0126	0 545 253	24.50 €	20.30 €
	Ø 25 x 150 mm	F-fine 120	0166	0 545 261	43.20 €	35.50 €

Grinding and polishing stones

217 joke stones

222 Gesswein® stones

232 Boride® stones

240 Bench stones

243 Holder for grinding and polishing stones

		Typ	Page	Tool steel	Steels	Erosion structures	Stainless steel	Aluminium	Non-ferrous metals	Hard metal
joke		FD	217	◆						◆
		JB 1	218	◆	◆	◆				
		JB 2	219	◆	◆	◆				
		C-AS	220	◆	◆		◆	◆	◆	
		Royal S	221	◆	◆	◆				
Gesswein®		EDM BLUE	222	◆	◆	◆				
		OT	223	◆	◆	◆				
		EDM	224	◆	◆	◆				
		DIEMAKER	225	◆	◆			◆	◆	
		MOLDMAKER	226	◆	◆		◆	◆	◆	
		ULTRASOFT	228	◆	◆	◆	◆	◆	◆	
		PREMIUM WHITE	229	◆	◆		◆	◆	◆	
		SUPER FINE	230	◆	◆		◆	◆	◆	
		GP-STONE	231	◆	◆	◆	◆	◆	◆	
	Boride®		CS-HD	232	◆	◆	◆	◆		
		T2	233	◆	◆	◆				
		Orange EDM	234	◆	◆	◆				
		A0	235	◆	◆	◆				
		Golden Star	236	◆	◆		◆	◆	◆	
		AM-2	237	◆	◆	◆				
		RO-MED	238	◆	◆	◆				
		CS-M	240	◆	◆	◆	◆	◆	◆	
		RASP	239	◆	◆	◆	◆	◆	◆	

Grinding and polishing stones

joke FD

These ceramic oxide stones consist of mixed crystals of outstanding hardness. The main component is aluminium oxide. This crystal occurs naturally as ruby, hence the name "ruby stones" or "degussit".

The stones are free of bonding agents, absolutely dimensionally stable and low-wear. Ideal for manual use and in ultrasonic polishing systems.

Tip: well suited for carbide metal processing and very fine finishing after grinding.



Bonding

1	2	3	4	5
soft				hard

Stock removal

1	2	3	4	5
slow				fast

Wear

1	2	3	4	5
slow				fast

Application

1	2	3	4	5
Preparatory work				Finishing

Dimensions	Grit size	Type	Order No.	Price from 1 piece
Grinding and polishing stones, joke FD				
crossing				
4 x 1.5 x 100 mm	fine	FD	0 401 570	18.00 €
three-square				
2 x 50 mm	fine	FD	0 401 566	4.69 €
3 x 100 mm	fine	FD	0 401 567	13.95 €
4 x 100 mm	fine	FD	0 401 586	36.75 €
	medium	FD	0 401 587	36.95 €
5 x 1.5 x 100 mm	fine	FD	0 401 571	15.40 €
6 x 100 mm	fine	FD	0 401 588	34.75 €
	medium	FD	0 401 589	33.80 €
8 x 100 mm	fine	FD	0 401 590	67.10 €
	medium	FD	0 401 591	59.20 €
halfround				
4 x 100 mm	fine	FD	0 401 562	18.00 €
square				
1 x 50 mm	fine	FD	0 401 568	4.39 €
2 x 100 mm	fine	FD	0 401 569	9.70 €
4 x 100 mm	fine	FD	0 401 592	50.35 €
	medium	FD	0 401 593	44.00 €
6 x 100 mm	fine	FD	0 401 594	42.45 €
	medium	FD	0 401 595	36.55 €
8 x 100 mm	fine	FD	0 401 596	59.00 €
	medium	FD	0 401 597	58.90 €
rectangular				
3 x 0.3 x 50 mm	fine	FD	0 401 561	4.69 €
6 x 3 x 100 mm	fine	FD	0 401 576	35.30 €
	medium	FD	0 401 577	35.90 €
8 x 6 x 100 mm	fine	FD	0 401 578	53.90 €
	medium	FD	0 401 579	45.60 €
round				
1 x 50 mm	fine	FD	0 401 563	3.81 €
2 x 100 mm	fine	FD	0 401 564	9.70 €
3 x 100 mm	fine	FD	0 401 565	9.80 €
4 x 100 mm	fine	FD	0 401 580	46.30 €
	medium	FD	0 401 581	42.65 €
6 x 100 mm	fine	FD	0 401 582	49.00 €
	medium	FD	0 401 583	46.70 €
8 x 100 mm	fine	FD	0 401 584	57.75 €
	medium	FD	0 401 585	55.75 €

Grinding and polishing stones joke JB1

These grinding and polishing stones are made of pink highgrade corundum in a soft bond. They can be used dry. When used without oil, the grinding residues are simply removed with a brush. The JB1 grinding and polishing stones are suitable for both soft and hard materials and are used, for example, on milled or ground surfaces and contours.



Bonding

1	2	3	4	5
soft				hard

Stock removal

1	2	3	4	5
slow				fast

Wear

1	2	3	4	5
slow				fast

Application

1	2	3	4	5
Preparatory work				Finishing

Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
Grinding and polishing stones, joke JB1						
square						
6 x 6 x 150 mm	80	JB1	0 401 675	5.45 €	5.10 €	4.69 €
	120	JB1	0 401 676	5.45 €	5.10 €	4.69 €
	180	JB1	0 401 677	5.45 €	5.10 €	4.69 €
4 x 4 x 150 mm	120	JB1	0 401 805	4.63 €	4.38 €	4.04 €
	180	JB1	0 401 815	4.63 €	4.38 €	4.04 €
rectangular						
6 x 3 x 150 mm	80	JB1	0 401 801	4.63 €	4.38 €	4.04 €
	120	JB1	0 401 806	4.63 €	4.38 €	4.04 €
	180	JB1	0 401 816	4.63 €	4.38 €	4.04 €
13 x 3 x 150 mm	80	JB1	0 401 802	6.75 €	6.10 €	5.35 €
	120	JB1	0 401 807	5.40 €	5.05 €	4.70 €
	180	JB1	0 401 817	6.75 €	6.10 €	5.35 €
13 x 6 x 150 mm	80	JB1	0 401 803	7.40 €	7.05 €	6.40 €
	120	JB1	0 401 808	7.40 €	7.05 €	6.40 €
	180	JB1	0 401 818	7.40 €	7.05 €	6.40 €
20 x 10 x 150 mm	80	JB1	0 401 804	12.55 €	11.70 €	10.90 €
	120	JB1	0 401 809	12.55 €	11.70 €	10.90 €
	180	JB1	0 401 819	12.55 €	11.70 €	10.90 €

Grinding and polishing stone oil (fluid) for all grinding and polishing stones

The oil/fluid suitable for all grinding and polishing stones. Very economical to use and practically odourless. The use of this fluid prevents clogging of stones during processing. The grinding tools cut better, producing a brilliant, uniform surface.

Content	Order No.	Price from	
		1 piece	5 pieces
Grinding and polishing stone oil (fluid)			
1 litre	0 401 870	17.10 €	
5 litres	0 401 870-5	75.60 €	70.30 €



Grinding and polishing stones

joke JB2

These stones of sulphured high-grade corundum are particularly suitable for grinding eroded surfaces and contours. The hard bond guarantees a very high edge strength for the stones and at the same time prevents excessive clogging. The additional use of grinding stone oil (fluid) is recommended.



Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
Grinding and polishing stones, joke JB2						
rectangular						
6 x 3 x 150 mm	180	JB2	0 401 821	6.10 €	5.40 €	4.98 €
	320	JB2	0 401 826	6.10 €	5.40 €	4.98 €
	600	JB2	0 401 841	7.95 €	7.50 €	7.05 €
13 x 3 x 150 mm	180	JB2	0 401 822	6.10 €	5.40 €	4.98 €
	320	JB2	0 401 827	6.10 €	5.40 €	4.98 €
13 x 6 x 150 mm	120	JB2	0 401 813	7.85 €	7.40 €	6.85 €
	180	JB2	0 401 823	7.85 €	7.40 €	6.85 €
	320	JB2	0 401 828	7.85 €	7.40 €	6.85 €
	600	JB2	0 401 843	10.15 €	9.25 €	8.60 €
20 x 10 x 150 mm	120	JB2	0 401 814	12.55 €	11.70 €	10.90 €
	320	JB2	0 401 829	12.55 €	11.70 €	10.90 €

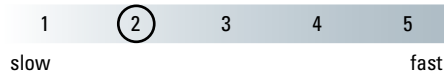
Bonding



Stock removal



Wear



Application



Grinding and polishing stones

joke C-AS

joke C-AS stones are made from white high-grade corundum with sulphured graphite to prevent tearing on the surface. The bond is hard and therefore edge-stable. Use with a fluid or file oil is recommended.



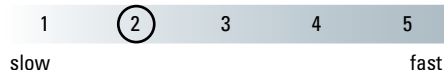
Bonding



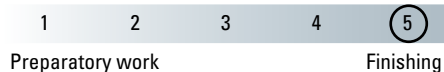
Stock removal



Wear



Application



Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
Grinding and polishing stones, joke C-AS						
square						
6 x 6 x 125 mm	220	C-AS	0 414 023	7.95 €	7.50 €	7.05 €
	320	C-AS	0 414 024	7.95 €	7.50 €	7.05 €
	400	C-AS	0 414 025	7.95 €	7.50 €	7.05 €
	600	C-AS	0 414 026	9.50 €	9.05 €	8.40 €
	800	C-AS	0 414 027	9.50 €	9.05 €	8.40 €
	1000	C-AS	0 414 028	9.50 €	9.05 €	8.40 €
	1200	C-AS	0 414 029	9.50 €	9.05 €	8.40 €
rectangular						
12 x 3 x 125 mm	220	C-AS	0 414 033	7.95 €	7.50 €	7.05 €
	320	C-AS	0 414 034	7.95 €	7.50 €	7.05 €
	400	C-AS	0 414 035	7.95 €	7.50 €	7.05 €
	600	C-AS	0 414 036	9.50 €	9.05 €	8.40 €
	800	C-AS	0 414 037	9.50 €	9.05 €	8.40 €
	1000	C-AS	0 414 038	9.50 €	9.05 €	8.40 €
	1200	C-AS	0 414 039	9.50 €	9.05 €	8.40 €
12 x 6 x 125 mm	220	C-AS	0 414 043	10.15 €	9.25 €	8.60 €
	320	C-AS	0 414 044	10.15 €	9.25 €	8.60 €
	400	C-AS	0 414 045	10.15 €	9.25 €	8.60 €
	600	C-AS	0 414 046	12.45 €	11.60 €	10.90 €
	800	C-AS	0 414 047	12.45 €	11.60 €	10.90 €
	1000	C-AS	0 414 048	12.45 €	11.60 €	10.90 €
	1200	C-AS	0 414 049	12.45 €	11.60 €	10.90 €

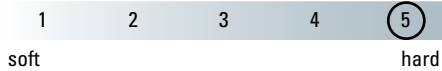
Grinding and polishing stones

joke Royal S

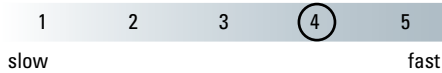
These aluminium oxide grinding stones with a special oil impregnation have very good dry running properties and a very hard bond. The stones are used for finishing soft and hard metals. The very mild microsection makes it possible to achieve optimum surfaces up to superfinish. Contours can be retained easily.



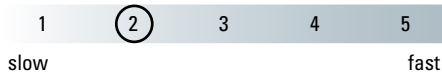
Bonding



Stock removal



Wear



Application

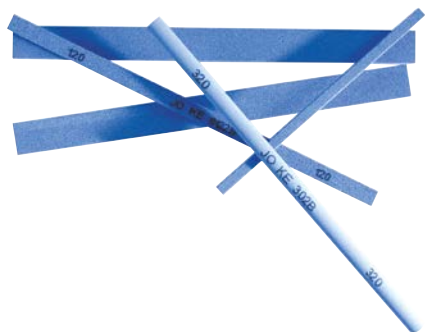


Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
Grinding and polishing stones, joke Royal S						
square						
6 x 6 x 150 mm	320	Royal S	0 401 862	8.15 €	7.70 €	7.20 €
	400	Royal S	0 401 863	8.15 €	7.70 €	7.20 €
	600	Royal S	0 401 864	9.80 €	9.05 €	8.30 €
	800	Royal S	0 401 865	11.15 €	10.15 €	9.15 €
	1000	Royal S	0 401 866	12.25 €	11.35 €	10.50 €
rectangular						
6 x 3 x 150 mm	320	Royal S	0 401 831	7.40 €	7.05 €	6.40 €
	400	Royal S	0 401 836	7.40 €	7.05 €	6.40 €
	600	Royal S	0 401 846	9.25 €	8.60 €	8.15 €
	800	Royal S	0 401 851	10.15 €	9.25 €	8.60 €
	1000	Royal S	0 401 856	11.35 €	10.70 €	9.70 €
13 x 3 x 150 mm	320	Royal S	0 401 832	8.95 €	8.40 €	7.70 €
	400	Royal S	0 401 837	8.95 €	8.40 €	7.70 €
	600	Royal S	0 401 847	10.70 €	9.70 €	9.05 €
	800	Royal S	0 401 852	11.35 €	10.70 €	9.70 €
	1000	Royal S	0 401 857	12.70 €	12.00 €	11.25 €
13 x 6 x 150 mm	320	Royal S	0 401 833	10.15 €	9.25 €	8.60 €
	400	Royal S	0 401 838	10.15 €	9.25 €	8.60 €
	600	Royal S	0 401 848	12.45 €	11.60 €	10.90 €
	800	Royal S	0 401 853	13.45 €	12.55 €	11.70 €
	1000	Royal S	0 401 858	14.55 €	13.65 €	12.70 €

Grinding and polishing stones

Gesswein® EDM BLUE

Premium aluminium oxide stones. The hardest Gesswein® stones. Ideal for use with hand-filing machines and ultrasonic polishing systems. As these stones are a lot harder than the EDM series, they are better suited for the quick removal of hard erosion skin. Optimum results in conjunction with fluid.



Bonding

1	2	3	4	5
soft				hard

Stock removal

1	2	3	4	5
slow				fast

Wear

1	2	3	4	5
slow				fast

Application

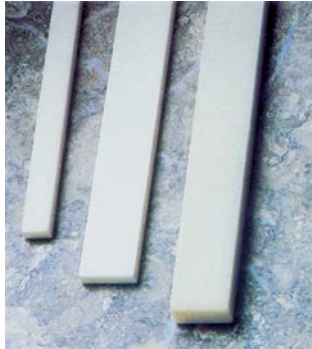
1	2	3	4	5
Preparatory work				Finishing

Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
Grinding and polishing stones Gesswein® EDM BLUE						
square						
4 x 4 x 100 mm	120	EDM BLUE 61	0 401 601	3.28 €	2.89 €	2.40 €
	180	EDM BLUE 62	0 401 602	3.28 €	2.89 €	2.40 €
	220	EDM BLUE 622	0 401 603	3.28 €	2.89 €	2.40 €
	320	EDM BLUE 63	0 401 604	3.28 €	2.89 €	2.40 €
	400	EDM BLUE 64	0 401 605	3.28 €	2.89 €	2.40 €
	600	EDM BLUE 66	0 401 606	3.71 €	3.15 €	2.77 €
6 x 6 x 150 mm	120	EDM BLUE 6122	0 401 613	4.90 €	4.22 €	3.71 €
	180	EDM BLUE 6182	0 401 614	4.90 €	4.22 €	3.71 €
	220	EDM BLUE 6202	0 401 615	4.90 €	4.22 €	3.71 €
	320	EDM BLUE 6302	0 401 616	5.15 €	4.67 €	4.03 €
	400	EDM BLUE 6402	0 401 617	5.15 €	4.67 €	4.03 €
	600	EDM BLUE 6602	0 401 618	6.70 €	5.90 €	4.78 €
rectangular						
6 x 3 x 150 mm	120	EDM BLUE 6121	0 401 607	4.59 €	4.10 €	3.53 €
	180	EDM BLUE 6181	0 401 608	4.59 €	4.10 €	3.53 €
	220	EDM BLUE 6201	0 401 609	4.59 €	4.10 €	3.53 €
	320	EDM BLUE 6301	0 401 610	4.84 €	4.40 €	3.71 €
	400	EDM BLUE 6401	0 401 611	4.84 €	4.40 €	3.71 €
	600	EDM BLUE 6601	0 401 612	6.00 €	4.97 €	4.34 €
13 x 1.6 x 150 mm	120	EDM BLUE 6120	0 401 619	4.97 €	4.34 €	3.83 €
	180	EDM BLUE 6180	0 401 620	4.97 €	4.34 €	3.83 €
	220	EDM BLUE 6200	0 401 621	4.97 €	4.34 €	3.83 €
	320	EDM BLUE 6300	0 401 622	5.90 €	4.84 €	4.22 €
	400	EDM BLUE 6400	0 401 623	5.90 €	4.84 €	4.22 €
	600	EDM BLUE 6600	0 401 624	6.80 €	5.90 €	4.84 €
13 x 3 x 150 mm	120	EDM BLUE 6123	0 401 625	5.30 €	4.59 €	3.97 €
	180	EDM BLUE 6183	0 401 626	5.30 €	4.59 €	3.97 €
	220	EDM BLUE 6203	0 401 627	5.30 €	4.59 €	3.97 €
	320	EDM BLUE 6303	0 401 628	5.90 €	4.84 €	4.22 €
	400	EDM BLUE 6403	0 401 629	5.90 €	4.84 €	4.22 €
	600	EDM BLUE 6603	0 401 630	7.95 €	7.15 €	6.30 €
13 x 6 x 150 mm	120	EDM BLUE 6124	0 401 631	6.95 €	5.90 €	4.73 €
	180	EDM BLUE 6184	0 401 632	6.95 €	5.90 €	4.73 €
	220	EDM BLUE 6204	0 401 633	6.95 €	5.90 €	4.73 €
	320	EDM BLUE 6304	0 401 634	7.35 €	6.70 €	5.70 €
	400	EDM BLUE 6404	0 401 635	7.35 €	6.70 €	5.70 €
	600	EDM BLUE 6604	0 401 636	10.55 €	9.30 €	7.95 €
round						
Ø 6 x 150 mm	120	EDM BLUE E122	0 401 637	9.30 €	8.15 €	7.25 €
	180	EDM BLUE E182	0 401 638	9.30 €	8.15 €	7.25 €
	320	EDM BLUE E302	0 401 639	13.10 €	11.55 €	10.20 €

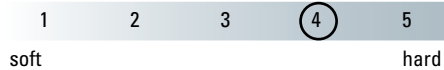
Grinding and polishing stones

Gesswein® OT

These hard white aluminium oxide stones are ideal for fine work on both hard and soft metals and in particular for the finishing of slots and points that are difficult to reach. A sophisticated oil impregnation ensures that the OT stones do not clog up and an excellent grinding pattern is achieved.



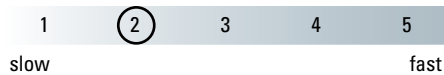
Bonding



Stock removal



Wear



Application

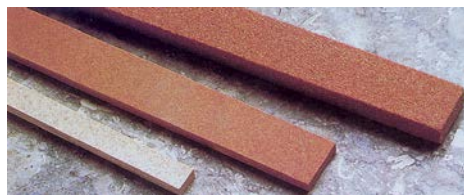


Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
Grinding and polishing stones, Gesswein® OT						
square						
4 x 4 x 100 mm	120	OT 51	0 401 276	3.28 €	2.89 €	2.40 €
	220	OT 52	0 401 277	3.28 €	2.89 €	2.40 €
	320	OT 53	0 401 278	3.28 €	2.89 €	2.40 €
	400	OT 54	0 401 279	3.28 €	2.89 €	2.40 €
	600	OT 56	0 401 280	3.71 €	3.15 €	2.77 €
4 x 4 x 150 mm	120	OT 51	0 401 202	4.71 €	4.16 €	3.44 €
	220	OT 52	0 401 203	4.71 €	4.16 €	3.44 €
	320	OT 53	0 401 204	4.71 €	4.05 €	3.38 €
	400	OT 54	0 401 205	4.71 €	4.05 €	3.38 €
	600	OT 56	0 401 206	5.30 €	4.52 €	3.77 €
6 x 6 x 150 mm	120	OT 5102	0 401 286	5.30 €	4.59 €	3.97 €
	220	OT 5202	0 401 287	5.30 €	4.59 €	3.97 €
	320	OT 5302	0 401 288	5.70 €	4.73 €	4.10 €
	400	OT 5402	0 401 289	5.70 €	4.73 €	4.10 €
	600	OT 5602	0 401 290	7.15 €	6.40 €	5.15 €
rectangular						
6 x 3 x 150 mm	120	OT 5101	0 401 281	4.97 €	4.34 €	3.83 €
	220	OT 5201	0 401 282	4.97 €	4.34 €	3.83 €
	320	OT 5301	0 401 283	5.15 €	4.67 €	4.03 €
	400	OT 5401	0 401 284	5.15 €	4.67 €	4.03 €
	600	OT 5601	0 401 285	6.40 €	5.50 €	4.48 €
13 x 3 x 150 mm	120	OT 5103	0 401 291	5.70 €	4.73 €	4.10 €
	220	OT 5203	0 401 292	5.70 €	4.73 €	4.10 €
	320	OT 5303	0 401 293	6.30 €	5.15 €	4.48 €
	400	OT 5403	0 401 294	6.30 €	5.15 €	4.48 €
	600	OT 5603	0 401 295	7.55 €	6.80 €	5.70 €
13 x 6 x 150 mm	800	OT 5803	0 401 254	7.85 €	7.05 €	6.30 €
	1200	OT 5903	0 401 255	8.45 €	7.55 €	6.80 €
	120	OT 5104	0 401 296	7.25 €	6.60 €	5.15 €
	220	OT 5204	0 401 297	7.25 €	6.60 €	5.15 €
	320	OT 5304	0 401 298	8.15 €	7.35 €	6.60 €
25 x 13 x 150 mm	400	OT 5404	0 401 299	8.15 €	7.35 €	6.60 €
	600	OT 5604	0 401 300	10.30 €	8.90 €	7.85 €
	800	OT 5804	0 401 256	10.85 €	9.50 €	8.45 €
	1200	OT 5904	0 401 257	11.75 €	10.45 €	9.20 €
	120	OT	0 401 641	12.80 €	11.45 €	9.50 €
25 x 13 x 150 mm	220	OT	0 401 642	12.80 €	11.45 €	9.50 €
	320	OT	0 401 643	13.85 €	12.30 €	10.30 €
	400	OT	0 401 644	13.85 €	12.30 €	10.30 €
	600	OT	0 401 645	17.55 €	15.70 €	13.00 €

Grinding and polishing stones

Gesswein® EDM

The cutting effect of these stones makes them ideal for processing of moulds manufactured by electroerosion. The sharp and easy-cutting premium aluminium oxide strips the extremely hard surface layer that remains after electroerosion in a very short time. EDM stones are very hard and therefore dimensionally stable and do not clog. Further surface refinement can be achieved with the subsequent use of finer grit sizes of DF quality.



Bonding

1	2	3	4	5
soft				hard

Stock removal

1	2	3	4	5
slow				fast

Wear

1	2	3	4	5
slow				fast

Application

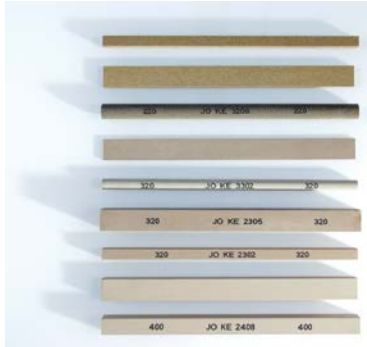
1	2	3	4	5
Preparatory work				Finishing

Dimensions	Grit size	Type	Order No.	Price from			
				1 piece	12 pieces	60 pieces	
Grinding and polishing stones, Gesswein® EDM							
square							
4 x 4 x 100 mm	180	EDM 62	0 401 002	3.28 €	2.89 €	2.40 €	
	220	EDM 622	0 401 755	3.28 €	2.89 €	2.40 €	
	320	EDM 63	0 401 003	3.28 €	2.89 €	2.40 €	
	400	EDM 64	0 401 710	3.28 €	2.89 €	2.40 €	
	600	EDM 66	0 401 711	3.71 €	3.15 €	2.77 €	
6 x 6 x 150 mm	120	EDM 6122	0 401 010	4.90 €	4.22 €	3.71 €	
	180	EDM 6182	0 401 011	4.90 €	4.22 €	3.71 €	
	220	EDM 6202	0 401 752	4.90 €	4.22 €	3.71 €	
	320	EDM 6302	0 401 012	5.15 €	4.67 €	4.03 €	
	400	EDM 6402	0 401 716	5.15 €	4.67 €	4.03 €	
10 x 10 x 150 mm	600	EDM 6602	0 401 717	6.70 €	5.90 €	4.78 €	
	120	EDM 6128	0 401 019	7.05 €	6.30 €	4.97 €	
	180	EDM 6188	0 401 020	7.05 €	6.30 €	4.97 €	
10 x 10 x 150 mm	320	EDM 6308	0 401 021	7.65 €	6.95 €	5.90 €	
	rectangular						
	6 x 3 x 150 mm	120	EDM 6121	0 401 007	4.59 €	4.10 €	3.53 €
		180	EDM 6181	0 401 008	4.59 €	4.10 €	3.53 €
		220	EDM 6201	0 401 751	4.59 €	4.10 €	3.53 €
320		EDM 6301	0 401 009	4.84 €	4.40 €	3.71 €	
400		EDM 6401	0 401 714	4.84 €	4.40 €	3.71 €	
6 x 3 x 150 mm	600	EDM 6601	0 401 715	6.00 €	4.97 €	4.34 €	
	120	EDM 6120	0 401 004	4.97 €	4.34 €	3.83 €	
	180	EDM 6180	0 401 005	4.97 €	4.34 €	3.83 €	
	320	EDM 6300	0 401 006	5.90 €	4.84 €	4.22 €	
	400	EDM 6400	0 401 712	5.90 €	4.84 €	4.22 €	
13 x 1.6 x 150 mm	600	EDM 6603	0 401 719	7.95 €	7.15 €	6.30 €	
	120	EDM 6123	0 401 013	5.30 €	4.59 €	3.97 €	
	180	EDM 6183	0 401 014	5.30 €	4.59 €	3.97 €	
	220	EDM 6203	0 401 753	5.30 €	4.59 €	3.97 €	
	320	EDM 6303	0 401 015	5.90 €	4.84 €	4.22 €	
13 x 3 x 150 mm	400	EDM 6403	0 401 718	5.90 €	4.84 €	4.22 €	
	600	EDM 6604	0 401 721	10.55 €	9.30 €	7.95 €	
	120	EDM 6124	0 401 016	6.95 €	5.90 €	4.73 €	
	180	EDM 6184	0 401 017	6.95 €	5.90 €	4.73 €	
	220	EDM 6204	0 401 708	6.95 €	5.90 €	4.73 €	
13 x 6 x 150 mm	320	EDM 6304	0 401 018	7.35 €	6.70 €	5.70 €	
	400	EDM 6404	0 401 720	7.35 €	6.70 €	5.70 €	
	600	EDM 6604	0 401 721	10.55 €	9.30 €	7.95 €	
	120	EDM	0 401 273	31.95 €	28.05 €	24.45 €	
	180	EDM	0 401 274	31.95 €	28.05 €	24.45 €	
40 x 25 x 150 mm	320	EDM	0 401 275	39.70 €	34.75 €	30.20 €	
	round						
	Ø 6 x 150 mm	120	EDM 122	0 401 264	9.30 €	8.15 €	7.25 €
180		EDM 182	0 401 265	9.30 €	8.15 €	7.25 €	
320		EDM 302	0 401 266	10.20 €	8.80 €	7.65 €	
400		EDM 402	0 401 722	13.10 €	11.55 €	10.20 €	
220		EDM 222	0 401 750	9.30 €	8.15 €	7.25 €	

Grinding and polishing stones

Gesswein® DIEMAKER

The original "diemaker stones". Medium hard aluminium oxide combined with a semi-soft bond results in a DF stone quality with high dimensional stability and existing contours are therefore easily rectified. They are mainly used for cutting and punching tools, but are also very suitable for mould and tool making.



Bonding

1	2	3	4	5
soft				hard

Stock removal

1	2	3	4	5
slow				fast

Wear

1	2	3	4	5
slow				fast

Application

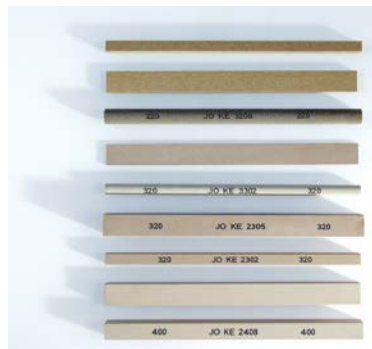
1	2	3	4	5
Preparatory work				Finishing

Dimensions	Grit size	Type	Order No.	Price from			
				1 piece	12 pieces	60 pieces	
Grinding and polishing stones Gesswein® DIEMAKER							
three-square							
10 x 10 x 10 x 150 mm	150	DIEMAKER 2198	0 401 249	7.65 €	6.80 €	5.90 €	
	220	DIEMAKER 2298	0 401 250	7.65 €	6.80 €	5.90 €	
	320	DIEMAKER 2398	0 401 251	7.95 €	7.15 €	6.30 €	
	400	DIEMAKER 2498	0 401 252	7.95 €	7.15 €	6.30 €	
square							
4 x 4 x 100 mm	150	DIEMAKER 0010	0 401 786	3.02 €	2.77 €	2.30 €	
	220	DIEMAKER 2	0 401 141	3.02 €	2.77 €	2.30 €	
	320	DIEMAKER 3	0 401 142	3.02 €	2.77 €	2.30 €	
	400	DIEMAKER 4	0 401 143	3.02 €	2.77 €	2.30 €	
	600	DIEMAKER 6	0 401 144	3.40 €	3.02 €	2.65 €	
	800	DIEMAKER 8	0 401 145	3.71 €	3.15 €	2.77 €	
	900	DIEMAKER 9	0 401 146	3.40 €	3.02 €	2.65 €	
	6 x 6 x 150 mm	150	DIEMAKER 2102	0 401 748	4.59 €	4.10 €	3.40 €
		220	DIEMAKER 2202	0 401 158	4.59 €	4.10 €	3.40 €
320		DIEMAKER 2302	0 401 159	5.15 €	4.48 €	3.97 €	
400		DIEMAKER 2402	0 401 160	5.15 €	4.48 €	3.97 €	
600		DIEMAKER 2602	0 401 161	6.30 €	5.15 €	4.48 €	
900		DIEMAKER 2902	0 401 162	7.35 €	6.60 €	5.30 €	
10 x 10 x 150 mm	150	DIEMAKER 2108	0 401 757	7.05 €	6.30 €	4.97 €	
	220	DIEMAKER 2208	0 401 163	7.05 €	6.30 €	4.97 €	
	320	DIEMAKER 2308	0 401 164	7.65 €	6.95 €	5.90 €	
	400	DIEMAKER 2408	0 401 165	7.65 €	6.95 €	5.90 €	
	600	DIEMAKER 2608	0 401 166	10.30 €	8.90 €	7.85 €	
	900	DIEMAKER 2908	0 401 167	12.70 €	11.35 €	10.00 €	
	13 x 13 x 150 mm	150	DIEMAKER 2105	0 401 789	8.15 €	7.35 €	6.60 €
		220	DIEMAKER 2205	0 401 183	8.15 €	7.35 €	6.60 €
		320	DIEMAKER 2305	0 401 184	11.85 €	10.65 €	8.90 €
400		DIEMAKER 2405	0 401 185	11.85 €	10.65 €	8.90 €	
25 x 25 x 150 mm		150	DIEMAKER 2106	0 401 237	19.40 €	16.80 €	14.85 €
	220	DIEMAKER 2206	0 401 238	19.40 €	16.80 €	14.85 €	

Grinding and polishing stones

Gesswein® DIEMAKER

The original "diemaker stones". Medium hard aluminium oxide combined with a semi-soft bond results in a DF stone quality with high dimensional stability and existing contours are therefore easily rectified. They are mainly used for cutting and punching tools, but are also very suitable for mould and tool making.



Bonding

1	2	3	4	5
soft				hard

Stock removal

1	2	3	4	5
slow				fast

Wear

1	2	3	4	5
slow				fast

Application

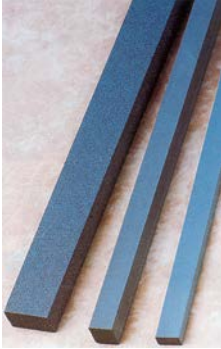
1	2	3	4	5
Preparatory work				Finishing

Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
rectangular						
6 x 1,6 x 100 mm	220	DIEMAKER 2210	0 401 148	3.02 €	2.65 €	2.27 €
	320	DIEMAKER 2310	0 401 149	3.40 €	3.02 €	2.49 €
	400	DIEMAKER 2410	0 401 150	3.40 €	3.02 €	2.49 €
	600	DIEMAKER 2610	0 401 151	3.97 €	3.40 €	3.02 €
6 x 3 x 150 mm	150	DIEMAKER 2101	0 401 242	4.34 €	3.83 €	3.40 €
	220	DIEMAKER 2201	0 401 153	4.34 €	3.83 €	3.40 €
	320	DIEMAKER 2301	0 401 154	4.84 €	4.40 €	3.71 €
	400	DIEMAKER 2401	0 401 155	4.84 €	4.40 €	3.71 €
	600	DIEMAKER 2601	0 401 156	5.90 €	4.84 €	4.22 €
	900	DIEMAKER 2901	0 401 157	6.30 €	5.15 €	4.48 €
13 x 1,6 x 150 mm	220	DIEMAKER 2200	0 401 168	4.97 €	4.34 €	3.83 €
	320	DIEMAKER 2300	0 401 169	5.90 €	4.84 €	4.22 €
	400	DIEMAKER 2400	0 401 170	5.90 €	4.84 €	4.22 €
	600	DIEMAKER 2600	0 401 171	6.80 €	5.90 €	4.84 €
13 x 3 x 150 mm	150	DIEMAKER 2103	0 401 705	5.30 €	4.59 €	3.97 €
	220	DIEMAKER 2203	0 401 173	5.30 €	4.59 €	3.97 €
	320	DIEMAKER 2303	0 401 174	6.00 €	4.97 €	4.34 €
	400	DIEMAKER 2403	0 401 175	6.00 €	4.97 €	4.34 €
	600	DIEMAKER 2603	0 401 176	7.05 €	6.30 €	4.97 €
13 x 6 x 150 mm	150	DIEMAKER 2104	0 401 747	6.60 €	5.30 €	4.59 €
	220	DIEMAKER 2204	0 401 178	6.60 €	5.30 €	4.59 €
	320	DIEMAKER 2304	0 401 179	7.35 €	6.60 €	5.30 €
	400	DIEMAKER 2404	0 401 180	7.35 €	6.60 €	5.30 €
	600	DIEMAKER 2604	0 401 181	9.10 €	7.95 €	7.05 €
25 x 12 x 150 mm	150	DIEMAKER 2107	0 401 231	11.45 €	10.20 €	8.70 €
	220	DIEMAKER 2207	0 401 232	11.45 €	10.20 €	8.70 €
	320	DIEMAKER 2307	0 401 233	17.45 €	15.60 €	13.30 €
	400	DIEMAKER 2407	0 401 234	17.45 €	15.60 €	13.30 €
	600	DIEMAKER 2607	0 401 235	23.00 €	20.40 €	17.55 €
round						
Ø 6 x 150 mm	220	DIEMAKER 3202	0 401 188	8.90 €	7.95 €	7.05 €
	320	DIEMAKER 3302	0 401 189	10.00 €	8.70 €	7.45 €
	400	DIEMAKER 3402	0 401 190	10.00 €	8.70 €	7.45 €
	600	DIEMAKER 3602	0 401 191	10.30 €	8.90 €	7.75 €
	900	DIEMAKER 3902	0 401 192	12.50 €	11.15 €	9.50 €
Ø 10 x 150 mm	220	DIEMAKER 3208	0 401 193	11.15 €	10.00 €	8.45 €
	320	DIEMAKER 3308	0 401 194	14.75 €	12.80 €	11.35 €
	400	DIEMAKER 3408	0 401 195	14.75 €	12.80 €	11.35 €
	600	DIEMAKER 3608	0 401 196	17.00 €	15.25 €	13.10 €

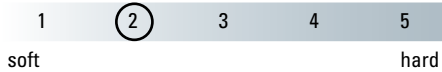
Grinding and polishing stones

Gesswein® MOLDMAKER

These stones produce a silk-matt surface. As abrasive for these stones, silicon carbide or premium silicon carbide is used. The soft bonding results in fast cutting action and prevents clogging of the stones. Since these M stones easily adapt to the required profile, they are ideal for outlines and radii.



Bonding



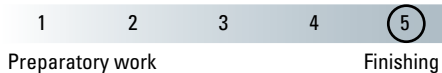
Stock removal



Wear



Application



Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
Grinding and polishing stones Gesswein® MOLDMAKER						
square						
4 x 4 x 100 mm	220	MOLDMAKER 1020P	0 401 766	3.02 €	2.65 €	2.24 €
	320	MOLDMAKER 1030P	0 401 767	3.02 €	2.65 €	2.24 €
	400	MOLDMAKER 1040P	0 401 768	3.02 €	2.65 €	2.24 €
	600	MOLDMAKER 1060P	0 401 769	3.40 €	3.02 €	2.59 €
	800	MOLDMAKER 1080P	0 401 770	3.83 €	3.28 €	2.89 €
6 x 6 x 100 mm	220	MOLDMAKER 202	0 401 089	2.79 €	2.60 €	2.40 €
	320	MOLDMAKER 302	0 401 090	3.28 €	3.05 €	2.82 €
	400	MOLDMAKER 402	0 401 091	3.39 €	3.15 €	2.93 €
	600	MOLDMAKER 602	0 401 092	4.01 €	3.71 €	3.46 €
	800	MOLDMAKER 1802P	0 401 774	8.05 €	7.25 €	6.40 €
6 x 6 x 150 mm	220	MOLDMAKER 1202	0 401 109	4.48 €	3.97 €	3.40 €
	320	MOLDMAKER 1302	0 401 110	5.50 €	4.67 €	3.97 €
	400	MOLDMAKER 1402	0 401 111	5.50 €	4.67 €	3.97 €
	600	MOLDMAKER 1602	0 401 112	6.95 €	6.00 €	4.84 €
	800	MOLDMAKER 1802P	0 401 774	8.05 €	7.25 €	6.40 €
13 x 13 x 150 mm	220	MOLDMAKER 1205	0 401 101-1	5.10 €	4.73 €	4.39 €
	320	MOLDMAKER 1305	0 401 102-1	6.60 €	6.10 €	5.50 €
	400	MOLDMAKER 1405	0 401 103-1	6.80 €	6.40 €	5.90 €
	600	MOLDMAKER 1605	0 401 104-1	8.35 €	7.85 €	7.35 €
rectangular						
6 x 3 x 100 mm	220	MOLDMAKER 201	0 401 085	2.54 €	2.36 €	2.21 €
	320	MOLDMAKER 301	0 401 086	3.03 €	2.81 €	2.62 €
	400	MOLDMAKER 401	0 401 087	3.20 €	2.98 €	2.78 €
	600	MOLDMAKER 601	0 401 088	3.64 €	3.38 €	3.14 €
	800	MOLDMAKER 1801P	0 401 772	7.95 €	7.15 €	6.30 €
6 x 3 x 150 mm	220	MOLDMAKER 1201	0 401 105	4.34 €	3.83 €	3.28 €
	320	MOLDMAKER 1301	0 401 106	5.15 €	4.48 €	3.97 €
	400	MOLDMAKER 1401	0 401 107	5.15 €	4.48 €	3.97 €
	600	MOLDMAKER 1601	0 401 108	6.80 €	5.90 €	4.84 €
	800	MOLDMAKER 1801P	0 401 772	7.95 €	7.15 €	6.30 €
13 x 3 x 150 mm	220	MOLDMAKER 1203	0 401 113	4.97 €	4.34 €	3.83 €
	320	MOLDMAKER 1303	0 401 114	6.40 €	5.15 €	4.48 €
	400	MOLDMAKER 1403	0 401 115	6.40 €	5.15 €	4.48 €
	600	MOLDMAKER 1603	0 401 116	7.75 €	7.05 €	6.00 €
	800	MOLDMAKER 1803P	0 401 776	9.30 €	8.15 €	7.25 €
13 x 6 x 100 mm	220	MOLDMAKER 204	0 401 097	4.22 €	3.71 €	3.28 €
	320	MOLDMAKER 304	0 401 098	6.30 €	5.15 €	4.48 €
	400	MOLDMAKER 404	0 401 099	6.30 €	5.15 €	4.48 €
	600	MOLDMAKER 604	0 401 100	7.75 €	6.95 €	5.90 €
13 x 6 x 150 mm	150	MOLDMAKER 1154P	0 401 123	3.52 €	3.27 €	3.03 €
	220	MOLDMAKER 1204	0 401 117	3.52 €	3.27 €	3.03 €
	320	MOLDMAKER 1304	0 401 118	4.35 €	4.06 €	3.77 €
	400	MOLDMAKER 1404	0 401 119	4.49 €	4.16 €	3.87 €
	600	MOLDMAKER 1604	0 401 120	5.30 €	4.84 €	4.51 €
	100	MOLDMAKER 1104P	0 401 125	7.05 €	6.30 €	5.05 €
	800	MOLDMAKER 1804P	0 401 778	11.65 €	10.45 €	8.70 €
	1200	MOLDMAKER 2004P	0 401 779	13.85 €	12.20 €	10.65 €

Grinding and polishing stones

Gesswein® Hybrid-Test-Set

Price from

Order No.

1 set

Hybrid-test set Gesswein



20 stones (dimensions: 6 x 6 x 150 mm),
1 piece each in grit size 220, 320, 400, 600:

0 401 140

49.35 €

- DIEMAKER
- EDM
- GP
- MOLDMAKER
- OT

Grinding and polishing stones

Gesswein® ULTRASOFT

The abrasive used for the ultrasoft version is white aluminium oxide. The very soft bond for a quick adaptation of these stones. The extra-soft bond prevents clogging. Perfectly suited for processing aluminium, beryllium, brass, bronze and stainless steel. These stones can be quickly and easily shaped.



Bonding

① 2 3 4 5
soft hard

Stock removal

1 ② 3 4 5
slow fast

Wear

1 2 3 ④ 5
slow fast

Application

1 2 3 4 ⑤
Preparatory work Finishing

Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
Grinding and polishing stones Gesswein® ULTRASOFT						
square						
6 x 6 x 150 mm	120	ULTRASOFT 7102	0 401 724	4.84 €	4.22 €	3.71 €
	320	ULTRASOFT 7302	0 401 725	5.70 €	4.73 €	4.10 €
	600	ULTRASOFT 7602	0 401 726	7.05 €	6.30 €	4.97 €
	1200	ULTRASOFT 7002	0 401 727	7.25 €	6.60 €	5.15 €
rectangular						
13 x 3 x 150 mm	120	ULTRASOFT 7103	0 401 728	5.90 €	4.84 €	4.22 €
	320	ULTRASOFT 7303	0 401 729	6.30 €	5.15 €	4.48 €
	600	ULTRASOFT 7603	0 401 730	7.35 €	6.60 €	5.30 €
	1200	ULTRASOFT 7003	0 401 731	7.85 €	7.05 €	6.30 €
13 x 6 x 150 mm	120	ULTRASOFT 7104	0 401 732	6.95 €	5.90 €	4.73 €
	320	ULTRASOFT 7304	0 401 733	7.65 €	6.95 €	5.90 €
	600	ULTRASOFT 7604	0 401 734	10.20 €	8.80 €	7.85 €
	1200	ULTRASOFT 7004	0 401 735	10.45 €	9.10 €	7.95 €
25 x 13 x 150 mm	120	ULTRASOFT 7107	0 401 736	12.20 €	10.75 €	9.30 €
	320	ULTRASOFT 7307	0 401 737	18.35 €	16.20 €	14.05 €

Grinding and polishing stones

Gesswein® PREMIUM WHITE

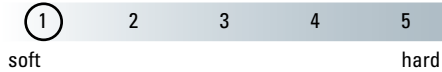
The medium-hard PREMIUM WHITE stones are ideally suited for all work on tool steels and have good dimensional stability. The stones are also suitable for use in ultrasonic polishing systems.



Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
Grinding and polishing stones Gesswein® PREMIUM WHITE						
square						
6 x 6 x 150 mm	600	PREMIUM WHITE 802	12 pieces	0 401 131-1	6.18 €	5.25 €
rectangular						
6 x 3 x 150 mm	600	PREMIUM WHITE 801	12 pieces	0 401 130-1	5.25 €	4.55 €
13 x 3 x 150 mm	600	PREMIUM WHITE 803	12 pieces	0 401 132-1	7.21 €	6.39 €
13 x 6 x 150 mm	600	PREMIUM WHITE 804	12 pieces	0 401 133-1	9.27 €	8.24 €



Bonding



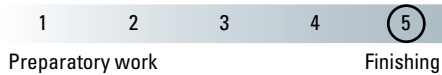
Stock removal



Wear



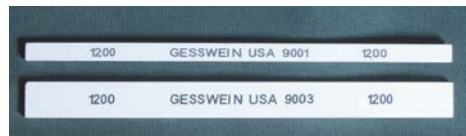
Application



Grinding and polishing stones

Gesswein® PREMIUM WHITE • SUPER FINE

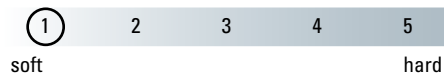
These stones are recommended for an extra-fine surface finish on the workpiece. They are made of levigated alumina in grit size finer than 1200. These stones are guaranteed not to scratch and are eminently suitable for polishing with a diamond compound.



Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
Grinding and polishing stones Gesswein® SUPER FINE						
square						
4 x 4 x 100 mm	1200	SUPER FINE 12	0 401 210	3.71 €	3.15 €	2.66 €
6 x 6 x 150 mm	1200	SUPER FINE 9002	0 401 212	7.05 €	6.30 €	4.97 €
rectangular						
6 x 3 x 150 mm	1200	SUPER FINE 9001	0 401 211	6.00 €	4.97 €	4.34 €
13 x 3 x 150 mm	1200	SUPER FINE 9003	0 401 213	7.85 €	7.05 €	5.90 €
13 x 6 x 150 mm	1200	SUPER FINE 9004	0 401 214	9.50 €	8.35 €	7.25 €



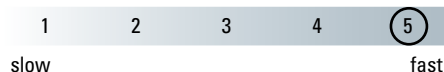
Bonding



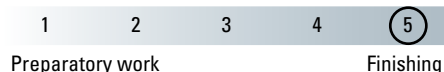
Stock removal



Wear



Application



Grinding and polishing stones

Gesswein® GP – General Purpose

NEW!

The polishing stone GP from Gesswein® is ideally suited for both eroded and machined surfaces of all tool steels and hardened steels. Owing to its special, medium-hard bond made of extra sharp, white aluminium oxide particles, it guarantees high stock removal with simultaneously low wear and a high level of dimensional stability. Grinding stone oil (fluid) is also recommended for processing.



Bonding

1	2	3	4	5
soft				hard

Stock removal

1	2	3	4	5
slow				fast

Wear

1	2	3	4	5
slow				fast

Application

1	2	3	4	5
Preparatory work				Finishing

Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
Grinding and polishing stones Gesswein® GP - General Purpose						
square						
4 x 4 x 100 mm	320	GP	12 pieces	0 405 100	2.09 €	1.83 €
6 x 6 x 150 mm	150	GP	12 pieces	0 405 118	2.60 €	2.27 €
	180	GP	12 pieces	0 405 119	2.60 €	2.27 €
	220	GP	12 pieces	0 405 120	2.60 €	2.27 €
	320	GP	12 pieces	0 405 121	2.69 €	2.36 €
	400	GP	12 pieces	0 405 122	2.69 €	2.36 €
	600	GP	12 pieces	0 405 123	3.38 €	2.96 €
6 x 6 x 150 mm	800	GP	12 pieces	0 405 124	3.91 €	3.43 €
	1200	GP	12 pieces	0 405 125	4.48 €	3.91 €
	rectangular					
6 x 3 x 150 mm	150	GP	12 pieces	0 405 110	2.47 €	2.16 €
	180	GP	12 pieces	0 405 111	2.47 €	2.16 €
	220	GP	12 pieces	0 405 112	2.47 €	2.16 €
	320	GP	12 pieces	0 405 113	2.57 €	2.25 €
	400	GP	12 pieces	0 405 114	2.57 €	2.25 €
	600	GP	12 pieces	0 405 115	2.96 €	2.60 €
	800	GP	12 pieces	0 405 116	3.91 €	3.43 €
13 x 3 x 150 mm	1200	GP	12 pieces	0 405 117	4.48 €	3.91 €
	150	GP	12 pieces	0 405 126	2.69 €	2.36 €
	180	GP	12 pieces	0 405 127	2.69 €	2.36 €
	220	GP	12 pieces	0 405 128	2.69 €	2.36 €
	320	GP	12 pieces	0 405 129	2.86 €	2.50 €
	400	GP	12 pieces	0 405 130	2.86 €	2.50 €
	600	GP	12 pieces	0 405 131	3.55 €	3.10 €
13 x 3 x 150 mm	800	GP	12 pieces	0 405 132	4.41 €	3.85 €
	1200	GP	12 pieces	0 405 133	4.84 €	4.24 €
	150	GP	12 pieces	0 405 134	3.40 €	2.98 €
	180	GP	12 pieces	0 405 135	3.40 €	2.98 €
	220	GP	12 pieces	0 405 136	3.40 €	2.98 €
	320	GP	12 pieces	0 405 137	3.97 €	3.47 €
13 x 6 x 150 mm	400	GP	12 pieces	0 405 138	3.97 €	3.47 €
	600	GP	12 pieces	0 405 139	4.97 €	4.35 €
	800	GP	12 pieces	0 405 140	5.87 €	5.10 €
	1200	GP	12 pieces	0 405 141	6.80 €	6.00 €

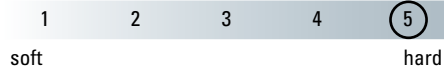
Grinding and polishing stones

Boride® CS-HD

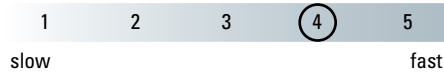
Extremely hard stones made of silicon carbide for the pretreatment in hard moulds (> 47 HRC). Can be used manually or in a handfiling machine, dry or with a fluid.



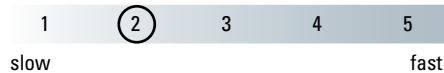
Bonding



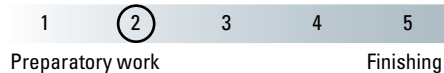
Stock removal



Wear



Application



Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
Grinding and polishing stones Boride® CS-HD						
rectangular						
6 x 3 x 150 mm	120	CS-HD	12 pieces	0 410 861	2.34 €	2.04 €
	150	CS-HD	12 pieces	0 410 862	2.34 €	2.04 €
	220	CS-HD	12 pieces	0 410 864	2.34 €	2.04 €
	320	CS-HD	12 pieces	0 410 866	2.89 €	2.48 €
	400	CS-HD	12 pieces	0 410 867	2.83 €	2.44 €
13 x 6 x 150 mm	600	CS-HD	12 pieces	0 410 868	3.34 €	2.96 €
	120	CS-HD	12 pieces	0 410 901	3.53 €	3.15 €
	150	CS-HD	12 pieces	0 410 903	3.53 €	3.15 €
	220	CS-HD	12 pieces	0 410 904	3.53 €	3.15 €
	320	CS-HD	12 pieces	0 410 906	4.10 €	3.53 €
	400	CS-HD	12 pieces	0 410 907	4.22 €	3.71 €
	600	CS-HD	12 pieces	0 410 908	4.73 €	4.22 €

Grinding and polishing stones

Boride® T2

These stones are perfect for high-alloyed tools and high-grade steels. Thanks to their own impregnation, these stones work very efficiently and produce a semi matt surface on the workpiece. Can be used manually or in a handfiling machine, with a fluid.



Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
Grinding and polishing stones Boride® T2						
rectangular						
6 x 3 x 150 mm	150	T2	12 pieces	0 409 952	2.72 €	2.33 €
	220	T2	12 pieces	0 409 954	2.72 €	2.33 €
	320	T2	12 pieces	0 409 956	3.28 €	2.89 €
	400	T2	12 pieces	0 409 957	3.34 €	2.96 €
	600	T2	12 pieces	0 409 958	3.71 €	3.27 €
13 x 6 x 150 mm	150	T2	12 pieces	0 409 932	3.83 €	3.34 €
	220	T2	12 pieces	0 409 934	3.83 €	3.34 €
	320	T2	12 pieces	0 409 936	4.84 €	4.27 €
	400	T2	12 pieces	0 409 937	4.98 €	4.40 €
	600	T2	12 pieces	0 409 938	6.59 €	5.46 €



Bonding



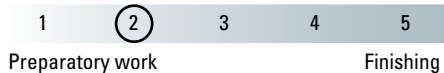
Stock removal



Wear



Application



Grinding and polishing stones

Boride® Orange EDM

The EDM orange grinding and polishing stones in aluminium oxide have been developed for the removal of erosion layers. The bonding allows rapid adaptation to the contour with good dimensional stability. Good stock removal. Can be used manually or in a handfiling machine, either dry or with a fluid.



Bonding

1	2	3	4	5
soft				hard

Stock removal

1	2	3	4	5
slow				fast

Wear

1	2	3	4	5
slow				fast

Application

1	2	3	4	5
Preparatory work				Finishing

Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
Grinding and polishing stones Boride® Orange EDM						
square						
6 x 6 x 150 mm	120	Orange EDM	12 pieces	0 409 372	2.72 €	2.34 €
	180	Orange EDM	12 pieces	0 409 373	2.72 €	2.34 €
	220	Orange EDM	12 pieces	0 409 374	2.72 €	2.34 €
	320	Orange EDM	12 pieces	0 409 376	3.09 €	2.77 €
	400	Orange EDM	12 pieces	0 409 377	3.20 €	2.83 €
	600	Orange EDM	12 pieces	0 409 378	3.20 €	3.20 €
rectangular						
6 x 3 x 150 mm	120	Orange EDM	12 pieces	0 409 332	2.34 €	2.04 €
	180	Orange EDM	12 pieces	0 409 333	2.34 €	2.04 €
	220	Orange EDM	12 pieces	0 409 334	2.34 €	2.04 €
	320	Orange EDM	12 pieces	0 409 336	2.77 €	2.41 €
	400	Orange EDM	12 pieces	0 409 337	2.89 €	2.48 €
	600	Orange EDM	12 pieces	0 409 338	3.09 €	2.77 €
13 x 3 x 150 mm	120	Orange EDM	12 pieces	0 409 342	2.77 €	2.41 €
	180	Orange EDM	12 pieces	0 409 343	2.77 €	2.41 €
	220	Orange EDM	12 pieces	0 409 344	2.77 €	2.41 €
	320	Orange EDM	12 pieces	0 409 346	3.09 €	2.77 €
	400	Orange EDM	12 pieces	0 409 347	3.20 €	2.83 €
	600	Orange EDM	12 pieces	0 409 348	3.46 €	3.09 €
13 x 6 x 150 mm	120	Orange EDM	12 pieces	0 409 382	3.59 €	3.20 €
	180	Orange EDM	12 pieces	0 409 383	3.59 €	3.20 €
	220	Orange EDM	12 pieces	0 409 384	3.59 €	3.20 €
	320	Orange EDM	12 pieces	0 409 386	4.16 €	3.71 €
	400	Orange EDM	12 pieces	0 409 387	4.34 €	3.83 €
	600	Orange EDM	12 pieces	0 409 388	4.84 €	4.27 €

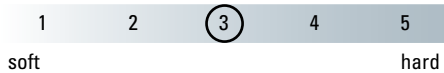
Grinding and polishing stones

Boride® A0

Very aggressive all-round stones made of aluminium oxide for all steels in tool and mould building. These grinding stones have a semi-hard bonding and are oil impregnated, so that they do not clog easily. A0 stones are dimensionally stable and offer a good cutting performance. High stock removal rates with milling and erosion structures. Can be used manually or in a hand-filing machine, always with a fluid.



Bonding



Stock removal



Wear



Application



Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
Grinding and polishing stones Boride® A0						
rectangular						
6 x 3 x 150 mm	120	A0	12 pieces	0 410 531	2.48 €	2.20 €
	150	A0	12 pieces	0 410 532	2.48 €	2.20 €
	220	A0	12 pieces	0 410 534	2.16 €	1.99 €
	320	A0	12 pieces	0 410 536	2.36 €	2.21 €
	400	A0	12 pieces	0 410 537	2.47 €	2.31 €
	600	A0	12 pieces	0 410 538	2.81 €	2.62 €
13 x 3 x 150 mm	120	A0	12 pieces	0 410 541	2.77 €	2.41 €
	150	A0	12 pieces	0 410 542	2.77 €	2.41 €
	220	A0	12 pieces	0 410 544	2.16 €	1.99 €
	320	A0	12 pieces	0 410 546	2.36 €	2.21 €
	400	A0	12 pieces	0 410 547	2.47 €	2.31 €
	600	A0	12 pieces	0 410 548	2.81 €	2.62 €
13 x 6 x 150 mm	120	A0	12 pieces	0 410 581	3.59 €	3.20 €
	150	A0	12 pieces	0 410 582	3.59 €	3.20 €
	220	A0	12 pieces	0 410 584	3.59 €	3.20 €
	320	A0	12 pieces	0 410 586	4.10 €	3.53 €
	400	A0	12 pieces	0 410 587	4.22 €	3.71 €
	600	A0	12 pieces	0 410 588	4.84 €	4.27 €
25 x 13 x 150 mm	120	A0	12 pieces	0 410 621	7.21 €	6.60 €
	150	A0	12 pieces	0 410 622	7.21 €	6.60 €
	220	A0	12 pieces	0 410 624	7.21 €	6.60 €
	320	A0	12 pieces	0 410 626	8.14 €	7.35 €
	400	A0	12 pieces	0 410 627	8.45 €	7.65 €
	600	A0	12 pieces	0 410 628	10.40 €	9.10 €
round						
Ø 10 x 140 mm	150	A0	12 pieces	0 410 692	8.55 €	7.75 €
	220	A0	12 pieces	0 410 694	8.55 €	7.75 €
	320	A0	12 pieces	0 410 696	9.17 €	8.05 €
	400	A0	12 pieces	0 410 697	9.48 €	8.35 €

Grinding and polishing stones

Boride® Golden Star

The Golden Star is a premium corundum stone which, owing to its specially developed treatment, leaves a silky smooth finish. Excellent for eroded and milled surfaces. The stone is of moderate hardness and achieves rapid stock removal. The stone is used dry; even better results are achieved in conjunction with fluid.



Bonding

1	2	3	4	5
soft				hard

Stock removal

1	2	3	4	5
slow				fast

Wear

1	2	3	4	5
slow				fast

Application

1	2	3	4	5
Preparatory work				Finishing

Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
Grinding and polishing stones Boride® Golden Star						
rectangular						
6 x 3 x 150 mm	150	Golden Star	12 pieces	0 407 811	2.29 €	2.00 €
	180	Golden Star	12 pieces	0 407 812	2.29 €	2.00 €
	220	Golden Star	12 pieces	0 407 813	2.29 €	2.00 €
	320	Golden Star	12 pieces	0 407 814	2.72 €	2.37 €
	400	Golden Star	12 pieces	0 407 815	2.80 €	2.45 €
	600	Golden Star	12 pieces	0 407 816	3.02 €	2.66 €
	800	Golden Star	12 pieces	0 407 817	4.55 €	3.99 €
13 x 3 x 150 mm	150	Golden Star	12 pieces	0 407 821	2.72 €	2.37 €
	180	Golden Star	12 pieces	0 407 822	2.72 €	2.37 €
	220	Golden Star	12 pieces	0 407 823	2.72 €	2.37 €
	320	Golden Star	12 pieces	0 407 824	3.02 €	2.66 €
	400	Golden Star	12 pieces	0 407 825	3.14 €	2.76 €
	600	Golden Star	12 pieces	0 407 826	3.37 €	2.96 €
	800	Golden Star	12 pieces	0 407 827	5.12 €	4.48 €
13 x 6 x 150 mm	150	Golden Star	12 pieces	0 407 851	3.50 €	3.08 €
	180	Golden Star	12 pieces	0 407 852	3.50 €	3.08 €
	220	Golden Star	12 pieces	0 407 853	3.50 €	3.08 €
	320	Golden Star	12 pieces	0 407 854	4.03 €	3.53 €
	400	Golden Star	12 pieces	0 407 855	4.23 €	3.70 €
	600	Golden Star	12 pieces	0 407 856	4.74 €	4.15 €
	800	Golden Star	12 pieces	0 407 857	7.21 €	6.49 €
1000	Golden Star	12 pieces	0 407 858	7.21 €	6.49 €	

Grinding and polishing stones

Boride® AM-2

These universal AM-2 grinding and polishing stones in aluminium oxide are used for all types of steel in mould and tool building. Owing to the uniform stock removal with a fine grinding pattern, the AM-2 abrasive stone is also very suitable for all non-ferrous metals, aluminium, copper and high-chrome and high-nickel steels. The semi-hard stones are used with fluid up to the very fine finishing stage with K 900.

Tip: When processing aluminum, work should be performed from 320 onwards with an abrasive cloth.



Bonding

1	2	3	4	5
soft				hard

Stock removal

1	2	3	4	5
slow				fast

Wear

1	2	3	4	5
slow				fast

Application

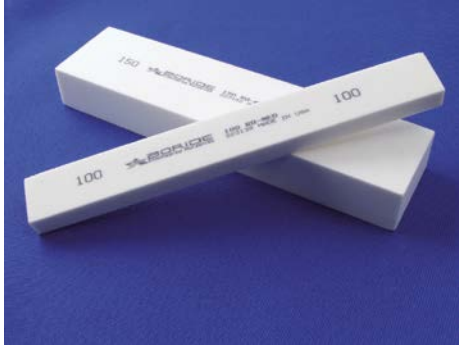
1	2	3	4	5
Preparatory work				Finishing

Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
Grinding and polishing stones Boride® AM-2						
square						
6 x 6 x 150 mm	100	AM-2	12 pieces	0 410 270	2.89 €	2.49 €
	150	AM-2	12 pieces	0 410 272	2.41 €	2.26 €
	180	AM-2	12 pieces	0 410 273	2.89 €	2.49 €
	220	AM-2	12 pieces	0 410 274	2.41 €	2.26 €
	280	AM-2	12 pieces	0 410 275	3.28 €	2.89 €
	320	AM-2	12 pieces	0 410 276	2.76 €	2.55 €
	400	AM-2	12 pieces	0 410 277	2.87 €	2.69 €
	600	AM-2	12 pieces	0 410 278	3.90 €	3.40 €
	900	AM-2	12 pieces	0 410 279	4.16 €	3.59 €
rectangular						
6 x 3 x 150 mm	100	AM-2	12 pieces	0 410 230	2.77 €	2.36 €
	150	AM-2	12 pieces	0 410 232	2.09 €	1.94 €
	180	AM-2	12 pieces	0 410 233	2.77 €	2.36 €
	220	AM-2	12 pieces	0 410 234	2.09 €	1.94 €
	280	AM-2	12 pieces	0 410 235	3.09 €	2.72 €
	320	AM-2	12 pieces	0 410 236	2.47 €	2.31 €
	400	AM-2	12 pieces	0 410 237	2.60 €	2.40 €
	600	AM-2	12 pieces	0 410 238	3.59 €	3.15 €
	900	AM-2	12 pieces	0 410 239	4.16 €	3.59 €
13 x 3 x 150 mm	100	AM-2	12 pieces	0 410 240	2.96 €	2.65 €
	150	AM-2	12 pieces	0 410 242	2.96 €	2.65 €
	180	AM-2	12 pieces	0 410 243	2.96 €	2.65 €
	220	AM-2	12 pieces	0 410 244	2.96 €	2.65 €
	280	AM-2	12 pieces	0 410 245	3.46 €	3.09 €
	320	AM-2	12 pieces	0 410 246	3.46 €	3.09 €
	400	AM-2	12 pieces	0 410 247	3.60 €	3.15 €
	600	AM-2	12 pieces	0 410 248	4.22 €	3.71 €
	900	AM-2	12 pieces	0 410 249	4.59 €	4.10 €
13 x 6 x 150 mm	100	AM-2	12 pieces	0 410 280	3.71 €	3.20 €
	150	AM-2	12 pieces	0 410 282	3.71 €	3.20 €
	180	AM-2	12 pieces	0 410 283	3.71 €	3.20 €
	220	AM-2	12 pieces	0 410 284	3.71 €	3.20 €
	280	AM-2	12 pieces	0 410 285	4.22 €	3.71 €
	320	AM-2	12 pieces	0 410 286	4.22 €	3.71 €
	400	AM-2	12 pieces	0 410 287	4.34 €	3.83 €
	600	AM-2	12 pieces	0 410 288	5.11 €	4.53 €
	900	AM-2	12 pieces	0 410 289	6.80 €	5.90 €
25 x 13 x 150 mm	100	AM-2	12 pieces	0 410 320	7.52 €	6.70 €
	150	AM-2	12 pieces	0 410 322	7.52 €	6.70 €
	180	AM-2	12 pieces	0 410 323	7.52 €	6.70 €
	220	AM-2	12 pieces	0 410 324	7.52 €	6.70 €
	280	AM-2	12 pieces	0 410 325	9.48 €	8.35 €
	320	AM-2	12 pieces	0 410 326	9.48 €	8.35 €
	400	AM-2	12 pieces	0 410 327	9.99 €	8.55 €

Grinding and polishing stones

Boride® RO-MED

These grinding and polishing stones have been especially developed for use in large moulds and are therefore only available in large grit sizes. They offer particularly fast and aggressive stock removal. Thanks to their medium-hard bond, they adapt quickly to the geometry.



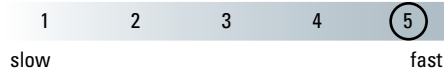
Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
Grinding and polishing stones Boride® RO-MED						
rectangular						
25 x 13 x 200 mm	80	RO-MED	12 pieces	0 410 970	7.21 €	6.80 €
	100	RO-MED	12 pieces	0 410 971	7.21 €	6.80 €
	150	RO-MED	12 pieces	0 410 972	7.21 €	6.80 €
	220	RO-MED	12 pieces	0 410 974	7.21 €	6.80 €



Bonding



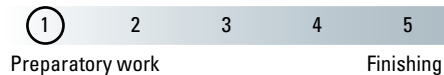
Stock removal



Wear



Application



Fluid for grinding and polishing stones

Boride® Bori Lube 10

Fluid Boride®	Content	Order No.	Price from
			1 piece
Experience improved cutting performance and cleaning with original Boride® abrasive stone fluid. Our recommendation for all our grinding and polishing stones.	3.8 l	0 409 046	50.40 €



Grinding and polishing stones

Boride® RASP

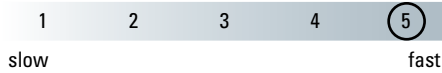
The RASP stones from Boride® are now also available from joke and are manufactured from the finest quality aluminium dioxide. This universal stone is optimally suited for most tool steels, aluminium and even EDM surfaces. They are often used for cutting and finishing, but the stones can also cope with surface lapping. RASP stones are of very high quality, are durable and readily adapt to your workpiece. Owing to its special composition, it is to be used wet and dry.



Bonding



Stock removal



Wear



Application



Dimensions	Grit size	Type	Packing quantity	Order No.	Price from		
					1 piece	60 pieces	
Grinding and polishing stones Boride® RASP							
square							
6 x 6 x 150 mm	150	RASP	12 pieces	0 407 892	3.45 €	3.03 €	
	220	RASP	12 pieces	0 407 893	3.45 €	3.03 €	
	320	RASP	12 pieces	0 407 894	4.14 €	3.65 €	
	400	RASP	12 pieces	0 407 895	4.31 €	3.79 €	
	600	RASP	12 pieces	0 407 896	4.90 €	4.33 €	
	900	RASP	12 pieces	0 407 897	5.15 €	4.49 €	
13 x 13 x 150 mm	1200	RASP	12 pieces	0 407 898	6.18 €	5.25 €	
	150	RASP	12 pieces	0 407 926	7.00 €	6.49 €	
	220	RASP	12 pieces	0 407 927	7.00 €	6.49 €	
	320	RASP	12 pieces	0 407 928	8.65 €	7.73 €	
	400	RASP	12 pieces	0 407 929	8.55 €	7.83 €	
	600	RASP	12 pieces	0 407 930	9.68 €	8.75 €	
13 x 3 x 150 mm	900	RASP	12 pieces	0 407 931	12.56 €	12.26 €	
	1200	RASP	12 pieces	0 407 932	14.62 €	14.01 €	
	rectangular						
	6 x 3 x 150 mm	150	RASP	12 pieces	0 407 869	3.23 €	2.83 €
		220	RASP	12 pieces	0 407 879	3.23 €	2.83 €
		320	RASP	12 pieces	0 407 880	4.21 €	3.73 €
400		RASP	12 pieces	0 407 881	4.09 €	3.61 €	
600		RASP	12 pieces	0 407 882	4.47 €	3.92 €	
900		RASP	12 pieces	0 407 883	5.12 €	4.49 €	
13 x 3 x 150 mm	1200	RASP	12 pieces	0 407 884	6.18 €	5.25 €	
	150	RASP	12 pieces	0 407 885	3.45 €	3.03 €	
	220	RASP	12 pieces	0 407 886	3.45 €	3.03 €	
	320	RASP	12 pieces	0 407 887	4.14 €	3.65 €	
	400	RASP	12 pieces	0 407 888	4.31 €	3.79 €	
	600	RASP	12 pieces	0 407 889	4.90 €	4.33 €	
13 x 6 x 150 mm	900	RASP	12 pieces	0 407 890	6.08 €	5.09 €	
	1200	RASP	12 pieces	0 407 891	6.80 €	6.08 €	
	150	RASP	12 pieces	0 407 899	4.61 €	4.05 €	
	220	RASP	12 pieces	0 407 920	4.61 €	4.05 €	
	320	RASP	12 pieces	0 407 921	6.18 €	5.25 €	
	400	RASP	12 pieces	0 407 922	6.39 €	5.46 €	
13 x 6 x 150 mm	600	RASP	12 pieces	0 407 923	7.52 €	6.70 €	
	900	RASP	12 pieces	0 407 924	7.93 €	7.11 €	
	1200	RASP	12 pieces	0 407 925	9.17 €	8.03 €	

Grinding and polishing stones

Boride® CS-M

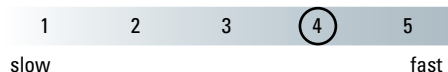
The medium-soft bond of these premium silicon carbide stones allows high stock removal rates without clogging. CS-M stones are generally used with a fluid, either manually or with a hand-filing machine.



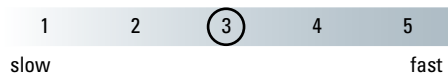
Bonding



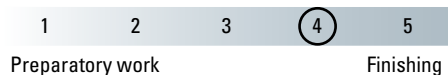
Stock removal



Wear





Application



Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
Grinding and polishing stones Boride® CS-M						
rectangular						
13 x 6 x 150 mm	120	CS-M	12 pieces	0 410 761	3.53 €	3.15 €
	150	CS-M	12 pieces	0 410 762	3.53 €	3.15 €
	220	CS-M	12 pieces	0 410 764	3.53 €	3.15 €
	320	CS-M	12 pieces	0 410 766	4.10 €	3.53 €
	400	CS-M	12 pieces	0 410 767	4.22 €	3.71 €
	600	CS-M	12 pieces	0 410 768	4.73 €	4.22 €

Bench stones


These stones can be used on both sides and are available in aluminium oxide or silicon carbide. Combination of K 120 and 320.


Design	Dimensions	Grit size	Order No.	Price from
				1 piece
Bench stones				
rectangular				
	aluminium oxide	25 x 50 x 200 mm	# 120 / 320	0 401 754 38.85 €
	silicon carbide	25 x 50 x 150 mm	# 120 / 320	0 401 758 24.85 €


Grinding and polishing stones


Boride® Test sets

Our Boride® test sets are ideal for trying out these products. Without minimum order, you can easily send an order for 5 grinding and polishing stones respectively in different grit sizes.

	Order No.	Price from
Test set Boride® Golden Star		1 set
	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 150, 220, 320, 400, 600	0 407 800 9.80 €

	Order No.	Price from
Test set Boride® Gold		1 set
	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 320, 400, 600, 800, 1000	0 407 820 14.75 €


	Order No.	Price from
Test set Boride® Orange EDM		1 set
	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 150, 220, 320, 400, 600	0 409 300 15.15 €


	Order No.	Price from
Test set Boride® T2		1 set
	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 150, 220, 320, 400, 600	0 409 900 16.50 €


Grinding and polishing stones


Boride® Test sets

Our Boride® test sets are ideal for trying out these products. Without minimum order, you can easily send an order for 5 grinding and polishing stones respectively in different grit sizes.












	Order No.	Price from 1 set
Test set Boride® AM-2		
	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 150, 220, 320, 400, 600	0 410 390 15.15 €

	Order No.	Price from 1 set
Test set Boride® AO		
	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 150, 220, 320, 400, 600	0 410 500 16.30 €

	Order No.	Price from 1 set
Test set Boride® CS-M		
	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 150, 220, 320, 400, 600	0 410 700 15.05 €




	Order No.	Price from 1 set
Test set Boride® CS-HD		
	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 150, 220, 320, 400, 600	0 410 850 15.05 €

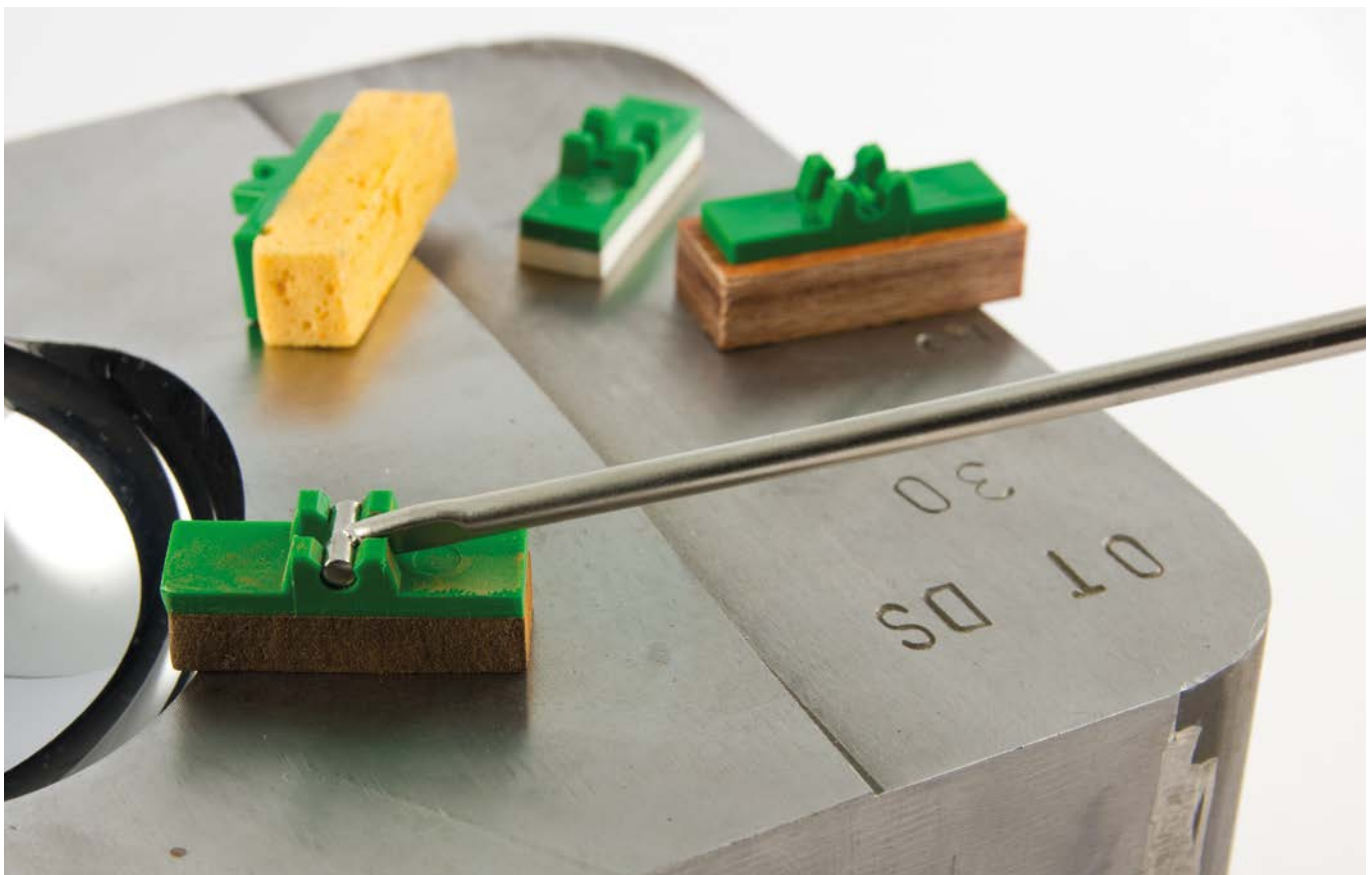
Holders for grinding and polishing stones for hand and machine use

		Shank dimensions	Packing quantity	Order No.	Price from 1 piece	1 pack
Tool holder A						
	with rapid clamping for grinding stones 4 x 4 mm			0 401 215	15.90 €	
Tool holder B						
	for receiving grinding stones 4 x 4, 6 x 6 or 6 x 3 mm			0 401 216	8.35 €	
Tool holder, single						
	for grinding stones 6 x 13 mm			0 401 228	18.25 €	
Tool holder, double						
	for receiving stones 1.6 x 13, 6 x 6 or 6 x 3 mm			0 401 227	8.25 €	
Tool holder for lapping sticks						
	head pivotable through 90°, for receiving tool up to 10 x 10 mm	Ø 3 x 35 mm		0 411 291	10.75 €	
	for receiving tool up to 8 mm high	Ø 3.5 x 30 mm		0 411 292	9.50 €	
		Ø 6 x 30 mm		0 411 201	13.00 €	
Holder for grinding files						
	clamping height up to 11 mm	Ø 4 x 50 mm		0 401 959	46.90 €	
Tool holder Premium, mini						
	clamping range: height up to 8 mm, hardened finish, high-strength clamping plate	Ø 3 mm		0 401 951	43.00 €	
Tool holder Premium, medium						
	clamping range: height 6 mm, hardened finish. Shank and body manufactured from a piece of high-strength clamping plate. With recess for 6 mm flat and round stones.	Ø 3 mm		0 401 972	50.20 €	
Tool holder with counter-clamping						
	sturdy holder for clamping round and flat tools up to max. 3 mm. All solid carbide (VHM) round rods (see articles: 2 012 498 and 2 012 499) are used as a clamping shank for handpieces and/or hand-filing machines and are simply clamped and screwed to the rear of the holder.			0 750 710	56.20 €	

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2 Holders for grinding and polishing stones for hand and machine use

	Shank dimensions	Packing quantity	Order No.	Price from	
				1 piece	1 pack
VHM round rod head Ø 3 mm, length 50 mm					
			2 012 498	4.50 €	
VHM round rod head Ø 6 mm, length 50 mm					
			2 012 499	9.50 €	
Tool carrier, 30 x 9 x 2 mm (pack: 10 pieces)					
without tool		10 piece	0 411 009		17.95 €
Toggle rod for tool carrier, length 140 mm					
	Ø 3 mm		0 411 008	27.40 €	




Tool holder system with counter clamping

An ergonomically designed handle, which can be used with eight different inserts. The lock nut fixes the insert and therefore clamps the inserted tools. Available as single pieces on demand or in a set with eight "completely equipped" handles.

	Dimensions	Order No.	Price from 1 piece
Tool holder handle, without lock nut			
		0 401 981	25.05 €
Tool holder lock nut			
		0 401 982	8.45 €
Tool holder insert			
	3 x 6 mm	0 401 984	11.65 €
	3 x 13 mm	0 401 983	11.75 €
	4 x 4 mm	0 401 985	11.65 €
	6 x 6 mm	0 401 986	11.65 €
	6 x 13 mm	0 401 987	11.75 €
	10 x 10 mm	0 401 988	11.75 €
	Ø 6 mm	0 401 989	11.65 €
	Ø 10 mm	0 401 990	11.65 €

matching set

	Order No.	Price from 1 set
Tool holder set		
	0 401 980	258.00 €
The set contains 8 complete handles with inserts for the following tools: flat: 3 x 6 mm, 3 x 13 mm and 6 x 13 mm, square: 3 x 4 mm, 3 x 13 mm and 10 x 13 mm, round: Ø 6 mm and Ø 10 mm		

Ceramic-fibre tools

The ceramic-fibre files from JOKER are highly versatile tools. They are above all used wherever you get bogged down with conventional tools, for example at highly filigree spots such as slots, ribs and ridges, etc. Ideal for removing erosion structures. Very good results are achieved during use as lapping and polishing tools in conjunction with diamond compounds. They can be used manually (e.g. in special file holders, see page 260) or with the aid of a hand-filing machine. Ceramic-fibre files make a perfect team in conjunction with ultrasonic polishing systems.

In this case however, we recommend the special HT-140 or the particularly heat-resistant Ultra-HT files, which with greater heat resistance also withstand very high output ratings, without proverbially "burning away". With the mini ceramic files, you can process even the most filigree areas; the soft files are highly adaptable owing to the rubbery bond and do not leave any scratches whatsoever. You will also find a matching selection of holders available from us for convenient manual use of the files. The range is rounded off by the ceramic fibre files and brushes on a shank.



Five facts about the JOKER ceramic-fibre files

1. The files are no. 1 when it comes to heat resistance (an upper temperature limit higher by 30 °C in comparison!)
2. The JOKER files and the ENESKAsonic system have been optimally adapted to one another!
3. Specially developed polishing fibres allow maximum stock removals and absolutely uniform finishing quality!
4. A combination of polishing fibres and a special bond prevent splintering at the tip!
5. Integrated development and production from the initial fibre to the finished product guarantee consistent product quality and constant optimisation!

247 Ceramic-fibre files JOKER ULTRA-HT

248 Ceramic-fibre files JOKER HT-140

250 Ceramic-fibre files NEW Super Stone

257 Diamond ceramic-fibre files

258 Ceramic-fibre files JOKER Mini

258 Ceramic-fibre files JOKER Soft

259 Set: Holder + ceramic-fibre files

260 Holders for ceramic-fibre files

261 Ceramic-fibre files on a shank

262 Ceramic-fibre brushes

263 Ceramic-fibre brushes Cross Hole


264 Crystal fibre cutting disc Cristone

Ceramic-fibre files joke Ultra-HT

Heat-resistant up to 200 °C!

These files are heat-resistant up to 200 °C and therefore optimally suitable for the high-performance ultrasonic polishing systems. Even under high loads, the ceramic-fibre files remain break-resistant and do not get clogged up during processing.




	Dimensions	Grit size	Colour	Order No.	Price from		
					1 piece	5 pieces	10 pieces
Ceramic-fibre files joke Ultra-HT							
flat							
 <p>i you'll find suitable holders for these files on page 260!</p>	1 x 4 x 100 mm	# 120 / 110 µm	violet	0 424 601	12.60 €	11.35 €	10.20 €
		# 220 / 50 µm	dark brown	0 424 611	12.60 €	11.35 €	10.20 €
		# 400 / 30 µm	orange	0 424 641	12.60 €	11.35 €	10.20 €
		# 800 / 20 µm	blue	0 424 621	12.60 €	11.35 €	10.20 €
		# 1200 / 10 µm	red	0 424 631	12.60 €	11.35 €	10.20 €
	1 x 6 x 100 mm	# 120 / 110 µm	violet	0 424 602	19.10 €	17.35 €	15.50 €
		# 220 / 50 µm	dark brown	0 424 612	19.10 €	17.35 €	15.50 €
		# 400 / 30 µm	orange	0 424 642	19.30 €	17.35 €	15.50 €
		# 800 / 20 µm	blue	0 424 622	19.10 €	17.35 €	15.50 €
		# 1200 / 10 µm	red	0 424 632	19.10 €	17.35 €	15.50 €
	1 x 10 x 100 mm	# 1500	violet	0 424 603	24.95 €	22.60 €	20.30 €
		# 220 / 50 µm	dark brown	0 424 613	24.95 €	22.60 €	20.30 €
		# 400 / 30 µm	orange	0 424 643	25.05 €	22.60 €	20.20 €
		# 800 / 20 µm	blue	0 424 623	24.95 €	22.60 €	20.30 €
		# 1200 / 10 µm	red	0 424 633	24.95 €	22.60 €	20.30 €
2 x 4 x 100 mm	# 120 / 110 µm	violet	0 424 604	24.95 €	22.60 €	20.30 €	
	# 220 / 50 µm	dark brown	0 424 614	24.95 €	22.60 €	20.30 €	
	# 400 / 30 µm	orange	0 424 644	25.05 €	22.60 €	20.20 €	
	# 800 / 20 µm	blue	0 424 624	24.95 €	22.60 €	20.30 €	
	# 1200 / 10 µm	red	0 424 634	24.95 €	22.60 €	20.30 €	
2 x 6 x 100 mm	# 120 / 110 µm	violet	0 424 605	37.85 €	34.55 €	30.70 €	
	# 220 / 50 µm	dark brown	0 424 615	37.85 €	34.55 €	30.70 €	
	# 400 / 30 µm	orange	0 424 645	38.05 €	34.45 €	30.70 €	
	# 800 / 20 µm	blue	0 424 625	37.85 €	34.55 €	30.70 €	
	# 1200 / 10 µm	red	0 424 635	37.85 €	34.55 €	30.70 €	
2 x 10 x 100 mm	# 120 / 110 µm	violet	0 424 606	49.65 €	45.15 €	40.40 €	
	# 220 / 50 µm	dark brown	0 424 616	49.65 €	45.15 €	40.40 €	
	# 400 / 30 µm	orange	0 424 646	50.00 €	45.05 €	40.30 €	
	# 800 / 20 µm	blue	0 424 626	49.65 €	45.15 €	40.40 €	
	# 1200 / 10 µm	red	0 424 636	49.65 €	45.15 €	40.40 €	

Ceramic-fibre files joke HT-140


The advantages at a glance:

- unbreakable files
- very high heat resistance
- developed specifically for ultrasonic systems
- perfect for ribs and ridges
- files do not splinter



	Dimensions	Grit size	Colour	Order No.	Price from		
					1 piece	5 pieces	10 pieces
	0.5 x 4 x 150 mm	# 220 / 50 µm	dark brown	0 406 160-2	19.80 €	18.35 €	16.50 €
		# 300 / 40 µm	light brown	0 406 110-2	17.75 €	16.50 €	14.95 €
		# 400 / 30 µm	orange	0 406 120-2	17.75 €	16.50 €	14.95 €
		# 600 / 25 µm	black	0 406 170-2	17.75 €	16.50 €	14.95 €
		# 800 / 20 µm	blue	0 406 180-2	17.75 €	16.50 €	14.95 €
		# 1000 / 15 µm	white	0 406 140-2	17.75 €	16.50 €	14.95 €
		# 1200 / 10 µm	red	0 406 100-2	17.75 €	16.50 €	14.95 €
1 x 1 x 100 mm	# 1500	yellow	0 406 371	4.40 €	4.09 €	3.67 €	
		cream	0 406 381	6.20 €	5.70 €	4.99 €	
		pink	0 406 391	6.20 €	5.70 €	4.99 €	
1 x 2 x 100 mm	# 1500	yellow	0 406 372	4.50 €	4.18 €	3.76 €	
		cream	0 406 382	6.40 €	6.00 €	5.10 €	
		pink	0 406 392	6.40 €	6.00 €	5.10 €	
1 x 4 x 100 mm	# 1500	yellow	0 406 373	9.00 €	8.35 €	7.55 €	
1 x 4 x 150 mm	# 120 / 110 µm	violet	0 406 211	15.70 €	14.65 €	13.00 €	
		dark brown	0 406 161-2	19.80 €	18.35 €	16.50 €	
		light brown	0 406 111-2	17.75 €	16.60 €	14.95 €	
		orange	0 406 121-2	17.95 €	16.50 €	14.95 €	
		black	0 406 171-2	17.95 €	16.50 €	15.05 €	
		blue	0 406 181-2	17.95 €	16.50 €	14.95 €	
		white	0 406 141-2	17.95 €	16.50 €	14.95 €	
red	0 406 101-2	17.95 €	16.50 €	14.95 €			
1 x 6 x 100 mm	# 1500	yellow	0 406 374	13.60 €	12.70 €	11.35 €	
1 x 6 x 150 mm	# 120 / 110 µm	violet	0 406 212	23.60 €	21.85 €	19.80 €	
		dark brown	0 406 162-2	29.80 €	27.65 €	24.95 €	
		light brown	0 406 112-2	26.70 €	24.85 €	22.25 €	
		orange	0 406 122-2	26.70 €	24.85 €	22.25 €	
		black	0 406 172-2	26.70 €	24.85 €	22.25 €	
		blue	0 406 182-2	26.70 €	24.85 €	22.25 €	
		white	0 406 142-2	26.70 €	24.85 €	22.25 €	
red	0 406 102-2	26.70 €	24.85 €	22.25 €			
1 x 10 x 100 mm	# 1500	yellow	0 406 375	17.85 €	16.50 €	14.85 €	
1 x 10 x 150 mm	# 120 / 110 µm	violet	0 406 213	30.90 €	28.95 €	26.00 €	
		dark brown	0 406 163-2	39.80 €	36.80 €	33.10 €	
		light brown	0 406 113-2	35.65 €	33.00 €	29.70 €	
		orange	0 406 123-2	35.55 €	33.00 €	29.70 €	
		black	0 406 173-2	35.55 €	33.00 €	29.70 €	
		blue	0 406 183-2	35.55 €	33.00 €	29.70 €	
		white	0 406 143-2	35.55 €	33.00 €	29.70 €	
red	0 406 103-2	35.55 €	33.00 €	29.70 €			

Ceramic-fibre files joke HT-140

	Dimensions	Grit size	Colour	Order No.	Price from		
					1 piece	5 pieces	10 pieces
	2 x 6 x 150 mm	# 120 / 110 µm	violet	0 406 214	46.90 €	43.60 €	39.15 €
		# 220 / 50 µm	dark brown	0 406 164-2	59.35 €	55.15 €	49.65 €
		# 300 / 40 µm	light brown	0 406 114-2	52.95 €	49.35 €	44.40 €
		# 400 / 30 µm	orange	0 406 124-2	52.95 €	49.35 €	44.40 €
		# 600 / 25 µm	black	0 406 174-2	52.95 €	49.35 €	44.40 €
		# 800 / 20 µm	blue	0 406 184-2	52.95 €	49.35 €	44.40 €
		# 1000 / 15 µm	white	0 406 144-2	52.95 €	49.35 €	44.40 €
		# 1200 / 10 µm	red	0 406 104-2	52.95 €	49.35 €	44.40 €
Ø 2.35 x 100 mm	Ø 2.35 x 100 mm	# 220 / 50 µm	grey	0 406 200-2	28.65 €	26.70 €	24.15 €
		# 300 / 40 µm	light brown	0 406 201-2	24.25 €	22.40 €	20.20 €
		# 400 / 30 µm	orange	0 406 202-2	24.25 €	22.40 €	20.20 €
		# 600 / 25 µm	black	0 406 203-2	24.25 €	22.40 €	20.20 €
		# 800 / 20 µm	blue	0 406 204-2	24.25 €	22.40 €	20.20 €
		# 1200 / 10 µm	red	0 406 206-2	24.25 €	22.40 €	20.20 €
Ø 2.35 x 150 mm	Ø 2.35 x 150 mm	# 300 / 40 µm	light brown	0 406 342	33.00 €	30.70 €	27.55 €
		# 400 / 30 µm	orange	0 406 243	33.00 €	30.70 €	27.55 €
		# 600 / 25 µm	dark brown	0 406 244	33.00 €	30.70 €	27.55 €
		# 800 / 20 µm	blue	0 406 245	32.80 €	30.50 €	27.55 €
		# 1000 / 15 µm	white	0 406 246	29.40 €	27.20 €	24.65 €
		# 1200 / 10 µm	red	0 406 247	32.80 €	30.50 €	27.55 €
Ø 3 x 100 mm	Ø 3 x 100 mm	# 220 / 50 µm	grey	0 406 190-2	28.65 €	26.70 €	24.15 €
		# 300 / 40 µm	light brown	0 406 191-2	24.25 €	22.40 €	20.20 €
		# 400 / 30 µm	orange	0 406 192-2	24.25 €	22.40 €	20.20 €
		# 600 / 25 µm	black	0 406 193-2	24.25 €	22.40 €	20.20 €
		# 800 / 20 µm	blue	0 406 194-2	24.25 €	22.40 €	20.20 €
		# 1000 / 15 µm	white	0 406 195-2	24.25 €	22.40 €	20.20 €
		# 1200 / 10 µm	red	0 406 196-2	24.25 €	22.40 €	20.20 €
Ø 3 x 150 mm	Ø 3 x 150 mm	# 220 / 50 µm	grey	0 406 251	42.75 €	39.80 €	35.85 €
		# 300 / 40 µm	light brown	0 406 352	33.00 €	30.70 €	27.55 €
		# 400 / 30 µm	orange	0 406 253	37.00 €	34.55 €	31.15 €
		# 600 / 25 µm	black	0 406 254	37.00 €	34.55 €	31.15 €
		# 800 / 20 µm	blue	0 406 255	37.00 €	34.55 €	31.15 €
		# 1000 / 15 µm	white	0 406 256	37.00 €	34.55 €	31.15 €
		# 1200 / 10 µm	red	0 406 257	37.00 €	34.55 €	31.15 €



There is even more to it!


Please let us know your special requests regarding ceramic-fibre files. We can make almost anything possible. For further information, please contact

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Ceramic-fibre files NEW Super Stone


The advantages at a glance:

- unbreakable files
- very high heat resistance
- developed specifically for ultrasonic systems
- perfect for ribs and ridges
- files do not splinter

	Dimensions	Grit size	Colour	Order No.	Price from		
					1 piece	5 pieces	10 pieces
	0.5 x 1 x 100 mm	# 80 / 150 µm	violet	0 426 810	5.05 €	4.64 €	4.33 €
		# 120 / 110 µm	green	0 426 001	4.95 €	4.62 €	4.28 €
		# 180 / 80 µm	gold	0 426 101	4.95 €	4.62 €	4.28 €
		# 300 / 40 µm	light brown	0 426 201	4.95 €	4.62 €	4.28 €
		# 400 / 30 µm	orange	0 426 301	4.95 €	4.62 €	4.28 €
		# 600 / 25 µm	dark brown	0 426 401	4.95 €	4.62 €	4.28 €
		# 800 / 20 µm	blue	0 426 501	4.39 €	4.09 €	3.79 €
		# 1000 / 15 µm	white	0 426 601	4.39 €	4.09 €	3.79 €
		# 1200 / 10 µm	red	0 426 701	4.39 €	4.09 €	3.79 €
		0.5 x 1 x 150 mm	# 80 / 150 µm	violet	0 426 839	7.35 €	6.70 €
0.5 x 2 x 150 mm	# 80 / 150 µm	violet	0 426 840	7.35 €	6.70 €	6.30 €	
	# 120 / 110 µm	green	0 426 031	7.35 €	6.95 €	6.40 €	
	# 180 / 80 µm	gold	0 426 131	7.35 €	6.95 €	6.40 €	
	# 300 / 40 µm	light brown	0 426 231	7.35 €	6.95 €	6.40 €	
	# 400 / 30 µm	orange	0 426 331	7.35 €	6.95 €	6.40 €	
	# 600 / 25 µm	dark brown	0 426 431	7.35 €	6.95 €	6.40 €	
	# 800 / 20 µm	blue	0 426 531	6.80 €	6.40 €	6.00 €	
	# 1000 / 15 µm	white	0 426 631	6.80 €	6.40 €	6.00 €	
	# 1200 / 10 µm	red	0 426 731	6.80 €	6.40 €	6.00 €	
	0.5 x 4 x 150 mm	# 80 / 150 µm	violet	0 426 841	14.75 €	13.60 €	12.70 €
# 120 / 110 µm		green	0 426 032	14.65 €	13.60 €	12.70 €	
# 180 / 80 µm		gold	0 426 132	14.65 €	13.60 €	12.70 €	
# 300 / 40 µm		light brown	0 426 232	14.65 €	13.60 €	12.70 €	
# 400 / 30 µm		orange	0 426 332	14.65 €	13.60 €	12.70 €	
# 600 / 25 µm		dark brown	0 426 432	14.65 €	13.60 €	12.70 €	
# 800 / 20 µm		blue	0 426 532	13.20 €	12.30 €	11.35 €	
# 1000 / 15 µm		white	0 426 632	13.20 €	12.40 €	11.55 €	
# 1200 / 10 µm		red	0 426 732	13.20 €	12.30 €	11.35 €	
0.5 x 6 x 150 mm		# 80 / 150 µm	violet	0 426 842	22.40 €	20.60 €	19.20 €
	# 120 / 110 µm	green	0 426 033	22.15 €	20.75 €	19.10 €	
	# 180 / 80 µm	gold	0 426 133	22.15 €	20.75 €	19.10 €	
	# 300 / 40 µm	light brown	0 426 233	22.15 €	20.75 €	19.10 €	
	# 400 / 30 µm	orange	0 426 333	22.15 €	20.75 €	19.10 €	
	# 600 / 25 µm	dark brown	0 426 433	22.15 €	20.75 €	19.10 €	
	# 800 / 20 µm	blue	0 426 533	19.90 €	18.45 €	17.25 €	
	# 1000 / 15 µm	white	0 426 633	19.90 €	18.45 €	17.25 €	
	# 1200 / 10 µm	red	0 426 733	19.90 €	18.45 €	17.25 €	


Ceramic-fibre files NEW Super Stone

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Dimensions	Grit size	Colour	Order No.	Price from		
				1 piece	5 pieces	10 pieces
0.5 x 10 x 150 mm	# 80 / 150 µm	violet	0 426 843	29.40 €	27.10 €	25.25 €
	# 120 / 110 µm	green	0 426 034	29.15 €	27.10 €	25.15 €
	# 180 / 80 µm	gold	0 426 134	29.15 €	27.10 €	25.15 €
	# 300 / 40 µm	light brown	0 426 234	29.15 €	27.10 €	25.15 €
	# 400 / 30 µm	orange	0 426 334	29.15 €	27.10 €	25.15 €
	# 600 / 25 µm	dark brown	0 426 434	29.15 €	27.10 €	25.15 €
	# 800 / 20 µm	blue	0 426 534	26.40 €	24.65 €	22.90 €
	# 1000 / 15 µm	white	0 426 634	26.40 €	24.65 €	22.90 €
	# 1200 / 10 µm	red	0 426 734	26.40 €	24.65 €	22.90 €
0.8 x 1 x 150 mm	# 80 / 150 µm	violet	0 426 844	7.35 €	6.70 €	6.30 €
0.8 x 2 x 150 mm	# 80 / 150 µm	violet	0 426 845	7.35 €	6.70 €	6.30 €
0.8 x 4 x 150 mm	# 80 / 150 µm	violet	0 426 846	14.75 €	13.60 €	12.70 €
0.8 x 6 x 150 mm	# 80 / 150 µm	violet	0 426 847	22.40 €	20.60 €	19.20 €
0.8 x 10 x 150 mm	# 80 / 150 µm	violet	0 426 848	29.40 €	27.10 €	25.25 €
1 x 2 x 100 mm	# 120 / 110 µm	green	0 426 012	4.95 €	4.62 €	4.28 €
	# 180 / 80 µm	gold	0 426 112	4.95 €	4.62 €	4.28 €
	# 300 / 40 µm	light brown	0 426 212	4.95 €	4.62 €	4.28 €
	# 400 / 30 µm	orange	0 426 312	4.95 €	4.62 €	4.28 €
	# 600 / 25 µm	dark brown	0 426 412	4.95 €	4.62 €	4.28 €
	# 800 / 20 µm	blue	0 426 512	4.39 €	4.09 €	3.79 €
	# 1000 / 15 µm	white	0 426 612	4.39 €	4.09 €	3.79 €
	# 1200 / 10 µm	red	0 426 712	4.39 €	4.09 €	3.79 €
1 x 2 x 150 mm	# 80 / 150 µm	violet	0 426 850	7.35 €	6.70 €	6.30 €
	# 120 / 110 µm	green	0 426 041	7.35 €	6.95 €	6.40 €
	# 180 / 80 µm	gold	0 426 141	7.35 €	6.95 €	6.40 €
	# 300 / 40 µm	light brown	0 426 241	7.35 €	6.95 €	6.40 €
	# 400 / 30 µm	orange	0 426 341	7.35 €	6.95 €	6.40 €
	# 600 / 25 µm	dark brown	0 426 441	7.35 €	6.95 €	6.40 €
	# 800 / 20 µm	blue	0 426 541	6.80 €	6.40 €	6.00 €
	# 1000 / 15 µm	white	0 426 641	6.80 €	6.40 €	6.00 €
	# 1200 / 10 µm	red	0 426 741	6.80 €	6.40 €	6.00 €
1 x 4 x 100 mm	# 120 / 110 µm	green	0 426 013	10.10 €	9.30 €	8.70 €
	# 180 / 80 µm	gold	0 426 113	10.10 €	9.30 €	8.70 €
	# 300 / 40 µm	light brown	0 426 213	10.10 €	9.30 €	8.70 €
	# 400 / 30 µm	orange	0 426 313	10.10 €	9.40 €	8.70 €
	# 600 / 25 µm	dark brown	0 426 413	10.10 €	9.30 €	8.70 €
	# 800 / 20 µm	blue	0 426 513	9.00 €	8.45 €	7.75 €
	# 1000 / 15 µm	white	0 426 613	9.00 €	8.45 €	7.75 €
	# 1200 / 10 µm	red	0 426 713	9.00 €	8.45 €	7.75 €
1 x 4 x 150 mm	# 80 / 150 µm	violet	0 426 851	14.75 €	13.60 €	12.70 €
	# 120 / 110 µm	green	0 426 042	14.65 €	13.60 €	12.70 €
	# 180 / 80 µm	gold	0 426 142	14.65 €	13.60 €	12.70 €
	# 300 / 40 µm	light brown	0 426 242	14.65 €	13.60 €	12.70 €
	# 400 / 30 µm	orange	0 426 342	14.65 €	13.60 €	12.70 €
	# 600 / 25 µm	dark brown	0 426 442	14.65 €	13.60 €	12.70 €
	# 800 / 20 µm	blue	0 426 542	13.20 €	12.30 €	11.35 €
	# 1000 / 15 µm	white	0 426 642	13.20 €	12.40 €	11.55 €
	# 1200 / 10 µm	red	0 426 742	13.20 €	12.30 €	11.35 €

Ceramic-fibre files NEW Super Stone


Dimensions	Grit size	Colour	Order No.	Price from		
				1 piece	5 pieces	10 pieces
 1 x 6 x 100 mm	# 120 / 110 µm	green	0 426 014	15.05 €	14.15 €	13.20 €
	# 180 / 80 µm	gold	0 426 114	15.15 €	14.15 €	13.20 €
	# 300 / 40 µm	light brown	0 426 214	15.15 €	14.15 €	13.20 €
	# 400 / 30 µm	orange	0 426 314	15.15 €	14.15 €	13.10 €
	# 600 / 25 µm	dark brown	0 426 414	15.15 €	14.15 €	13.20 €
	# 800 / 20 µm	blue	0 426 514	13.70 €	13.00 €	11.95 €
	# 1000 / 15 µm	white	0 426 614	13.70 €	13.00 €	11.95 €
	# 1200 / 10 µm	red	0 426 714	13.70 €	13.00 €	11.95 €
1 x 6 x 150 mm	# 80 / 150 µm	violet	0 426 852	22.40 €	20.60 €	19.20 €
	# 120 / 110 µm	green	0 426 043	22.05 €	20.60 €	19.10 €
	# 180 / 80 µm	gold	0 426 143	22.05 €	20.60 €	19.10 €
	# 300 / 40 µm	light brown	0 426 243	22.05 €	20.60 €	19.10 €
	# 400 / 30 µm	orange	0 426 343	22.05 €	20.60 €	19.10 €
	# 600 / 25 µm	dark brown	0 426 443	22.05 €	20.60 €	19.10 €
	# 800 / 20 µm	blue	0 426 543	19.80 €	18.45 €	17.10 €
	# 1000 / 15 µm	white	0 426 643	19.80 €	18.45 €	17.10 €
1 x 10 x 100 mm	# 120 / 110 µm	green	0 426 015	19.90 €	18.45 €	17.25 €
	# 180 / 80 µm	gold	0 426 115	19.90 €	18.45 €	17.25 €
	# 300 / 40 µm	light brown	0 426 215	19.90 €	18.45 €	17.25 €
	# 400 / 30 µm	orange	0 426 315	19.90 €	18.45 €	17.25 €
	# 600 / 25 µm	dark brown	0 426 415	19.90 €	18.45 €	17.25 €
	# 800 / 20 µm	blue	0 426 515	18.05 €	16.70 €	15.60 €
	# 1000 / 15 µm	white	0 426 615	18.05 €	16.70 €	15.60 €
	# 1200 / 10 µm	red	0 426 715	18.05 €	16.70 €	15.60 €
1 x 10 x 150 mm	# 80 / 150 µm	violet	0 426 853	29.40 €	27.10 €	25.25 €
	# 120 / 110 µm	green	0 426 044	29.15 €	27.10 €	25.15 €
	# 180 / 80 µm	gold	0 426 144	29.15 €	27.10 €	25.15 €
	# 300 / 40 µm	light brown	0 426 244	29.15 €	27.10 €	25.15 €
	# 400 / 30 µm	orange	0 426 344	29.15 €	27.10 €	25.15 €
	# 600 / 25 µm	dark brown	0 426 444	29.15 €	27.10 €	25.15 €
	# 800 / 20 µm	blue	0 426 544	26.40 €	24.65 €	22.80 €
	# 1000 / 15 µm	white	0 426 644	26.40 €	24.65 €	22.80 €
1.5 x 1 x 150 mm	# 80 / 150 µm	violet	0 426 854	11.05 €	10.20 €	9.50 €
1.5 x 2 x 100 mm	# 120 / 110 µm	green	0 426 017	7.55 €	7.15 €	6.50 €
	# 180 / 80 µm	gold	0 426 117	7.55 €	7.15 €	6.50 €
	# 300 / 40 µm	light brown	0 426 217	7.55 €	7.15 €	6.50 €
	# 400 / 30 µm	orange	0 426 317	7.55 €	7.15 €	6.50 €
	# 600 / 25 µm	dark brown	0 426 417	7.55 €	7.15 €	6.50 €
	# 800 / 20 µm	blue	0 426 517	6.80 €	6.40 €	6.00 €
	# 1000 / 15 µm	white	0 426 617	6.80 €	6.40 €	6.00 €
	# 1200 / 10 µm	red	0 426 717	6.80 €	6.40 €	6.00 €

Ceramic-fibre files NEW Super Stone




Dimensions	Grit size	Colour	Order No.	Price from		
				1 piece	5 pieces	10 pieces
1.5 x 2 x 150 mm	# 80 / 150 µm	violet	0 426 855	11.05 €	10.20 €	9.50 €
	# 120 / 110 µm	green	0 426 046	10.95 €	10.20 €	9.50 €
	# 180 / 80 µm	gold	0 426 146	10.95 €	10.20 €	9.50 €
	# 300 / 40 µm	light brown	0 426 246	10.95 €	10.20 €	9.50 €
	# 400 / 30 µm	orange	0 426 346	10.95 €	10.20 €	9.50 €
	# 600 / 25 µm	dark brown	0 426 446	10.95 €	10.20 €	9.50 €
	# 800 / 20 µm	blue	0 426 546	10.10 €	9.40 €	8.70 €
	# 1000 / 15 µm	white	0 426 646	10.10 €	9.40 €	8.70 €
	# 1200 / 10 µm	red	0 426 746	10.10 €	9.40 €	8.70 €
1.5 x 4 x 150 mm	# 80 / 150 µm	violet	0 426 856	22.15 €	20.40 €	19.10 €
	# 120 / 110 µm	green	0 426 047	21.95 €	20.50 €	19.00 €
	# 180 / 80 µm	gold	0 426 147	21.95 €	20.50 €	19.00 €
	# 300 / 40 µm	light brown	0 426 247	21.95 €	20.50 €	19.00 €
	# 400 / 30 µm	orange	0 426 347	21.95 €	20.50 €	19.00 €
	# 600 / 25 µm	dark brown	0 426 447	21.95 €	20.50 €	19.00 €
	# 800 / 20 µm	blue	0 426 547	19.90 €	18.45 €	17.25 €
	# 1000 / 15 µm	white	0 426 647	19.90 €	18.45 €	17.25 €
	# 1200 / 10 µm	red	0 426 747	19.90 €	18.45 €	17.25 €
1.5 x 6 x 100 mm	# 120 / 110 µm	green	0 426 019	22.60 €	20.95 €	19.50 €
	# 180 / 80 µm	gold	0 426 119	22.60 €	20.95 €	19.50 €
	# 300 / 40 µm	light brown	0 426 219	22.60 €	20.95 €	19.50 €
	# 400 / 30 µm	orange	0 426 319	22.60 €	21.05 €	19.60 €
	# 600 / 25 µm	dark brown	0 426 419	22.60 €	21.05 €	19.60 €
	# 800 / 20 µm	blue	0 426 519	20.50 €	19.10 €	17.85 €
	# 1000 / 15 µm	white	0 426 619	20.50 €	19.10 €	17.85 €
	# 1200 / 10 µm	red	0 426 719	20.50 €	19.10 €	17.85 €
	1.5 x 6 x 150 mm	# 80 / 150 µm	violet	0 426 857	33.50 €	30.90 €
# 120 / 110 µm		green	0 426 048	33.10 €	31.05 €	28.65 €
# 180 / 80 µm		gold	0 426 148	33.10 €	31.05 €	28.65 €
# 300 / 40 µm		light brown	0 426 248	33.10 €	31.05 €	28.65 €
# 400 / 30 µm		orange	0 426 348	33.10 €	31.05 €	28.65 €
# 600 / 25 µm		dark brown	0 426 448	33.10 €	31.05 €	28.65 €
# 800 / 20 µm		blue	0 426 548	29.70 €	27.65 €	25.65 €
# 1000 / 15 µm		white	0 426 648	29.70 €	27.65 €	25.65 €
# 1200 / 10 µm		red	0 426 748	29.70 €	27.65 €	25.65 €
1.5 x 10 x 150 mm	# 80 / 150 µm	violet	0 426 858	44.10 €	40.70 €	37.95 €
	# 120 / 110 µm	green	0 426 049	43.60 €	40.60 €	37.60 €
	# 180 / 80 µm	gold	0 426 149	43.60 €	40.60 €	37.60 €
	# 300 / 40 µm	light brown	0 426 249	43.60 €	40.60 €	37.60 €
	# 400 / 30 µm	orange	0 426 349	43.60 €	40.60 €	37.60 €
	# 600 / 25 µm	dark brown	0 426 449	43.60 €	40.60 €	37.60 €
	# 800 / 20 µm	blue	0 426 549	39.35 €	36.80 €	34.10 €
	# 1000 / 15 µm	white	0 426 649	39.35 €	36.80 €	34.10 €
	# 1200 / 10 µm	red	0 426 749	39.35 €	36.80 €	34.10 €

Ceramic-fibre files NEW Super Stone


Dimensions	Grit size	Colour	Order No.	Price from		
				1 piece	5 pieces	10 pieces
 2 x 4 x 100 mm	# 120 / 110 µm	green	0 426 022	19.90 €	18.45 €	17.25 €
	# 180 / 80 µm	gold	0 426 122	19.90 €	18.45 €	17.25 €
	# 300 / 40 µm	light brown	0 426 222	19.90 €	18.45 €	17.25 €
	# 400 / 30 µm	orange	0 426 322	19.90 €	18.45 €	17.25 €
	# 600 / 25 µm	dark brown	0 426 422	19.90 €	18.45 €	17.25 €
	# 800 / 20 µm	blue	0 426 522	18.05 €	16.70 €	15.60 €
	# 1000 / 15 µm	white	0 426 622	18.05 €	16.70 €	15.60 €
	# 1200 / 10 µm	red	0 426 722	18.05 €	16.70 €	15.60 €
2 x 4 x 150 mm	# 80 / 150 µm	violet	0 426 860	29.40 €	27.10 €	25.25 €
	# 120 / 110 µm	green	0 426 051	29.15 €	27.10 €	25.15 €
	# 180 / 80 µm	gold	0 426 151	29.15 €	27.10 €	25.15 €
	# 300 / 40 µm	light brown	0 426 251	29.15 €	27.10 €	25.15 €
	# 400 / 30 µm	orange	0 426 351	29.15 €	27.10 €	25.15 €
	# 600 / 25 µm	dark brown	0 426 451	29.15 €	27.10 €	25.15 €
	# 800 / 20 µm	blue	0 426 551	26.40 €	24.65 €	22.80 €
	# 1000 / 15 µm	white	0 426 651	26.40 €	24.65 €	22.90 €
2 x 6 x 100 mm	# 1200 / 10 µm	red	0 426 751	26.40 €	24.65 €	22.90 €
	# 120 / 110 µm	green	0 426 023	30.10 €	27.95 €	26.00 €
	# 180 / 80 µm	gold	0 426 123	30.10 €	27.95 €	26.00 €
	# 300 / 40 µm	light brown	0 426 223	30.10 €	27.95 €	26.00 €
	# 400 / 30 µm	orange	0 426 323	30.10 €	27.95 €	26.00 €
	# 600 / 25 µm	dark brown	0 426 423	30.10 €	27.95 €	26.00 €
	# 800 / 20 µm	blue	0 426 523	27.30 €	25.55 €	23.60 €
	# 1000 / 15 µm	white	0 426 623	27.30 €	25.55 €	23.60 €
2 x 6 x 150 mm	# 1200 / 10 µm	red	0 426 723	27.30 €	25.55 €	23.60 €
	# 80 / 150 µm	violet	0 426 861	44.60 €	41.20 €	38.35 €
	# 120 / 110 µm	green	0 426 052	44.20 €	41.20 €	38.05 €
	# 180 / 80 µm	gold	0 426 152	44.10 €	41.10 €	38.05 €
	# 300 / 40 µm	light brown	0 426 252	44.10 €	41.10 €	38.05 €
	# 400 / 30 µm	orange	0 426 352	44.20 €	41.20 €	38.05 €
	# 600 / 25 µm	dark brown	0 426 452	44.10 €	41.10 €	38.05 €
	# 800 / 20 µm	blue	0 426 552	39.35 €	36.70 €	34.10 €
2 x 10 x 150 mm	# 1000 / 15 µm	white	0 426 652	39.35 €	36.70 €	34.10 €
	# 1200 / 10 µm	red	0 426 752	39.35 €	36.70 €	34.10 €
	# 80 / 150 µm	violet	0 426 862	58.75 €	54.20 €	50.50 €
	# 120 / 110 µm	green	0 426 053	58.20 €	54.10 €	50.10 €
	# 180 / 80 µm	gold	0 426 153	58.20 €	54.10 €	50.10 €
	# 300 / 40 µm	light brown	0 426 253	58.20 €	54.10 €	50.10 €
	# 400 / 30 µm	orange	0 426 353	58.20 €	54.10 €	50.10 €
	# 600 / 25 µm	dark brown	0 426 453	58.20 €	54.10 €	50.10 €
3 x 1 x 150 mm	# 800 / 20 µm	blue	0 426 553	52.55 €	48.95 €	45.55 €
	# 1000 / 15 µm	white	0 426 653	52.55 €	48.95 €	45.55 €
3 x 2 x 150 mm	# 1000 / 15 µm	white	0 426 653	52.55 €	48.95 €	45.55 €
	# 1200 / 10 µm	red	0 426 753	52.55 €	48.95 €	45.55 €
3 x 1 x 150 mm	# 80 / 150 µm	violet	0 426 863	22.15 €	20.40 €	19.10 €
3 x 2 x 150 mm	# 80 / 150 µm	violet	0 426 864	22.15 €	20.40 €	19.10 €

Ceramic-fibre files NEW Super Stone



Dimensions	Grit size	Colour	Order No.	Price from		
				1 piece	5 pieces	10 pieces
3 x 4 x 150 mm	# 80 / 150 µm	violet	0 426 865	44.10 €	40.70 €	37.95 €
	# 120 / 110 µm	green	0 426 056	43.60 €	40.60 €	37.60 €
	# 180 / 80 µm	gold	0 426 156	43.60 €	40.60 €	37.60 €
	# 300 / 40 µm	light brown	0 426 256	43.60 €	40.60 €	37.60 €
	# 400 / 30 µm	orange	0 426 356	43.60 €	40.60 €	37.60 €
	# 600 / 25 µm	dark brown	0 426 456	43.60 €	40.60 €	37.60 €
	# 800 / 20 µm	blue	0 426 556	39.35 €	36.80 €	34.10 €
	# 1000 / 15 µm	white	0 426 656	39.35 €	36.80 €	34.10 €
	# 1200 / 10 µm	red	0 426 756	39.35 €	36.80 €	34.10 €
3 x 6 x 100 mm	# 120 / 110 µm	green	0 426 028	45.05 €	41.95 €	38.95 €
	# 180 / 80 µm	gold	0 426 128	45.05 €	41.95 €	38.95 €
	# 300 / 40 µm	light brown	0 426 228	45.05 €	41.95 €	38.95 €
	# 400 / 30 µm	orange	0 426 328	45.05 €	41.95 €	38.95 €
	# 600 / 25 µm	dark brown	0 426 428	45.05 €	41.95 €	38.95 €
	# 800 / 20 µm	blue	0 426 528	40.90 €	38.05 €	35.35 €
	# 1000 / 15 µm	white	0 426 628	40.90 €	38.05 €	35.35 €
	# 1200 / 10 µm	red	0 426 728	40.90 €	38.05 €	35.35 €
3 x 6 x 150 mm	# 80 / 150 µm	violet	0 426 866	65.85 €	60.80 €	56.70 €
	# 120 / 110 µm	green	0 426 057	66.05 €	61.80 €	57.20 €
	# 180 / 80 µm	gold	0 426 157	66.05 €	61.80 €	57.20 €
	# 300 / 40 µm	light brown	0 426 257	66.05 €	61.80 €	57.20 €
	# 400 / 30 µm	orange	0 426 357	66.05 €	61.80 €	57.20 €
	# 600 / 25 µm	dark brown	0 426 457	66.05 €	61.80 €	57.20 €
	# 800 / 20 µm	blue	0 426 557	59.05 €	54.90 €	51.10 €
	# 1000 / 15 µm	white	0 426 657	59.05 €	54.90 €	51.10 €
	# 1200 / 10 µm	red	0 426 757	59.05 €	54.90 €	51.10 €
3 x 10 x 150 mm	# 80 / 150 µm	violet	0 426 867	88.10 €	81.30 €	75.75 €
	# 120 / 110 µm	green	0 426 058	87.05 €	81.00 €	75.10 €
	# 180 / 80 µm	gold	0 426 158	87.05 €	81.00 €	75.10 €
	# 300 / 40 µm	light brown	0 426 258	87.05 €	81.00 €	75.10 €
	# 400 / 30 µm	orange	0 426 358	87.05 €	81.00 €	75.10 €
	# 600 / 25 µm	dark brown	0 426 458	87.05 €	81.00 €	75.10 €
	# 800 / 20 µm	blue	0 426 558	78.50 €	73.25 €	68.00 €
	# 1000 / 15 µm	white	0 426 658	78.50 €	73.25 €	68.00 €
	# 1200 / 10 µm	red	0 426 758	78.50 €	73.25 €	68.00 €
1 x 1 x 100 mm	# 120 / 110 µm	green	0 426 011	4.95 €	4.62 €	4.28 €
	# 180 / 80 µm	gold	0 426 111	4.95 €	4.62 €	4.28 €
	# 300 / 40 µm	light brown	0 426 211	4.95 €	4.62 €	4.28 €
	# 400 / 30 µm	orange	0 426 311	4.95 €	4.62 €	4.28 €
	# 600 / 25 µm	dark brown	0 426 411	4.95 €	4.62 €	4.28 €
	# 800 / 20 µm	blue	0 426 511	4.39 €	4.09 €	3.79 €
	# 1000 / 15 µm	white	0 426 611	4.39 €	4.09 €	3.79 €
	# 1200 / 10 µm	red	0 426 711	4.39 €	4.09 €	3.79 €

Ceramic-fibre files NEW Super Stone

Dimensions	Grit size	Colour	Order No.	Price from		
				1 piece	5 pieces	10 pieces
 1 x 1 x 150 mm	# 80 / 150 µm	violet	0 426 849	7.35 €	6.70 €	6.30 €
	# 120 / 110 µm	green	0 426 040	7.35 €	6.95 €	6.40 €
	# 180 / 80 µm	gold	0 426 140	7.35 €	6.95 €	6.40 €
	# 300 / 40 µm	light brown	0 426 240	7.35 €	6.95 €	6.40 €
	# 400 / 30 µm	orange	0 426 340	7.35 €	6.95 €	6.40 €
	# 600 / 25 µm	dark brown	0 426 440	7.35 €	6.95 €	6.40 €
	# 800 / 20 µm	blue	0 426 540	6.80 €	6.40 €	6.00 €
	# 1000 / 15 µm	white	0 426 640	6.80 €	6.40 €	6.00 €
	# 1200 / 10 µm	red	0 426 740	6.80 €	6.40 €	6.00 €
2 x 2 x 100 mm	# 120 / 110 µm	green	0 426 021	10.10 €	9.40 €	8.70 €
	# 180 / 80 µm	gold	0 426 121	10.10 €	9.40 €	8.70 €
	# 300 / 40 µm	light brown	0 426 221	10.10 €	9.40 €	8.70 €
	# 400 / 30 µm	orange	0 426 321	10.10 €	9.40 €	8.70 €
	# 600 / 25 µm	dark brown	0 426 421	10.10 €	9.40 €	8.70 €
	# 800 / 20 µm	blue	0 426 521	9.00 €	8.45 €	7.75 €
	# 1000 / 15 µm	white	0 426 621	9.00 €	8.45 €	7.75 €
	# 1200 / 10 µm	red	0 426 721	9.00 €	8.45 €	7.75 €
2 x 2 x 150 mm	# 80 / 150 µm	violet	0 426 859	14.75 €	13.60 €	12.70 €
	# 120 / 110 µm	green	0 426 050	14.65 €	13.60 €	12.70 €
	# 180 / 80 µm	gold	0 426 150	14.65 €	13.60 €	12.70 €
	# 300 / 40 µm	light brown	0 426 250	14.65 €	13.60 €	12.70 €
	# 400 / 30 µm	orange	0 426 350	14.65 €	13.60 €	12.70 €
	# 600 / 25 µm	dark brown	0 426 450	14.65 €	13.60 €	12.70 €
	# 800 / 20 µm	blue	0 426 550	13.20 €	12.40 €	11.55 €
	# 1000 / 15 µm	white	0 426 650	13.20 €	12.40 €	11.55 €
	# 1200 / 10 µm	red	0 426 750	13.20 €	12.40 €	11.55 €
Ø 2.35 x 50 mm	# 120 / 110 µm	green	0 428 001	10.45 €	9.80 €	9.00 €
Ø 2.35 x 100 mm	# 120 / 110 µm	green	0 428 002	20.30 €	19.00 €	17.65 €
	# 180 / 80 µm	gold	0 428 102	20.30 €	19.00 €	17.65 €
	# 300 / 40 µm	light brown	0 428 202	20.30 €	19.00 €	17.65 €
	# 400 / 30 µm	orange	0 428 302	20.30 €	19.00 €	17.65 €
	# 600 / 25 µm	dark brown	0 428 402	20.30 €	19.00 €	17.65 €
	# 800 / 20 µm	blue	0 428 502	18.35 €	17.10 €	15.80 €
	# 1000 / 15 µm	white	0 428 602	18.35 €	17.10 €	15.80 €
	# 1200 / 10 µm	red	0 428 702	18.25 €	17.10 €	15.80 €
Ø 2.35 x 150 mm	# 120 / 110 µm	green	0 428 003	30.40 €	28.25 €	26.30 €
	# 180 / 80 µm	gold	0 428 103	30.40 €	28.25 €	26.30 €
	# 300 / 40 µm	light brown	0 428 203	30.40 €	28.25 €	26.30 €
	# 400 / 30 µm	orange	0 428 303	30.40 €	28.25 €	26.30 €
	# 600 / 25 µm	dark brown	0 428 403	30.40 €	28.25 €	26.30 €
	# 800 / 20 µm	blue	0 428 503	27.65 €	25.80 €	23.90 €
	# 1000 / 15 µm	white	0 428 603	27.65 €	25.80 €	23.90 €
# 1200 / 10 µm	red	0 428 703	27.65 €	25.80 €	23.90 €	

Ceramic-fibre files NEW Super Stone

	Dimensions	Grit size	Colour	Order No.	Price from		
					1 piece	5 pieces	10 pieces
	Ø 3 x 100 mm	# 120 / 110 µm	green	0 428 005	20.30 €	19.00 €	17.65 €
		# 180 / 80 µm	gold	0 428 105	20.30 €	19.00 €	17.65 €
		# 300 / 40 µm	light brown	0 428 205	20.30 €	19.00 €	17.65 €
		# 400 / 30 µm	orange	0 428 305	20.30 €	19.00 €	17.65 €
		# 600 / 25 µm	dark brown	0 428 405	20.30 €	19.00 €	17.65 €
		# 800 / 20 µm	blue	0 428 505	20.30 €	19.00 €	17.65 €
		# 1000 / 15 µm	white	0 428 605	18.35 €	17.10 €	15.80 €
		# 1200 / 10 µm	red	0 428 705	18.35 €	17.10 €	15.80 €
	Ø 3 x 150 mm	# 120 / 110 µm	green	0 428 006	30.40 €	28.25 €	26.30 €
		# 180 / 80 µm	gold	0 428 106	30.40 €	28.25 €	26.30 €
		# 300 / 40 µm	light brown	0 428 206	30.40 €	28.25 €	26.30 €
		# 400 / 30 µm	orange	0 428 306	30.40 €	28.25 €	26.30 €
		# 600 / 25 µm	dark brown	0 428 406	30.40 €	28.25 €	26.30 €
		# 800 / 20 µm	blue	0 428 506	27.65 €	25.80 €	23.90 €
		# 1000 / 15 µm	white	0 428 606	27.65 €	25.80 €	23.90 €
		# 1200 / 10 µm	red	0 428 706	27.65 €	25.80 €	23.90 €

Ceramic-fibre files



Take the long-established ceramic fibre-files and blend additional diamond grits into the binder. You then have this sensible further development. Owing to the additional diamond grits among the individual fibres and above all around the circumference of the files, the latter can be used over their entire length. The result is a fine, very uniform grinding pattern with good stock removal.

Tip: very well suited for use with ultrasonic polishing systems.

	Dimensions	Total length	Grit size	Colour	Order No.	Price from	
						1 piece	5 pieces
Diamond ceramic-fibre files							
flat							
	1 x 4 x 100 mm	100	# 200 / 70 µm	black	0 406 080	26.30 €	23.70 €
		100	# 400 / 30 µm	blue/green	0 406 051	26.30 €	23.70 €
		100	# 800 / 20 µm	grey	0 406 052	26.30 €	23.70 €
		100	# 1200 / 15 µm	moss green	0 406 053	26.30 €	23.70 €
	1 x 6 x 100 mm	100	# 200 / 70 µm	black	0 406 081	40.80 €	36.70 €
		100	# 400 / 30 µm	blue/green	0 406 054	40.80 €	36.70 €
		100	# 800 / 20 µm	grey	0 406 055	40.80 €	36.70 €
		100	# 1200 / 15 µm	moss green	0 406 056	40.80 €	36.70 €
	1 x 10 x 100 mm	100	# 400 / 30 µm	blue/green	0 406 057	64.60 €	56.45 €
		100	# 800 / 20 µm	grey	0 406 058	64.60 €	56.45 €
		100	# 1200 / 15 µm	moss green	0 406 059	64.60 €	56.45 €
		100	# 200 / 70 µm	black	0 406 082	64.60 €	56.45 €
round							
	Ø 3 x 100 mm	100	# 200 / 70 µm	black	0 406 089	55.25 €	49.75 €
		100	# 400 / 30 µm	grey	0 406 090	55.25 €	49.75 €
		100	# 600 / 25 µm	moss green	0 406 091	55.25 €	49.75 €



Ceramic-fibre files joke Mini for filigree processing!



These tiny little things are optimal for working on the smallest scale by hand. The right holders make for convenient handling.



	Dimensions	Grit size	Colour	Packing quantity	Order No.	Price from		
						1 pack	3 packs	5 packs
Ceramic-fibre files joke Mini								
flat								
	0.5 x 0.5 x 50 mm	# 1200 / 10 µm	red	3 piece	0 424 951	9.90 €	9.20 €	8.25 €
		# 800 / 20 µm	blue	3 piece	0 424 952	9.90 €	9.20 €	8.25 €
	0.9 x 0.9 x 50 mm	# 1200 / 10 µm	red	3 piece	0 424 961	9.90 €	9.20 €	8.25 €
		# 800 / 20 µm	blue	3 piece	0 424 962	9.90 €	9.20 €	8.25 €

Accessories / spare parts

	Order No.	Price from
		1 piece
holder for ceramic-fibre file Mini		
	holder for ceramic-fibre file 0.5 x 0.5 mm	0 424 950 7.80 €
	holder for ceramic-fibre file 0.9 x 0.9 mm	0 424 960 10.45 €

Ceramic-fibre files joke Soft soft and adjustable!

Ideal for deburring eroded electrodes made of copper and the processing of stainless steel and aluminium. Due to the rubber bond these files are soft and adaptable. They do not cause any scratches, as a result of which for example the electrode is not damaged during processing. Error rate, costs and processing time are reduced. The files wear very evenly and produce a shiny surface. Suitable for raising a shine on tool steel from 50 HRC. Only suitable for manual use!

	Dimensions	Grit size	Colour	Order No.	Price from		
					1 piece	5 pieces	10 pieces
Ceramic-fibre files joke Soft							
flat							
	2 x 6 x 100 mm	# 1200 / 10 µm	white	0 424 981	59.35 €	55.15 €	49.75 €
round							
	∅ 3 x 100 mm	# 1200 / 10 µm	white	0 424 982	59.35 €	55.15 €	49.75 €

Set of holder + ceramic-fibre files for manual use

Set of holder + ceramic-fibre files

With this set, the suitable ceramic-fibre files are already included with the handy holder.

The ideal combination for filigree, narrow and difficult to access places in addition to very fine details on the workpiece.

The very light holder lies securely in the hand and allows you extremely comfortable work. The practical rotary lock secures the inserted files and makes changing tools child's play.

Set including holder plus three files. Other suitable files available (see table!).



	Order No.	Price from 1 set
Set of holder + ceramic fibre files	0 424 600	21.25 €







The set consists of 1 x holder with protective cap and 1 x ceramic file 0.5 x 4 x 50 mm respectively in grit size # 120/110 µm, # 300/40 µm and # 800/20 µm

Accessories / spare parts

	Dimensions	Grit size	Colour	Order No.	1 piece	5 pieces	10 pieces
	0.5 x 4 x 50 mm	# 120 / 110 µm	green	0 424 571-1	6.70 €	6.10 €	5.30 €
		# 180 / 80 µm	gold	0 424 572-1	6.70 €	6.10 €	5.30 €
		# 300 / 40 µm	light brown	0 424 573-1	6.70 €	6.10 €	5.30 €
		# 400 / 30 µm	orange	0 424 574-1	6.70 €	6.10 €	5.30 €
		# 600 / 25 µm	dark brown	0 424 575-1	6.70 €	6.10 €	5.30 €
		# 800 / 20 µm	blue	0 424 576-1	6.70 €	6.30 €	5.30 €
		# 1000 / 15 µm	white	0 424 577-1	6.70 €	6.10 €	5.30 €
		# 1200 / 10 µm	red	0 424 578-1	6.70 €	6.10 €	5.30 €

2 Holders for ceramic-fibre files for manual use

Practical plastic holders facilitating the manual use of ceramic-fibre files. Available in various different widths and as metal holder for round files.

	Dimensions	Packing quantity	Order No.	Price from	
				1 piece	1 set
Holders for ceramic-fibre files					
	Holder for files of 1 mm width		0 406 157	5.30 €	
	Holder for files of 2 mm width		0 406 154	5.30 €	
	Holder for files of 4 mm width		0 406 151	5.30 €	
	Holder for files of 6 mm width		0 406 152	5.30 €	
	Holder for files of 10 mm width		0 406 153	5.30 €	
	Set (for 4, 6 and 10 mm width)		3 piece	0 406 150	
Holder for round ceramic-fibre files					
	Holder for round ceramic-fibre files Ø 2.35 mm		0 406 156	10.95 €	
	Holder for round ceramic-fibre files Ø 3 mm	Ø 3 mm	0 406 155	10.10 €	
holder for ceramic-fibre file Mini					
	holder for ceramic-fibre file 0.5 x 0.5 mm		0 424 950	7.80 €	
	holder for ceramic-fibre file 0.9 x 0.9 mm		0 424 960	10.45 €	
					

Ceramic-fibre files on a shank

shank Ø 3 x 30 mm

These ceramic-fibre files offer a secure grip in the shank. They are economical and efficient to use, as there are no more left-overs. These tools can be used for a wide range of applications: They are ideal for use in ultrasonic polishing systems and short-stroke hand-filing machines. Good results are also achieved when used in rotating handpieces with up to 50,000 rpm.







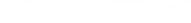

	Head dimensions	Grit size	Colour	Shank dimensions	Order No.	Price from		
						1 piece	5 pieces	10 pieces
Ceramic-fibre files on a shank, shank Ø 3 x 30 mm								
round								
	Ø 1 x 9 mm	# 180 / 80 µm	gold	Ø 3 x 30 mm	0 425 100	6.00 €	5.60 €	4.90 €
	Ø 1,5 x 9 mm	# 180 / 80 µm	gold	Ø 3 x 30 mm	0 425 101	6.00 €	5.60 €	4.90 €
	Ø 2 x 9 mm	# 180 / 80 µm	gold	Ø 3 x 30 mm	0 425 102	6.00 €	5.60 €	4.90 €
	Ø 1 x 9 mm	# 300 / 40 µm	light brown	Ø 3 x 30 mm	0 425 105	6.20 €	5.70 €	5.00 €
<i>n_{max} 50.000 1/min</i>	Ø 1,5 x 9 mm	# 300 / 40 µm	light brown	Ø 3 x 30 mm	0 425 106	6.20 €	5.70 €	5.00 €
	Ø 2 x 9 mm	# 300 / 40 µm	light brown	Ø 3 x 30 mm	0 425 107	6.00 €	5.60 €	4.90 €
	Ø 1 x 9 mm	# 400 / 30 µm	orange	Ø 3 x 30 mm	0 425 110	6.00 €	5.60 €	4.90 €
	Ø 1,5 x 9 mm	# 400 / 30 µm	orange	Ø 3 x 30 mm	0 425 111	6.00 €	5.60 €	4.90 €
	Ø 2 x 9 mm	# 400 / 30 µm	orange	Ø 3 x 30 mm	0 425 112	6.00 €	5.60 €	4.90 €
	Ø 1 x 9 mm	# 600 / 25 µm	dark brown	Ø 3 x 30 mm	0 425 115	6.00 €	5.60 €	4.90 €
	Ø 1,5 x 9 mm	# 600 / 25 µm	dark brown	Ø 3 x 30 mm	0 425 116	6.00 €	5.60 €	4.90 €
	Ø 1 x 9 mm	# 800 / 20 µm	blue	Ø 3 x 30 mm	0 425 120	6.00 €	5.60 €	4.90 €
	Ø 1,5 x 9 mm	# 800 / 20 µm	blue	Ø 3 x 30 mm	0 425 121	6.00 €	5.60 €	4.90 €
	Ø 1 x 9 mm	# 1000 / 15 µm	white	Ø 3 x 30 mm	0 425 125	6.00 €	5.60 €	4.90 €
	Ø 1,5 x 9 mm	# 1000 / 15 µm	white	Ø 3 x 30 mm	0 425 126	6.00 €	5.60 €	4.90 €
	Ø 2 x 9 mm	# 1000 / 15 µm	white	Ø 3 x 30 mm	0 425 127	6.00 €	5.60 €	4.90 €
	Ø 1 x 9 mm	# 1200 / 10 µm	red	Ø 3 x 30 mm	0 425 130	6.00 €	5.60 €	4.90 €
	Ø 1,5 x 9 mm	# 1200 / 10 µm	red	Ø 3 x 30 mm	0 425 131	6.00 €	5.60 €	4.90 €
	Ø 2 x 9 mm	# 1200 / 10 µm	red	Ø 3 x 30 mm	0 425 132	6.00 €	5.60 €	4.90 €

Crystal-fibre-brushes

shank Ø 3 x 30 mm

NEW!

These crystal fibre brushes on shank are made of bundled crystal fibers. Through frontal application, these tools achieve their best results and thus remove erosion structures, burrs and much more.

	Head dimensions	Grit size	Shank dimensions	Order No.	Price from		
					1 piece	5 pieces	10 pieces
Crystal-fibre-brushes, shank Ø 3 x 30 mm							
	Ø 5 x 20 mm	# 150	Ø 3 x 30 mm	0 406 430	29.80 €	27.30 €	24.65 €
		# 200	Ø 3 x 30 mm	0 406 431	29.80 €	27.30 €	24.65 €
		# 400	Ø 3 x 30 mm	0 406 432	29.80 €	27.30 €	24.65 €
		# 600	Ø 3 x 30 mm	0 406 433	29.80 €	27.30 €	24.65 €
		# 800	Ø 3 x 30 mm	0 406 434	29.80 €	27.30 €	24.65 €
		# 1000	Ø 3 x 30 mm	0 406 435	29.80 €	27.30 €	24.65 €

Ceramic-fibre brushes



shank Ø 3 x 30 mm

 n_{max} 12.000 1/min



In these tools, individual ceramic-fibres are grouped together to form a brush. This allows effective work with the fibre tips. Excellent properties in eliminating erosion structures and for deburring aluminium, brass etc.

Tip: the additional use of diamond compound considerably improves the working result.

	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from		
						1 piece	5 pieces	10 pieces
Ceramic-fibre brushes, shank Ø 3 x 30 mm								
	Ø 5 x 20 mm	# 1200 / 10 µm	Ø 3 x 30 mm	12,000 1/min	0 406 200	29.80 €	27.30 €	25.05 €
		# 1000 / 15 µm	Ø 3 x 30 mm	12,000 1/min	0 406 240	29.80 €	27.30 €	25.05 €

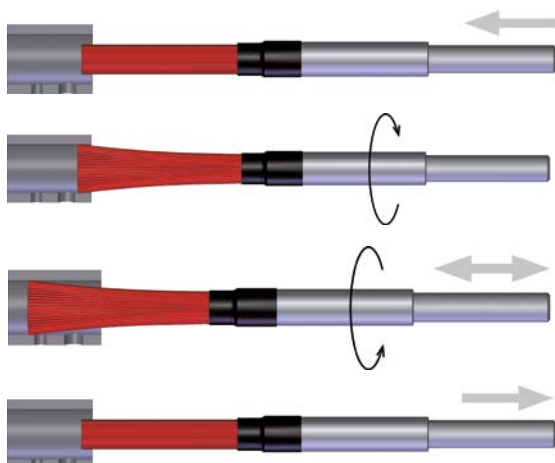


Ceramic-fibre brushes

Cross-Hole

- High-tech material made of special Al_2O_3 ceramic
- The centrifugal force generated by rotation guides the grinding tips of the fibre rods on the crossways bores and efficiently removes fine burrs of up to 0.1 mm
- Burrs are thoroughly removed without damaging the bores
- A fibre rod consists of approx. 1,000 individual fibres, each with a diameter of approx. 10 μm and optimum crystalline structure for the grinding process; the tip consists of approx. 1,000 high-density cutting edges
- The self-sharpening action of the cutting edges at the fibre ends ensures a high level of grinding ability. The constantly acting cutting edges ensure a stable and continuous cutting performance.
- Versatile in use, e.g. in processing centres, special machines, drilling machines and robots and many others
- High elasticity and flexibility ensure optimum adaptation to the workpiece
- Long service lives for markedly higher productivity and lower costs

	Drilling dimension	Shank dimensions	Total length	Rotation speed max.	Order No.	Price from		
						1 piece	3 pieces	5 pieces
Ceramic-fibre brushes Cross-Hole								
	Ø 3.5 x 50 mm	Ø 3 x 30 mm	120 mm	12,000 1/min	0 406 291	49.05 €	47.80 €	43.60 €
	Ø 5 x 50 mm	Ø 3 x 30 mm	120 mm	12,000 1/min	0 406 292	49.05 €	47.80 €	43.60 €
		Ø 4 x 30 mm	170 mm	12,000 1/min	0 406 293	85.95 €	83.65 €	76.25 €
	Ø 8 x 50 mm	Ø 6 x 30 mm	120 mm	12,000 1/min	0 406 294	66.65 €	65.00 €	59.35 €
		Ø 6 x 30 mm	170 mm	12,000 1/min	0 406 295	109.60 €	106.75 €	97.35 €
	Ø 10 x 50 mm	Ø 6 x 30 mm	120 mm	12,000 1/min	0 406 296	96.45 €	93.85 €	85.60 €
		Ø 8 x 30 mm	170 mm	12,000 1/min	0 406 297	145.25 €	141.45 €	128.80 €
	Ø 20 x 60 mm	Ø 12 x 30 mm	130 mm	12,000 1/min	0 406 320	131.05 €	124.25 €	114.15 €



Functional principle

1. Approach movement

With the shaft stationary, the tool is inserted into the bore in front of the position to be deburred.

2. Switch on the working shaft

Set the shaft in motion in the bore in the clockwise direction immediately in front of the crossways bore to be deburred.

3. Backwards and forwards movement

Guide the fibre rods in front of and behind the crossways bores. In rearwards motion, we additionally recommend a change in the shaft rotation direction.

4. Withdrawal from the bore

Shaft rotation must be stopped before the tool is removed from the bore.













Note:

For an optimum deburring result, repeat the four working stages from the other side of the main bore.

Crystal fibre cutting disc Cristone for hardened steel and carbide metal

NEW!

Extremely stable, unbreakable, high cutting performance. These are the crystal fibre cutting discs from joke. Use dry or with diamond pastes or fluids.

	Dimensions	Drilling dimension	Grit size	Colour	Rotation speed max.	Order No.	Price from		
							1 piece	5 pieces	10 pieces
Crystal fibre cutting disc Cristone									
	Ø 19 x 0.8 mm	1.6 mm	150	green	50,000 1/min	0 425 200	23.80 €	21.85 €	18.65 €
			200	pink	50,000 1/min	0 425 201	23.80 €	21.85 €	18.65 €
			400	violet	50,000 1/min	0 425 202	23.80 €	21.85 €	18.65 €
			600	orange	50,000 1/min	0 425 203	23.80 €	21.85 €	18.65 €
			800	blue	50,000 1/min	0 425 204	23.80 €	21.85 €	18.65 €
			1000	white	50,000 1/min	0 425 205	23.80 €	21.85 €	18.65 €
			Ø 22 x 0.8 mm	1.6 mm	150	green	45,000 1/min	0 425 206	29.15 €
	200	pink			45,000 1/min	0 425 207	29.15 €	26.60 €	22.80 €
	400	violet			45,000 1/min	0 425 208	29.15 €	26.60 €	22.80 €
	600	orange			45,000 1/min	0 425 209	29.15 €	26.60 €	22.80 €
	800	blue			45,000 1/min	0 425 210	29.15 €	26.60 €	22.80 €
	1000	white			45,000 1/min	0 425 211	29.15 €	26.60 €	22.80 €

Crystal fibre cutting disc Cristone for hardened steel and carbide metal

Accessories / spare parts

	For bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from	
						1 piece	10 pieces
CRATEX® grinding wheel holder							
	Ø 1.5 - 1.8 mm	Ø 2.35 x 30/15 mm	25	Ø 38 x 4.5 mm	0 545 279	0.96 €	0.80 €
		Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	0 545 275	1.16 €	0.97 €
		Ø 3 x 40/30 mm	24	Ø 38 x 3 mm	0 545 278	1.16 €	0.97 €
		Ø 3 x 40 mm	22	Ø 38 x 4.5 mm	0 545 276	1.16 €	0.97 €
		Ø 3 x 40 mm	26	Ø 25 x 8.5 mm	0 545 280	1.41 €	1.12 €
		Ø 6 x 40 mm	23	Ø 38 x 4.5 mm	0 545 277	1.16 €	0.97 €
		Ø 6 x 40 mm	27	Ø 25 x 8.5 mm	0 545 281	1.41 €	1.12 €





Emery and fleece tools

267 Abrasive cords and belts

268 Abrasive sleeves and caps

277 Flap wheels

284 Cup wheel discs

288 Grinding sheets

298 Emery sheets and strips

Discover the entire range of abrasives and grinding tools.



Regardless of whether rotating on a shank, cap and sleeve-shaped, as belts, sheets, discs, emery papers and/or strips...we've got the right tool to match your grinding task!

MITCHELL'S Abrasive cords and belts

Corundum • Silicon carbide

The flexible abrasive cords from joke will open up a whole new world for you when processing hard to access areas. With these tools it is possible to grind, deburr and polish small holes, grooves, incisions and many further fiddly areas. The abrasive cords are rip-resistant, do not fray and are optionally impregnated with corundum or silicon carbide. They are therefore perfectly suited to your individual requirements. Use is possible with and without compounds and handling is child's play: with just a "cut" you can make the cord the length you want. The almost 15-metre long abrasive cords are delivered on a handy spool. They are available in diameters 0.3 mm to 2.4 mm and as belt in 2.4 mm width.

- Applicable to all materials
- Processing of areas difficult to reach

	Dimensions	Grit size	Type	Order No.	Price from		
					1 piece	3 pieces	5 pieces
Abrasive cords and belts							
Corundum							
	Ø 0.8 mm	200	54	0 531 974	20.95 €	19.60 €	17.65 €
	Ø 1.0 mm	180	53	0 531 973	20.95 €	19.60 €	17.65 €
	Ø 1.4 mm	120	51	0 531 972	20.20 €	18.65 €	17.10 €
	Ø 1.8 mm	180	50	0 531 971	34.95 €	32.25 €	29.80 €
	Ø 2.1 mm	120	49	0 531 970	34.95 €	32.25 €	29.80 €
	Ø 2.4 mm	150	48	0 531 998	59.05 €	56.15 €	51.85 €
	2.4 x 0.9 mm	180	56	0 531 975	20.95 €	19.60 €	17.65 €
	3.2 x 0.9 mm	180	57	0 531 976	22.40 €	20.75 €	19.10 €
Silicon carbide							
	Ø 0.3 mm	280	66	0 531 983	55.05 €	50.80 €	46.80 €
	Ø 0.4 mm	200	60	0 531 982	22.90 €	21.25 €	19.80 €
	Ø 0.5 mm	200	55	0 531 981	22.90 €	21.25 €	19.80 €
	Ø 1.0 mm	180	53-S	0 531 985	40.90 €	37.20 €	34.30 €



Processing tooth bases



Processing bore holes

Abrasive sleeves, caps and rubber holders

jokeFlex



jokeFlex abrasive sleeves and caps

Thanks to their seamless and transition-free shape, jokeFlex abrasive sleeves and caps achieve top results. They are push-fitted on elastic, suitably shaped rubber holders. The special feature owing to the slotted shape of the rubber holder, the push-fit abrasive sleeves and caps are held securely by the rotational forces during processing. Once they are worn out, simply replace the sleeves/caps with new ones, re-using the same holder.

jokeFlex abrasive sleeves and caps run particularly true, are easy to guide and achieve a very soft grinding pattern.

Particularly very well suited for fine finishing of metals, particularly steels.


Cutting speed Vmax: 40 m/s

	Inside dimensions	Suitable rubber holder	Grit size	Packing quantity	Order No.	Price from	
						1 pack	5 packs
Abrasive sleeves, cylinder							
Corundum							
	Ø 10 x 10 mm	0 544 601	240	10 pieces	0 544 620	4.33 €	3.88 €
		0 544 601	150	10 pieces	0 544 621	4.33 €	3.88 €
		0 544 601	80	10 pieces	0 544 622	4.33 €	3.88 €
	Ø 10 x 20 mm	0 544 602	150	10 pieces	0 544 624	6.45 €	5.50 €
		0 544 602	80	10 pieces	0 544 625	6.45 €	5.50 €
	Ø 13 x 10 mm	0 544 603	150	10 pieces	0 544 627	4.33 €	3.88 €
0 544 603		80	10 pieces	0 544 628	4.33 €	3.88 €	
Ø 13 x 25 mm	0 544 604	150	10 pieces	0 544 630	5.50 €	4.97 €	
	0 544 604	80	10 pieces	0 544 631	5.90 €	5.20 €	
Ø 15 x 10 mm	0 544 605	150	10 pieces	0 544 633	4.33 €	3.88 €	
	0 544 605	80	10 pieces	0 544 634	4.33 €	3.88 €	
Ø 15 x 30 mm	0 544 606	240	10 pieces	0 544 636	6.45 €	5.50 €	
	0 544 606	150	10 pieces	0 544 637	4.23 €	3.83 €	
	0 544 606	80	10 pieces	0 544 638	4.23 €	3.83 €	
	0 544 606	60	10 pieces	0 544 639	4.46 €	3.83 €	
Ø 22 x 20 mm	0 544 607	240	10 pieces	0 544 640	4.33 €	3.88 €	
	0 544 607	150	10 pieces	0 544 641	3.00 €	2.84 €	
	0 544 607	80	10 pieces	0 544 642	2.99 €	2.84 €	
	0 544 607	60	10 pieces	0 544 643	3.00 €	2.80 €	
Ø 25 x 25 mm	0 544 608	150	10 pieces	0 544 645	6.45 €	5.50 €	
	0 544 608	80	10 pieces	0 544 646	6.45 €	5.50 €	
	0 544 608	60	10 pieces	0 544 647	7.50 €	6.85 €	
Ø 30 x 20 mm	0 544 609	150	10 pieces	0 544 649	3.91 €	3.62 €	
	0 544 609	80	10 pieces	0 544 650	3.91 €	3.62 €	
Ø 30 x 30 mm	0 544 610	240	10 pieces	0 544 653	7.35 €	6.75 €	
	0 544 610	150	10 pieces	0 544 654	5.15 €	4.76 €	
	0 544 610	80	10 pieces	0 544 655	5.15 €	4.76 €	
	0 544 610	60	10 pieces	0 544 656	5.15 €	4.82 €	
	0 544 610	40	10 pieces	0 544 657	7.05 €	6.45 €	
Ø 45 x 30 mm	0 544 612	80	10 pieces	0 544 665	6.95 €	6.65 €	
	0 544 612	40	10 pieces	0 544 667	9.25 €	8.30 €	
NEW!							
Zirconium corundum							
	Ø 30 x 30 mm	0 544 610	36	50 pieces	0 544 870	39.45 €	35.30 €
		0 544 610	50	50 pieces	0 544 871	39.45 €	35.30 €
		0 544 610	60	50 pieces	0 544 872	39.45 €	35.30 €
		0 544 610	80	50 pieces	0 544 873	39.45 €	35.30 €



Abrasive sleeves, caps and rubber holders

jokeFlex

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	Inside dimensions	Suitable rubber holder	Grit size	Packing quantity	Order No.	Price from	
						1 pack	5 packs
Abrasive sleeves, conical							
Corundum							
	Ø 29/22 x 30 mm	0 544 617	150	10 pieces	0 544 689	15.75 €	14.70 €
		0 544 617	80	10 pieces	0 544 690	15.75 €	14.70 €
		0 544 617	60	10 pieces	0 544 691	15.75 €	14.70 €

Accessories / spare parts


	Head dimensions	Shank dimensions	Order No.	Price from	
				1 piece	5 pieces
Rubber holder, jokeFlex					
cylinder					
	Ø 10 x 10 mm	Ø 6 x 40 mm	0 544 601	7.80 €	7.35 €
	Ø 10 x 20 mm	Ø 6 x 40 mm	0 544 602	8.30 €	7.70 €
	Ø 13 x 10 mm	Ø 6 x 40 mm	0 544 603	7.80 €	7.35 €
	Ø 13 x 25 mm	Ø 6 x 40 mm	0 544 604	11.50 €	10.90 €
	Ø 15 x 10 mm	Ø 6 x 40 mm	0 544 605	7.80 €	7.35 €
	Ø 15 x 30 mm	Ø 6 x 40 mm	0 544 606	8.60 €	8.30 €
	Ø 22 x 20 mm	Ø 6 x 40 mm	0 544 607	8.60 €	8.30 €
	Ø 25 x 25 mm	Ø 6 x 40 mm	0 544 608	12.95 €	12.45 €
	Ø 30 x 20 mm	Ø 6 x 40 mm	0 544 609	9.05 €	8.40 €
	Ø 30 x 30 mm	Ø 6 x 40 mm	0 544 610	9.65 €	9.05 €
	Ø 45 x 30 mm	Ø 6 x 40 mm	0 544 612	11.00 €	10.40 €
Conical					
	Ø 29/22 x 30 mm	Ø 6 x 40 mm	0 544 617	10.25 €	9.85 €

Abrasive caps and rubber holders

jokeFlex



	Outside dimensions	Suitable rubber holder	Grit size	Packing quantity	Order No.	Price from	
						1 pack	5 packs
Abrasive caps, cylinder							
Corundum							
	Ø 7 x 10 mm	0 544 401	80	100 pieces	0 544 421	59.75 €	55.00 €
		0 544 401	150	100 pieces	0 544 422	59.75 €	55.00 €
		0 544 401	320	100 pieces	0 544 423	59.75 €	55.00 €
	Ø 9 x 12 mm	0 544 402	80	100 pieces	0 544 424	59.75 €	55.00 €
		0 544 402	150	100 pieces	0 544 425	63.05 €	57.65 €
		0 544 402	320	100 pieces	0 544 426	63.05 €	57.65 €
	Ø 12 x 15 mm	0 544 403	80	100 pieces	0 544 427	65.85 €	60.25 €
		0 544 403	150	100 pieces	0 544 428	65.85 €	60.25 €
		0 544 403	320	100 pieces	0 544 429	65.85 €	60.25 €
	Ø 15 x 17 mm	0 544 404	80	100 pieces	0 544 430	60.90 €	55.80 €
		0 544 404	150	100 pieces	0 544 431	60.90 €	55.80 €
		0 544 404	320	100 pieces	0 544 432	60.90 €	55.80 €
	Ø 18 x 26 mm	0 544 405, 0 544 406	80	100 pieces	0 544 433	70.70 €	64.70 €
		0 544 405, 0 544 406	150	100 pieces	0 544 434	70.70 €	64.70 €
		0 544 405, 0 544 406	320	100 pieces	0 544 435	70.00 €	64.30 €
Green Corundum							
	Ø 7 x 10 mm	0 544 401	80	100 pieces	0 544 488	79.80 €	73.30 €
		0 544 401	150	100 pieces	0 544 489	81.40 €	74.55 €

Accessories / spare parts


	Head dimensions	Shank dimensions	Order No.	Price from		
				1 piece	5 pieces	10 pieces
Rubber holder, jokeFlex						
cylinder						
	Ø 5 x 10 mm	Ø 3 x 25 mm	0 544 401	4.94 €	4.59 €	4.38 €
	Ø 7 x 12 mm	Ø 3 x 25 mm	0 544 402	5.30 €	4.87 €	4.64 €
	Ø 10 x 15 mm	Ø 3 x 25 mm	0 544 403	5.90 €	5.15 €	4.87 €
	Ø 13 x 17 mm	Ø 3 x 25 mm	0 544 404	4.63 €	4.27 €	3.93 €
	Ø 16 x 26 mm	Ø 3 x 25 mm	0 544 405	4.63 €	4.27 €	3.93 €
		Ø 6 x 40 mm	0 544 406	5.40 €	4.94 €	4.76 €

Abrasive caps and rubber holders

jokeFlex


	Outside dimensions	Suitable rubber holder	Grit size	Packing quantity	Order No.	Price from	
						1 pack	5 packs
Abrasive caps, rounded cylinder							
Corundum							
	Ø 7 x 11 mm	0 544 407	80	100 pieces	0 544 436	59.75 €	55.00 €
		0 544 407	150	100 pieces	0 544 437	59.75 €	55.00 €
		0 544 407	320	100 pieces	0 544 438	59.75 €	55.00 €
	Ø 9 x 13 mm	0 544 408	80	100 pieces	0 544 439	63.05 €	57.65 €
		0 544 408	150	100 pieces	0 544 440	63.05 €	57.65 €
		0 544 408	320	100 pieces	0 544 441	63.05 €	57.65 €
	Ø 12 x 15 mm	0 544 409	80	100 pieces	0 544 442	65.85 €	60.25 €
		0 544 409	150	100 pieces	0 544 443	65.85 €	60.25 €
		0 544 409	320	100 pieces	0 544 444	65.85 €	60.25 €
	Ø 15 x 19 mm	0 544 410	80	100 pieces	0 544 445	60.25 €	55.20 €
		0 544 410	150	100 pieces	0 544 446	60.25 €	55.20 €
		0 544 410	320	100 pieces	0 544 447	60.25 €	55.20 €
Ø 18 x 26 mm	0 544 411, 0 544 412	80	100 pieces	0 544 448	71.45 €	65.75 €	
	0 544 411, 0 544 412	150	100 pieces	0 544 449	70.80 €	65.75 €	
	0 544 411, 0 544 412	320	100 pieces	0 544 450	70.40 €	65.75 €	
Green Corundum							
	Ø 7 x 11 mm	0 544 407	80	100 pieces	0 544 477	79.80 €	73.30 €
		0 544 407	150	100 pieces	0 544 478	81.40 €	74.55 €
	Ø 12 x 15 mm	0 544 409	60	100 pieces	0 544 482	87.60 €	80.45 €
		0 544 409	80	100 pieces	0 544 483	87.60 €	80.45 €
		0 544 409	150	100 pieces	0 544 484	94.00 €	85.85 €

Accessories / spare parts


	Head dimensions	Shank dimensions	Order No.	Price from		
				1 piece	5 pieces	10 pieces
Rubber holder, jokeFlex						
rounded cylinder						
	Ø 5 x 11 mm	Ø 3 x 25 mm	0 544 407	5.20 €	4.78 €	4.60 €
	Ø 7 x 13 mm	Ø 3 x 25 mm	0 544 408	5.70 €	5.15 €	4.84 €
	Ø 10 x 15 mm	Ø 3 x 25 mm	0 544 409	6.35 €	5.50 €	5.15 €
	Ø 13 x 19 mm	Ø 3 x 25 mm	0 544 410	4.63 €	4.27 €	3.93 €
	Ø 16 x 26 mm	Ø 3 x 25 mm	0 544 411	4.63 €	4.27 €	3.93 €
		Ø 6 x 40 mm	0 544 412	6.75 €	6.35 €	5.90 €

Abrasive caps and rubber holders

jokeFlex





	Outside dimensions	Suitable rubber holder	Grit size	Packing quantity	Order No.	Price from	
						1 pack	5 packs
Abrasive caps, pointed cylinder							
Corundum							
	Ø 7 x 11 mm	0 544 413	80	100 pieces	0 544 451	59.75 €	55.00 €
		0 544 413	150	100 pieces	0 544 452	59.75 €	55.00 €
		0 544 413	320	100 pieces	0 544 453	59.75 €	55.00 €
	Ø 9 x 13 mm	0 544 414	80	100 pieces	0 544 454	50.55 €	47.30 €
		0 544 414	150	100 pieces	0 544 455	50.55 €	47.30 €
		0 544 414	320	100 pieces	0 544 456	50.55 €	47.30 €

Accessories / spare parts


	Head dimensions	Shank dimensions	Order No.	Price from		
				1 piece	5 pieces	10 pieces
Rubber holder, jokeFlex						
pointed cylinder						
	Ø 5 x 11 mm	Ø 3 x 25 mm	0 544 413	5.20 €	4.78 €	4.60 €
	Ø 7 x 13 mm	Ø 3 x 25 mm	0 544 414	4.41 €	4.11 €	3.77 €

Abrasive caps and rubber holders

POLICAP

		Outside dimensions	Suitable rubber holder	Grit size	Packing quantity	Order No.	Price from	
							1 pack	5 packs
Abrasive caps, rounded cylinder								
Co-Cool								
	Owing to the special structure of the ceramic grit in addition to the active grinding bond components, ideal for processing stainless steels (INOX) and for the high-temperature nickel and cobalt-based alloys, e.g. Inconel®, Hastelloy® frequently used in turbine construction. The active grinding additives prevent clogging and result in a cooler cut with markedly greater stock removal.	Ø 7 x 13 mm	0 544 408	80	50 pieces	0 543 000	49.55 €	44.50 €
		Ø 7 x 13 mm	0 544 408	120	50 pieces	0 543 001	49.55 €	44.50 €
SiC-Cool								
	Ideal for processing components made of titanium and aluminium, in addition to their respective alloys. Excellent for use in aircraft and turbine construction and the correspondent maintenance. The special grit selection and the active grinding additive material in the bond allow a cool cut, reduce the workpiece temperature and prevent adhesion of the chips.	Ø 7 x 13 mm	0 544 408	80	50 pieces	0 543 010	46.40 €	41.65 €
		Ø 7 x 13 mm	0 544 408	150	50 pieces	0 543 011	46.40 €	41.65 €

Accessories / spare parts

				Price from		
Head dimensions	Shank dimensions	Order No.	1 piece	5 pieces	10 pieces	
Rubber holder, jokeFlex						
rounded cylinder						
	Ø 7 x 13 mm	Ø 3 x 25 mm	0 544 408	5.70 €	5.15 €	4.84 €




Abrasive caps and rubber holders jokeFlex

jokeFlex abrasive sleeves and caps





Thanks to their seamless and transition-free shape, jokeFlex abrasive sleeves and caps achieve top results. They are push-fitted on elastic, suitably shaped rubber holders. The special feature owing to the slotted shape of the rubber holder, the push-fit abrasive sleeves and caps are held securely by the rotational forces during processing. Once they are worn out, simply replace the sleeves/caps with new ones, re-using the same holder.

jokeFlex abrasive sleeves and caps run particularly true, are easy to guide and achieve a very soft grinding pattern. Particularly very well suited for fine finishing of metals, particularly steels.



Cutting speed V_{max} : 40 m/s

	Outside dimensions	Suitable rubber holder	Grit size	Packing quantity	Order No.	Price from	
						1 pack	5 packs
Abrasive caps, rounded cone							
Corundum							
	Ø 7 / 6 x 15 mm	0 544 501	80	100 pieces	0 544 511	80.85 €	72.05 €
		0 544 501	150	100 pieces	0 544 512	80.85 €	72.05 €
	Ø 13 / 11 x 25 mm	0 544 502	80	100 pieces	0 544 513	89.55 €	80.15 €
		0 544 502	150	100 pieces	0 544 514	89.55 €	80.15 €
	Ø 18 / 16 x 32 mm	0 544 503	80	25 pieces	0 544 515	25.80 €	23.00 €
		0 544 503	150	25 pieces	0 544 516	25.80 €	23.00 €
	Ø 23 / 21 x 40 mm	0 544 504	80	25 pieces	0 544 517	27.85 €	25.20 €



Accessories / spare parts

	Head dimensions	Shank dimensions	Order No.	Price from		
				1 piece	5 pieces	10 pieces
Rubber holder, jokeFlex						
rounded cone						
	Ø 5 / 4 x 15 mm	Ø 6 x 40 mm	0 544 501	7.70 €	7.05 €	6.85 €
	Ø 11 / 9 x 25 mm	Ø 6 x 40 mm	0 544 502	7.70 €	7.05 €	6.85 €
	Ø 16 / 14 x 32 mm	Ø 6 x 40 mm	0 544 503	7.90 €	7.35 €	6.85 €
	Ø 21 / 19 x 40 mm	Ø 6 x 40 mm	0 544 504	11.40 €	10.50 €	10.05 €

Abrasive finger caps jokeFlex

	Outside dimensions	Suitable rubber holder	Grit size	Packing quantity	Order No.	Price from	
						1 pack	5 packs
Abrasive finger caps, rounded cone							
Corundum							
	Ø 6/10 x 85 mm	0 544 505	80	25 pieces	0 544 521	52.60 €	48.35 €
		0 544 505	150	25 pieces	0 544 522	52.60 €	48.35 €
	Ø 20/16 x 85 mm	0 544 507	80	25 pieces	0 544 525	57.45 €	52.60 €

Accessories / spare parts

	Head dimensions	Shank dimensions	Order No.	Price from		
				1 piece	5 pieces	10 pieces
Rubber holder, jokeFlex						
rounded cone						
	Ø 8 / 4 x 85 mm	Ø 6 x 40 mm	0 544 505	12.05 €	11.00 €	10.60 €
	Ø 18 / 14 x 85 mm	Ø 6 x 40 mm	0 544 507	11.00 €	10.15 €	9.65 €

Selection of abrasive caps and fingers jokeFlex

Selection

Our range offers you everything to just get up and go. It contains a total of 640 abrasive caps and fingers in every dimension and grit sizes 80 and 150 plus 23 matching rubber holders. Go ahead and order and discover the entire band width of jokeFlex abrasive caps and fingers.


	Order No.	Price from
		1 set
Abrasive caps/fingers/rubber holders		
This range contains 640 abrasive caps and fingers and 23 rubber holders in every dimension in grit sizes 80 and 150	0 544 600	451.00 €

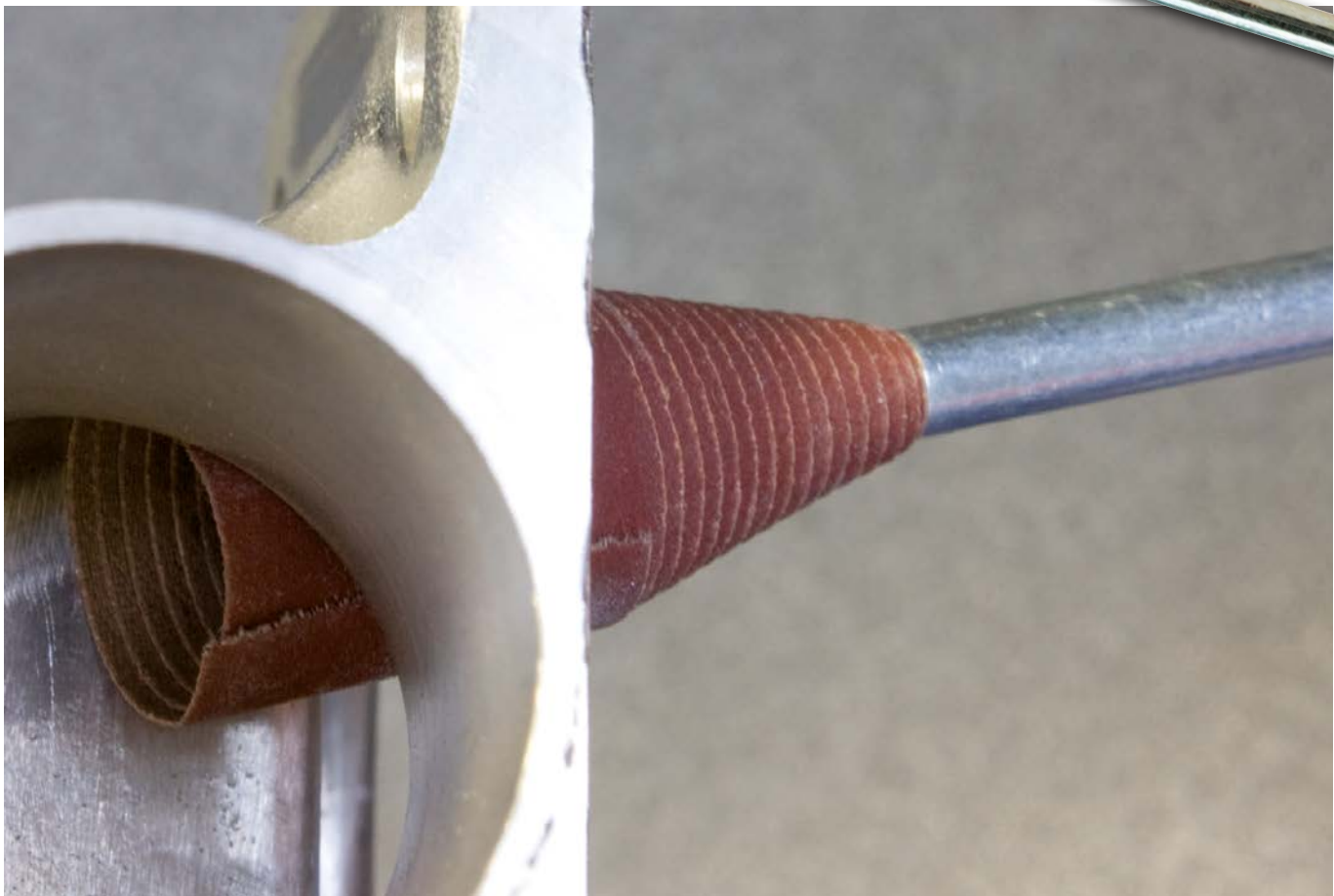
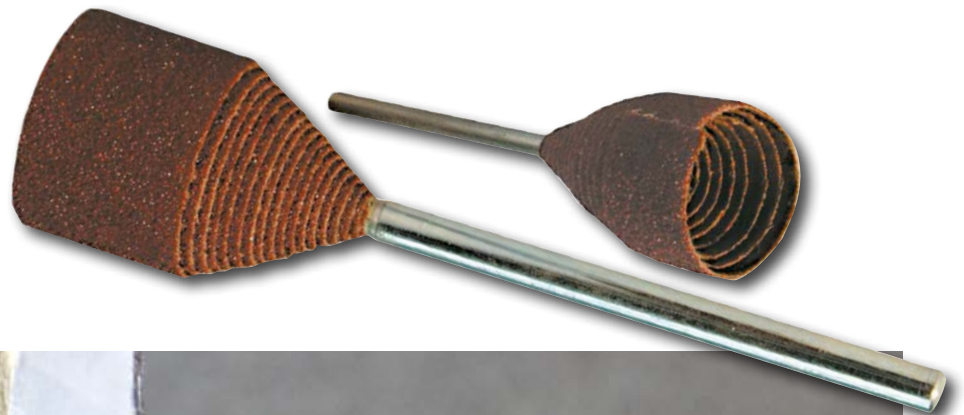


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Helical roll grinder joke SPIROFLEX

The solution for processing workpieces with complicated three-dimensional contours (e.g. aluminium injection moulds). A speciality: Process different diameters efficiently with one grinding point, as the tool perfectly adapts to every geometry. Another time-saving advantage: If the material is used up, a "new" tool is obtained by simply tearing off the worn material.

	Head dimensions	Shank dimensions	Grit size	Packing quantity	Order No.	Price from	
						1 pack	3 packs
Helical roll grinder joke SPIROFLEX							
	Ø 10 mm	Ø 3 x 45 mm	150	10 pieces	0 543 539	57.45 €	52.70 €
	Ø 14 mm	Ø 3 x 45 mm	80	10 pieces	0 543 502	47.30 €	43.50 €
		Ø 3 x 45 mm	120	10 pieces	0 543 503	47.30 €	43.50 €
		Ø 3 x 45 mm	320	10 pieces	0 543 507	47.30 €	43.50 €



Flap wheels

Flap wheels

Large selection of flap wheels with 3 and 6 mm shanks, plus “special models” such as radially slotted flap wheels or those with a combination of abrasive cloths and fleece - for a particularly uniform microsection. The “fleece only” flap wheels are a further highlight in the range: a really super solution for very fine finishing. The cleaning grinding wheels are suitable for removing rust, weld splatters and other troublemakers from the workpiece.

You'll find here:

Flap wheels shank Ø 3 mm **page 278**

Flap wheels shank Ø 6 mm **page 280**

Flap wheels with fleece lamellas **page 281**

Grinding wheels for cleaning **page 282**




i Max. rotational speed in relation to cutting speed V_{max} and \varnothing of the tool used

\varnothing	15 m/s	20 m/s	25 m/s	30 m/s	35 m/s	40 m/s	45 m/s	50 m/s	55 m/s	60 m/s
10 mm	28,500	38,200	47,700	57,300	66,800	76,400	86,000	95,500	105,000	114,600
15 mm	19,100	25,400	31,800	38,200	44,600	51,000	57,300	63,700	70,000	76,400
20 mm	14,300	19,100	23,900	28,700	33,400	38,200	43,000	47,800	52,600	57,400
25 mm	11,400	15,200	19,100	22,900	26,700	30,500	34,400	38,200	42,000	45,900
30 mm	9,500	12,700	15,900	19,000	22,300	25,400	28,500	31,800	34,800	38,000
40 mm	7,100	9,600	11,900	14,300	16,700	19,100	21,500	23,800	26,200	28,600
50 mm	5,700	7,600	9,500	11,400	13,400	15,300	17,000	19,000	20,900	22,800
60 mm	4,700	6,300	7,900	9,500	11,100	12,700	14,300	15,900	17,500	19,100
75 mm	3,800	5,100	6,400	7,700	9,000	10,100	11,600	12,800	14,100	15,400
80 mm	3,500	4,700	5,900	7,100	8,360	8,360	10,700	11,900	13,100	14,300
100 mm	2,800	3,800	4,800	5,700	6,700	7,650	8,600	9,600	10,500	11,400
125 mm	2,300	3,000	3,800	4,600	5,300	6,150	6,900	7,600	8,500	9,200
150 mm	1,900	2,500	3,200	3,800	4,500	5,100	5,700	6,400	7,000	7,600
175 mm	1,600	2,200	2,700	3,300	3,800	4,350	4,950	5,400	6,050	6,600
200 mm	1,400	1,900	2,400	2,900	3,400	3,850	4,350	4,800	5,300	5,800
250 mm	1,100	1,500	1,900	2,300	2,700	3,100	3,450	3,800	4,200	4,600
300 mm	1,000	1,300	1,600	1,900	2,200	2,550	2,850	3,200	3,500	3,800

Flap wheels jokeFlex shank Ø 3 mm

For elastic grinding. The slit lamellas of jokeFlex flap wheels allows them to adapt better to the contour of the workpiece being processed. They cover a wide range of applications: from the metal-working and finishing to the rubber and plastics industry.

Cutting speed Vmax: 40 m/sec.

	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from		
						1 piece	10 pieces	20 pieces
	Ø 10 x 10 mm	60	Ø 3 x 40 mm	76,400 1/min	0 543 902	2.33 €	2.06 €	2.00 €
		80	Ø 3 x 40 mm	76,400 1/min	0 543 903	2.23 €	2.02 €	2.00 €
		120	Ø 3 x 40 mm	76,400 1/min	0 543 904	2.23 €	2.14 €	2.00 €
		150	Ø 3 x 40 mm	76,400 1/min	0 543 906	2.23 €	2.14 €	2.00 €
		180	Ø 3 x 40 mm	76,400 1/min	0 543 907	2.33 €	2.06 €	1.91 €
		240	Ø 3 x 40 mm	76,400 1/min	0 543 908	2.23 €	2.02 €	1.91 €
		320	Ø 3 x 40 mm	76,400 1/min	0 543 909	2.23 €	2.02 €	1.91 €
		400	Ø 3 x 40 mm	76,400 1/min	0 543 910	2.32 €	2.11 €	2.00 €
Ø 10 x 15 mm	80	Ø 3 x 40 mm	76,400 1/min	0 543 913	2.23 €	2.12 €	2.03 €	
	150	Ø 3 x 40 mm	76,400 1/min	0 543 916	2.23 €	2.12 €	2.03 €	
	240	Ø 3 x 40 mm	76,400 1/min	0 543 918	2.23 €	2.12 €	2.03 €	
	320	Ø 3 x 40 mm	76,400 1/min	0 543 919	2.23 €	2.12 €	2.03 €	
Ø 15 x 10 mm	80	Ø 3 x 40 mm	51,000 1/min	0 543 923	2.23 €	2.07 €	2.00 €	
	150	Ø 3 x 40 mm	51,000 1/min	0 543 926	2.23 €	2.07 €	2.00 €	
	240	Ø 3 x 40 mm	51,000 1/min	0 543 928	2.23 €	2.07 €	2.00 €	
	320	Ø 3 x 40 mm	51,000 1/min	0 543 929	2.23 €	2.02 €	1.91 €	
Ø 15 x 15 mm	80	Ø 3 x 40 mm	51,000 1/min	0 543 933	2.26 €	2.06 €	1.98 €	
	150	Ø 3 x 40 mm	51,000 1/min	0 543 936	2.26 €	2.06 €	1.98 €	
	240	Ø 3 x 40 mm	51,000 1/min	0 543 938	2.26 €	2.06 €	1.98 €	
	320	Ø 3 x 40 mm	51,000 1/min	0 543 939	2.26 €	2.06 €	1.98 €	
Ø 20 x 5 mm	80	Ø 3 x 40 mm	38,200 1/min	0 543 943	2.62 €	2.36 €	2.28 €	
	150	Ø 3 x 40 mm	38,200 1/min	0 543 946	2.62 €	2.36 €	2.28 €	
	240	Ø 3 x 40 mm	38,200 1/min	0 543 948	2.62 €	2.46 €	2.37 €	
	320	Ø 3 x 40 mm	38,200 1/min	0 543 949	2.62 €	2.46 €	2.37 €	
Ø 20 x 10 mm	80	Ø 3 x 40 mm	38,200 1/min	0 543 953	2.23 €	2.16 €	2.03 €	
	150	Ø 3 x 40 mm	38,200 1/min	0 543 956	2.23 €	2.16 €	2.03 €	
	240	Ø 3 x 40 mm	38,200 1/min	0 543 958	2.80 €	2.58 €	2.48 €	
	320	Ø 3 x 40 mm	38,200 1/min	0 543 959	2.80 €	2.62 €	2.48 €	
Ø 20 x 15 mm	80	Ø 3 x 40 mm	38,200 1/min	0 543 963	2.99 €	2.75 €	2.62 €	
	150	Ø 3 x 40 mm	38,200 1/min	0 543 966	2.99 €	2.75 €	2.62 €	
	240	Ø 3 x 40 mm	38,200 1/min	0 543 968	2.99 €	2.75 €	2.62 €	
	320	Ø 3 x 40 mm	38,200 1/min	0 543 969	2.99 €	2.75 €	2.62 €	
Ø 20 x 20 mm	80	Ø 3 x 40 mm	38,200 1/min	0 543 973	3.24 €	2.99 €	2.88 €	
	150	Ø 3 x 40 mm	38,200 1/min	0 543 976	3.24 €	2.99 €	2.88 €	
	240	Ø 3 x 40 mm	38,200 1/min	0 543 978	3.24 €	2.99 €	2.88 €	
	320	Ø 3 x 40 mm	38,200 1/min	0 543 979	3.24 €	2.99 €	2.88 €	
Ø 25 x 5 mm	80	Ø 3 x 40 mm	30,500 1/min	0 543 983	2.75 €	2.46 €	2.39 €	
	150	Ø 3 x 40 mm	30,500 1/min	0 543 986	2.75 €	2.46 €	2.39 €	
	240	Ø 3 x 40 mm	30,500 1/min	0 543 988	2.75 €	2.46 €	2.39 €	
	320	Ø 3 x 40 mm	30,500 1/min	0 543 989	2.87 €	2.62 €	2.39 €	
Ø 25 x 10 mm	80	Ø 3 x 40 mm	30,500 1/min	0 543 993	2.99 €	2.75 €	2.62 €	
	150	Ø 3 x 40 mm	30,500 1/min	0 543 996	2.99 €	2.75 €	2.62 €	
	240	Ø 3 x 40 mm	30,500 1/min	0 543 998	2.99 €	2.75 €	2.62 €	
	320	Ø 3 x 40 mm	30,500 1/min	0 543 999	2.99 €	2.75 €	2.62 €	

Flap wheels jokeFlex shank Ø 3 mm

	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from		
						1 piece	10 pieces	20 pieces
	Ø 30 x 5 mm	60	Ø 3 x 40 mm	25,400 1/min	0 544 222	2.20 €		2.03 €
		80	Ø 3 x 40 mm	25,400 1/min	0 544 223	2.54 €	2.20 €	1.97 €
		150	Ø 3 x 40 mm	25,400 1/min	0 544 226	2.36 €	2.15 €	1.97 €
		240	Ø 3 x 40 mm	25,400 1/min	0 544 228	2.36 €	2.15 €	1.97 €
		320	Ø 3 x 40 mm	25,400 1/min	0 544 229	2.54 €	2.20 €	2.03 €
	Ø 30 x 10 mm	60	Ø 3 x 40 mm	25,400 1/min	0 544 232	2.54 €	2.33 €	2.23 €
		80	Ø 3 x 40 mm	25,400 1/min	0 544 233	2.87 €	2.41 €	2.23 €
		150	Ø 3 x 40 mm	25,400 1/min	0 544 236	2.54 €	2.33 €	2.23 €
		240	Ø 3 x 40 mm	25,400 1/min	0 544 238	2.87 €	2.41 €	2.23 €
		320	Ø 3 x 40 mm	25,400 1/min	0 544 239	2.87 €	2.41 €	2.23 €
	Ø 40 x 5 mm	60	Ø 3 x 40 mm	19,100 1/min	0 544 532	3.14 €	2.79 €	2.63 €
		80	Ø 3 x 40 mm	19,100 1/min	0 544 533	3.14 €	2.79 €	2.63 €
		150	Ø 3 x 40 mm	19,100 1/min	0 544 536	3.06 €	2.68 €	2.54 €
		320	Ø 3 x 40 mm	19,100 1/min	0 544 539	3.25 €	2.89 €	2.73 €
	Ø 40 x 10 mm	60	Ø 3 x 40 mm	19,100 1/min	0 544 242	3.31 €	2.80 €	2.62 €
		80	Ø 3 x 40 mm	19,100 1/min	0 544 243	3.31 €	2.80 €	2.62 €
		150	Ø 3 x 40 mm	19,100 1/min	0 544 246	3.31 €	2.80 €	2.62 €
		240	Ø 3 x 40 mm	19,100 1/min	0 544 248	3.31 €	2.80 €	2.62 €
	Ø 40 x 15 mm	80	Ø 3 x 40 mm	19,100 1/min	0 544 253	3.51 €	2.99 €	2.79 €
		240	Ø 3 x 40 mm	19,100 1/min	0 544 258	3.51 €	2.99 €	2.79 €



Two short working stages are better than a single long one!

Even if it seems tempting to complete the "job" in one single stage: at the final count you will work more efficiently with two harmonised working stages using different grit sizes (from coarse to fine)!

Consult **Markus Abstoß**:
 Tel. +49 (0) 22 04 / 8 39-0
 m.abstoss@joke.de



Even more choice

Apart from the large choice of flap wheels shown here, we also offer further dimensions on request. Please contact

Markus Abstoß:
 Tel. +49 (0) 22 04 / 8 39-0
 m.abstoss@joke.de

Flap wheels jokeFlex shank Ø 6 mm

For elastic grinding. The slit lamellas of jokeFlex flap wheels allows them to adapt better to the contour of the workpiece being processed. They cover a wide range of applications: from the metal-working and finishing to the rubber and plastics industry.


Cutting speed Vmax: 40 m/sec.

	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from		
						1 piece	10 pieces	20 pieces
Flap wheels with lamellas, corundum, shank Ø 6 mm								
	Ø 40 x 10 mm	60	Ø 6 x 40 mm	19,100 1/min	0 544 362	3.31 €	2.87 €	2.19 €
		80	Ø 6 x 40 mm	19,100 1/min	0 544 363	3.31 €	2.87 €	2.19 €
		150	Ø 6 x 40 mm	19,100 1/min	0 544 366	3.31 €	2.87 €	2.19 €
		240	Ø 6 x 40 mm	19,100 1/min	0 544 368	3.31 €	2.87 €	2.19 €
		320	Ø 6 x 40 mm	19,100 1/min	0 544 369	3.14 €	2.80 €	2.17 €
	Ø 40 x 15 mm	60	Ø 6 x 40 mm	19,100 1/min	0 544 372	2.57 €	2.46 €	2.28 €
		80	Ø 6 x 40 mm	19,100 1/min	0 544 373	2.60 €	2.47 €	2.29 €
		120	Ø 6 x 40 mm	19,100 1/min	0 544 374	2.60 €	2.47 €	2.25 €
		150	Ø 6 x 40 mm	19,100 1/min	0 544 376	2.60 €	2.42 €	2.28 €
		180	Ø 6 x 40 mm	19,100 1/min	0 544 377	3.23 €	2.92 €	2.29 €
		240	Ø 6 x 40 mm	19,100 1/min	0 544 378	2.60 €	2.42 €	2.28 €
		320	Ø 6 x 40 mm	19,100 1/min	0 544 379	2.54 €	2.41 €	2.29 €
	Ø 50 x 5 mm	60	Ø 6 x 40 mm	15,300 1/min	0 544 542	3.19 €	2.87 €	2.21 €
		80	Ø 6 x 40 mm	15,300 1/min	0 544 543	3.19 €	2.87 €	2.21 €
		150	Ø 6 x 40 mm	15,300 1/min	0 544 546	3.19 €	2.87 €	2.21 €
	Ø 50 x 10 mm	60	Ø 6 x 40 mm	15,300 1/min	0 544 262	3.51 €	2.99 €	2.32 €
		80	Ø 6 x 40 mm	15,300 1/min	0 544 263	3.51 €	2.99 €	2.32 €
		150	Ø 6 x 40 mm	15,300 1/min	0 544 266	3.51 €	2.99 €	2.32 €
		240	Ø 6 x 40 mm	15,300 1/min	0 544 268	3.51 €	2.99 €	2.24 €
	Ø 60 x 5 mm	60	Ø 6 x 40 mm	12,700 1/min	0 544 552	3.76 €	3.38 €	2.64 €
		80	Ø 6 x 40 mm	12,700 1/min	0 544 553	3.76 €	3.38 €	2.64 €
		150	Ø 6 x 40 mm	12,700 1/min	0 544 556	3.76 €	3.38 €	2.64 €
		320	Ø 6 x 40 mm	12,700 1/min	0 544 559	3.76 €	3.38 €	2.64 €
	Ø 80 x 5 mm	80	Ø 6 x 40 mm	8,360 1/min	0 544 563	4.72 €	4.21 €	3.31 €
		150	Ø 6 x 40 mm	8,360 1/min	0 544 566	4.72 €	4.21 €	3.31 €
	Ø 60 x 40 mm	60	Ø 6 x 40 mm	12,700 1/min	0 544 322	4.53 €	4.23 €	3.95 €
		80	Ø 6 x 40 mm	12,700 1/min	0 544 323	4.66 €	4.37 €	4.10 €
		150	Ø 6 x 40 mm	12,700 1/min	0 544 326	6.80 €	5.45 €	4.11 €
		320	Ø 6 x 40 mm	12,700 1/min	0 544 329	6.85 €	5.50 €	4.15 €

Flap wheels, SiC shank Ø 6 mm

It is harder and more brittle than corundum. Applications include non-ferrous metals, stainless steels, ceramic and mineral materials, high-carbon steels, plastics and glass, etc.


Cutting speed Vmax: 40 m/sec.

	Head dimensions	Grit size	Shank dimensions	Packing quantity	Order No.	Price from		
						1 pack	5 packs	10 packs
Flap wheels, SiC, shank Ø 6 mm								
	Ø 60 x 15 mm	60	Ø 6 x 40 mm	10 pieces	0 543 680	30.65 €	27.10 €	24.50 €
		80	Ø 6 x 40 mm	10 pieces	0 543 681	32.00 €	28.20 €	25.55 €
		120	Ø 6 x 40 mm	10 pieces	0 543 682	32.00 €	28.20 €	25.55 €
		180	Ø 6 x 40 mm	10 pieces	0 543 683	32.00 €	28.20 €	25.55 €
		220	Ø 6 x 40 mm	10 pieces	0 543 684	34.35 €	30.25 €	27.50 €
	Ø 60 x 30 mm	60	Ø 6 x 40 mm	10 pieces	0 543 686	44.90 €	39.50 €	36.00 €
		80	Ø 6 x 40 mm	10 pieces	0 543 687	47.20 €	41.55 €	37.75 €
		120	Ø 6 x 40 mm	10 pieces	0 543 688	47.20 €	41.55 €	37.75 €
		180	Ø 6 x 40 mm	10 pieces	0 543 689	47.20 €	41.55 €	37.75 €
		220	Ø 6 x 40 mm	10 pieces	0 543 690	52.30 €	45.75 €	41.55 €

Flap wheels with fleece lamellas shank Ø 6 mm

Flap wheels made of combined grinding fleece/cloth, sulphur-free. The combination of grinding fleece/cloth achieves a more uniform grinding pattern with high stock removal.

Cutting speed Vmax: 40 m/sec.


	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from	
						1 piece	10 pieces
Flap wheels made of combined fleece / cloth lamellas, corundum, shank Ø 6 mm							
	Ø 40 x 20 mm	medium / K 80	Ø 6 x 40 mm	19,100 1/min	0 543 450	4.37 €	4.05 €
		fine / K 150	Ø 6 x 40 mm	19,100 1/min	0 543 451	4.45 €	4.22 €
		very fine / K 240	Ø 6 x 40 mm	19,100 1/min	0 543 452	6.85 €	5.90 €
	Ø 50 x 20 mm	medium / K 80	Ø 6 x 40 mm	15,300 1/min	0 543 456	7.60 €	6.65 €
		fine / K 150	Ø 6 x 40 mm	15,300 1/min	0 543 457	4.55 €	4.19 €
		very fine / K 240	Ø 6 x 40 mm	15,300 1/min	0 543 458	7.25 €	6.75 €
	Ø 60 x 30 mm	medium / K 80	Ø 6 x 40 mm	12,700 1/min	0 543 462	6.75 €	6.45 €
		fine / K 150	Ø 6 x 40 mm	12,700 1/min	0 543 463	6.75 €	6.45 €
		very fine / K 240	Ø 6 x 40 mm	12,700 1/min	0 543 464	6.85 €	6.55 €

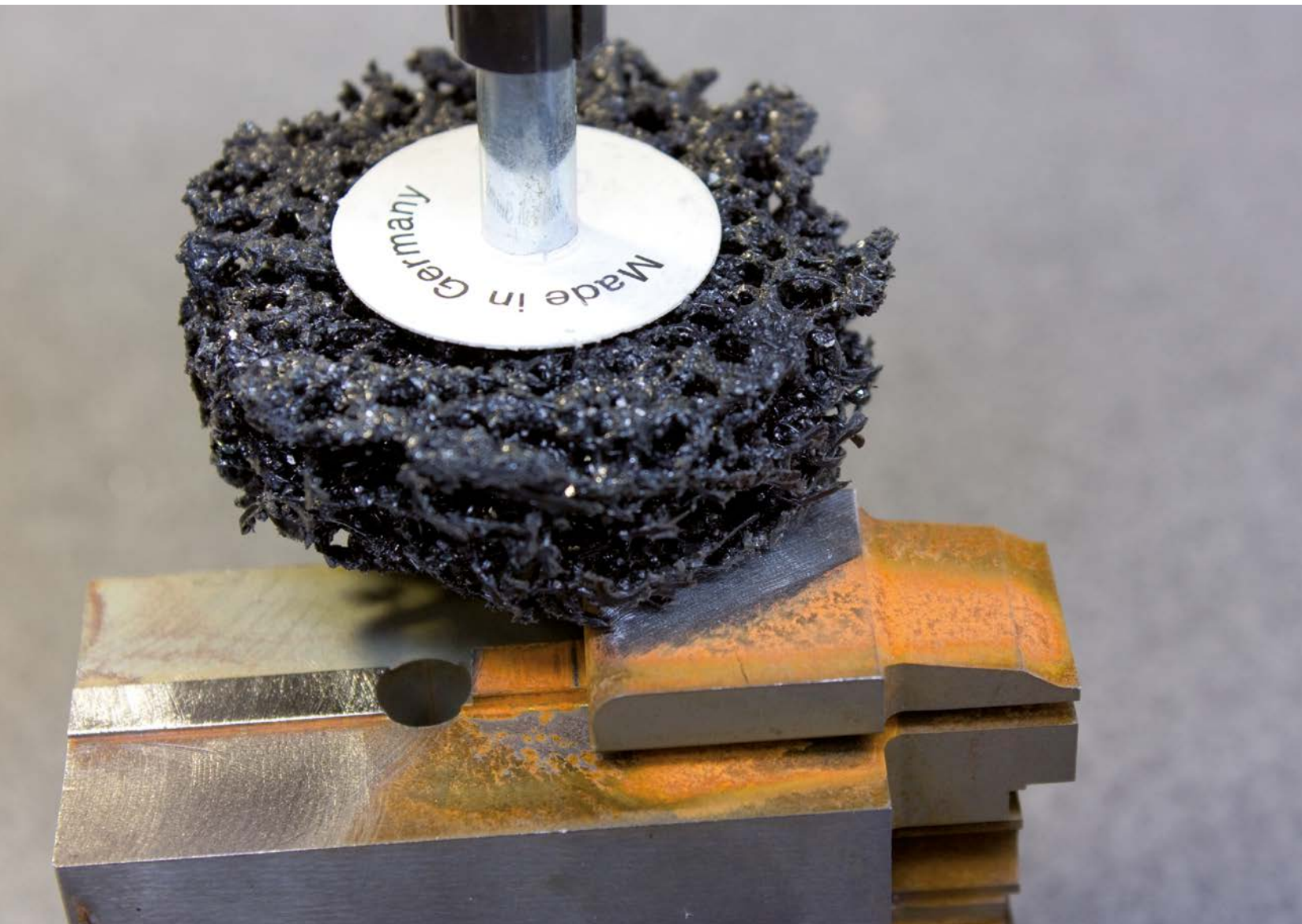
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Cleaning flap wheels shank Ø 6 mm

The ideal solution for cleaning with simultaneous surface preparation. For aggressive removal of rust, weld splatters, coating and paint. Also very suitable for deburring.

Cutting speed Vmax: 35 m/sec.

	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from			
						1 piece	5 pieces	10 pieces	20 pieces
Cleaning flap wheels, type "coarse"									
	Ø 55 x 15 mm	coarse	Ø 6 x 40 mm	14,000 1/min	0 544 588	5.90 €	5.30 €	4.84 €	4.21 €



Grit size fleece	Comparable to FEPA
coarse	K 40 – 80
medium	K 100 – 180
fine	K 220 – 240
very fine	K 280 – 360

Flap wheels with fleece lamellas shank Ø 3 mm

These fan-shaped grinders have radially arranged abrasive fleece lamellas and are ideal for very fine work in awkward areas. They achieve highest surface qualities.

Cutting speed Vmax: 10 m/sec.

	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from		
						1 piece	10 pieces	20 pieces
Flap wheels with fleece lamellas, corundum, shank Ø 3 mm								
	Ø 20 x 20 mm	coarse	Ø 3 x 40 mm	13,000 1/min	0 547 001	4.78 €	4.27 €	3.74 €
		medium	Ø 3 x 40 mm	13,000 1/min	0 547 002	4.78 €	4.27 €	3.74 €
		fine	Ø 3 x 40 mm	13,000 1/min	0 547 003	4.78 €	4.27 €	3.74 €
		very fine	Ø 3 x 40 mm	13,000 1/min	0 547 004	4.78 €	4.27 €	3.74 €
	Ø 30 x 10 mm	coarse	Ø 3 x 40 mm	11,000 1/min	0 547 009	4.84 €	4.33 €	3.79 €
		medium	Ø 3 x 40 mm	11,000 1/min	0 547 010	4.84 €	4.33 €	3.79 €
		fine	Ø 3 x 40 mm	11,000 1/min	0 547 011	4.84 €	4.33 €	3.79 €
		very fine	Ø 3 x 40 mm	11,000 1/min	0 547 012	4.84 €	4.33 €	3.79 €
	Ø 30 x 20 mm	coarse	Ø 3 x 40 mm	11,000 1/min	0 547 017	5.05 €	4.65 €	3.97 €
		medium	Ø 3 x 40 mm	11,000 1/min	0 547 018	5.05 €	4.65 €	3.97 €
		fine	Ø 3 x 40 mm	11,000 1/min	0 547 019	5.05 €	4.65 €	3.97 €
		very fine	Ø 3 x 40 mm	11,000 1/min	0 547 020	5.05 €	4.65 €	3.97 €
	Ø 30 x 30 mm	coarse	Ø 3 x 40 mm	11,000 1/min	0 547 025	5.20 €	4.72 €	4.10 €
		medium	Ø 3 x 40 mm	11,000 1/min	0 547 026	5.20 €	4.72 €	4.10 €
		very fine	Ø 3 x 40 mm	11,000 1/min	0 547 028	5.20 €	4.72 €	4.10 €

Flap wheels with fleece lamellas shank Ø 6 mm

These fan-shaped grinders have radially arranged abrasive fleece lamellas and are ideal for very fine work in awkward areas. They achieve highest surface qualities.

Cutting speed Vmax: 10 m/sec.

	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from		
						1 piece	10 pieces	20 pieces
Flap wheels with fleece lamellas, corundum, shank Ø 6 mm								
	Ø 40 x 20 mm	coarse	Ø 6 x 40 mm	8,000 1/min	0 547 033	5.20 €	4.72 €	4.10 €
		medium	Ø 6 x 40 mm	8,000 1/min	0 547 034	4.16 €	4.01 €	3.94 €
		fine	Ø 6 x 40 mm	8,000 1/min	0 547 035	4.16 €	4.01 €	3.94 €
		very fine	Ø 6 x 40 mm	8,000 1/min	0 547 036	4.16 €	4.01 €	3.94 €
	Ø 40 x 40 mm	medium	Ø 6 x 40 mm	8,000 1/min	0 547 042	7.05 €	6.45 €	5.30 €
		fine	Ø 6 x 40 mm	8,000 1/min	0 547 043	7.05 €	6.45 €	5.30 €
		very fine	Ø 6 x 40 mm	8,000 1/min	0 547 044	7.05 €	6.45 €	5.30 €
	Ø 50 x 20 mm	medium	Ø 6 x 40 mm	6,500 1/min	0 547 046	4.81 €	4.47 €	4.45 €
		fine	Ø 6 x 40 mm	6,500 1/min	0 547 047	4.81 €	4.47 €	4.45 €
		very fine	Ø 6 x 40 mm	6,500 1/min	0 547 048	6.05 €	5.20 €	4.50 €



Even more choice on request!

These flap wheels are available in many more sizes. Please contact **Markus Abstoß**:
Tel. +49 (0) 22 04 / 8 39-0 • m.abstoss@joke.de

Cup wheel discs



These cup wheel discs are screwed onto the mandrel (Order No. 0 750 512) of the TURBO hand grinder. Thanks to the separate cup wheel disc receptacle, these tools can also be used with all commercially available rotating handpieces.

Cup wheel disc with TURBO hand air grinder

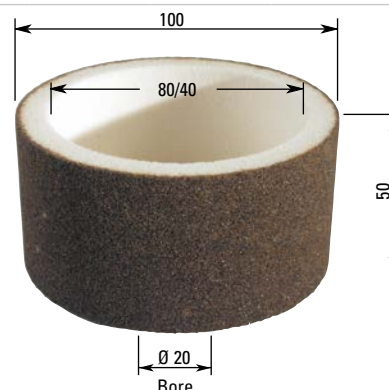
	Dimensions	Grit size	Colour	Rotation speed max.	Order No.	Price from	
						1 piece	10 pieces
Cup wheel discs, high-grade corundum							
	Ø 30	60	brown	25,000 1/min	0 530 721	7.35 €	6.70 €
		100	brown	25,000 1/min	0 530 722	6.30 €	5.50 €
		150	brown	25,000 1/min	0 530 723	6.30 €	5.50 €

Accessories / spare parts

		Order No.	Price from 1 piece
Clamping shank			
	For receiving the cup wheel discs and rubber holders on TURBO hand grinders.	0 750 512	23.60 €

EKW cup wheel discs

	Dimensions	Grit size	Order No.	Price from	
				1 piece	5 pieces
EKW cup wheel discs					
	Hardness JOT, resin-hardened edge for grinding HSS	Ø 100 x 50 x 20 mm	80	0 542 751	32.25 € / 28.55 €
EKW cup wheel disc - TOP quality					
	Hardness JOT, resin-hardened edge for grinding HSS, hardened steel and hard metal	Ø 100 x 50 x 20 mm	80	0 542 753	58.55 € / 53.50 €



Nylon cut-off discs, fibre-reinforced



Nylon cut-off discs, fibre-reinforced

Much more breakproof for a high level of working safety. Thinner discs can be selected.


This results in the following advantages:

- very small contact area
- little heat generation in the cut
- narrower cut
- less expenditure of effort
- fast separation time
- less burr formation



		Dimensions	Drilling dimension	Matching-receptacles	Rotation speed max.	Packing quantity	Order No.	Price from		
								1 pack	5 packs	10 packs
Nylon cut-off discs, fibre-reinforced										
high-grade corundum										
 for hardened and unhardened steels	Ø 22 x 0.2 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 901	13.30 €	12.50 €	11.55 €	
	Ø 22 x 0.3 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 902	12.40 €	11.55 €	10.65 €	
	Ø 22 x 0.5 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 903	12.40 €	11.55 €	10.65 €	
	Ø 25 x 0.2 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 904	15.35 €	14.15 €	12.90 €	
	Ø 25 x 0.3 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 905	13.70 €	12.80 €	11.95 €	
	Ø 25 x 0.5 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 906	13.70 €	12.80 €	11.95 €	
	Ø 40 x 0.5 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 907	19.80 €	18.05 €	16.70 €	
	Ø 40 x 0.7 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 908	19.80 €	18.05 €	16.70 €	
	Ø 40 x 1.0 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 909	19.80 €	18.05 €	16.70 €	
silicon carbide										
 for stainless steels and non-ferrous metals	Ø 22 x 0.2 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 910	14.75 €	13.30 €	12.40 €	
	Ø 22 x 0.3 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 911	12.40 €	11.55 €	10.65 €	
	Ø 25 x 0.2 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 913	15.15 €	13.70 €	12.70 €	
	Ø 25 x 0.3 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 914	15.15 €	13.70 €	12.70 €	

⚙️ Accessories / spare parts

		For bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from	
							1 piece	10 pieces
CRATEX® grinding wheel holder								
	Ø 1.5 - 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	0 545 275	1.16 €	0.97 €	
		Ø 3 x 40 mm	22	Ø 38 x 4.5 mm	0 545 276	1.16 €	0.97 €	
		Ø 6 x 40 mm	23	Ø 38 x 4.5 mm	0 545 277	1.16 €	0.97 €	
		Ø 2.35 x 30/15 mm	25	Ø 38 x 4.5 mm	0 545 279	0.96 €	0.80 €	


Nylon cut-off discs, fibre-reinforced

Nylon cut-off discs, fibre-reinforced





Much more breakproof for a high level of working safety. Thinner discs can be selected.

This results in the following advantages:

- very small contact area
- little heat generation in the cut
- narrower cut
- less expenditure of effort
- fast separation time
- less burr formation

		Dimensions	Drilling dimension	Matching-receptacles	Rotation speed max.	Order No.	Price from 1 piece
Nylon cut-off discs, fibre-reinforced							
diamond							
	for ceramic and all difficult steels in aircraft, engine and power plant construction and for implant processing	Ø 20 x 0.2 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	0 544 920	5.80 €
		Ø 20 x 0.3 mm	1.8 mm	21, 22, 23, 25	20,000 1/min	0 544 921	4.75 €

Accessories / spare parts

	For bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from	
						1 piece	10 pieces
CRATEX® grinding wheel holder							
	Ø 1.5 - 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	0 545 275	1.16 €	0.97 €
		Ø 3 x 40 mm	22	Ø 38 x 4.5 mm	0 545 276	1.16 €	0.97 €
		Ø 6 x 40 mm	23	Ø 38 x 4.5 mm	0 545 277	1.16 €	0.97 €
		Ø 2.35 x 30/15 mm	25	Ø 38 x 4.5 mm	0 545 279	0.96 €	0.80 €

Nylon cut-off discs

		Dimensions	Drilling dimension	Matching-receptacles	Rotation speed max.	Packing quantity	Order No.	Price from	
								1 pack	5 packs
Nylon cut-off discs									
high-grade corundum (brown)									
	for hardened and unhardened steels	Ø 22 x 0.3 mm	1.5 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 960	3.53 €	3.27 €
		Ø 22 x 0.7 mm	1.5 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 961	2.66 €	2.43 €
		Ø 22 x 2.0 mm	1.5 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 962	6.00 €	5.30 €
		Ø 22 x 3.0 mm	1.5 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 963	6.00 €	5.30 €
		Ø 25 x 0.5 mm	1.5 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 972	4.35 €	3.93 €
		Ø 25 x 0.7 mm	1.5 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 965	4.35 €	3.93 €
		Ø 25 x 0.8 mm	1.5 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 974	4.35 €	3.93 €
		Ø 25 x 1.0 mm	1.5 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 966	4.35 €	3.93 €
		Ø 34 x 1.65 mm	1.5 mm	21, 22, 23, 25	10,000 1/min	10 pieces	0 544 967	8.80 €	8.25 €
		Ø 37.5 x 1.0 mm	1.5 mm	21, 22, 23, 25	10,000 1/min	10 pieces	0 544 968	8.80 €	8.25 €
	Ø 40 x 1.0 mm	6 mm	41	10,000 1/min	10 pieces	0 544 969	26.00 €	24.15 €	
silicon carbide (grey)									
	for stainless steels and non-ferrous metals	Ø 22 x 0.7 mm	1.5 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 981	2.66 €	2.43 €
		Ø 22 x 2.0 mm	1.5 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 982	6.95 €	6.30 €
		Ø 25 x 0.7 mm	1.5 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 985	4.71 €	4.28 €
		Ø 25 x 1.0 mm	1.5 mm	21, 22, 23, 25	20,000 1/min	10 pieces	0 544 986	4.88 €	4.42 €

Accessories / spare parts

		For bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from	
							1 piece	10 pieces
CRATEX® grinding wheel holder								
		Ø 1.5 - 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	0 545 275	1.16 €	0.97 €
			Ø 3 x 40 mm	22	Ø 38 x 4.5 mm	0 545 276	1.16 €	0.97 €
			Ø 6 x 40 mm	23	Ø 38 x 4.5 mm	0 545 277	1.16 €	0.97 €
			Ø 2.35 x 30/15 mm	25	Ø 38 x 4.5 mm	0 545 279	0.96 €	0.80 €
		Ø 6 mm	Ø 6 x 25 mm	41	Ø 75 x 9.5 mm	0 545 282	3.94 €	3.61 €

Abrasive discs

Abrasive discs need a firm hold, since only then do they develop their full performance. In order to provide them this hold, you can select from among three different types of fastenings for the abrasive discs on the holder:

The largest selection of grit sizes and diameters can be found among our **self-adhesive abrasive discs**. These disposable articles provide the most economical solution at the same time. In addition to the large selection in the catalogue, we also offer you many special solutions here, for example in the "soft" or SiC paper versions. Consult Markus Abstoß about the possibilities.

Very rapid abrasive disc changes are possible with our discs with **Velcro fastening**. In contrast to the self-adhesive version, the rubber holders can be reused in this case.

The **COMBIDISC® system** offers the best hold and a very large selection of discs. Simply screw the abrasive disc on to the rubber holder and set to work. Flying discs are finally a thing of the past with this solution. These abrasive discs are thermally more resilient and always sit centrally owing to the innovative fastener. The rubber holder can also be reused in this case too.

Self-adhesive



290 Abrasive discs, self-adhesive

Velcro fastening



291 Abrasive discs with Velcro fastening

COMBIDISC®



296 Abrasive discs with rapid clamping fastener COMBIDISC®



Grinding stars Polistar Corundum

Grinding stars Polistar

Highly versatile deburring tools for processing the internal surfaces of drilling holes and pipes. Optimally suitable for small diameters (Ø 7 to 40 mm).

Polistar can be clamped in multiple layers (offset in relation to one another) in the tool holders.

Applications:

- cleaning and fine grinding of drilling holes
- removal of annealing colours
- rounding of inlet and outlet sides for drilling holes
- removal of slight burrs

Cutting speed V_{max} : 20 m/sec.



perfect for deburring of drill holes etc.

	Dimensions	Grit size	Drilling dimension	Rotation speed max.	Packing quantity	Order No.	Price from 1 pack
Grinding stars Polistar, corundum							
	Ø 20 mm	60	1.6 mm	20,000 1/min	25 pieces	0 570 910-0	15.25 €
		80	1.6 mm	20,000 1/min	25 pieces	0 570 911-0	15.25 €
		120	1.6 mm	20,000 1/min	25 pieces	0 570 912-0	15.25 €
	Ø 30 mm	60	1.6 mm	13,000 1/min	25 pieces	0 570 913-0	18.45 €
		80	1.6 mm	13,000 1/min	25 pieces	0 570 914-0	18.45 €
		120	1.6 mm	13,000 1/min	25 pieces	0 570 915-0	18.45 €
	Ø 40 mm	60	3 mm	10,000 1/min	10 piece	0 570 904-0	9.10 €
		80	3 mm	10,000 1/min	10 piece	0 570 905-0	9.10 €
		120	3 mm	10,000 1/min	10 piece	0 570 906-0	9.10 €
Ø 50 mm	60	3 mm	8,000 1/min	10 piece	0 570 907-0	10.65 €	
	80	3 mm	8,000 1/min	10 piece	0 570 908-0	10.65 €	
	120	3 mm	8,000 1/min	10 piece	0 570 909-0	10.65 €	

Accessories / spare parts

	For bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from	
						1 piece	10 pieces
CRATEX® grinding wheel holder							
	Ø 3 mm	Ø 6 x 40 mm	33	Ø 45 x 6 mm	0 545 269	11.25 €	
	Ø 1.5 - 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	0 545 275	1.16 €	0.97 €
		Ø 3 x 40 mm	22	Ø 38 x 4.5 mm	0 545 276	1.16 €	0.97 €

Grinding stars POLINOX Fleece


Grinding stars POLINOX

The new fleece alternative to the Polistar corundum grindings stars. Owing to the fleece trimming the POLINOX stars are particularly adaptable and therefore predestined for tight working areas: drilling holes, recesses and places which are difficult to reach. Available in packs containing 5 pieces respectively in three dimensions and three grit sizes.


Applications:

- deburring of in components made of nonferrous metals and non-ferrous heavy metals
- fine grinding on internal surfaces of stainless steel pipes
- cleaning of thread turns

Cutting speed V_{max} : 20 m/sec.

	Dimensions	Grit size	Rotation speed max.	Packing quantity	Order No.	Price from	
						1 pack	4 packs
Grinding stars POLINOX, corundum							
	Ø 19 mm	P 80	20,000 1/min	5 pieces	0 570 991	23.10 €	20.95 €
		very fine	20,000 1/min	5 pieces	0 570 992	21.15 €	19.30 €
	Ø 25 mm	coarse	15,000 1/min	5 pieces	0 570 993	26.50 €	24.15 €
		medium	15,000 1/min	5 pieces	0 570 994	16.00 €	14.65 €
		very fine	15,000 1/min	5 pieces	0 570 995	21.35 €	19.50 €
	Ø 38 mm	coarse	10,000 1/min	5 pieces	0 570 996	52.65 €	47.50 €
		medium	10,000 1/min	5 pieces	0 570 997	48.15 €	43.40 €
		very fine	10,000 1/min	5 pieces	0 570 998	43.80 €	39.35 €

Accessories / spare parts

	Shank dimensions	Type	Thread	Order No.	Price from
					1 piece
suitable toolholders					
	Ø 6 x 125 mm	XL	8/32-UNC	0 570 960	9.90 €
	Ø 6 x 75 mm	L	8/32-UNC	0 570 965	8.45 €


Abrasive discs ROTAFLEX Silicon carbide, self-adhesive

The silicon carbide abrasive discs are ideal for processing aluminium, copper, bronze, titanium, high-alloyed steels and fibrereinforced plastics. Optimally suited for the aeronautical industry and in areas where only SiC is allowed.



use with and without
coolant/lubricant!

Cutting speed V_{max} : 13 m/sec.



	Dimensions	Grit size	Type	Rotation speed max.	Packing quantity	Order No.	Price from	
							1 pack	3 packs
Abrasive discs ROTAFLEX								
	Ø 30 mm	80	CPC 871	8,500 1/min	250 pieces	0 530 660	26.30 €	23.20 €
		120	CPC 871	8,500 1/min	250 pieces	0 530 662	22.90 €	22.50 €
		220	CPA 871	8,500 1/min	250 pieces	0 530 665	22.90 €	21.55 €
		240	CPA 871	8,500 1/min	250 pieces	0 530 666	22.90 €	21.55 €
		320	CPA 871	8,500 1/min	250 pieces	0 530 668	22.90 €	21.25 €
		500	CPA 871	8,500 1/min	250 pieces	0 530 671	22.90 €	21.25 €
		800	CPA 871	8,500 1/min	250 pieces	0 530 673	22.90 €	21.25 €
		1000	CPA 871	8,500 1/min	250 pieces	0 530 674	22.90 €	21.25 €
		1200	CPA 871	8,500 1/min	250 pieces	0 530 675	22.90 €	21.25 €

Abrasive discs ROTAFLEX-Trizact Corundum


NEW!

The ROTAFLEX Trizact grinding sheets – a guarantee of particularly even surfaces and a perfect finish. Owing to the pyramid-shaped, uniform arrangement of identical abrasive particles on a foam-like carrier, the abrasive particles are continuously exposed during grinding. The result is reproducible and smooth surfaces with a longer service life.

Cutting speed: V_{max} : 13 m/sec.

	Dimensions	Grit size	Packing quantity	Order No.	Price from 1 pack
Abrasive discs ROTAFLEX-Trizact with velcro fastening					
	Ø 30 mm	160	10 pieces	0 572 001	24.85 €
Abrasive discs ROTAFLEX-Trizact, self-adhesive					
	Ø 30 mm	160	10 pieces	0 572 101	20.00 €

Accessories / spare parts

	Dimensions	Shank dimensions	Type	Suitable abrasive discs	Order No.	Price from 1 piece	5 pieces	10 pieces
Rubber holder ROTAFLEX								
	Ø 30 mm	Ø 3 x 26 mm	RK 2	R 2	0 544 104	3.84 €	3.58 €	3.32 €

Abrasive discs ROTAFLEX corundum, with Velcro fastening


Owing to the velour Velcro fastening, these abrasive discs adhere particularly well to the corresponding rubber holders. Ideal for multiple use!

Cutting speed V_{max} : 20 m/sec.

	Dimensions	Grit size	Rotation speed max.	Packing quantity	Order No.	Price from 1 pack	3 packs	5 packs
ROTAFLX abrasive discs with Velcro fastening								
	Ø 20 mm	60	19,000 1/min	100 pieces	0 544 012	19.80 €	18.75 €	17.60 €
		80	19,000 1/min	100 pieces	0 544 013	17.85 €	16.90 €	15.65 €
		120	19,000 1/min	100 pieces	0 544 014	17.85 €	16.90 €	15.65 €
		150	19,000 1/min	100 pieces	0 544 015	19.80 €	18.75 €	17.60 €
		180	19,000 1/min	100 pieces	0 544 016	22.40 €	20.85 €	19.40 €
		240	19,000 1/min	100 pieces	0 544 017	22.40 €	20.85 €	19.40 €
		320	19,000 1/min	100 pieces	0 544 018	19.80 €	18.75 €	17.60 €
	Ø 30 mm	60	13,000 1/min	100 pieces	0 544 032	22.40 €	20.85 €	19.40 €
		80	13,000 1/min	100 pieces	0 544 033	22.40 €	20.85 €	19.40 €
		120	13,000 1/min	100 pieces	0 544 034	24.25 €	22.90 €	21.45 €
		180	13,000 1/min	100 pieces	0 544 036	24.25 €	22.90 €	21.45 €
		240	13,000 1/min	100 pieces	0 544 037	24.25 €	22.90 €	21.45 €
		320	13,000 1/min	100 pieces	0 544 038	24.25 €	22.90 €	21.45 €

Abrasive discs ROTAFLEX corundum, with Velcro fastening



The matching rubber holders for abrasive discs with Velcro fastening. Unlike conventional stick-on discs, the rubber holder can be reused once the disc is worn out. Cutting speed V_{max}: 20 m/sec.

	Dimensions	Shank dimensions	Order No.	Price from	
				1 piece	5 pieces
Rubber holders with Velcro fastening					
	Ø 18 mm	Ø 3 x 30 mm	0 544 010	12.75 €	11.80 €
	Ø 30 mm	Ø 3 x 30 mm	0 544 020	15.15 €	13.70 €
		Ø 6 x 40 mm	0 544 030	15.35 €	14.00 €

Abrasive discs ROTAFLEX corundum, self-adhesive

for elastic grinding in combination with the suitable rubber holders.

Cutting speed V_{max}: 13 m/sec.

	Dimensions	Grit size	Type	Rotation speed max.	Packing quantity	Order No.	Price from		
							1 pack	5 packs	10 packs
ROTAFLX abrasive discs									
	Ø 12 mm	50	R 0	20,000 1/min	50 pieces	0 544 111	3.46 €	2.98 €	2.85 €
		60	R 0	20,000 1/min	50 pieces	0 544 112	3.46 €	2.98 €	2.79 €
		80	R 0	20,000 1/min	50 pieces	0 544 113	3.40 €	2.91 €	2.79 €
		120	R 0	20,000 1/min	50 pieces	0 544 114	3.40 €	2.89 €	2.77 €
		150	R 0	20,000 1/min	50 pieces	0 544 115	3.40 €	2.89 €	2.77 €
		180	R 0	20,000 1/min	50 pieces	0 544 116	3.40 €	2.89 €	2.77 €
		240	R 0	20,000 1/min	50 pieces	0 544 117	3.40 €	2.89 €	2.77 €
		320	R 0	20,000 1/min	50 pieces	0 544 118	3.40 €	2.89 €	2.77 €
		400	R 0	20,000 1/min	50 pieces	0 544 119	3.40 €	2.89 €	2.77 €
		600	R 0	20,000 1/min	50 pieces	0 544 174	3.46 €	2.98 €	2.85 €
	Ø 20 mm	50	R 1	12,000 1/min	50 pieces	0 544 121	6.00 €	4.80 €	4.56 €
		60	R 1	20,000 1/min	50 pieces	0 544 122	5.90 €	4.77 €	4.52 €
		80	R 1	20,000 1/min	50 pieces	0 544 123	5.70 €	4.70 €	4.44 €
		120	R 1	20,000 1/min	50 pieces	0 544 124	5.70 €	4.70 €	4.44 €
		150	R 1	20,000 1/min	50 pieces	0 544 125	5.70 €	4.70 €	4.44 €
		180	R 1	20,000 1/min	50 pieces	0 544 126	5.70 €	4.70 €	4.44 €
		240	R 1	20,000 1/min	50 pieces	0 544 127	5.70 €	4.70 €	4.44 €
		320	R 1	20,000 1/min	50 pieces	0 544 128	5.70 €	4.70 €	4.44 €
		400	R 1	20,000 1/min	50 pieces	0 544 129	5.70 €	4.70 €	4.44 €
		600	R 1	12,000 1/min	50 pieces	0 544 175	4.34 €	3.63 €	3.42 €

Abrasive discs ROTAFLEX corundum, self-adhesive

	Dimensions	Grit size	Type	Rotation speed max.	Packing quantity	Order No.	Price from		
							1 pack	5 packs	10 packs
	Ø 33 mm	50	R 2	7,500 1/min	50 pieces	0 544 131	8.80 €	7.65 €	7.25 €
		60	R 2	7,500 1/min	50 pieces	0 544 132	8.80 €	7.55 €	7.25 €
		80	R 2	7,500 1/min	50 pieces	0 544 133	8.55 €	7.45 €	7.05 €
		120	R 2	7,500 1/min	50 pieces	0 544 134	8.45 €	7.35 €	7.05 €
		150	R 2	7,500 1/min	50 pieces	0 544 135	8.45 €	7.35 €	7.05 €
		180	R 2	7,500 1/min	50 pieces	0 544 136	8.45 €	7.35 €	7.05 €
		240	R 2	7,500 1/min	50 pieces	0 544 137	8.45 €	7.35 €	7.05 €
		320	R 2	7,500 1/min	50 pieces	0 544 138	8.45 €	7.35 €	7.05 €
		400	R 2	7,500 1/min	50 pieces	0 544 139	8.45 €	7.35 €	7.05 €
		600	R 2	7,500 1/min	50 pieces	0 544 176	6.30 €	4.90 €	4.67 €
	Ø 50 mm	40	R 3	5,000 1/min	50 pieces	0 544 140	15.80 €	13.30 €	12.60 €
		50	R 3	5,000 1/min	50 pieces	0 544 141	15.50 €	13.10 €	12.50 €
		60	R 3	5,000 1/min	50 pieces	0 544 142	15.25 €	12.80 €	12.30 €
		80	R 3	5,000 1/min	50 pieces	0 544 143	14.85 €	12.50 €	11.85 €
		120	R 3	5,000 1/min	50 pieces	0 544 144	14.75 €	12.50 €	11.85 €
		150	R 3	5,000 1/min	50 pieces	0 544 145	14.75 €	12.20 €	11.85 €
		180	R 3	5,000 1/min	50 pieces	0 544 146	14.75 €	12.50 €	11.85 €
		240	R 3	5,000 1/min	50 pieces	0 544 147	14.75 €	12.50 €	11.85 €
		320	R 3	5,000 1/min	50 pieces	0 544 148	14.75 €	12.50 €	11.85 €
		400	R 3	5,000 1/min	50 pieces	0 544 149	14.75 €	12.50 €	11.85 €
600	R 3	5,000 1/min	50 pieces	0 544 177	12.70 €	10.95 €	10.55 €		

Accessories / spare parts

	Dimensions	Shank dimensions	Type	Suitable abrasive discs	Order No.	Price from		
						1 piece	5 pieces	10 pieces
Rubber holder ROTAFLEX								
	Ø 10 mm	Ø 3 x 26 mm	RK 0	R 0	0 544 101	3.61 €	3.37 €	3.12 €
	Ø 18 mm	Ø 2.35 x 26 mm	RK 1	R 1	0 544 102	3.59 €	3.34 €	3.11 €
		Ø 3 x 26 mm	RK 1	R 1	0 544 103	3.56 €	3.24 €	3.00 €
	Ø 30 mm	Ø 3 x 26 mm	RK 2	R 2	0 544 104	3.84 €	3.58 €	3.32 €
	Ø 45 mm	Ø 6 x 32 mm	RK 3	R 3	0 544 105	3.80 €	3.56 €	3.29 €

1
2
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Abrasive discs ROTAFLEX

Silicon carbide, self-adhesive

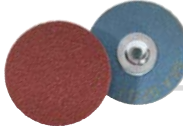
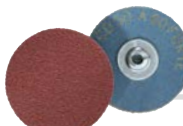
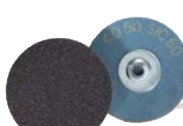






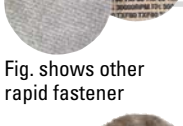
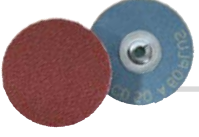





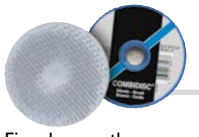


	Steel, cast steel	Coarse grinding of steel and cast steel	Stainless steel (INOX)	Materials with high thermal stability (Ni-Co alloy)	Hard non-ferrous metals, titanium, bronze, hardened aluminium alloys	Soft non-ferrous metals, titanium, copper, aluminium alloys	Carbide metal, hard material coatings, hard facings, glass, GRP, CRP	Cleaning, structuring, deburring	Polishing
 <p>Corundum A universally for all metals <i>page 296</i></p>	◆					◆			
 <p>Corundum A-Forte universally, long service life, cool cut <i>on request!</i></p>	◆					◆			
 <p>Silicon carbide non-ferrous metals, titanium, aeronautical industry, SiC authorisation <i>on request!</i></p>			◆	◆					
 <p>Fleece rounds, hard universally for surface processing of many materials <i>page 296</i></p>							◆		
 <p>Fleece rounds, soft universally for surface processing of many materials <i>page 296</i></p>							◆		
 <p>Felt rounds polishing of larger surfaces <i>page 297</i></p>								◆	
 <p>Corundum A-FLEX universally for all metals, flexibly for uneven surfaces <i>on request!</i></p>	◆					◆			
 <p>Ceramic grit CO-COOL extremely hard materials, high stock removal, long service life <i>on request!</i></p>			◆	◆	◆				
 <p>TX rounds surface processing, deburring, particularly on INOX and aluminium <i>on request!</i></p>			◆		◆	◆			
 <p>Cleaning rounds POLICLEAN® cleaning, removal, surface processing <i>on request!</i></p>							◆		

Fig. shows other rapid fastener


Abrasive discs ROTAFLEX

Silicon carbide, self-adhesive

	Steel, cast steel	Coarse grinding of steel and cast steel	Stainless steel (INOX)	Materials with high thermal stability (Ni-Co alloy)	Hard non-ferrous metals, titanium, bronze, hardened aluminium alloys	Soft non-ferrous metals, brass, copper, aluminium alloys	Carbide metal, hard material coatings, hard facings, glass, GRP, CRP	Cleaning, structuring, deburring	Polishing
 <p>Corundum A-PLUS universally for metals, long service lives, stable carrier material</p> <p>on request!</p>	◆					◆			
 <p>Small fibre grinders corundum A surface and edge grinding, very long service lives, reinforced fibre backing</p> <p>on request!</p>		◆							
 <p>Corundum A-COOL materials difficult to cut, such as INOX, Hastelloy, Inconel, Ni-Co</p> <p>auf Anfrage!</p>			◆	◆	◆				
 <p>Zirconium corundum Z for all carbide metals during coarse grinding up to grit size 36 and grit size 80</p> <p>on request!</p>	◆	◆	◆						
 <p>Small fibre grinders ceramic grit CO-COOL extremely hard materials, high stock removal, reinforced fibre backing</p> <p>on request!</p>			◆	◆	◆				
 <p>Diamond grinding discs Hastelloy, Inconel, chrome, tungsten, titanium carbide, carbide metal, CRP/GRP</p> <p>on request!</p>						◆			
 <p>Brush remove adhesive etc., cleaning of contours and edges</p> <p>on request!</p> <p>Fig. shows other rapid fastener</p>							◆		
 <p>mini-POLIFAN Corundum A universal coarse grinding tasks, high cutting performance</p> <p>Fig. shows other rapid fastener</p>		◆							
 <p>mini-POLIFAN Zirconium corundum ZA groarse grinding tasks, high cutting performance</p> <p>on request!</p>		◆	◆	◆					


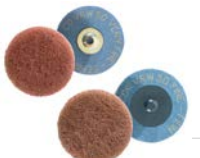
Grinding and polishing discs COMBIDISC® Corundum A

The corundum A version is suitable for universal use on metals and other materials. "Medium" version abrasive discs are recommended.

	Dimensions	Grit size	Recommended speed	Packing quantity	Order No.	Price from	
						1 pack	4 packs
Abrasive discs COMBIDISC® corundum A							
	Ø 20 mm	60	35,000 1/min	50 pieces	0 541 020	31.25 €	27.75 €
		80	35,000 1/min	50 pieces	0 541 021	31.25 €	27.75 €
		120	35,000 1/min	50 pieces	0 541 022	31.25 €	27.75 €
		180	35,000 1/min	50 pieces	0 541 023	31.25 €	27.75 €
		320	35,000 1/min	50 pieces	0 541 024	31.25 €	27.75 €
	Ø 25 mm	60	26,000 1/min	50 pieces	0 541 025	28.25 €	26.10 €
		80	26,000 1/min	50 pieces	0 541 026	28.25 €	26.10 €
		120	26,000 1/min	50 pieces	0 541 027	28.25 €	26.10 €
		180	26,000 1/min	50 pieces	0 541 028	31.25 €	27.75 €
		320	26,000 1/min	50 pieces	0 541 029	31.25 €	27.75 €
	Ø 38 mm	60	16,000 1/min	50 pieces	0 541 031	39.15 €	34.85 €
		80	16,000 1/min	50 pieces	0 541 032	39.15 €	34.85 €
		120	16,000 1/min	50 pieces	0 541 033	39.15 €	34.85 €
		180	16,000 1/min	50 pieces	0 541 034	39.15 €	34.85 €
		320	16,000 1/min	50 pieces	0 541 035	39.15 €	34.85 €
Ø 50 mm	60	13,000 1/min	50 pieces	0 541 037	49.55 €	45.75 €	
	80	13,000 1/min	50 pieces	0 541 038	49.55 €	45.75 €	
	120	13,000 1/min	50 pieces	0 541 039	49.55 €	45.75 €	
	180	13,000 1/min	50 pieces	0 541 040	55.55 €	49.65 €	
	320	13,000 1/min	50 pieces	0 541 041	55.55 €	49.65 €	

Grinding and polishing discs COMBIDISC® Fleece rounds

The fleece rounds are universally suitable for surface processing on metals. For eliminating grinding marks, removing oxidation and for light deburring work for example. The flexibility of the fleece rounds is determined by the choice of holder hardness.

	Dimensions	Grit size	Recommended speed	Packing quantity	Order No.	Price from	
						1 pack	4 packs
Fleece rounds COMBIDISC® - hard version, corundum A							
	Ø 20 mm	very fine	19,000 1/min	25 pieces	0 541 110	30.80 €	27.55 €
	Ø 25 mm	coarse	15,000 1/min	25 pieces	0 541 111	24.25 €	21.35 €
		medium	15,000 1/min	25 pieces	0 541 112	24.25 €	21.35 €
		very fine	15,000 1/min	25 pieces	0 541 113	24.25 €	21.35 €
	Ø 38 mm	coarse	10,000 1/min	25 pieces	0 541 114	51.50 €	45.95 €
		medium	10,000 1/min	25 pieces	0 541 115	51.50 €	45.95 €
		very fine	10,000 1/min	25 pieces	0 541 116	51.50 €	45.95 €
	Ø 50 mm	coarse	7,500 1/min	25 pieces	0 541 117	40.60 €	36.20 €
		medium	7,500 1/min	25 pieces	0 541 118	40.60 €	36.20 €
		very fine	7,500 1/min	25 pieces	0 541 119	40.60 €	36.20 €
Fleece rounds COMBIDISC® - soft version, corundum A							
	Ø 50 mm	medium	7,500 1/min	25 pieces	0 541 130	47.30 €	42.35 €
		fine	7,500 1/min	25 pieces	0 541 131	45.45 €	40.70 €
		very fine	7,500 1/min	25 pieces	0 541 132	45.45 €	40.70 €

Grinding and polishing discs COMBIDISC® Ceramic grit CO-COOL

NEW!

Ceramic grit CO-COOL is suitable for processing unalloyed and alloyed steels, cast iron, stainless steel (INOX), titanium, nickel alloys and extra-hard materials. Consistent high performance self-sharpening ceramic grits. Fillers with an active grinding effect in the coating result in an outstanding improvement in stock removal and long stock removal periods and service lives. Furthermore, the fillers prevent clogging of the discs and ensure a cool cut. The "medium" and "hard" abrasive disc holders are particularly well suited.

	Dimensions	Grit size	Rotation speed max.	Packing quantity	Order No.	Price from	
						1 pack	4 packs
Abrasive discs COMBIDISC® ceramic grit CO-COOL							
	Ø 38 mm	36	16,000 1/min	25 pieces	0 541 091	34.30 €	30.60 €
		60	16,000 1/min	25 pieces	0 541 092	30.00 €	26.50 €
		80	16,000 1/min	25 pieces	0 541 093	28.95 €	25.90 €
		120	16,000 1/min	25 pieces	0 541 094	30.20 €	26.50 €
	Ø 50 mm	36	13,000 1/min	25 pieces	0 541 096	48.25 €	43.10 €
		60	13,000 1/min	25 pieces	0 541 097	41.55 €	37.10 €
		80	13,000 1/min	25 pieces	0 541 098	40.80 €	36.40 €
		120	13,000 1/min	25 pieces	0 541 099	40.80 €	36.40 €

Grinding and polishing discs COMBIDISC® Felt rounds

For frontal polishing with diamond, grinding and polishing pastes on larger surfaces. Optionally, the holders can be used „soft“ or „medium“.

	Dimensions	Recommended speed	Packing quantity	Order No.	Price from	
					1 pack	4 packs
Felt rounds COMBIDISC®						
	Ø 50 mm	4,000 1/min	5 piece	0 541 150	13.00 €	11.65 €


Grinding and polishing discs COMBIDISC® Holders

	Dimensions	Design	Shank dimensions	Recommended speed	Order No.	Price from
						1 piece
Grinding and polishing disc holders COMBIDISC®						
	Ø 20 mm	medium	Ø 3 x 27 mm	12.000 1/min	0 541 012	17.25 €
		medium	Ø 6 x 40 mm	47.500 1/min	0 541 001	17.00 €
	Ø 25 mm	medium	Ø 3 x 27 mm	12.000 1/min	0 541 013	16.60 €
		medium	Ø 6 x 40 mm	38.000 1/min	0 541 002	14.65 €
	Ø 38 mm	hard	Ø 6 x 40 mm	25.000 1/min	0 541 003	21.55 €
		medium	Ø 6 x 40 mm	25.000 1/min	0 541 004	18.25 €
		soft	Ø 6 x 40 mm	25.000 1/min	0 541 005	19.90 €
	Ø 50 mm	hard	Ø 6 x 40 mm	19.000 1/min	0 541 006	26.10 €
		medium	Ø 6 x 40 mm	19.000 1/min	0 541 007	18.25 €
		soft	Ø 6 x 40 mm	19.000 1/min	0 541 008	23.20 €

Abrasive paper

Silicon carbide

The well-known wet abrasive paper. Owing to the very fine grit size, suitable up to the polishing stage. Use wet and dry on all steels and nonferrous metals. An insider's tip for aluminium!

	Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
						1 pack	5 packs
Silicon carbide abrasive paper							
	230 x 280 mm	150	991 C	50 pieces	0 401 379	29.05 €	27.20 €
		180	991 C	50 pieces	0 401 380	27.10 €	25.65 €
		220	991 C	50 pieces	0 401 381	27.10 €	25.65 €
		240	991 C	50 pieces	0 401 382	27.10 €	25.65 €
		280	991 C	50 pieces	0 401 383	27.10 €	25.65 €
		320	991 C	50 pieces	0 401 384	27.10 €	25.65 €
		400	991 C	50 pieces	0 401 386	27.10 €	25.65 €
		500	991 C	50 pieces	0 401 387	27.10 €	25.65 €
		600	991 C	50 pieces	0 401 388	27.10 €	25.65 €
		800	991 C	50 pieces	0 401 389	27.10 €	25.65 €
		1000	991 C	50 pieces	0 401 390	27.10 €	25.65 €
		1200	991 C	50 pieces	0 401 391	27.10 €	25.65 €
		1200	991 A	50 pieces	0 401 373	32.55 €	29.50 €
		2000	991 A	50 pieces	0 401 392	35.15 €	33.20 €
		2500	991 A	50 pieces	0 401 393	35.15 €	33.20 €
		3000	991 A	50 pieces	0 401 394	40.20 €	37.85 €
		5000	991 A	50 pieces	0 401 395	59.95 €	56.55 €
		1500	991 A	50 pieces	0 401 397	35.15 €	33.20 €
		7000	991 A	50 pieces	0 401 399	92.00 €	90.85 €



use with and without
coolant/lubricant!



Difference between A and C grades?!

The A and C grade wet abrasive papers differ in the specific weight of the base:

- A ≤ 115 g/m²
- C > 115 g/m²










Abrasive paper


Corundum

NEW!

This microfinishing 3M® emery paper, consisting of a polyester film backing, is characterised by densely dispersed, closely calibrated corundum grit in a synthetic resin bond. This results in very fine surfaces on all metals and even on plastics.

	Dimensions	Grit size	Colour	Packing quantity	Order No.	Price from		
						1 piece	10 pieces	50 pieces
Mikro-Finishing-Abrasive Paper 3M®								
	216 x 280 mm	180 / 80 µm	brown	5 pieces	0 530 708	6.30 €	5.80 €	5.10 €
		220 / 60 µm	black	5 pieces	0 530 709	6.40 €	6.00 €	5.30 €
		320 / 40 µm	blue	5 pieces	0 530 710	6.30 €	5.80 €	5.10 €
		400 / 30 µm	green	5 pieces	0 530 711	6.40 €	6.00 €	5.30 €
		500 / 20 µm	red	5 pieces	0 530 712	6.40 €	6.00 €	5.30 €
		600 / 15 µm	orange	5 pieces	0 530 713	6.40 €	6.00 €	5.30 €
		1200 / 9 µm	light blue	5 pieces	0 530 714	6.30 €	5.80 €	5.10 €

 *matching set*

	Order No.	Price from		
		1 set	3 set	5 set
Mikro-Finishing-Abrasive Paper 3M®				
	The set contains one sheet each in the version: 0 530 715 brown, black, blue, green, red, orange and light blue	48.35 €	43.30 €	38.05 €

2 Padded abrasive cloth MX

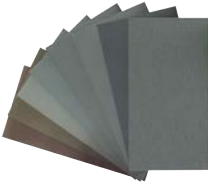
The somewhat different kind of abrasive. The grinding crystals are accommodated in an elastic latex layer on a fabric base. The crystals move flexibly during grinding and always optimally align themselves in relation to the surface; the stock removal level constantly remains even. The result is a completely smooth surface on almost all materials: metal, plastics, glass, wood, lacquer or stone. Practically all smooth surfaces can be superfine ground. In doing so, it is possible to work with a considerably coarser grit size than usual and markedly finer surfaces result all the same. Comparatively large grinding crystals and the flexible carrier material prevent scratches on the workpiece, since no adherence of the grinding crystals occurs as a result of dust particle accumulation.



Grit size MX	Comparable to FEPA
180	> P 360
240	P 800
320	> P 1500
360	P 2000
400	P 2500
600	> P 3000
800	P 5000
1200	> P 5000



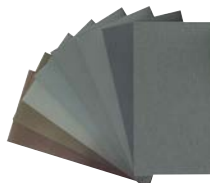
use with and without
coolant/lubricant!

Dimensions	Grit size	Order No.	Price from 1 piece
Padded abrasive cloth MX			
 150 x 305 mm	180	0 401 651	13.80 €
	240	0 401 652	13.80 €
	320	0 401 653	13.80 €
	360	0 401 654	13.80 €
	400	0 401 655	13.80 €
	600	0 401 656	13.80 €
	800	0 401 657	13.80 €
	1200	0 401 658	13.80 €



matching set

Order No.	Price from 1 set
Set of padded abrasive cloth MX	
One sheet per grit size respectively	0 401 650 99.20 €



What advantages does the "padded abrasive cloth" offer?


- up to 15 x service life
- a markedly finer polished section than with conventional abrasives
- grit size 400 corresponds to the surface roughness of grit size P 2500 in spite of the high stock removal
- delayed friction and consequently less heat generation
- large crystals
- no built-up edges



Do you need MX on the roll, as rounds or in different sheet dimensions, then please contact Markus Abstoss:

Tel. +49 (0) 22 04 / 8 39-0 • m.abstoss@joke.de


Abrasive strips ROTAFLEX Corundum, self-adhesive

Dimensions	Grit size	Packing quantity	Order No.	Price from	
				1 pack	10 packs
Abrasive strips ROTAFLEX, corundum, self-adhesive					
 7 x 580 mm	60	10 pieces	0 401 302	7.85 €	7.05 €
	80	10 pieces	0 401 303	7.85 €	7.05 €
	120	10 pieces	0 401 304	7.75 €	6.95 €
	150	10 pieces	0 401 305	7.75 €	6.95 €
	180	10 pieces	0 401 306	7.75 €	6.95 €
	240	10 pieces	0 401 307	7.75 €	6.95 €
	320	10 pieces	0 401 308	7.75 €	6.95 €
	400	10 pieces	0 401 309	7.75 €	6.95 €
	600	10 pieces	0 401 310	8.05 €	7.15 €
	 10 x 580 mm	80	10 pieces	0 401 333	8.15 €
120		10 pieces	0 401 334	8.15 €	7.35 €
150		10 pieces	0 401 335	8.15 €	7.25 €
180		10 pieces	0 401 336	8.15 €	7.25 €
240		10 pieces	0 401 337	8.45 €	7.65 €
320		10 pieces	0 401 338	8.15 €	7.25 €
400		10 pieces	0 401 339	8.15 €	7.25 €
600		10 pieces	0 401 340	8.55 €	7.55 €



use with and without
coolant/lubricant!

Abrasive sheets Corundum, self-adhesive



Dimensions	Grit size	Order No.	Price from	
			1 piece	10 pieces
Abrasive sheets ROTAFLEX, corundum, self-adhesive				
 210 x 580 mm	60	0 401 312	10.30 €	9.10 €
	80	0 401 313	10.10 €	8.70 €
	120	0 401 314	10.00 €	8.55 €
	150	0 401 315	10.00 €	8.55 €
	180	0 401 316	10.00 €	8.55 €
	240	0 401 317	10.00 €	8.55 €
	320	0 401 318	10.00 €	8.55 €
	400	0 401 319	10.00 €	8.55 €
	600	0 401 320	10.85 €	9.50 €
	 250 x 580 mm	60	0 401 322	10.30 €
80		0 401 323	10.10 €	8.70 €
120		0 401 324	10.00 €	8.55 €
150		0 401 325	10.00 €	8.55 €
180		0 401 326	10.00 €	8.55 €
240		0 401 327	10.00 €	8.55 €
320		0 401 328	10.00 €	8.55 €
400		0 401 329	10.00 €	8.55 €
600		0 401 330	10.85 €	9.50 €





use with and without
coolant/lubricant!

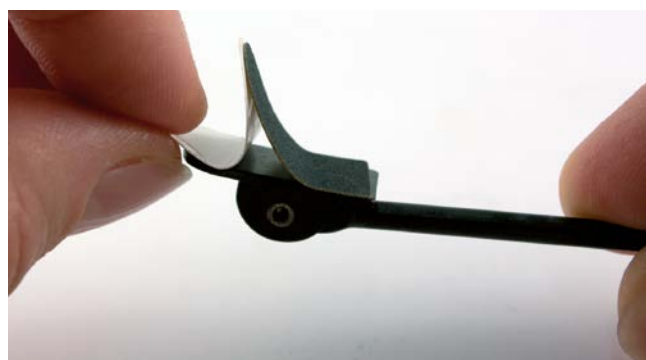
Felt pads ROTAFLEX **NEW!**

Why should this idea of the small self-adhesive pads be restricted to grinding! We also offer a self-adhesive polishing felt in the same shape:

	Dimensions	Grit size	Packing quantity	Order No.	Price from		
					1 pack	5 packs	10 packs
Felt tips ROTAFLEX, self-adhesive							
	20 x 10 mm		50 pieces	0 530 604	25.35 €	22.70 €	18.90 €
Abrasive Pads, self-adhesive							
Corundum							
	20 x 10 mm	180	100 pieces	0 530 605	32.70 €	28.85 €	26.30 €
		240	100 pieces	0 530 606	32.70 €	28.85 €	26.30 €
		280	100 pieces	0 530 607	32.70 €	28.85 €	26.30 €
		320	100 pieces	0 530 608	32.70 €	28.85 €	26.30 €
		400	100 pieces	0 530 609	32.70 €	28.85 €	26.30 €
		600	100 pieces	0 530 610	32.70 €	28.85 €	26.30 €
		800	100 pieces	0 530 611	32.70 €	28.85 €	26.30 €
		1000	100 pieces	0 530 612	32.70 €	28.85 €	26.30 €
		1200	100 pieces	0 530 613	32.70 €	28.85 €	26.30 €


Accessories / spare parts

	Order No.	Price from		
		1 piece	5 pieces	10 pieces
Abrasive pad holder, 180° pivotable				
shank Ø x total length 3 x 85 mm	0 530 601	10.30 €	8.55 €	7.05 €
				
Abrasive pad holder				
shank Ø x total length 3 x 65 mm	0 530 602	3.28 €	2.90 €	2.32 €
shank Ø x total length 3 x 40 mm	0 530 603	3.28 €	2.90 €	2.32 €
				



Grinding fleece pads and rolls

Elastic material made from unwoven nylon fibres, within which the abrasive grain is uniformly distributed. The joke grinding fleece adapts to any surface and therefore allows consistent working results through-out its entire service life. This grinding fleece is ideal for fine grinding, cleaning, and elimination of corrosion and for very fine deburring. Can be used dry or with water, fluid or oil.

Dimensions	Grit size	Design	Order No.	Price from		
				1 piece	3 pieces	5 pieces
Grinding fleece - rolls and pads						
 229 x 152 mm	320 - 360 / very fine	Pad – corundum	0 401 436	1.60 €	1.44 €	
	500 - 600 / superfine	Pad – silicon carbide	0 401 437	1.91 €	1.72 €	
115 mm x 10 m	100 - 180 / medium	Roll – corundum	0 401 430-0	35.85 €	32.80 €	30.40 €
	220 - 240 / fine	Roll – corundum	0 401 431-0	35.85 €	32.80 €	30.40 €
	280 - 360 / very fine	Roll – corundum	0 401 432-0	35.85 €	32.80 €	30.40 €
	280 - 360 / very fine	Roll – silicon carbide	0 401 433-0	35.85 €	32.80 €	30.40 €
	400 - 600 / superfine	Roll – silicon carbide	0 401 434-0	35.85 €	32.80 €	30.40 €
	800 - 1500 / ultrafine	Roll – silicon carbide	0 401 435-0	35.85 €	32.80 €	30.40 €



use with and without coolant/lubricant!

i Grit size Fleece	comparable to FEPA
coarse	K 40 - 80
medium	K 100 - 180
fine	K 220 - 240
very fine	K 280 - 360
super-fine	K 400 - 600
ultra-fine	K 800 - 1500


Abrasive cloth sheets Premium Corundum

One of the best abrasive cloths in the world – now available in sheet and roll form! The material can be torn to the desired length very easily and cleanly and is highly flexible, yet still has high edge stability.



What is elutriated grit application?

With the elutriated material, the abrasive is „painted“ on to the base in a „sludge“ consisting of binder and grinding grit. This results in a very fine and uniform emery surface, which is ideally suited for prepolishing.


Dimensions	Grit size	Packing quantity	Order No.	Price from		
				1 pack	3 packs	5 packs
Abrasive cloth sheets Premium VSM, KK 114 F, corundum						
 230 x 280 mm	80	50 pieces	0 530 618	49.35 €		39.80 €
	100	50 pieces	0 530 619	46.80 €		38.05 €
	120	50 pieces	0 530 620	46.80 €		38.05 €
	150	50 pieces	0 530 621	46.80 €		38.05 €
	180	50 pieces	0 530 622	46.80 €	42.45 €	38.05 €
	220	50 pieces	0 530 623	46.80 €	42.45 €	38.05 €
	240	50 pieces	0 530 624	46.80 €	42.45 €	38.05 €
	280	50 pieces	0 530 625	46.80 €	42.45 €	38.05 €
	320	50 pieces	0 530 626	46.80 €	42.45 €	38.05 €
	360	50 pieces	0 530 627	46.80 €	42.45 €	38.05 €
	400	50 pieces	0 530 628	46.80 €	42.45 €	38.05 €
	444 silver	50 pieces	0 530 629	46.80 €	42.45 €	38.05 €
	999 rouge	50 pieces	0 530 630	46.80 €	42.45 €	38.05 €



use with and without coolant/lubricant!

Economy abrasive cloth rolls Premium Corundum

Premium abrasive cloth delivered – on 50 m rolls. Likewise very flexible, yet with high edge stability and easy to tear to the desired size.

Width	Grit size	Design	Order No.	Price from		
				1 piece	3 pieces	5 pieces
Premium economy abrasive cloth roll, 50 m, VSM, KK 114 F and KK 511 F						
 25 mm	80	KK 114 F	0 543 851	22.90 €	21.45 €	20.20 €
	120	KK 114 F	0 543 847	21.85 €	20.60 €	19.40 €
	150	KK 114 F	0 543 852	21.85 €	20.60 €	19.40 €
	180	KK 114 F	0 543 853	21.85 €	20.60 €	19.40 €
	240	KK 114 F	0 543 854	21.85 €	20.60 €	19.40 €
	320	KK 114 F	0 543 855	21.85 €	20.60 €	19.40 €
	400	KK 114 F	0 543 856	21.85 €	20.60 €	19.40 €
	600	KK 511 F	0 543 858	30.80 €	28.85 €	26.80 €
	800	KK 511 F	0 543 859	30.80 €	28.85 €	26.80 €
	999	KK 114 F	0 543 844	21.85 €	20.60 €	19.40 €
40 mm	80	KK 114 F	0 543 861	35.45 €	33.30 €	30.90 €
	120	KK 114 F	0 543 848	34.00 €	31.75 €	29.60 €
	150	KK 114 F	0 543 862	33.90 €	31.65 €	29.60 €
	180	KK 114 F	0 543 863	33.90 €	31.65 €	29.60 €
	240	KK 114 F	0 543 864	33.90 €	31.65 €	29.60 €
	320	KK 114 F	0 543 865	33.90 €	31.65 €	29.60 €
	400	KK 114 F	0 543 866	33.90 €	31.65 €	29.60 €
	600	KK 511 F	0 543 868	47.70 €	44.75 €	41.45 €
	800	KK 511 F	0 543 869	47.70 €	44.75 €	41.45 €
	999	KK 114 F	0 543 845	33.90 €	31.65 €	29.50 €
50 mm	40	KK 114 F	0 543 843	55.85 €	51.20 €	47.60 €
	60	KK 114 F	0 543 870	47.50 €	44.60 €	41.35 €
	80	KK 114 F	0 543 871	44.30 €	41.35 €	38.75 €
	100	KK 114 F	0 543 841	42.35 €	39.45 €	36.80 €
	120	KK 114 F	0 543 849	42.35 €	39.45 €	36.80 €
	150	KK 114 F	0 543 872	42.35 €	39.45 €	36.80 €
	180	KK 114 F	0 543 873	42.35 €	39.45 €	36.80 €
	240	KK 114 F	0 543 874	42.35 €	39.45 €	36.80 €
	320	KK 114 F	0 543 875	42.35 €	39.45 €	36.80 €
	400	KK 114 F	0 543 876	42.35 €	39.45 €	36.80 €
	500	KK 511 F	0 543 877	59.75 €	55.85 €	52.05 €
	600	KK 511 F	0 543 878	59.75 €	55.85 €	52.05 €
	800	KK 511 F	0 543 879	59.55 €	55.55 €	51.95 €
	999	KK 114 F	0 543 846	42.35 €	39.45 €	36.80 €




use with and without
coolant/lubricant!



Practical:
The grit sizes 60 to 400 are
supplied in a cardboard
dispenser with a cutting edge.



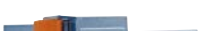



Economy abrasive cloth rolls Standard Corundum

Suitable for removing milling, turning and erosion structures. Good as preparation before processing with grinding stones and diamond compound.


	Width	Grit size	Order No.	Price from	
				1 piece	3 pieces
Standard economy abrasive cloth rolls, Starcke 641 PF, corundum, 50 m					
	25 mm	80	0 401 403-1	32.80 €	30.60 €
		150	0 401 405-1	31.25 €	29.05 €
		180	0 401 406-1	31.25 €	29.05 €
		240	0 401 407-1	31.25 €	29.05 €
		320	0 401 408-1	31.25 €	29.05 €
		400	0 401 409-1	31.25 €	29.05 €
	50 mm	80	0 401 413	43.90 €	41.10 €
		120	0 401 414	41.95 €	39.25 €
		150	0 401 415	41.95 €	39.25 €
		180	0 401 416	41.95 €	39.25 €
		240	0 401 417	41.95 €	39.25 €
		320	0 401 418	41.95 €	39.25 €
		400	0 401 419	41.95 €	39.25 €

Abrasive strip holder for Microgrinding strips and Poly-Strip

For processing narrow edges and tight slots with the Poly-Strip grinding strips. Use by hand and also in hand-filing machines.

	Dimensions	Shank dimensions	Order No.	Price from
				1 piece
Holder for Poly-Strip abrasive strips				
	6 x 1 x 26 mm	Ø 3.5 x 50 mm	0 401 551	57.10 €
	10 x 1 x 26 mm	Ø 3.5 x 50 mm	0 401 552	60.90 €
	15 x 1 x 26 mm	Ø 3.5 x 50 mm	0 401 553	64.40 €
	6 x 1 x 50 mm	Ø 3.5 x 50 mm	0 401 556	59.55 €
	10 x 1 x 50 mm	Ø 3.5 x 50 mm	0 401 557	69.65 €
	15 x 1 x 50 mm	Ø 3.5 x 50 mm	0 401 558	73.35 €

 *matching set*

	Order No.	Price from
		1 set
Poly-Strip abrasive strip holder set 2		
 contains one Poly-Strip abrasive strip holder in 50 mm length each	0 401 555	206.00 €

Abrasive strips

Poly-Strip


Poly-Strip abrasive strips

This tried and trusted system always provides the right abrasive strip in the desired width and grit size. Simply pull out the required length and tear - hey presto! A tear-off edge dispenses with tedious cutting with scissors. As soon as the end of a strip is reached, the new abrasive strip can be easily inserted in the cartridge.

	Order No.	Price from 1 piece
Poly-Strip abrasive strips, cassette of 6		
containing 1 abrasive strip roll each 15 mm, roll length 25 m in grit size 150, 180, 240, 320, 400, 600	0 401 501	238.00 €




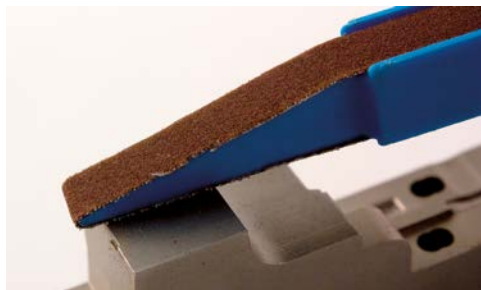
Accessories / spare parts

	Width	Grit size	Order No.	Price from 1 piece		
Spare Poly-Strip abrasive strip roll, 25 m						
	15 mm	150	0 401 531	10.55 €		
		180	0 401 532	10.55 €		
		240	0 401 533	10.55 €		
		320	0 401 534	9.20 €		
		400	0 401 535	9.20 €		
		600	0 401 536	9.20 €		
	6 mm	150	0 401 511	8.05 €		
		180	0 401 512	8.05 €		
		240	0 401 513	8.05 €		
		320	0 401 514	7.10 €		
		400	0 401 515	7.10 €		
		600	0 401 516	7.10 €		
		800	0 401 517	8.05 €		
		1000	0 401 518	8.05 €		
		1200	0 401 519	8.05 €		
			10 mm	150	0 401 521	8.05 €
				180	0 401 522	8.05 €
				240	0 401 523	8.05 €
320	0 401 524			7.10 €		
400	0 401 525			7.10 €		
600	0 401 526			7.10 €		
800	0 401 527			7.10 €		
1000	0 401 528			7.10 €		
		1200	0 401 529	8.05 €		

Abrasive bands and Gesswein®-Holder

These abrasive bands and their holders are a must for every professional workplace. They are tightened by means of the built-in spring and offer absolutely secure adhesion to the holder. The holder itself is made from impact-proof polypropylene and is therefore suitable even for the toughest of applications.

Dimensions	Grit size	Packing quantity	Order No.	Price from 1 pack
Abrasive bands for Gesswein® Holder				
 7 x 330 mm	120	10 pieces	0 401 460	10.45 €
	240	10 pieces	0 401 461	10.45 €
	320	10 pieces	0 401 462	10.45 €
	400	10 pieces	0 401 463	10.45 €
	600	10 pieces	0 401 464	10.45 €
13 x 420 mm	120	10 pieces	0 401 465	13.30 €
	240	10 pieces	0 401 466	13.30 €
	320	10 pieces	0 401 467	13.30 €
	400	10 pieces	0 401 426	13.30 €
	600	10 pieces	0 401 428	13.30 €
19 x 508 mm	120	10 pieces	0 401 468	14.85 €
	240	10 pieces	0 401 469	14.85 €
	320	10 pieces	0 401 470	14.85 €
	400	10 pieces	0 401 427	14.85 €
	600	10 pieces	0 401 429	14.85 €




No mix-ups possible

In order to avoid mix-ups, we recommend a separate holder colour for each grit size.

For example:

K 120	Red
K 240	Blue
K 320	Green
K 400	Yellow
K 600	Black









⚙️ Accessories / spare parts

Dimensions	Colour	Order No.	Price from 1 piece
Abrasive band holder			
 7 mm	red	0 401 439	2.41 €
	blue	0 401 440	2.41 €
	green	0 401 441	2.41 €
	yellow	0 401 442	2.41 €
	black	0 401 443	2.41 €
13 mm	red	0 401 444	4.26 €
	blue	0 401 445	4.26 €
	green	0 401 446	4.26 €
	yellow	0 401 422	4.26 €
	black	0 401 423	4.26 €
19 mm	red	0 401 447	5.90 €
	blue	0 401 448	5.90 €
	green	0 401 449	5.90 €
	yellow	0 401 424	6.80 €
	black	0 401 425	6.80 €



2 Micro grinding strip holders and strips

The microfinishing grinding strip holders and strips are the ideal tool for use in the metal, wood and jewellery industries as well as in all areas of very fine finishing. The holder has 3 geometrically different working areas (surface, tip, radius), which make it the ideal tool for finishing. The integrated spring ensures good pretensioning and easy changing of the strips. The individual holders are supplied with a microgrinding strip; spare strips in 8 different grit sizes in packs of 10 pieces each; 3 different sets are also available.




	Dimensions	Grit size	Colour	Order No.	Price from 1 piece
Micro grinding strip holders and grinding strips, 160 x 6 mm					
	160 x 6 mm	Grit 220 / 60 µm	black	0 415 000	4.28 €
		Grit 270 / 50 µm	grey	0 415 001	4.28 €
		Grit 320 / 40 µm	red	0 415 002	4.28 €
		Grit 320 / 40 µm	green	0 415 003	4.28 €
		Grit 600 / 15 µm	orange	0 415 004	4.28 €
		Grit 800 / 14 µm	yellow	0 415 005	4.28 €
		Grit 1000 / 12 µm	white	0 415 006	4.28 €
		Grit 1200 / 9 µm	blue	0 415 007	4.28 €

Accessories / spare parts

	Grit size	Packing quantity	Order No.	Price from		
				1 pack	3 packs	5 packs
Micro replacement grinding strips						
	Grit 220 / 60 µm	10 pieces	0 415 010	14.85 €	12.70 €	10.65 €
	Grit 270 / 50 µm	10 pieces	0 415 011	14.85 €	12.70 €	10.65 €
	Grit 320 / 40 µm	10 pieces	0 415 012	14.85 €	12.70 €	10.65 €
	Grit 400 / 30 µm	10 pieces	0 415 013	14.85 €	12.70 €	10.65 €
	Grit 600 / 15 µm	10 pieces	0 415 014	14.85 €	12.70 €	10.65 €
	Grit 800 / 14 µm	10 pieces	0 415 015	14.85 €	12.70 €	10.65 €
	Grit 1000 / 12 µm	10 pieces	0 415 016	14.85 €	12.70 €	10.65 €
	Grit 1200 / 9 µm	10 pieces	0 415 017	14.85 €	12.70 €	10.65 €

Micro grinding strip holders and strips

↓ matching set

	Order No.	Price from		
		1 set	3 set	5 set
 <p>Contents: 24-piece, 4 holders incl. grinding strip (grit size 220, 270, 320, 400), 16 replacement strips (4 x grit size 220, 270, 320, 400 each)</p>	0 415 020	38.75 €	33.70 €	32.55 €
 <p>Contents: 24-piece, 4 holders incl. grinding strip (grit size 600, 800, 1000, 1200), 16 replacement strips (4 x grit size 600, 800, 1000, 1200 each)</p>	0 415 021	38.75 €	33.70 €	32.55 €
 <p>8 holders incl. grinding strip (grit size 220, 270, 320, 400, 600, 800, 1000, 1200)</p>	0 415 022	30.70 €	27.65 €	26.70 €



Diamond tools for ultrasonic processing galvanic bonding

Diamond tools, galvanic bonding

These tools are particularly suitable for removing the hard layers caused by erosion machines, for deburring, polishing and lapping and optimally for finishing hard-to-reach corners, slits and joints. By adapting toolholders suitable for all commercial ultrasonic, lapping and polishing systems.

	Coating dimensions	Length	Grit size	Thread	Order No.	Price from 1 piece
Diamond tools for ultrasonic processing						
flat						
	4 x 1 x 15 mm	44 mm	200	M6/fine	0 006 450	43,90 €
		44 mm	320	M6/fine	0 006 451	43,90 €
		44 mm	600	M6/fine	0 006 452	43,90 €
		37 mm	200	M4	0 405 782	53,55 €
		37 mm	320	M4	0 405 794	53,55 €
		37 mm	600	M4	0 405 795	53,55 €
	5 x 1 x 40 mm	137 mm	320	M6/fine	0 006 454	51,30 €
		137 mm	600	M6/fine	0 006 455	51,30 €
flat / conical						
	4 x 0.4/0.8 x 15 mm	44 mm	200	M4	0 405 783	53,55 €
		44 mm	320	M4	0 405 815	53,55 €
		50 mm	200	M6/fine	0 006 456	43,90 €
		50 mm	320	M6/fine	0 006 457	43,90 €
		50 mm	600	M6/fine	0 006 458	43,90 €
round/pointed						
	Ø 3 x 15 mm	34 mm	200	M4	0 405 786	54,65 €
		34 mm	320	M4	0 405 787	54,65 €

Diamond tools for ultrasonic processing metal bonding – sintered

	Coating dimensions	Length	Grit size	Thread	Order No.	Price from 1 piece
Diamond tools for ultrasonic processing, metal bonding – sintered						
flat						
	3 x 1 x 15 mm	41 mm	200	M4	0 405 839	65,10 €
		41 mm	320	M4	0 405 840	65,10 €
	5 x 1 x 10 mm	41 mm	200	M4	0 405 847	71,25 €
		41 mm	320	M4	0 405 848	71,65 €
	6 x 1.5 x 25 mm	34 mm	200	M4	0 405 796	72,10 €
		34 mm	320	M4	0 405 797	72,50 €

Ruby stones

Ruby stones

Using our tried and trusted joke FD ruby stones on page 217, you can easily build yourself an ultrasonic tool for very fine deburring work.

In order to do this, simply cut the stones to your desired dimensions and clamp them in the appropriate tool holder (see page 243).




Ruby stones allow you very "soft" work, but nevertheless create sharp edges. Shaping is very readily possible using diamond tools.



You can find the components here:

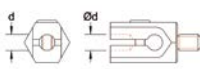
- Ruby stones joke FD page 217
- Tool holder page 312 – 313

Wooden and brass polishing sticks

	Material	Shape	Dimensions	Packing quantity	Order No.	Price from 1 pack
Wooden and brass polishing sticks						
	hard beech wood	round / cylinder	Ø 3 x 40 mm	10 piece	0 006 611	39,70 €
	hard beech wood	flat	6 x 3 x 40 mm	10 piece	0 006 612	39,70 €
	brass	round / cylinder	Ø 3 x 40 mm	5 piece	0 006 614	14,55 €

2 Tool holder for ultrasonic tools for round and flat tools

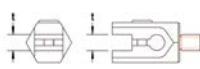
Tool holder for receiving round ultrasonic tools, such as polishing sticks or ceramic-fibre files.

Zeichnung	Tool support	Profile	Thread	Order No.	Price from 1 piece
Tool holder for receiving round tools					
	d = Ø 2 mm	round	M6/fine	0 006 305	29,15 €
	d = Ø 3 mm	squared	M6/fine	0 006 306-E	31,40 €
	d = Ø 2 mm	round	M4	0 405 740	29,85 €
	d = Ø 3 mm	round	M4	0 405 746	29,85 €
	d = Ø 2 mm	round	M6	0 405 750	22,35 €
	d = Ø 3 mm	round	M6	0 405 751	22,35 €
	d = Ø 2 mm	squared	M6 x 0.75	0 405 761	29,85 €
	d = Ø 3 mm	squared	M6 x 0.75	0 405 762	29,85 €



Tool holder for ultrasonic tools for round and flat tools

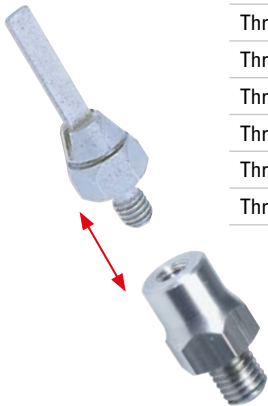
These holders provide a firm grip for all flat ultrasonic tools, such as ceramic-fibre files or brass sticks.

Zeichnung	Tool support	Profile	Thread	Order No.	Price from 1 piece
Tool holder for receiving flat tools					
	t = 0.5 mm	squared	M4	0 405 742	29,85 €
	t = 1 mm	squared	M4	0 405 743	29,85 €
	t = 2 mm	squared	M4	0 405 744	29,85 €
	t = 3 mm	squared	M4	0 405 745	29,85 €
	t = 0.5 mm	squared	M6	0 405 752	29,55 €
	t = 1 mm	squared	M6	0 405 753	22,35 €
	t = 2 mm	squared	M6	0 405 754	29,55 €
	t = 3 mm	squared	M6	0 405 755	29,55 €
	t = 0.5 mm	squared	M6 x 0,75	0 405 764	29,85 €
	t = 0.8 mm	squared	M6 x 0,75	0 405 765	29,85 €
	t = 1 mm	squared	M6 x 0,75	0 405 766	29,85 €
	t = 2 mm	squared	M6 x 0,75	0 405 767	29,85 €
	t = 3 mm	squared	M6 x 0,75	0 405 768	29,85 €
	t = 0.5 mm	squared	M6/fine	0 006 308	39,40 €
	t = 0.8 mm	squared	M6/fine	0 006 309	29,15 €
	t = 1 mm	round	M6/fine	0 006 310	29,15 €
	t = 1 mm	squared	M6/fine	0 006 310-E	29,15 €
	t = 2 mm	squared	M6/fine	0 006 311	29,15 €
	t = 3 mm	squared	M6/fine	0 006 312	29,15 €

Adapters for receiving ultrasonic tools

These adapters let you use virtually all ultrasonic tools on the different systems. Find out which threads the individual systems have in the information box below.

Tool support	Design	Thread	Order No.	Price from 1 piece
Adapters for receiving ultrasonic tools				
Thread M4	squared	M6	0 405 757	22,90 €
Thread M6/fine	squared	M6	0 405 758	19,60 €
Thread M4		M6 x 0.75	0 405 769	28,55 €
Thread M6/fine		M6 x 0.75	0 405 770	19,60 €
Thread M4		M8 x 1	0 405 780	15,90 €
Thread M6/fine		M8 x 1	0 405 781	15,90 €
Thread M4		M6/fine	0 006 900	18,25 €



Overview of thread designs of common ultrasonic polishing systems

M 4	e. g. Ultramax UM 2000, Sonofile SF 1000
M 6	e. g. joke 226, UC 550, Roya
M 6/fine (M 6 x 0,9)	ENESKAsonic, ENESKA 2-1
M 6 x 0,75	e. g. Ultramax DF and SF, Ultraform UF 5600 and 2600, Sonotec SF-5600 and SF 2600
M 8 x 1	e. g. Laptron, Ultramax UM 1200