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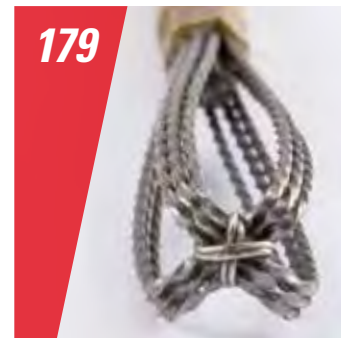
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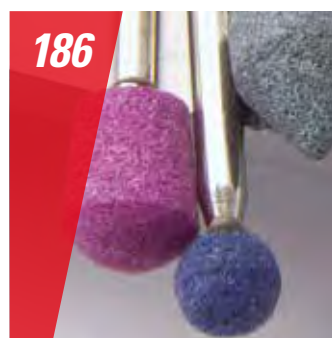
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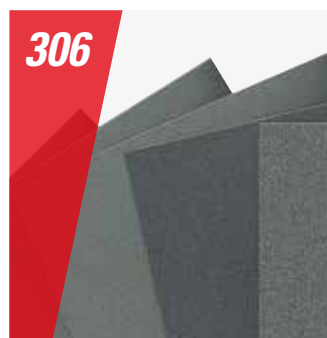
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# Grinding and polishing tools

## Basic principles

### Finest working processes in tool and mould making

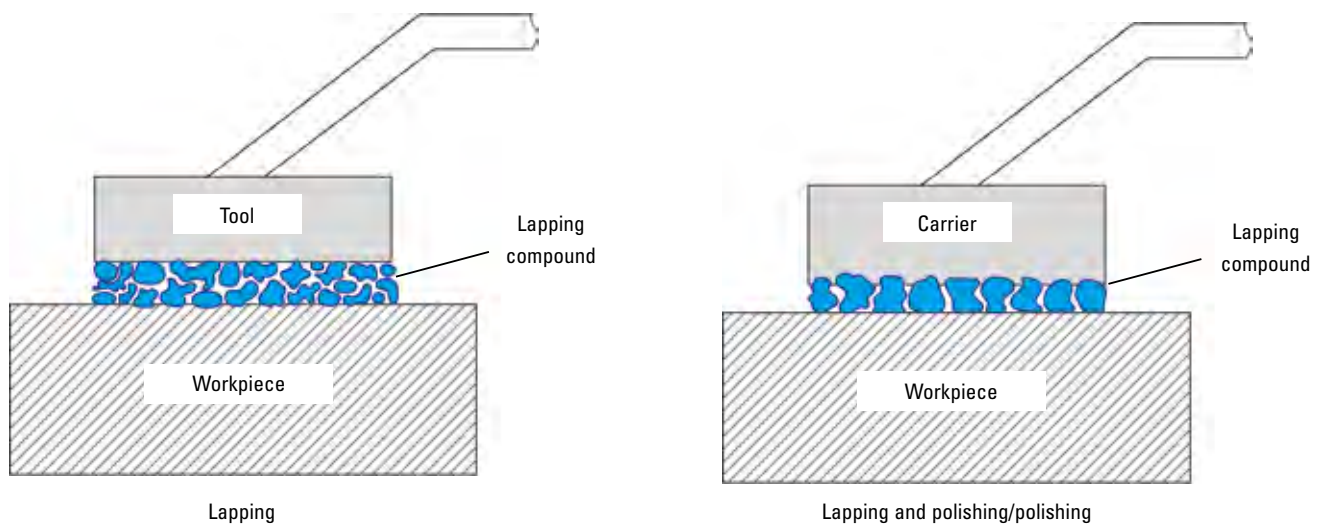
The border between grinding and polishing is not clear-cut and a clear distinction often difficult. Generally, three processes for the fine processing of surfaces can be identified: polishing, lapping and polishing/lapping, all of which are chipping processes with loose grit. These achieve the best roughness values (see page 104).

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
<b>Manual grinding</b>	Chipping process with firmly bound grit	Directional movement, material is chipped by bound grit	Directional surface
<b>Polishing</b>	Chipping process with loose grit	Directional or undirectional, grit "embedded" in polishing cloth or felt	High-gloss surface
<b>Lapping</b>		Undirectional crossing movement, rolling grain	Matt surface
<b>Lapping and polishing</b>		Directional or undirectional movement, grit penetrates carrier	Shiny surface
<b>Basic principles that should be adhered to:</b> <ul style="list-style-type: none"> <li>• Always from coarse to fine</li> <li>• Clean workpiece thoroughly after each grit change</li> <li>• Change lapping or polishing medium carrier when changing grit</li> </ul>			

# 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

# 2 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.

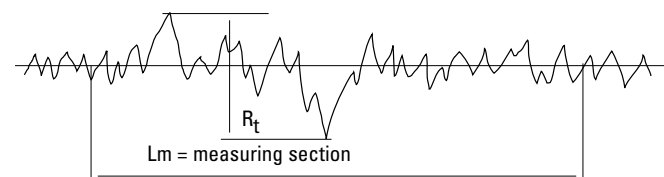
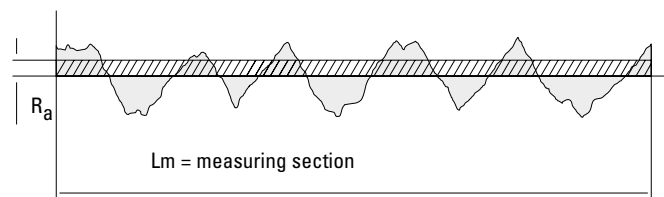
### Surface roughness in mould building

#### $R_a$

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

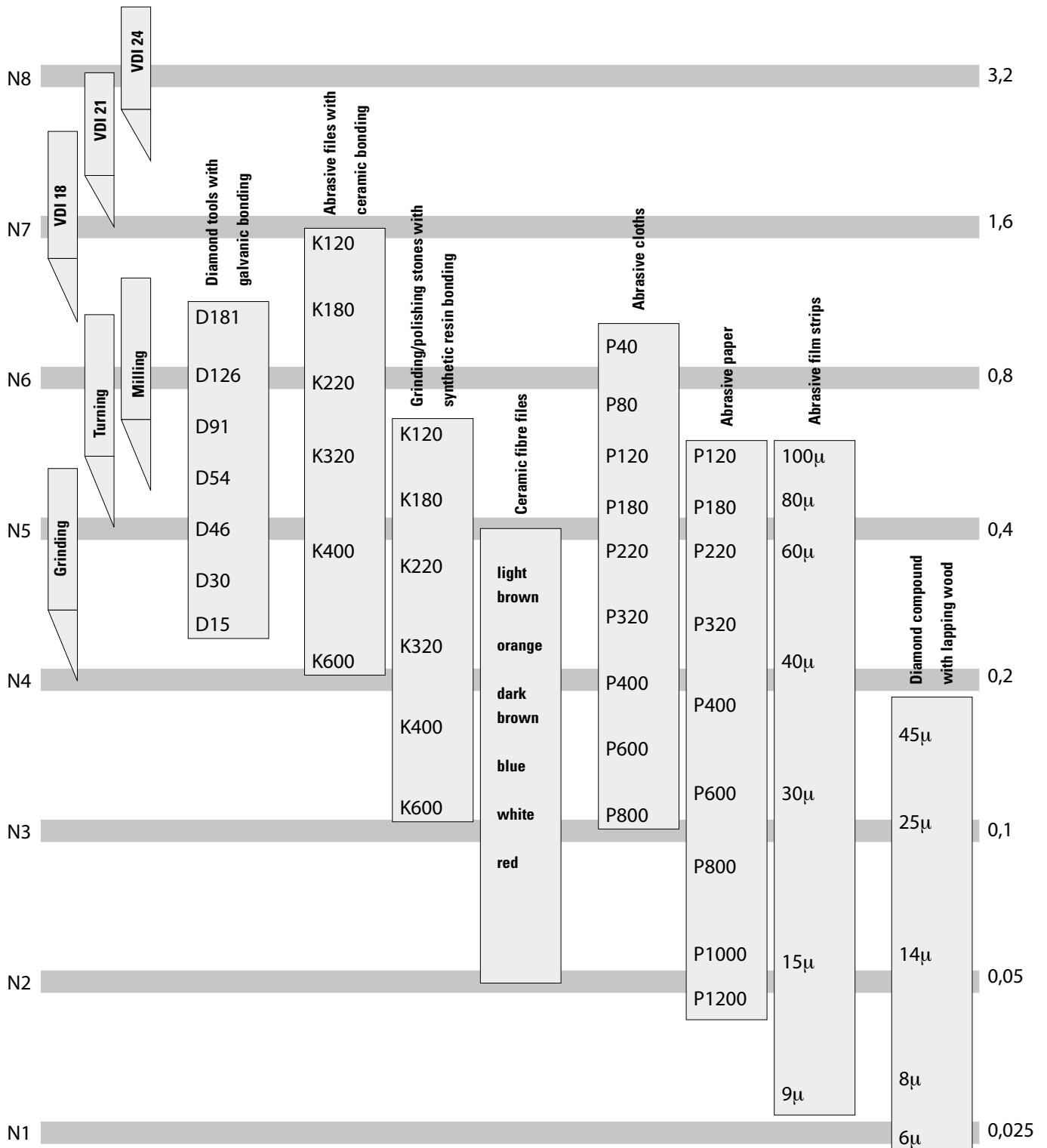
The roughness classes according to DIN/ISO 1302 are indicated as  $R_a$  values. The  $R_t$  values listed in the table are estimated values that are not contained in the standard. The ratio  $R_a:R_t$  corresponds to approx. 1:8 to 1:12 during manual working. As a result of the evenness of manual working 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 $R_a$ ( $\mu\text{m}$ )	Roughness value $R_{\text{max}}$ ( $\mu\text{m}$ )
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...

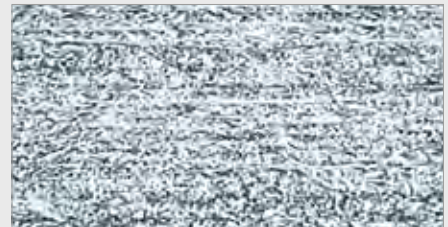
...see for yourself what joke Magic can do. It's time to switch!

### joke Magic



**Steel**  
Totally even surface

### Standard



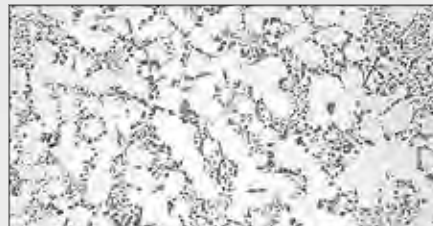
**Steel**  
Uneven surface causes later blotching



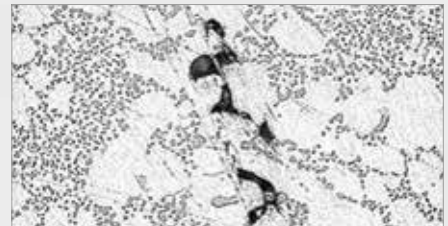
**Steel**  
Polishing without breakouts



**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
<b>Diamond compounds joke Magic, oil and alcohol soluble</b>							
10 g	0.25 µm	extra high	grey	<b>0 590 109</b>			
	1 µm	extra high	blue	<b>0 590 101</b>			
	3 µm	extra high	green	<b>0 590 102</b>			
	6 µm	extra high	yellow	<b>0 590 103</b>			
	9 µm	extra high	red	<b>0 590 104</b>			
	14 µm	extra high	brown	<b>0 590 105</b>			
	25 µm	extra high	mahagony	<b>0 590 106</b>			
	45 µm	extra high	purple	<b>0 590 107</b>			
	70 µm	extra high	burgundy	<b>0 590 108</b>			
	20 g	0.25 µm	high	grey	<b>0 590 300</b>		
1 µm		high	blue	<b>0 590 301</b>			
3 µm		high	green	<b>0 590 302</b>			
6 µm		high	yellow	<b>0 590 303</b>			
9 µm		high	red	<b>0 590 304</b>			
14 µm		high	brown	<b>0 590 305</b>			
25 µm		high	mahagony	<b>0 590 306</b>			
45 µm		high	purple	<b>0 590 307</b>			
70 µm		high	burgundy	<b>0 590 308</b>			
0.25 µm		extra high	grey	<b>0 590 200</b>			
1 µm		extra high	blue	<b>0 590 201</b>			
3 µm		extra high	green	<b>0 590 202</b>			
6 µm		extra high	yellow	<b>0 590 203</b>			
9 µm		extra high	red	<b>0 590 204</b>			
14 µm		extra high	brown	<b>0 590 205</b>			
25 µm		extra high	mahagony	<b>0 590 206</b>			
45 µm		extra high	purple	<b>0 590 207</b>			
70 µm		extra high	burgundy	<b>0 590 208</b>			



### 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 Eco-Star the coloured **NEW!**


This diamond compound has been produced for all users who would like to work with a coloured compound. The compound is universally soluble and is recommended as a good alternative to other coloured diamond compounds owing to high stock removal and production of a good shine. Very good for wiping with polishing wool!

Content	Grit size	Concentration	Colour	Order No.	Price from		
					1 piece	3 pieces	6 pieces
<b>Diamond compounds joke Eco-Star, the coloured</b>							
20 g	0.25 µm	extra high	grey	<b>0 590 870</b>			
	1 µm	extra high	blue	<b>0 590 871</b>			
	3 µm	extra high	green	<b>0 590 872</b>			
	6 µm	extra high	yellow	<b>0 590 873</b>			
	9 µm	extra high	red	<b>0 590 874</b>			
	15 µm	extra high	brown	<b>0 590 875</b>			
	25 µm	extra high	mahagony	<b>0 590 876</b>			
	45 µm	extra high	purple	<b>0 590 877</b>			




## 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
<b>joke Magic ALU diamond compound, water and alcohol soluble</b>								
	10 g	1 µm	extra high	blue	<b>0 591 101</b>			
		3 µm	extra high	green	<b>0 591 102</b>			
		6 µm	extra high	yellow	<b>0 591 103</b>			
		9 µm	extra high	red	<b>0 591 104</b>			
		14 µm	extra high	brown	<b>0 591 105</b>			


## Diamond compounds joke Magic FAS the polycrystalline

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
<b>joke Magic FAS diamond compounds, the polycrystalline</b>								
	10 g	0.25 µm	extra high	grey	<b>0 590 820</b>			
		1 µm	extra high	blue	<b>0 590 821</b>			
		3 µm	extra high	green	<b>0 590 822</b>			
		6 µm	extra high	yellow	<b>0 590 823</b>			
		9 µm	extra high	red	<b>0 590 824</b>			
		15 µm	extra high	brown	<b>0 590 825</b>			
		25 µm	extra high	mahagony	<b>0 590 826</b>			


## Diamond compounds joke Magic US universally soluble

Can be mixed with water, oil or alcohol. Very smooth, very easy to clean.

	Content	Grit size	Concentration	Colour	Order No.	Price from		
						1 piece	3 pieces	6 pieces
<b>joke Magic US diamond compound, universally soluble</b>								
	10 g	1 µm	extra high	blue	<b>0 590 351</b>			
		3 µm	extra high	green	<b>0 590 352</b>			
		6 µm	extra high	yellow	<b>0 590 353</b>			
		9 µm	extra high	red	<b>0 590 354</b>			
		14 µm	extra high	brown	<b>0 590 355</b>			
		25 µm	extra high	mahagony	<b>0 590 356</b>			
		45 µm	extra high	purple	<b>0 590 357</b>			
		70 µm	extra high	burgundy	<b>0 590 358</b>			
		90 µm	extra high	grey	<b>0 590 359</b>			


## 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
<b>joke Magic WS diamond compound, water and alcohol soluble</b>								
	10 g	1 µm	extra high	blue	<b>0 590 701</b>			
		3 µm	extra high	green	<b>0 590 702</b>			
		6 µm	extra high	yellow	<b>0 590 703</b>			
		9 µm	extra high	red	<b>0 590 704</b>			
		14 µm	extra high	brown	<b>0 590 705</b>			
		25 µm	extra high	mahagony	<b>0 590 706</b>			
		45 µm	extra high	purple	<b>0 590 707</b>			
		70 µm	extra high	burgundy	<b>0 590 708</b>			
		90 µm	extra high	grey	<b>0 590 709</b>			

## 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
<b>Diamond spray joke Magic, alcohol soluble</b>				
	200 ml	1 µm	<b>0 590 910</b>	
		3 µm	<b>0 590 913</b>	
		6 µm	<b>0 590 914</b>	
		9 µm	<b>0 590 915</b>	
		15 µm	<b>0 590 916</b>	

## Diamond fluids joke Magic

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

	Content	Order No.	Price from
			1 piece
<b>Diamond fluid joke Magic, oil soluble</b>			
	0.5 l	<b>0 590 451</b>	
	2.5 l	<b>0 590 451-1</b>	
	10 l	<b>0 590 452</b>	

## Diamond fluid joke Magic ALU

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

Content	Order No.	Price from 1 piece
<b>Diamond fluid joke Magic ALU, water and alcohol soluble</b>		
500 ml	<b>0 591 451</b>	



### ⚙️ Accessories / spare parts



	Order No.	Price from 1 piece
<b>Dosing bottle with pipette, oilproof, 30 ml</b>		
	<b>0 590 491-1</b>	



## 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
<b>Super-fine diamond plastic polishing medium joke Magic</b>				
 specially developed for polishing plastics. Use with polishing cloth Magic SHINE.	50 ml	1 µm	<b>0 590 901</b>	
	500 ml	1 µm	<b>0 590 902</b>	
	50 ml	3 µm	<b>0 590 903</b>	
	50 ml	6 µm	<b>0 590 904</b>	
<b>Super-fine diamond polishing suspension joke Magic</b>				
 water soluble and alcohol soluble, with anti-corrosion power. For the final, brilliant mirror finish.	500 ml	1 µm	<b>0 591 401</b>	
	500 ml	3 µm	<b>0 590 401</b>	
	500 ml	6 µm	<b>0 591 402</b>	

# 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 errorfree.

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

### Accessories / spare parts

	Dimensions	Order No.	Price from 1 piece
<b>Ball-ended rod for Magic STONES, length 80 mm</b>			
	80 mm	<b>0 590 753</b>	
<b>Ball-ended rod for Magic STONES, length 140 mm</b>			
	140 mm	<b>0 590 752</b>	

## 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
<b>Polishing cloths Kleenex</b>						
	3-ply	72 cloths	white	20 x 20 cm	<b>0 590 602</b>	






## 2 Polishing cloths self-adhesive

### 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.

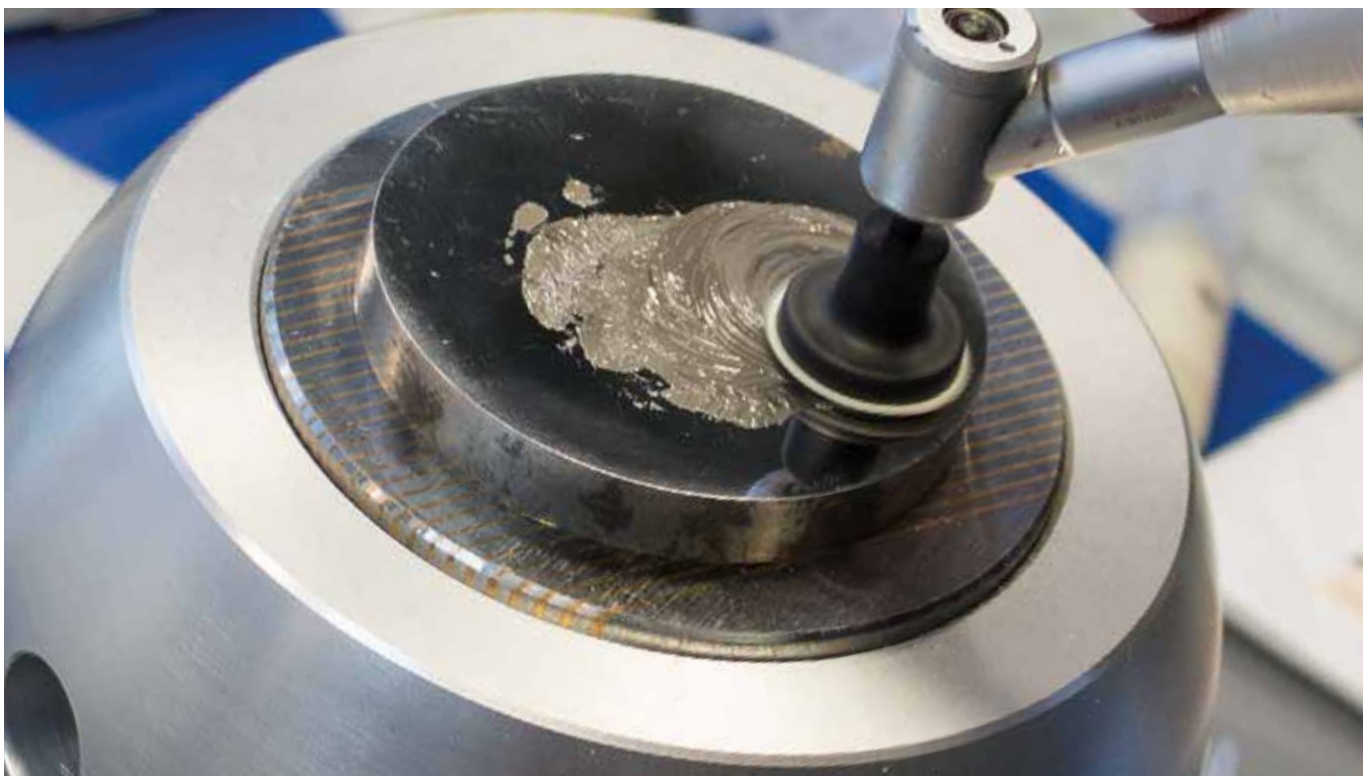
		Shape	Dimensions	Design	Type	Packing quantity	Order No.	Price from 1 pack
<b>Polishing cloths joke Magic, self-adhesive</b>								
	Magic JOKER (synthetic fibre cloth) for diamond compound grit sizes 6 to 3 µm	round	Ø 20 x 1 mm	self-adhesive	Magic JOKER	50 pieces	<b>0 591 501</b>	
		round	Ø 32 x 1 mm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

### Accessories / spare parts

	Dimensions	Shank dimensions	Type	Suitable abrasive discs	Packing quantity	Order No.	Price from 1 piece	1 pack	5 pieces	10 pieces
<b>Toggle rod for tool carrier, length 140 mm</b>										
		Ø 3 mm				<b>0 411 008</b>				
<b>Supports for felts and cloths</b>										
	9 x 11.5				10 pieces	<b>0 411 009-2</b>				
<b>Rubber holder ROTAFLEX</b>										
	Ø 10 mm	Ø 3 x 26 mm	RK 0	R 0		<b>0 544 101</b>				
	Ø 18 mm	Ø 3 x 26 mm	RK 1	R 1		<b>0 544 103</b>				
	Ø 30 mm	Ø 3 x 26 mm	RK 2	R 2		<b>0 544 104</b>				

## Polishing cloths self-adhesive

	Shape	Dimensions	Design	Type	Packing quantity	Order No.	Price from	
							1 pack	5 packs
<b>Standard polishing cloths, self-adhesive</b>								
	Type 450 for diamond compound grit sizes 6 to 3 µm	round	Ø 12 x 0.8 mm	self-adhesive	450	10 pieces	<b>0 543 311</b>	
		round	Ø 20 x 0.8 mm	self-adhesive	450	10 pieces	<b>0 543 312</b>	
		round	Ø 33 x 0.8 mm	self-adhesive	450	10 pieces	<b>0 543 313</b>	
		round	Ø 50 x 0.8 mm	self-adhesive	450	10 pieces	<b>0 543 314</b>	
		round	Ø 78 x 0.8 mm	self-adhesive	450	10 pieces	<b>0 543 316</b>	
	Type 432 for diamond compound grit sizes 3 to 1/4 µm	round	Ø 12 x 1.0 mm	self-adhesive	432	10 pieces	<b>0 543 301</b>	
		round	Ø 20 x 1.0 mm	self-adhesive	432	10 pieces	<b>0 543 302</b>	
		round	Ø 33 x 1.0 mm	self-adhesive	432	10 pieces	<b>0 543 303</b>	
		round	Ø 50 x 1.0 mm	self-adhesive	432	10 pieces	<b>0 543 304</b>	
		round	Ø 78 x 1.0 mm	self-adhesive	432	10 pieces	<b>0 543 306</b>	





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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

<b>F - Versatile compound</b>	The widest and most varied range of concentrations.
<b>S - Economy compound</b>	Developed for simple, cost-effective jobs.
<b>W - Eco-compound</b>	Water-based W compound developed for environment-friendly and oil-sensitive tasks.
<b>OS - Oil-soluble compound</b>	The ideal compound for high stock removal requirements.
<b>L - for hard cases</b>	Especially for working on tungsten carbide, ceramics and hardened steel.
<b>Super-L - finishing compound</b>	Finest grits for finishing hardened steels and ceramics.
<b>C11 - Stabilised compound</b>	The best compound for direct use on hot moulds or upright walls. Special host material providing optimum tool adhesion.
<b>SC-HT</b>	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
<b>Diamond compounds Hyprez® F, oil and water soluble</b>								
 5 g	0.10 µm	high	grey	1/10-F 2	<b>0 580 002</b>			
	0.25 µm	high	grey	1/4-F 2	<b>0 580 004</b>			
	1 µm	low	blue	1-F 1	<b>0 580 005</b>			
	1 µm	high	blue	1-F 3	<b>0 580 006</b>			
	1 µm	extra high	blue	1-F 4	<b>0 580 007</b>			
	3 µm	medium	green	3-F 3	<b>0 580 009</b>			
	3 µm	high	green	3-F 4	<b>0 580 010</b>			
	3 µm	extra high	green	3-F 6	<b>0 580 011</b>			
	6 µm	medium	yellow	6-F 4	<b>0 580 012</b>			
	6 µm	high	yellow	6-F 5	<b>0 580 013</b>			
	6 µm	extra high	yellow	6-F 7	<b>0 580 014</b>			
	8 µm	medium	red	8-F 6	<b>0 580 015</b>			
	8 µm	high	red	8-F 8	<b>0 580 016</b>			
	14 µm	medium	brown	14-F 6	<b>0 580 018</b>			
	14 µm	high	brown	14-F 8	<b>0 580 019</b>			
	14 µm	extra high	brown	14-F 9	<b>0 580 020</b>			
	25 µm	medium	mahogany	25-F 6	<b>0 580 021</b>			
	25 µm	high	mahogany	25-F 8	<b>0 580 022</b>			
	45 µm	medium	purple	45-F 6	<b>0 580 024</b>			
	45 µm	high	purple	45-F 8	<b>0 580 025</b>			
60 µm	extra high	orange	60-F 9	<b>0 580 027</b>				
 10 g	0.10 µm	high	grey	1/10-F 2	<b>0 580 032</b>			
	0.25 µm	high	grey	1/4-F 2	<b>0 580 034</b>			
	1 µm	low	blue	1-F 1	<b>0 580 035</b>			
	1 µm	high	blue	1-F 3	<b>0 580 036</b>			
	1 µm	extra high	blue	1-F 4	<b>0 580 037</b>			
	3 µm	medium	green	3-F 3	<b>0 580 039</b>			
	3 µm	high	green	3-F 4	<b>0 580 040</b>			
	3 µm	extra high	green	3-F 6	<b>0 580 041</b>			
	6 µm	medium	yellow	6-F 4	<b>0 580 042</b>			
	6 µm	high	yellow	6-F 5	<b>0 580 043</b>			
	6 µm	extra high	yellow	6-F 7	<b>0 580 044</b>			
	8 µm	medium	red	8-F 6	<b>0 580 045</b>			
	8 µm	high	red	8-F 8	<b>0 580 046</b>			
	14 µm	medium	brown	14-F 6	<b>0 580 048</b>			
	14 µm	high	brown	14-F 8	<b>0 580 049</b>			
	14 µm	extra high	brown	14-F 9	<b>0 580 050</b>			
	25 µm	medium	mahogany	25-F 6	<b>0 580 051</b>			
	25 µm	high	mahogany	25-F 8	<b>0 580 052</b>			
	45 µm	medium	purple	45-F 6	<b>0 580 054</b>			
	45 µm	high	purple	45-F 8	<b>0 580 055</b>			
60 µm	extra high	orange	60-F 9	<b>0 580 057</b>				

## 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
<b>Diamond compounds Hyprez® OS, oil soluble</b>								
5 g	1 µm	high	blue	1-OS 3	<b>0 580 206</b>			
	1 µm	extra high	blue	1-OS 4	<b>0 580 207</b>			
	3 µm	medium	green	3-OS 3	<b>0 580 209</b>			
	3 µm	high	green	3-OS 4	<b>0 580 210</b>			
	3 µm	extra high	green	3-OS 6	<b>0 580 211</b>			
	6 µm	medium	yellow	6-OS 4	<b>0 580 212</b>			
	6 µm	high	yellow	6-OS 5	<b>0 580 213</b>			
	6 µm	extra high	yellow	6-OS 7	<b>0 580 214</b>			
	8 µm	medium	red	8-OS 6	<b>0 580 215</b>			
	8 µm	high	red	8-OS 8	<b>0 580 216</b>			
	8 µm	extra high	red	8-OS 9	<b>0 580 217</b>			
	14 µm	medium	brown	14-OS 6	<b>0 580 218</b>			
	14 µm	high	brown	14-OS 8	<b>0 580 219</b>			
	14 µm	extra high	brown	14-OS 9	<b>0 580 220</b>			
	25 µm	medium	mahogany	25-OS 6	<b>0 580 221</b>			
	25 µm	high	mahogany	25-OS 8	<b>0 580 222</b>			
	25 µm	extra high	mahogany	25-OS 9	<b>0 580 223</b>			
	45 µm	medium	purple	45-OS 6	<b>0 580 224</b>			
	45 µm	extra high	purple	45-OS 9	<b>0 580 226</b>			
	10 g	1 µm	high	blue	1-OS 3	<b>0 580 236</b>		
1 µm		extra high	blue	1-OS 4	<b>0 580 237</b>			
3 µm		medium	green	3-OS 3	<b>0 580 239</b>			
3 µm		high	green	3-OS 4	<b>0 580 240</b>			
3 µm		extra high	green	3-OS 6	<b>0 580 241</b>			
6 µm		medium	yellow	6-OS 4	<b>0 580 242</b>			
6 µm		high	yellow	6-OS 5	<b>0 580 243</b>			
6 µm		extra high	yellow	6-OS 7	<b>0 580 244</b>			
8 µm		medium	red	8-OS 6	<b>0 580 245</b>			
8 µm		high	red	8-OS 8	<b>0 580 246</b>			
8 µm		extra high	red	8-OS 9	<b>0 580 247</b>			
14 µm		medium	brown	14-OS 6	<b>0 580 248</b>			
14 µm		high	brown	14-OS 8	<b>0 580 249</b>			
14 µm		extra high	brown	14-OS 9	<b>0 580 250</b>			
25 µm		medium	mahogany	25-OS 6	<b>0 580 251</b>			
25 µm		high	mahogany	25-OS 8	<b>0 580 252</b>			
25 µm		extra high	mahogany	25-OS 9	<b>0 580 253</b>			
45 µm		medium	purple	45-OS 6	<b>0 580 254</b>			
45 µm		extra high	purple	45-OS 9	<b>0 580 256</b>			


## 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
<b>Diamond compounds Hyprez® S, oil and water soluble</b>							
 10 g	1 µm	medium	blue	<b>0 580 381</b>			
	3 µm	medium	green	<b>0 580 382</b>			
	6 µm	medium	yellow	<b>0 580 383</b>			
	8 µm	medium	red	<b>0 580 384</b>			
	14 µm	medium	brown	<b>0 580 385</b>			
	25 µm	medium	mahagony	<b>0 580 386</b>			
	45 µm	medium	purple	<b>0 580 387</b>			
20 g	1 µm	medium	blue	<b>0 580 391</b>			
	3 µm	medium	green	<b>0 580 392</b>			
	6 µm	medium	yellow	<b>0 580 393</b>			
	8 µm	medium	red	<b>0 580 394</b>			
	14 µm	medium	brown	<b>0 580 395</b>			
	25 µm	medium	mahagony	<b>0 580 396</b>			
	45 µm	medium	purple	<b>0 580 397</b>			


## 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
<b>Diamond compounds Hyprez® W, water soluble</b>								
 5 g	1 µm	high	blue	1-W 3	<b>0 580 106</b>			
	1 µm	extra high	blue	1-W 4	<b>0 580 107</b>			
	3 µm	medium	green	3-W 3	<b>0 580 109</b>			
	3 µm	extra high	green	3-W 6	<b>0 580 111</b>			
	6 µm	low	yellow	6-W 4	<b>0 580 112</b>			
	6 µm	extra high	yellow	6-W 7	<b>0 580 114</b>			
	14 µm	medium	brown	14-W 6	<b>0 580 118</b>			
10 g	1 µm	high	blue	1-W 3	<b>0 580 136</b>			
	1 µm	extra high	blue	1-W 4	<b>0 580 137</b>			
	3 µm	medium	green	3-W 3	<b>0 580 139</b>			
	3 µm	extra high	green	3-W 6	<b>0 580 141</b>			
	6 µm	low	yellow	6-W 4	<b>0 580 142</b>			
	6 µm	extra high	yellow	6-W 7	<b>0 580 144</b>			
	14 µm	medium	brown	14-W 6	<b>0 580 148</b>			



## Diamond compounds Hyprez® SC-HT oil soluble

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
<b>Diamond compounds Hyprez® SC-HT, oil soluble</b>							
 5 g	1 µm	extra high	white	<b>0 580 270</b>			
	3 µm	extra high	yellow	<b>0 580 271</b>			
	6 µm	extra high	orange	<b>0 580 272</b>			
	9 µm	extra high	green	<b>0 580 273</b>			
	20 µm	extra high	blue	<b>0 580 274</b>			
	30 µm	extra high	red	<b>0 580 275</b>			
	45 µm	extra high	brown	<b>0 580 276</b>			
	60 µm	extra high	black	<b>0 580 277</b>			


## 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 metallurgic 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
<b>Diamond compounds Hyprez® L, oil soluble</b>								
 5 g	1 µm	extra high	blue	1-L 2	<b>0 580 302</b>			
	3 µm	high	green	3-L 3	<b>0 580 304</b>			
	6 µm	high	yellow	6-L 4	<b>0 580 306</b>			
	14 µm	medium	brown	14-L 3	<b>0 580 309</b>			
	14 µm	high	brown	14-L 5	<b>0 580 310</b>			
	25 µm	medium	mahogany	25-L 4	<b>0 580 311</b>			
	25 µm	high	mahogany	25-L 6	<b>0 580 312</b>			
	45 µm	medium	purple	45-L 4	<b>0 580 313</b>			
	45 µm	high	purple	45-L 5	<b>0 580 314</b>			
	60 µm	high	orange	60-L 6	<b>0 580 316</b>			
 10 g	1 µm	extra high	blue	1-L 2	<b>0 580 322</b>			
	3 µm	high	green	3-L 3	<b>0 580 324</b>			
	6 µm	high	yellow	6-L 4	<b>0 580 326</b>			
	14 µm	medium	brown	14-L 3	<b>0 580 329</b>			
	14 µm	high	brown	14-L 5	<b>0 580 330</b>			
	25 µm	medium	mahogany	25-L 4	<b>0 580 331</b>			
	25 µm	high	mahogany	25-L 6	<b>0 580 332</b>			
	45 µm	medium	purple	45-L 4	<b>0 580 333</b>			
	45 µm	high	purple	45-L 5	<b>0 580 334</b>			
	60 µm	high	orange	60-L 6	<b>0 580 336</b>			


## 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
<b>Diamond compounds Hyprez® Super L, oil soluble</b>						
 5 g	0.10 µm	high	<b>0 580 260</b>			
	0.25 µm	high	<b>0 580 261</b>			
	0.75 µm	high	<b>0 580 262</b>			
	1 µm	high	<b>0 580 263</b>			
	2 µm	high	<b>0 580 264</b>			
	3 µm	high	<b>0 580 265</b>			


## Diamond compounds Hyprez® C11 water 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
<b>Diamond compounds Hyprez® C11, water soluble</b>								
 5 g	1 µm	high	light yellow	1-C 11	<b>0 580 701</b>			
	3 µm	high	yellow	3-C 11	<b>0 580 702</b>			
	6 µm	high	ochre	6-C 11	<b>0 580 703</b>			
	14 µm	high	light blue	14-C 11	<b>0 580 704</b>			
	25 µm	high	red	25-C 11	<b>0 580 705</b>			
	45 µm	high	brown	45-C 11	<b>0 580 706</b>			
20 g	1 µm	high	light yellow	1-C 11	<b>0 580 711</b>			
	3 µm	high	yellow	3-C 11	<b>0 580 712</b>			
	6 µm	high	ochre	6-C 11	<b>0 580 713</b>			
	14 µm	high	light blue	14-C 11	<b>0 580 714</b>			
	25 µm	high	red	25-C 11	<b>0 580 715</b>			


## Diamond fluids Hyprez® OS oil soluble

Thinner for all oil soluble diamond compounds Hyprez®

	Content	Type	Order No.	Price from 1 piece
<b>Diamond fluid Hyprez® OS, oil soluble</b>				
	1 litre	OS	<b>0 580 504</b>	
	2 litres	OS	<b>0 580 507</b>	
	5 litres	OS	<b>0 580 510</b>	

## Diamond fluids Hyprez® W water soluble

Thinner for all water soluble diamond compounds Hyprez®

	Content	Type	Order No.	Price from 1 piece
<b>Diamond fluid Hyprez® W, water soluble</b>				
	1 litre	W	<b>0 580 505</b>	
	2 litres	W	<b>0 580 508</b>	

### Accessories / spare parts


	Order No.	Price from 1 piece
<b>Pump spray bottle, 250 ml</b>	<b>0 580 455</b>	
<b>Spray bottle, 100 ml</b>	<b>0 580 515-2</b>	



## 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
<b>Diamond gels Hyprez®</b>							
	20 g	1 µm	red	HYG 450	<b>0 580 371</b>		
		3 µm	yellow	HYG 430	<b>0 580 372</b>		
		6 µm	yellow	HYG 420	<b>0 580 373</b>		
		8 µm	green	HYG 410	<b>0 580 374</b>		
		15 µm	blue	HYG 320	<b>0 580 375</b>		
		30 µm	blue	HYG 310	<b>0 580 376</b>		
		45 µm	blue	HYG 300	<b>0 580 377</b>		

## 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
<b>Diamond spray Hyprez®</b>					
	75 g	0.10 µm	<b>0 580 361</b>		
		0.25 µm	<b>0 580 362</b>		
		1 µm	<b>0 580 363</b>		
		3 µm	<b>0 580 364</b>		
		6 µm	<b>0 580 365</b>		
		8 µm	<b>0 580 366</b>		
		14 µm	<b>0 580 367</b>		
		25 µm	<b>0 580 368</b>		
		45 µm	<b>0 580 369</b>		




## 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
<b>Polishing compounds Dialux</b>						
	for polishing metals, chromium etc.	140 g	green	<b>0 580 560</b>		
	high-gloss polishing for all metals	125 g	white	<b>0 580 561</b>		
	for super-finishing of all metals	120 g	blue	<b>0 580 562</b>		
	for eliminating scratches and streaks (high-gloss polish white is additionally required for this purpose)	145 g	orange	<b>0 580 563</b>		
	for refreshing stainless steels	125 g	grey	<b>0 580 564</b>		
	for polishing or refreshing non-ferrous metals and aluminium	110 g	yellow	<b>0 580 565</b>		
	Polishing compound type 462 – without particles of animal origin • Specially designed for use in the food and chemical industry!	700 g	blue	<b>0 580 566</b>		

## 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
<b>Lapping and polishing compounds Dipo</b>					
	50 ml tube	5 - 8 µm, very fine	<b>0 580 571</b>		
		10 - 15 µm, fine	<b>0 580 572</b>		
		30 - 50 µm, coarse	<b>0 580 573</b>		
		80 - 100 µm, very coarse	<b>0 580 574</b>		
	1,000 ml can	5 - 8 µm, very fine	<b>0 580 575</b>		
		10 - 15 µm, fine	<b>0 580 576</b>		
		30 - 50 µm, coarse	<b>0 580 577</b>		
		80 - 100 µm, very coarse	<b>0 580 578</b>		

## 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
<b>easyMark marking pen</b>				
	colour:			
	stroke width:	white up to 4 mm	<b>0 202 250</b>	

## 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
<b>Marking compounds</b>					
<b>heat resistant up to 60 °C</b>					
		60 g tube	blue	<b>0 202 252</b>	
		225 g can	blue	<b>0 202 251-1</b>	

<b>heat resistant up to 200 °C</b>					
		60 g tube	blue	<b>0 202 255</b>	
		225 g can	blue	<b>0 202 257-1</b>	

## 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
<b>Special grinding compounds</b>					
		220 ml can	8 - 11 µm, very fine	<b>0 580 581-1</b>	
			16 - 20 µm, fine	<b>0 580 582-1</b>	
			27 - 31 µm, medium fine	<b>0 580 583-1</b>	
			42 - 47 µm, medium	<b>0 580 584-1</b>	
			88 - 105 µm, very coarse	<b>0 580 586-1</b>	

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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
<b>Elsterglanz polishing compound</b>					
	150 ml tube	Universal, particularly for stainless steels	<b>0 580 630</b>		
		Copper, brass, bronze	<b>0 580 631</b>		



## 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
<b>Simichrome polishing compound</b>			
	50 g tube	<b>0 580 638</b>	
	250 g can	<b>0 580 642</b>	



## 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
	125 ml tube	<b>0 960 024-1</b>	
	1,000 ml can	<b>0 960 014</b>	

## 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	Suitable for materials	Order No.	Price from 1 piece
	100 g can	Metal	<b>0 960 028</b>	
	200 g can	Metal	<b>0 960 029</b>	

## Polishing pad Micro-Mesh<sup>®</sup>, 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
<b>Polishing pads Micro-Mesh<sup>®</sup>, Ultra-Flex</b>							
 50 x 50 mm	60	Ultra-Flex	10 pieces	<b>0 402 091</b>			
	80	Ultra-Flex	10 pieces	<b>0 402 092</b>			
	100	Ultra-Flex	10 pieces	<b>0 402 093</b>			
	120	Ultra-Flex	10 pieces	<b>0 402 094</b>			
	150	Ultra-Flex	10 pieces	<b>0 402 095</b>			
	180	Ultra-Flex	10 pieces	<b>0 402 096</b>			
	240	Ultra-Flex	10 pieces	<b>0 402 097</b>			
	320	Ultra-Flex	10 pieces	<b>0 402 098</b>			
	360	Ultra-Flex	10 pieces	<b>0 402 099</b>			
	400	Ultra-Flex	10 pieces	<b>0 402 100</b>			
	600	Ultra-Flex	10 pieces	<b>0 402 101</b>			
	800	Ultra-Flex	10 pieces	<b>0 402 102</b>			
	1200	Ultra-Flex	10 pieces	<b>0 402 103</b>			

### ↓ matching set

Dimensions	Content	Order No.	Price from	
			1 set	3 set
<b>Polishing pad set Micro-Mesh<sup>®</sup>, Ultra-Flex</b>				
50 x 50 mm	13 pads	<b>0 402 090</b>		



#### Know-how!

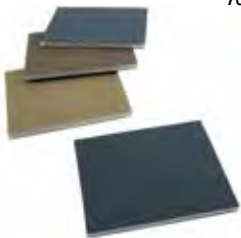
60 MX corresponds to approx. grit size P 240

#### Material

60 MX – 600 MX = SiC

800 MX – 1200 MX = corundum

## Polishing pad Micro-Mesh® ideal for small polishing work

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

## 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 (Kalk) 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	<b>0 960 020</b>	



## 2 Polishing medium Ouator

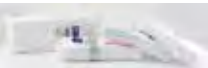
Cotton wool balls for gentle polishing of aluminium, metal and plastic. The cotton wool is impregnated with a polishing medium and can be plucked piecewise from the ball. This allows very economical use, all the more so in that the individual pieces can easily be reused several times (keep in a bag after 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
<b>Ouator polishing medium</b>					
 250 g can	A	pink	Aluminium	<b>0 960 025</b>	
	M	blue	Metal	<b>0 960 026</b>	
	MPT	white	Plastic	<b>0 960 027</b>	

## 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
<b>Polishing wool</b>				
	Cotton wool	50 % viscose / 50 % cotton	100 g in the bag	<b>0 960 010</b>
		100 % cotton	100 g in the bag	<b>0 960 011</b>
		100 % viscose	180 g in the bag	<b>0 960 013-1</b>
Cotton wool pads	100 % cotton	40 pieces in the bag	<b>0 960 015</b>	

## 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
<b>Polishing cloths Kleenex</b>					
3-ply	72 cloths	white	20 x 20 cm	<b>0 590 602</b>	



## 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
<b>Cleaning wires</b>					
	Cotton wool without bristles	Ø 4/5 x 150 mm	80 pieces	<b>0 960 005</b>	
	Cotton wool with bristles	Ø 4/5 x 150 mm	80 pieces	<b>0 960 006</b>	
		Ø 3.5/5.5 x 300 mm	50 pieces	<b>0 960 007</b>	



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
<b>Cotton buds on wooden sticks</b>					
	small head (Ø approx. 4 – 5.5 mm)	Ø 2.3 x 150 mm	100 pieces	<b>0 960 001</b>	
	large head (Ø approx. 10 – 12 mm)	Ø 3 x 200 mm	50 pieces	<b>0 960 002</b>	

## Cleaning stick

The lint-free cleaning sticks are highly absorbent and owing to their pointed shape, ideal for use in model and mould making as well as in areas such as optics, laser and microtechnology. The rods have a very dense and firm head made of highest-quality cotton. They are therefore super absorbent, suitable for solvents and retain their shape when wet. Perfect for all cleaning tasks in hard-to-reach areas or for precise application of liquids (e. g. adhesives, resins, alcohols).

		Packing quantity	Order No.	Price from 1 pack
<b>Cleaning stick</b>				
	Sharp head on both sides, Ø 5 x 13 mm, hard, head and stick made of cotton	100 pieces	<b>0 960 003</b>	



# 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		

**133** Polishing felts with shank

**140** Brass filament polishing felts

**143** Felt sticks • Felt sheets

**137** Polishing felt rings and lenses







**142** Felt lamellas on shank



# Polishing felts








## shank Ø 2.35 x 40 mm

 1  
**2**  
 3  
 4  
 5  
 6  
 7


	Head dimensions	Hardness	Shank dimen- sions	Cutting speed max.	Packing quantity	Order No.	Price from	
							1 piece	50 pieces
<b>Polishing felts, shank Ø 2.35 x 40 mm</b>								
<b>cylinder</b>								
	Ø 4 x 10 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 107</b>		
	Ø 4 x 12 mm	super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 494</b>		
	Ø 8 x 12 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 105</b>		
<b>sphere</b>								
	Ø 6 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 104</b>		
<b>pointed cone</b>								
	Ø 6 x 18 mm	super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 490</b>		
	Ø 7 x 15 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 109</b>		
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 451</b>		
<b>pear</b>								
	Ø 8 x 11 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 114</b>		
	Ø 9 x 13 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 110</b>		
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 452</b>		
<b>cone</b>								
	Ø 7 x 15 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 116</b>		
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 454</b>		
<b>lens</b>								
	Ø 17 x 5 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 121</b>		
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 458</b>		
	Ø 22 x 5 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 120</b>		
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 457</b>		
<b>wheel</b>								
	Ø 17 x 5 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 119</b>		
	Ø 22 x 5 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 118</b>		
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 456</b>		
<b>barrel</b>								
	Ø 8 x 11 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 112</b>		
	Ø 9 x 13 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 111</b>		
<b>trapeze</b>								
	Ø 12 / 8 x 12 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 117</b>		
		super-hard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 455</b>		
<b>drop</b>								
	Ø 8 x 11 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 115</b>		
	Ø 9 x 13 mm	standard	Ø 2.35 x 40 mm	10 m/s	10 pieces	<b>0 570 113</b>		

## 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
<b>Polishing felts, shank Ø 3 x 40 mm</b>								
<b>cylinder</b>								
	Ø 6 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 301</b>		
		super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 461</b>		
		soft	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 315</b>		
	Ø 6 x 13 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 322</b>		
	Ø 8 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 302</b>		
		super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 462</b>		
	Ø 8 x 12 mm	soft	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 317</b>		
	Ø 10 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 303</b>		
		super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 463</b>		
	Ø 10 x 12 mm	soft	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 319</b>		
	Ø 10 x 13 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 323</b>		
	Ø 10 x 15 mm	soft	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 320</b>		
	Ø 10 x 20 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 354</b>		
	Ø 13 x 20 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 324</b>		
	Ø 15 x 20 mm	standard	Ø 3 x 30 mm	10 m/s	10 pieces	<b>0 570 355</b>		
	Ø 15 x 32 mm	soft	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 347</b>		
	Ø 16 x 30 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 325</b>		
	Ø 20 x 20 mm	soft	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 498</b>		
	Ø 20 x 40 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 326</b>		
<b>rounded cylinder</b>								
	Ø 6 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 312</b>		
	Ø 8 x 12 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 313</b>		
<b>sphere</b>								
	Ø 6 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 356</b>		
	Ø 8 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 357</b>		
	Ø 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 358</b>		
	Ø 12 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 359</b>		
<b>pointed cone</b>								
	Ø 6 x 18 mm	super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 328</b>		
	Ø 7 x 16 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 327</b>		
	Ø 10 x 18 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 304</b>		
<b>lens</b>								
	Ø 21 x 4 mm	super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 459</b>		
<b>wheel</b>								
	Ø 21 x 4 mm	standard	Ø 3 x 37 mm	10 m/s	10 pieces	<b>0 570 489</b>		

# Polishing felts shank Ø 3 x 40 mm

	Head dimensions	Hardness	Shank dimen- sions	Cutting speed max.	Packing quantity	Order No.	Price from	
							1 piece	50 pieces
<b>rounded arch</b>								
	↓ Ø 6 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 308</b>		
		super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 466</b>		
	↓ Ø 8 x 12 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 311</b>		
<b>tree with pointed end</b>								
	↓ Ø 6 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 310</b>		
		standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 314</b>		
		standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 309</b>		
		super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 465</b>		
<b>trapeze</b>								
	↓	Ø 9 / 6 x 15 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 491</b>	
		Ø 10 / 7 x 15 mm	super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 469</b>	
		Ø 15 / 10 x 15 mm	soft	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 321</b>	
			standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 305</b>	
			super-hard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 464</b>	
<b>drop</b>								
	↓	Ø 6 x 10 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 306</b>	
		Ø 8 x 12 mm	standard	Ø 3 x 40 mm	10 m/s	10 pieces	<b>0 570 307</b>	

↓ *matching set*

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



**Other polishing felts on request!**

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



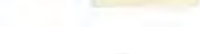
Please consult **Markus Abstoß:**

**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
<b>Polishing felts, shank Ø 6 x 40 mm</b>							
<b>cylinder</b>							
	⌵ Ø 10 x 12 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 331</b>		
	⌵ Ø 12 x 12 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 332</b>		
	⌵ Ø 15 x 20 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 333</b>		
		super-hard	Ø 6 x 40 mm	10 m/s	<b>0 570 471</b>		
	⌵ Ø 15 x 30 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 334</b>		
	⌵ Ø 20 x 20 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 335</b>		
		super-hard	Ø 6 x 40 mm	10 m/s	<b>0 570 472</b>		
	⌵ Ø 20 x 30 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 336</b>		
	⌵ Ø 25 x 30 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 337</b>		
	⌵ Ø 30 x 35 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 338</b>		
		super-hard	Ø 6 x 40 mm	10 m/s	<b>0 570 473</b>		
<b>sphere</b>							
	Ø 12 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 360</b>		
	Ø 20 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 362</b>		
<b>cone</b>							
	⌵ Ø 20 x 30 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 339</b>		
		super-hard	Ø 6 x 40 mm	10 m/s	<b>0 570 474</b>		
<b>rounded arch</b>							
	⌵ Ø 15 x 20 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 340</b>		
		super-hard	Ø 6 x 40 mm	10 m/s	<b>0 570 475</b>		
<b>tree, XL</b>							
	⌵ Ø 20 x 70 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 342</b>		
<b>trapeze</b>							
	Ø 30 / 22 x 25 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 493</b>		
<b>halfround</b>							
	⌵ Ø 30 x 20 mm	standard	Ø 6 x 40 mm	10 m/s	<b>0 570 341</b>		

## Polishing felts shank Ø 6 x 40 mm

↓ matching set

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



## Polishing felts Polishing felt rings

	Exterior Ø	Interior Ø	Height	Hardness	Cutting speed max.	Packing quantity	Order No.	Price from	
								1 pack	10 packs
<b>Polishing felt rings</b>									
<b>non-self-adhesive</b>									
	18 mm	7 mm	4 mm	standard	10 m/s	10 pieces	<b>0 570 412</b>		
	30 mm	12 mm	4 mm	standard	10 m/s	10 pieces	<b>0 570 414</b>		
	45 mm	18 mm	4 mm	standard	10 m/s	10 pieces	<b>0 570 415</b>		
<b>self-adhesive</b>									
	18 mm	7 mm	4 mm	standard	10 m/s	10 pieces	<b>0 570 422</b>		
	30 mm	12 mm	4 mm	standard	10 m/s	10 pieces	<b>0 570 424</b>		
	45 mm	18 mm	4 mm	standard	10 m/s	10 pieces	<b>0 570 425</b>		


## 2 Polishing felts rings • lenses • holders

### Magic polishing felts – with barrier layer


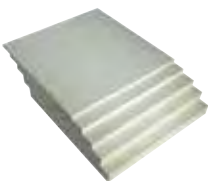
A newly developed special impregnation technique ensures you get the best polishing results when using Magic polishing felts. It means you to get less moisture absorption than with normal felts, which enables the diamonds to provide their best cutting performance. joke Magic polishing felts have a wavy 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 piece	5 pieces	1 pack	5 packs
<b>Polishing felts joke Magic, non-self adhesive</b>								
	Ø 30 / 12 x 4 mm	standard	10 pieces	<b>0 590 501</b>				
	100 x 30 x 2 mm	standard	10 pieces	<b>0 590 502</b>				
	290 x 280 x 2 mm	standard	10 pieces	<b>0 411 370</b>				

### Accessories / spare parts

	Order No.	Price from	
		1 piece	10 pieces
<b>Adhesive Pattex, 125 g tube</b>			
 for fixing polishing felt rings to rubber supports	<b>0 570 420-1</b>		

## Felt sheets

	Dimensions	Hardness	Order No.	Price from	
				1 piece	5 pieces
<b>Felt sheets</b>					
	6 x 250 x 250 mm	soft	<b>0 411 341</b>		
		medium	<b>0 411 351</b>		
		standard	<b>0 411 361</b>		
	10 x 250 x 250 mm	soft	<b>0 411 342</b>		
		medium	<b>0 411 352</b>		
		standard	<b>0 411 362</b>		
	12 x 250 x 250 mm	medium	<b>0 411 353</b>		
		standard	<b>0 411 363</b>		
	25 x 250 x 250 mm	soft	<b>0 411 345</b>		
medium		<b>0 411 355</b>			
standard		<b>0 411 365</b>			
<b>Felt sheets, self-adhesive</b>					
	3 x 250 x 250 mm	standard	<b>0 411 368</b>		



### Hardness grades

Soft	0.8 g/cm <sup>3</sup>
Medium	0.56 g/cm <sup>3</sup>
Standard	0.64 g/cm <sup>3</sup>
Super-hard	0.64 g/cm <sup>3</sup> (with impregnation!)

## Polishing felts Polishing felt holder

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



## Polishing felts Polishing felt lenses

Dimensions	Drilling dimension	Hardness	Suitable mounting shank	Cutting speed max.	Order No.	Price from	
						1 piece	50 pieces
<b>Polishing felt lenses without shank</b>							
Ø 13 x 4 mm	2 mm	standard	Type 21, 22, 23	10 m/s	<b>0 570 431</b>		
Ø 19 x 5 mm	2 mm	standard	Type 26, 27	10 m/s	<b>0 570 433</b>		
Ø 25 x 6 mm	2 mm	standard	Type 26, 27	10 m/s	<b>0 570 434</b>		
Ø 38 x 6 mm	2 mm	standard	Type 26, 27	10 m/s	<b>0 570 435</b>		
Ø 51 x 8 mm	6 mm	standard	Type 41	10 m/s	<b>0 570 436</b>		



### Accessories / spare parts











	for bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from	
						1 piece	10 pieces
<b>CRATEX® grinding wheel holder</b>							
	Ø 1.5 – 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	<b>0 545 275</b>		
	Ø 1.5 – 1.8 mm	Ø 3 x 42 mm	22	Ø 38 x 4.5 mm	<b>0 545 276</b>		
	Ø 1.5 – 1.8 mm	Ø 6 x 42 mm	23	Ø 38 x 4.5 mm	<b>0 545 277</b>		
	Ø 1.5 – 1.8 mm	Ø 3 x 40 mm	26	Ø 25 x 8.5 mm	<b>0 545 280</b>		
	Ø 1.5 – 1.8 mm	Ø 6 x 40 mm	27	Ø 25 x 8.5 mm	<b>0 545 281</b>		
	Ø 6 mm	Ø 6 x 25 mm	41	Ø 75 x 9.5 mm	<b>0 545 282</b>		




## 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
<b>Brass filament polishing felts with shank</b>						
<b>cylinder</b>						
	Ø 6 x 10 mm	Ø 3 x 40 mm	10 m/s	<b>0 570 291</b>		
	Ø 8 x 10 mm	Ø 3 x 40 mm	10 m/s	<b>0 570 292</b>		
	Ø 10 x 10 mm	Ø 3 x 40 mm	10 m/s	<b>0 570 293</b>		
	Ø 12 x 12 mm	Ø 6 x 40 mm	10 m/s	<b>0 570 296</b>		
	Ø 15 x 20 mm	Ø 6 x 40 mm	10 m/s	<b>0 570 297</b>		
	Ø 20 x 20 mm	Ø 6 x 40 mm	10 m/s	<b>0 570 298</b>		
	Ø 25 x 30 mm	Ø 6 x 40 mm	10 m/s	<b>0 570 299</b>		
<b>sphere</b>						
	Ø 12 mm	Ø 6 x 40 mm	10 m/s	<b>0 570 398</b>		
<b>pointed cone</b>						
	Ø 10 x 18 mm	Ø 3 x 40 mm	10 m/s	<b>0 570 294</b>		
<b>trapeze</b>						
	Ø 15 / 10 x 15 mm	Ø 3 x 40 mm	10 m/s	<b>0 570 295</b>		

## Brass filament polishing felts Rings

	Exterior Ø	Interior Ø	Height	Packing quantity	Order No.	Price from	
						1 pack	5 packs
<b>Brass polishing felt rings, non-self adhesive</b>							
	18 mm	7 mm	4 mm	10 pieces	<b>0 570 392</b>		
	30 mm	12 mm	4 mm	10 pieces	<b>0 570 394</b>		
	45 mm	18 mm	4 mm	10 pieces	<b>0 570 395</b>		

### Accessories / spare parts

	Order No.	Price from	
		1 piece	10 pieces
<b>Adhesive Pattex, 125 g tube</b>			
 for fixing polishing felt rings to rubber supports	<b>0 570 420-1</b>		

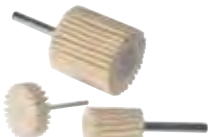

## Felt lamellas

### 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
<b>Felt lamellas on shank</b>								
<b>standard</b>								
	20 x 10 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	<b>0 411 701</b>		
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 721</b>		
	20 x 20 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	<b>0 411 702</b>		
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 722</b>		
	25 x 10 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	<b>0 411 703</b>		
	25 x 20 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	<b>0 411 704</b>		
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 724</b>		
	25 x 30 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	<b>0 411 705</b>		
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 725</b>		
	30 x 5 mm	H 40	3 mm	Ø 3 x 40 mm	10 m/s	<b>0 411 710</b>		
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 712</b>		
	40 x 5 mm	H 40	3 mm	Ø 3 x 40 mm	10 m/s	<b>0 411 711</b>		
		H 40	3 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 713</b>		
	50 x 5 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 714</b>		
<b>slit</b>								
	30 x 10 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	<b>0 411 706</b>		
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 726</b>		
	30 x 20 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	<b>0 411 707</b>		
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 727</b>		
	30 x 30 mm	H 40	2 mm	Ø 3 x 40 mm	10 m/s	<b>0 411 708</b>		
		H 40	2 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 728</b>		
	40 x 10 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 733</b>		
	40 x 20 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 734</b>		
	40 x 30 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 735</b>		
	40 x 40 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 736</b>		
	50 x 20 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 741</b>		
	50 x 30 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 742</b>		
	50 x 40 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 743</b>		
	50 x 50 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 744</b>		
	60 x 40 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 751</b>		
	60 x 50 mm	H 40	3 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 752</b>		
	80 x 30 mm	H 40	5 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 765</b>		
	80 x 50 mm	H 40	5 mm	Ø 6 x 40 mm	10 m/s	<b>0 411 767</b>		

## Felt sticks

### Felt sticks without shank


	Dimensions	Hardness	Order No.	Price from	
				1 piece	10 pieces
<b>Felt sticks</b>					
<b>square</b>					
	6 x 6 x 150 mm	medium	<b>0 411 301</b>		
		standard	<b>0 411 304</b>		
	10 x 10 x 150 mm	medium	<b>0 411 302</b>		
		standard	<b>0 411 305</b>		
	12 x 12 x 150 mm	medium	<b>0 411 303</b>		
		standard	<b>0 411 306</b>		

 *matching set*

	Order No.	Price from
		1 set
<b>Assorted felt sticks</b>		
 Contents: 18 felt sticks, three in each hardness and design	<b>0 411 300</b>	

## Felt sticks

### shank Ø 3.2 mm

	Dimensions	Hardness	Shank dimensions	Order No.	Price from	
					1 piece	10 pieces
<b>Felt sticks with shank, 30° slant</b>						
	6 x 6 x 37 mm	medium	Ø 3.2 x 30 mm	<b>0 411 321</b>		
		standard	Ø 3.2 x 30 mm	<b>0 411 324</b>		
		super-hard	Ø 3.2 x 30 mm	<b>0 411 327</b>		
10 x 10 x 45 mm		medium	Ø 3.2 x 30 mm	<b>0 411 322</b>		
		standard	Ø 3.2 x 30 mm	<b>0 411 325</b>		
12 x 12 x 45 mm		medium	Ø 3.2 x 30 mm	<b>0 411 323</b>		
		standard	Ø 3.2 x 30 mm	<b>0 411 326</b>		

 *matching set*

	Order No.	Price from
		1 set
<b>Assorted felt sticks with shank, Contents: 6 pieces</b>		
 Contents: 6 pieces	<b>0 411 320</b>	

# Lapping tools

**145** Lapping and polishing points made of wood

**146** Lapping sticks made of wood and Plexiglas

**148** Lapping and polishing tools

**152** HELICAL LAP









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!!

## 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	
<b>Lapping and polishing points made of wood, shank Ø 3 mm</b>								
	hard wood	cylinder	Ø 6 x 15 mm	Ø 3 x 30 mm	<b>0 570 174</b>			
			cylinder	Ø 10 x 20 mm	Ø 3 x 30 mm	<b>0 570 173</b>		
		cylinder	Ø 15 x 25 mm	Ø 3 x 30 mm	<b>0 570 172</b>			
		cylinder	Ø 20 x 30 mm	Ø 3 x 30 mm	<b>0 570 171</b>			
			sphere	Ø 10 x 10 mm	Ø 3 x 30 mm	<b>0 570 176</b>		
	soft wood	flame	Ø 10 x 30 mm	Ø 3 x 30 mm	<b>0 570 178</b>			
			cylinder	Ø 6 x 15 mm	Ø 3 x 30 mm	<b>0 570 184</b>		
			cylinder	Ø 10 x 20 mm	Ø 3 x 30 mm	<b>0 570 183</b>		
		cylinder	Ø 15 x 25 mm	Ø 3 x 30 mm	<b>0 570 182</b>			
			sphere	Ø 10 x 10 mm	Ø 3 x 30 mm	<b>0 570 186</b>		
	flame	Ø 10 x 30 mm	Ø 3 x 30 mm	<b>0 570 188</b>				

## 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
<b>Lapping and polishing points made of wood, shank Ø 6 mm</b>							
	hard wood	cylinder	Ø 15 x 25 mm	Ø 6 x 30 mm	<b>0 570 272</b>		
		cylinder	Ø 20 x 30 mm	Ø 6 x 30 mm	<b>0 570 271</b>		
	soft wood	cylinder	Ø 15 x 25 mm	Ø 6 x 30 mm	<b>0 570 282</b>		
		cylinder	Ø 20 x 30 mm	Ø 6 x 30 mm	<b>0 570 281</b>		

## 2 Wooden lapping sticks hard and soft

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
<b>Wooden lapping sticks, hard (pear)</b>					
<b>round, pointed</b>					
	 Ø 3 x 150 mm	hard	<b>0 411 277</b>		
	 Ø 4.5 x 150 mm	hard	<b>0 411 278</b>		
	 Ø 6.5 x 150 mm	hard	<b>0 411 279</b>		
<b>round, unpointed</b>					
	Ø 10 x 300 mm	hard	<b>0 411 290</b>		
<b>square, with chamfer</b>					
	 3 x 3 x 150 mm	hard	<b>0 411 271</b>		
	 4.5 x 4.5 x 150 mm	hard	<b>0 411 272</b>		
	 6.5 x 6.5 x 150 mm	hard	<b>0 411 273</b>		
<b>rectangular, with chamfer</b>					
	 7 x 3 x 150 mm	hard	<b>0 411 274</b>		
	 12.5 x 8 x 150 mm	hard	<b>0 411 275</b>		
	 19 x 8 x 150 mm	hard	<b>0 411 276</b>		

### matching set

	Order No.	Price from
		1 set
<b>Wooden lapping stick set, hard (9 pcs)</b>		<b>0 411 270</b>
		

## Wooden lapping sticks hard and 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
<b>Wooden lapping sticks, soft (lime)</b>					
<b>round, pointed</b>					
	☰ Ø 3 x 150 mm	soft	<b>0 411 287</b>		
	☰ Ø 4.5 x 150 mm	soft	<b>0 411 288</b>		
	☰ Ø 6.5 x 150 mm	soft	<b>0 411 289</b>		
<b>square, with chamfer</b>					
	☰ 3 x 3 x 150 mm	soft	<b>0 411 281</b>		
	☰ 4.5 x 4.5 x 150 mm	soft	<b>0 411 282</b>		
	☰ 6.5 x 6.5 x 150 mm	soft	<b>0 411 283</b>		
<b>rectangular, with chamfer</b>					
	☰ 7 x 3 x 150 mm	soft	<b>0 411 284</b>		
	☰ 12.5 x 8 x 150 mm	soft	<b>0 411 285</b>		
	☰ 19 x 8 x 150 mm	soft	<b>0 411 286</b>		

☱ *matching set*

	Order No.	Price from
		1 set
<b>Wooden lapping stick set, soft (9 pcs)</b>	<b>0 411 280</b>	



## 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
<b>Plexiglas lapping sticks</b>					
<b>square, with chamfer</b>					
	3 x 3 x 150 mm	medium	<b>0 411 251</b>		
	4.5 x 4.5 x 150 mm	medium	<b>0 411 252</b>		
	6.5 x 6.5 x 150 mm	medium	<b>0 411 253</b>		
<b>rectangular, with chamfer</b>					
	7 x 3 x 150 mm	medium	<b>0 411 254</b>		
	12.5 x 8 x 150 mm	medium	<b>0 411 255</b>		
	19 x 8 x 150 mm	medium	<b>0 411 256</b>		



## 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
<b>Lapping and polishing tools flex-poli-snap</b>						
<b>square</b>						
	plastic	4 x 4 mm	0 411 174 / 170	50 pieces	<b>0 411 610-50</b>	
		5 x 5 mm	0 411 175 / 171	50 pieces	<b>0 411 611-50</b>	
		6 x 6 mm	0 411 176 / 172	50 pieces	<b>0 411 612-50</b>	
		8 x 8 mm	0 411 177 / 173	50 pieces	<b>0 411 613-50</b>	
	brass	4 x 4 mm	0 411 174 / 170	50 pieces	<b>0 411 630-50</b>	
		5 x 5 mm	0 411 175 / 171	50 pieces	<b>0 411 631-50</b>	
		6 x 6 mm	0 411 176 / 172	50 pieces	<b>0 411 632-50</b>	
		8 x 8 mm	0 411 177 / 173	50 pieces	<b>0 411 633-50</b>	
<b>ring</b>						
	plastic	Ø 4 mm	0 411 174 / 170	50 pieces	<b>0 411 600-50</b>	
		Ø 5 mm	0 411 175 / 171	50 pieces	<b>0 411 601-50</b>	
		Ø 6 mm	0 411 176 / 172	50 pieces	<b>0 411 602-50</b>	
		Ø 8 mm	0 411 177 / 173	50 pieces	<b>0 411 603-50</b>	
	brass	Ø 4 mm	0 411 174 / 170	50 pieces	<b>0 411 620-50</b>	
		Ø 5 mm	0 411 175 / 171	50 pieces	<b>0 411 621-50</b>	
		Ø 6 mm	0 411 176 / 172	50 pieces	<b>0 411 622-50</b>	
		Ø 8 mm	0 411 177 / 173	50 pieces	<b>0 411 623-50</b>	

### ↓ 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	<b>0 411 189</b>		

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
<b>Ball-ended rods flex-poli-snap</b>					
	Ø 1.9 mm	Ø 4 / 4 x 4 mm	angular	Ø 3.5 mm	<b>0 411 174</b>
	Ø 2.4 mm	Ø 5 / 5 x 5 mm	angular	Ø 3.5 mm	<b>0 411 175</b>
	Ø 2.9 mm	Ø 6 / 6 x 6 mm	angular	Ø 3.5 mm	<b>0 411 176</b>
	Ø 3.9 mm	Ø 8 / 8 x 8 mm	angular	Ø 3.5 mm	<b>0 411 177</b>





### ↓ 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.	<b>0 411 169</b>	


## 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
<b>Lapping and polishing rings</b>					
	plastic	Ø 8 mm	10 pieces	<b>0 570 045</b>	
		Ø 12 mm	10 pieces	<b>0 570 055-10</b>	
		Ø 20 mm	10 pieces	<b>0 570 075</b>	
	plastic collar ring	Ø 12 mm	5 pieces	<b>0 570 063</b>	
	brass	Ø 8 mm	10 pieces	<b>0 570 044</b>	
		Ø 12 mm	10 pieces	<b>0 570 054-10</b>	
		Ø 20 mm	10 pieces	<b>0 570 074</b>	
	brass collar ring	Ø 12 mm	5 pieces	<b>0 570 062</b>	

## 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.




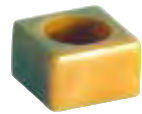


	Dimensions	Grit size	Order No.	Price from 1 piece
<b>Diamond lapping and polishing rings</b>				
	Ø 8 mm	D 151	<b>0 570 041</b>	
	Ø 12 mm	D 151	<b>0 570 051</b>	
	Ø 20 mm	D 151	<b>0 570 071</b>	

### Accessories / spare parts

	Dimensions	Shank dimensions	Order No.	Price from 1 piece
<b>suitable articulated handles for lapping and polishing rings</b>				
	Ø 8 mm	Ø 3 mm	<b>0 570 050</b>	
	Ø 12 mm	Ø 3 mm	<b>0 570 060</b>	
	Ø 20 mm	Ø 3 mm	<b>0 570 080</b>	
		Ø 6 mm	<b>0 570 081</b>	

## 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
<b>Lapping and polishing tools</b>						
<b>triangle</b>						
	brass	3.5 x 3.5 x 3.5 mm	0 411 141	50 pieces	<b>0 411 117-50</b>	
		6 x 6 x 6 mm	0 411 142	50 pieces	<b>0 411 118-50</b>	
		8 x 8 x 8 mm	0 411 144	50 pieces	<b>0 411 119-50</b>	
	plastic	3.5 x 3.5 x 3.5 mm	0 411 141	100 pieces	<b>0 411 137</b>	
		6 x 6 x 6 mm	0 411 142	100 pieces	<b>0 411 138</b>	
		8 x 8 x 8 mm	0 411 144	100 pieces	<b>0 411 139</b>	
<b>square</b>						
	brass	2 x 2 x 1.5 mm	0 411 141	50 pieces	<b>0 411 111-50</b>	
		2.5 x 2.5 x 1.5 mm	0 411 142	50 pieces	<b>0 411 112-50</b>	
		3 x 3 x 2 mm	0 411 143	50 pieces	<b>0 411 113-50</b>	
		4 x 4 x 3 mm	0 411 144	50 pieces	<b>0 411 114-50</b>	
		5 x 5 x 3 mm	0 411 145	50 pieces	<b>0 411 115-50</b>	
		6 x 6 x 4 mm	0 411 146	50 pieces	<b>0 411 116-50</b>	
	plastic	2 x 2 x 1.5 mm	0 411 141	100 pieces	<b>0 411 131</b>	
		3 x 3 x 2 mm	0 411 143	100 pieces	<b>0 411 133</b>	
		4 x 4 x 3 mm	0 411 144	100 pieces	<b>0 411 134</b>	
		5 x 5 x 3 mm	0 411 145	100 pieces	<b>0 411 135</b>	
		6 x 6 x 4 mm	0 411 146	100 pieces	<b>0 411 136</b>	
<b>ring</b>						
	brass	Ø 2 x 1.5 mm	0 411 141	50 pieces	<b>0 411 101-50</b>	
		Ø 2.5 x 1.5 mm	0 411 142	50 pieces	<b>0 411 102-50</b>	
		Ø 3 x 2 mm	0 411 143	50 pieces	<b>0 411 103-50</b>	
		Ø 4 x 3 mm	0 411 144	50 pieces	<b>0 411 104-50</b>	
		Ø 5 x 3 mm	0 411 145	50 pieces	<b>0 411 105-50</b>	
		Ø 6 x 4 mm	0 411 146	50 pieces	<b>0 411 106-50</b>	
	plastic	Ø 2 x 1.5 mm	0 411 141	100 pieces	<b>0 411 121</b>	
		Ø 2.5 x 1.5 mm	0 411 142	100 pieces	<b>0 411 122</b>	
		Ø 3 x 2 mm	0 411 143	100 pieces	<b>0 411 123</b>	
		Ø 4 x 3 mm	0 411 144	100 pieces	<b>0 411 124</b>	
		Ø 5 x 3 mm	0 411 145	100 pieces	<b>0 411 125</b>	
		Ø 6 x 4 mm	0 411 146	100 pieces	<b>0 411 126</b>	

# Lapping and polishing tools for linear processing

## Accessories / spare parts

	Dimensions	Shank dimensions	Order No.	Price from 1 piece
<b>Ball-ended rods, straight</b>				
	Ø 1.8 x 140 mm	Ø 3.5 mm	<b>0 411 141</b>	
	Ø 2.2 x 140 mm	Ø 3.5 mm	<b>0 411 142</b>	
	Ø 2.7 x 140 mm	Ø 3.5 mm	<b>0 411 143</b>	
	Ø 3.5 x 140 mm	Ø 3.5 mm	<b>0 411 144</b>	
	Ø 4.5 x 140 mm	Ø 3.5 mm	<b>0 411 145</b>	
	Ø 5.5 x 140 mm	Ø 3.5 mm	<b>0 411 146</b>	

## matching set

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

# 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 HELILAP 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 108. 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  $+0,002$   
 $-0$

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 Ø 16 x 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
<b>Internal lapping tool HELICAL LAP</b>							
 without radial groove	1.674 - 1.930 mm	16 mm	0 586 102	0 586 152	0 586 201	<b>0 586 302</b>	
	1.956 - 2.311 mm	16 mm	0 586 102	0 586 152	0 586 201	<b>0 586 303</b>	
	2.362 - 2.743 mm	19 mm	0 586 103	0 586 153	0 586 201	<b>0 586 304</b>	
	2.743 - 3.099 mm	19 mm	0 586 103	0 586 154	0 586 201	<b>0 586 305</b>	
	3.149 - 3.479 mm	22 mm	0 586 104	0 586 154	0 586 201	<b>0 586 306</b>	
	3.530 - 3.886 mm	22 mm	0 586 104	0 586 154	0 586 201	<b>0 586 307</b>	
	3.937 - 4.318 mm	22 mm	0 586 104	0 586 154	0 586 201	<b>0 586 308</b>	
	4.318 - 4.673 mm	22 mm	0 586 104	0 586 154	0 586 201	<b>0 586 309</b>	
 with radial groove	4.724 - 5.105 mm	35 mm	0 586 105	0 586 155	0 586 211	<b>0 586 310</b>	
	5.130 - 5.461 mm	35 mm	0 586 105	0 586 155	0 586 211	<b>0 586 311</b>	
	5.537 - 5.918 mm	45 mm	0 586 106	0 586 156	0 586 211	<b>0 586 312</b>	
	5.918 - 6.248 mm	45 mm	0 586 106	0 586 156	0 586 211	<b>0 586 313</b>	
	6.324 - 6.705 mm	50 mm	0 586 107	0 586 157	0 586 211	<b>0 586 314</b>	
	6.731 - 7.010 mm	50 mm	0 586 107	0 586 157	0 586 211	<b>0 586 315</b>	
	7.112 - 7.340 mm	50 mm	0 586 107	0 586 157	0 586 211	<b>0 586 316</b>	
	7.518 - 7.670 mm	50 mm	0 586 107	0 586 157	0 586 211	<b>0 586 317</b>	
	7.924 - 8.305 mm	50 mm	0 586 108	0 586 158	0 586 211	<b>0 586 318</b>	
	8.305 - 8.610 mm	50 mm	0 586 108	0 586 158	0 586 211	<b>0 586 319</b>	
	8.712 - 8.915 mm	50 mm	0 586 108	0 586 158	0 586 211	<b>0 586 320</b>	
	9.093 - 9.245 mm	50 mm	0 586 108	0 586 158	0 586 211	<b>0 586 321</b>	
	9.499 - 9.855 mm	63 mm	0 586 109	0 586 159	0 586 211	<b>0 586 322</b>	
	9.906 - 10.185 mm	63 mm	0 586 109	0 586 159	0 586 211	<b>0 586 323</b>	
	10.287 - 10.515 mm	63 mm	0 586 109	0 586 159	0 586 211	<b>0 586 324</b>	
	10.693 - 10.845 mm	63 mm	0 586 109	0 586 159	0 586 211	<b>0 586 325</b>	
	11.074 - 11.430 mm	63 mm	0 586 110	0 586 160	0 586 211	<b>0 586 326</b>	
	11.480 - 11.785 mm	63 mm	0 586 110	0 586 160	0 586 211	<b>0 586 327</b>	
	11.861 - 12.090 mm	63 mm	0 586 110	0 586 160	0 586 211	<b>0 586 328</b>	
	12.268 - 12.420 mm	63 mm	0 586 110	0 586 160	0 586 211	<b>0 586 329</b>	
12.674 - 13.081 mm	83 mm	0 586 111	0 586 161	0 586 211	<b>0 586 330</b>		
13.081 - 13.487 mm	83 mm	0 586 111	0 586 161	0 586 211	<b>0 586 331</b>		
13.462 - 13.868 mm	83 mm	0 586 111	0 586 161	0 586 211	<b>0 586 332</b>		

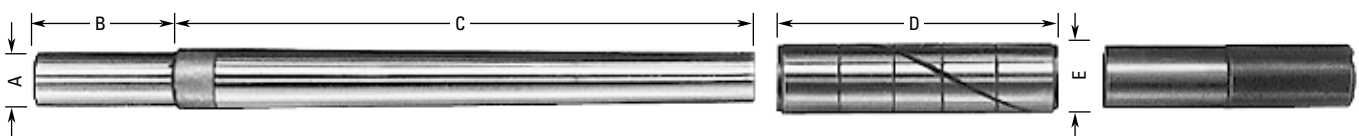


### Practical tips

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

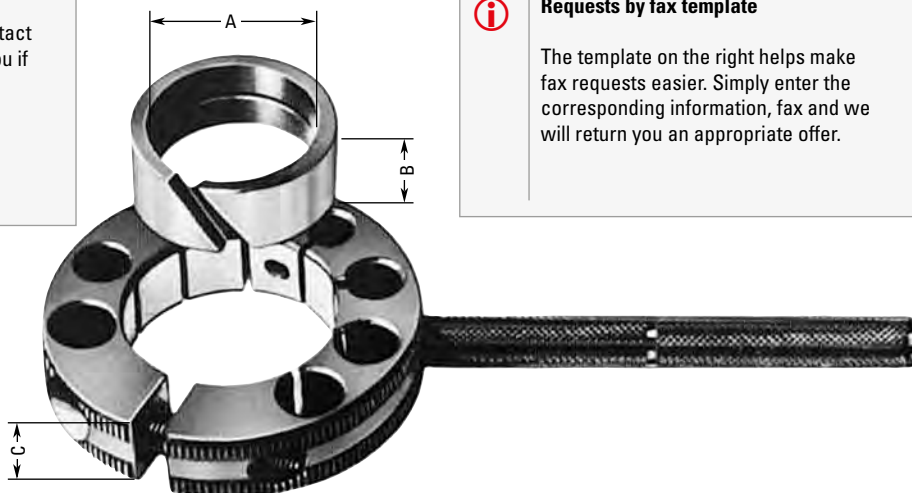
Type	Shank dimensions A x B	Cone length C	Order No.	Price from 1 piece
<b>Push-fit shafts HELICAL LAP</b>				
	3/0	Ø 3.2 x 19 mm	38 mm	<b>0 586 102</b>
	2/0	Ø 3.2 x 19 mm	41 mm	<b>0 586 103</b>
	0	Ø 3.2 x 19 mm	44 mm	<b>0 586 104</b>
	1	Ø 4.8 x 25 mm	70 mm	<b>0 586 105</b>
	2	Ø 4.8 x 25 mm	76 mm	<b>0 586 106</b>
	3	Ø 4.8 x 25 mm	102 mm	<b>0 586 107</b>
	4	Ø 5.6 x 25 mm	102 mm	<b>0 586 108</b>
	5	Ø 7.2 x 38 mm	127 mm	<b>0 586 109</b>
	6	Ø 8.0 x 38 mm	127 mm	<b>0 586 110</b>
	7	Ø 9.5 x 38 mm	152 mm	<b>0 586 111</b>
<b>Driver HELICAL LAP</b>				
	3/0			<b>0 586 152</b>
	2/0			<b>0 586 153</b>
	0			<b>0 586 154</b>
	1			<b>0 586 155</b>
	2			<b>0 586 156</b>
	3			<b>0 586 157</b>
	4			<b>0 586 158</b>
	5			<b>0 586 159</b>
	6			<b>0 586 160</b>
	7			<b>0 586 161</b>
<b>Retraction tool HELICAL LAP</b>				
	Size 0			<b>0 586 201</b>
	Size 1			<b>0 586 211</b>



#### 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 .....

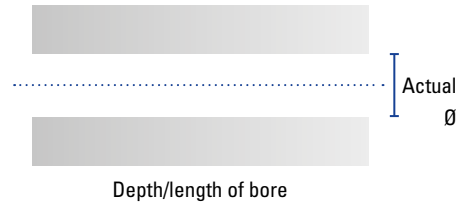
Depth/length of bore .....

Blind hole bore

yes  no

Number of internal lapping tools required

.....



### External lapping tool

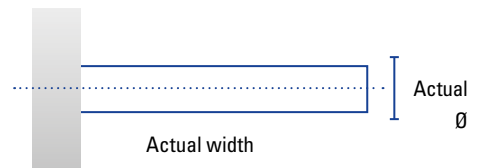
Actual Ø of shaft .....

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.

.....

Fax no.

.....

Mail

.....

### Date, signature

.....



# Polishing brushes and buff wheels

- 158** Fleece polishing wheels with shank
- 161** Polishing brushes and buff wheels with shaft
- 170** Polishing grinding discs joke HABRAS
- 176** Convolute compact grinding discs
- 177** Round brushes
- 178** Polishing buffing discs
- 180** Jet brushes
- 182** Pipe brushes
- 184** Nylon honing brushes



## Characteristics and fields of application of the brush trimmings

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

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





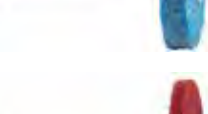

## Polishing wheels, foamed shank Ø 2.35 x 40 mm

### 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
<b>Polishing wheel, foamed, shank Ø 2.35 mm</b>									
	Ø 25 x 6 mm	medium	coarse	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 950</b>		

## 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
<b>Polishing wheel, foamed, shank Ø 3 mm</b>									
	Ø 25 x 6 mm	soft	fine	Ø 3 x 40 mm	15000 1/min	10 pieces	<b>0 570 926</b>		
		hard	medium	Ø 3 x 40 mm	15000 1/min	10 pieces	<b>0 570 923</b>		
		hard	coarse	Ø 3 x 40 mm	15000 1/min	10 pieces	<b>0 570 922</b>		
	Ø 25 x 12 mm	hard	medium	Ø 3 x 40 mm	15000 1/min	10 pieces	<b>0 570 924</b>		
		hard	coarse	Ø 3 x 40 mm	15000 1/min	10 pieces	<b>0 570 925</b>		
	Ø 30 x 3 mm	medium	medium	Ø 3 x 40 mm	15000 1/min	10 pieces	<b>0 570 933</b>		
	Ø 30 x 6 mm	soft	fine	Ø 3 x 40 mm	15000 1/min	10 pieces	<b>0 570 932</b>		
		medium	medium	Ø 3 x 40 mm	15000 1/min	10 pieces	<b>0 570 931</b>		
		hard	coarse	Ø 3 x 40 mm	15000 1/min	10 pieces	<b>0 570 930</b>		
	Ø 40 x 3 mm	medium	medium	Ø 3 x 40 mm	12000 1/min	10 pieces	<b>0 570 937</b>		
	Ø 40 x 6 mm	soft	fine	Ø 3 x 40 mm	12000 1/min	10 pieces	<b>0 570 936</b>		
		medium	medium	Ø 3 x 40 mm	12000 1/min	10 pieces	<b>0 570 935</b>		
		hard	coarse	Ø 3 x 40 mm	12000 1/min	10 pieces	<b>0 570 934</b>		

## Fleece polishing wheels shank Ø 2.35 x 40 mm




	Material	Head dimensions	Hardness	Grit size	Shank dimensions	Rotation speed max.	Packing quantity	Order No.	Price from	
									1 piece	50 pieces
<b>Abrasive fleece, shank Ø 2.35 mm, dual-layer</b>										
		Ø 25 x 6 mm	medium	medium	Ø 2.35 x 40 mm	5000 1/min	10 pieces	<b>0 570 951</b>		
		Ø 25 x 6 mm	medium	fine	Ø 2.35 x 40 mm	5000 1/min	10 pieces	<b>0 570 952</b>		
		Ø 25 x 6 mm	medium	very fine	Ø 2.35 x 40 mm	5000 1/min	10 pieces	<b>0 570 956</b>		
<b>Abrasive fleece, shank Ø 2.35 mm, triple-layer</b>										
		Ø 25 x 8 mm	medium	medium	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 953</b>		
<b>Polishing brush, shank Ø 2.35 mm</b>										
	Scotch-Brite, fine and Chung-King	Ø 22 x 8 mm			Ø 2.35 x 40 mm		10 pieces	<b>0 570 888</b>		

**NEW!**


## Polishing and deburring sets shank Ø 2.35 x 48 mm

**NEW!**

These tools are suitable for all metals, non-ferrous metals, gold and silver etc. Ideally suited for machining bores and transverse holes. Depending on the grit size, these tools can be used for deburring or polishing to a mirror finish. The polishers can be used dry and without additional compound.

	Abrasive	Grit size	Shank dimensions	Total length	Packing quantity	Order No.	Price from		
							1 set	3 set	5 set
<b>Polishing and deburring set</b>									
	corundum	fine	2.35 mm	48 mm	4 pieces	<b>0 402 104</b>			
	corundum	coarse	2.35 mm	48 mm	6 pieces	<b>0 402 105</b>			
	corundum	fine - coarse	2.35 mm	48 mm	10 pieces	<b>0 402 106</b>			

## 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
<b>Abrasive fleece, shank Ø 3 mm, triple-layer</b>								
<b>extra coarse</b>								
For deburring, derusting, etc. • firm grade	Ø 22 x 13 mm	hard	Ø 3 x 40 mm	10,000 1/min	10 pieces	<b>0 572 309</b>		
	Ø 25 x 17 mm	hard	Ø 3 x 40 mm	10,000 1/min	10 pieces	<b>0 572 310</b>		
	Ø 30 x 17 mm	hard	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 572 311</b>		
<b>very coarse</b>								
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	<b>0 570 966</b>		
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 570 940</b>		
	Ø 40 x 22 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 570 945</b>		
<b>coarse</b>								
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	<b>0 570 967</b>		
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 570 941</b>		
	Ø 40 x 22 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 570 946</b>		
<b>medium</b>								
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	<b>0 572 315</b>		
	Ø 25 x 17 mm	very hard	Ø 3 x 40 mm	10,000 1/min	10 pieces	<b>0 572 316</b>		
	Ø 30 x 17 mm	very hard	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 572 317</b>		
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	<b>0 570 968</b>		
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 570 942</b>		
	Ø 40 x 22 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 570 947</b>		
<b>fine</b>								
For processing all metals, highly versatile.	Ø 22 x 13 mm	medium	Ø 3 x 40 mm	10,000 1/min	10 pieces	<b>0 570 969</b>		
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 570 943</b>		
	Ø 40 x 22 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 570 948</b>		
<b>very fine (SIC)</b>								
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	<b>0 572 301</b>		
	Ø 25 x 17 mm	medium	Ø 3 x 40 mm	10,000 1/min	10 pieces	<b>0 572 302</b>		
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 572 303</b>		
<b>ultrafine</b>								
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	<b>0 572 305</b>		
	Ø 25 x 17 mm	soft	Ø 3 x 40 mm	10,000 1/min	10 pieces	<b>0 572 304</b>		
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 570 958</b>		
<b>without grit</b>								
Grinding nylon without grit, ideal in combination with diamond compounds or also other polishing compounds.	Ø 22 x 13 mm	medium	Ø 3 x 40 mm	10,000 1/min	10 pieces	<b>0 570 970</b>		
	Ø 30 x 17 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 570 944</b>		
	Ø 30 x 17 mm	hard	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 572 306</b>		
	Ø 40 x 22 mm	medium	Ø 3 x 40 mm	8,000 1/min	10 pieces	<b>0 570 949</b>		

## 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
<b>Polishing brushes, shank Ø 2.35 mm</b>										
<b>cup</b>										
	BAE steel, corrugated	Ø 12 x 6 mm	0.08 mm	straight	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 570</b>		
		Ø 12 x 8 mm	0.08 mm	cylindrical	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 160</b>		
		Ø 12 x 6 mm	0.10 mm	bevelled	Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 571</b>		
	V2A wire, corrugated	Ø 12 x 6 mm	0.08 mm	straight	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 520</b>		
		Ø 12 x 6 mm	0.10 mm	bevelled	Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 503</b>		
	brass, corrugated	Ø 12 x 6 mm	0.08 mm	straight	Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 610</b>		
		Ø 12 x 6 mm	0.10 mm	bevelled	Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 501</b>		
		Ø 12 x 8 mm	0.08 mm	cylindrical	Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 133</b>		
	bristles, white	Ø 8 x 4 mm		bevelled	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 663</b>		
		Ø 12 x 8 mm		straight	Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 660</b>		
		Ø 12 x 8 mm		cylindrical	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 130</b>		
		Ø 12 x 8 mm		bevelled	Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 661</b>		
	bristles, black	Ø 8 x 4 mm		bevelled	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 714</b>		
		Ø 12 x 8 mm		straight	Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 710</b>		
		Ø 12 x 8 mm		cylindrical	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 128</b>		
		Ø 12 x 8 mm		bevelled	Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 711</b>		
	nylon	Ø 8 x 4 mm		bevelled	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 754</b>		
		Ø 12 x 6 mm	0.30 mm	cylindrical	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 751-0</b>		
	goat hair, white	Ø 8 x 4 mm		bevelled	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 872</b>		
		Ø 12 x 6 mm		cylindrical	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 871-0</b>		
		Ø 12 x 8 mm		bevelled	Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 870</b>		
<b>small brushes</b>										
	V2A wire, corrugated	Ø 3 x 8 mm	0.10 mm		Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 513</b>		
		Ø 4 x 8 mm	0.10 mm		Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 510</b>		
		Ø 5.5 x 11 mm	0.10 mm		Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 511</b>		
		Ø 6 x 13 mm	0.10 mm		Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 502</b>		
	BAE steel, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 560</b>		
		Ø 5.5 x 11 mm	0.10 mm		Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 561</b>		
	brass, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 620</b>		
		Ø 5.5 x 11 mm	0.10 mm		Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 621</b>		
	bristles, white	Ø 3 x 8 mm			Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 669</b>		
		Ø 4 x 8 mm			Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 670</b>		
		Ø 5.5 x 11 mm			Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 671</b>		
	bristles, black	Ø 4 x 8 mm			Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 720</b>		
		Ø 5.5 x 11 mm			Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 721</b>		
		Ø 7 x 13 mm			Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 723</b>		
	goat hair, white	Ø 4 x 8 mm			Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 673</b>		
		Ø 5.5 x 11 mm			Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 674</b>		

## 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
<b>small brushes with elastic protection</b>										
	V2A wire, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 512</b>		
	BAE steel, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 2.35 x 35 mm	10000 1/min	10 pieces	<b>0 570 562</b>		
	brass, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 622</b>		
	bristles, white	Ø 4 x 8 mm			Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 672</b>		
	bristles, black	Ø 4 x 8 mm			Ø 2.35 x 25 mm	10000 1/min	10 pieces	<b>0 570 722</b>		
<b>wheel</b>										
	VA wire, corrugated	Ø 12 mm	0.06 mm		Ø 2.35 x 30 mm	10000 1/min	10 pieces	<b>0 570 583</b>		
		Ø 14 mm	0.06 mm		Ø 2.35 x 30 mm	10000 1/min	10 pieces	<b>0 570 585</b>		
	V2A wire, corrugated	Ø 16 x 2 mm	0.08 mm		Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 505</b>		
		Ø 19 x 2 mm	0.08 mm		Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 500</b>		
		Ø 22 x 2 mm	0.08 mm		Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 504</b>		
	BAE steel, corrugated	Ø 16 x 2 mm	0.08 mm		Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 553</b>		
		Ø 19 x 2 mm	0.08 mm		Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 551</b>		
		Ø 22 x 2 mm	0.10 mm		Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 550</b>		
	brass, corrugated	Ø 16 x 2 mm	0.10 mm		Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 605</b>		
		Ø 19 x 2 mm	0.10 mm		Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 600</b>		
		Ø 22 x 2 mm	0.08 mm		Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 601</b>		
	goat hair, grey	Ø 10 mm			Ø 2.35 x 30 mm	10000 1/min	10 pieces	<b>0 570 575</b>		
	horsehair, grey	Ø 10 mm			Ø 2.35 x 30 mm	10000 1/min	10 pieces	<b>0 570 576</b>		
	horsehair, silver-grey	Ø 10 mm			Ø 2.35 x 30 mm	10000 1/min	10 pieces	<b>0 570 577</b>		
	Chungking bristles, white	Ø 10 mm			Ø 2.35 x 30 mm	10000 1/min	10 pieces	<b>0 570 578</b>		
	cotton	Ø 10 mm			Ø 2.35 x 30 mm	10000 1/min	10 pieces	<b>0 570 579</b>		
	Scotch Brite, coarse	Ø 10 mm			Ø 2.35 x 30 mm	10000 1/min	10 pieces	<b>0 570 582</b>		
	bristles, white	Ø 16 x 1 mm			Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 653</b>		
		Ø 19 x 1 mm			Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 652</b>		
		Ø 22 x 1 mm			Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 651</b>		

## 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	10000 1/min	10 pieces	<b>0 570 703</b>			
		Ø 19 x 1 mm			Ø 2.35 x 40 mm	10000 1/min	10 pieces		<b>0 570 702</b>		
		Ø 22 x 1 mm			Ø 2.35 x 40 mm	10000 1/min	10 pieces		<b>0 570 701</b>		
	nylon	Ø 16 x 1.5 mm	0.15 mm		Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 752</b>			
		Ø 19 x 1.5 mm	0.15 mm		Ø 2.35 x 40 mm	10000 1/min	10 pieces		<b>0 570 753</b>		
		Ø 22 x 1.5 mm	0.15 mm		Ø 2.35 x 40 mm	10000 1/min	10 pieces		<b>0 570 750</b>		
	goat hair, white	Ø 16 x 1 mm			Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 851</b>			
		Ø 22 x 1 mm			Ø 2.35 x 40 mm	10000 1/min	10 pieces		<b>0 570 850</b>		

 *matching set*

**NEW!** 

	Order No.	Price from	
		1 set	3 set

### Set polishing brushes

The set contains 12 brushes in the shape of a wheel, Ø 10 mm, shaft Ø 2.35 x 40 mm with the following fill material:



















- goat hair, white
- horse hair
- goat hair, grey
- stainless steel
- steel wire
- brass wire
- Chung King bristle, black
- Chung King bristle, white
- Muslin
- cotton
- Scotch-Brite, coarse
- Nylon, smooth, white, 0.2 mm

**0 570 887**














## 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 pieces	
<b>Polishing brushes, shank Ø 3 mm</b>											
<b>cup</b>											
	BAE steel, corrugated	Ø 8 x 5 mm	0.08 mm	straight	Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 587</b>			
		Ø 10 x 6 mm	0.08 mm	straight	Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 588</b>		
	BAE steel, corrugated	Ø 12 x 6 mm	0.08 mm	straight	Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 568</b>			
		Ø 12 x 6 mm	0.10 mm	bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 573</b>		
	bristles, black	Ø 8 x 4 mm		bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 775</b>			
		Ø 12 x 8 mm		straight	Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 776</b>		
		Ø 12 x 8 mm		bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 734</b>		
	bristles, white	Ø 8 x 4 mm		bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 777</b>			
		Ø 12 x 8 mm		straight	Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 664</b>		
		Ø 12 x 8 mm		bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 735</b>		
	brass, corrugated	Ø 6.5 x 4 mm	0.08 mm	bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 785</b>			
		Ø 6.5 x 4 mm	0.10 mm	bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 786</b>		
		Ø 12 x 6 mm	0.08 mm	straight	Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 614</b>		
		Ø 12 x 6 mm	0.10 mm	bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 779</b>		
	nylon	Ø 8 x 4 mm	0.15 mm	bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 774</b>			
	horse hair, black	Ø 25 x 15 mm		bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 873</b>			
	Steel wire, corrugated	Ø 6.5 x 4 mm	0.08 mm	bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 787</b>			
	V2A wire, corrugated	Ø 12 x 6 mm	0.08 mm	straight	Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 521</b>			
	V2A wire, corrugated	Ø 12 x 6 mm	0.10 mm	bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 736</b>			
	goat hair, grey	Ø 25 x 15 mm		bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 874</b>			
	goat hair, white	Ø 8 x 4 mm		bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 773</b>			
		Ø 12 x 8 mm		bevelled	Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 733</b>		
<b>small brushes</b>											
	BAE steel, corrugated	Ø 5.5 x 11 mm	0.10 mm		Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 564</b>			
	bristles, black	Ø 4 x 8 mm			Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 727</b>			
		Ø 5.5 x 11 mm			Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 737</b>		
		Ø 7 x 13 mm			Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 728</b>		
	bristles, white	Ø 3 x 8 mm			Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 668</b>			
		Ø 4 x 8 mm			Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 676</b>		
		Ø 5.5 x 11 mm			Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 677</b>		
	brass, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 625</b>			
		Ø 5.5 x 11 mm	0.10 mm		Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 626</b>		
	V2A wire, corrugated	Ø 3 x 8 mm	0.10 mm		Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 761</b>			
		Ø 4 x 8 mm	0.10 mm		Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 762</b>		
		Ø 5.5 x 11 mm	0.10 mm		Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 763</b>		
		Ø 6 x 13 mm	0.10 mm		Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 729</b>		
	goat hair, white	Ø 4 x 8 mm			Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 679</b>			
		Ø 5.5 x 11 mm			Ø 3 x 30 mm	10000 1/min	10 pieces		<b>0 570 760</b>		

## 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 pieces	
<b>small brushes with elastic protection</b>											
	BAE steel, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 567</b>			
	bristles, black	Ø 4 x 8 mm			Ø 3 x 25 mm	10000 1/min	10 pieces	<b>0 570 719</b>			
	bristles, white	Ø 4 x 8 mm			Ø 3 x 25 mm	10000 1/min	10 pieces	<b>0 570 678</b>			
	brass, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 764</b>			
	V2A wire, corrugated	Ø 4 x 8 mm	0.10 mm		Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 765</b>			
<b>wheel</b>											
	BAE steel, corrugated	Ø 16 x 2 mm	0.08 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 770</b>			
		Ø 19 x 2 mm	0.08 mm		Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 771</b>			
		Ø 22 x 2 mm	0.08 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 554</b>			
	cotton	Ø 10 mm			Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 794</b>			
		bristles, black	Ø 16 x 1 mm			Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 709</b>		
			Ø 19 x 1 mm			Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 708</b>		
	bristles, white	Ø 22 x 1 mm			Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 731</b>			
		Ø 16 x 1 mm			Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 657</b>			
		Ø 19 x 1 mm			Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 656</b>			
	Chungking bristles, black	Ø 22 x 1 mm			Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 732</b>			
		Ø 10 mm			Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 793</b>			
		Chungking bristles, white	Ø 10 mm			Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 792</b>		
	brass, corrugated	Ø 10 mm	0.08 mm		Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 795</b>			
		Ø 16 x 2 mm	0.10 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 769</b>			
		Ø 19 x 2 mm	0.10 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 607</b>			
		Ø 22 x 2 mm	0.08 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 603</b>			
		Ø 32 x 2 mm	0.10 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 602</b>			
	nylon	Ø 16 x 1.5 mm	0.15 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 767</b>			
		Ø 19 x 1.5 mm	0.15 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 768</b>			
		Ø 22 x 1.5 mm	0.15 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 755</b>			
	horsehair, grey	Ø 10 mm			Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 790</b>			
	horsehair, silver-grey	Ø 10 mm			Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 791</b>			
	Scotch Brite, rough	Ø 10 mm			Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 798</b>			
	Steel wire, corrugated	Ø 10 mm	0.08 mm		Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 797</b>			
	V2A wire, corrugated	Ø 16 x 2 mm	0.08 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 772</b>			
		Ø 19 x 2 mm	0.08 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 508</b>			
		Ø 22 x 2 mm	0.08 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 506</b>			
	SS wire, corrugated	Ø 10 mm	0.08 mm		Ø 3 x 30 mm	10000 1/min	10 pieces	<b>0 570 796</b>			
		Ø 12 mm	0.06 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 584</b>			
		Ø 14 mm	0.06 mm		Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 586</b>			








## 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 pieces
	goat hair, grey	Ø 10 mm			Ø 3 x 30 mm	10,000 1/min	10 pieces	<b>0 570 789</b>		
	goat hair, white	Ø 10 mm			Ø 3 x 30 mm	10,000 1/min	10 pieces	<b>0 570 788</b>		
		Ø 16 x 1 mm			Ø 3 x 37 mm	10,000 1/min	10 pieces	<b>0 570 766</b>		
		Ø 22 x 1 mm			Ø 3 x 37 mm	10,000 1/min	10 pieces	<b>0 570 730</b>		

## Polishing brushes



### shank Ø 6 mm

	Material	Head dimensions	Trimming Ø	Shank dimensions	Rotation speed max.	Order No.	Price from	
							1 piece	25 pieces
<b>Polishing brushes, shank Ø 6 mm</b>								
<b>wheel</b>								
	goat hair	Ø 45 / 25 x 4 mm	0.10 mm	Ø 6 x 40 mm	10000 1/min	<b>0 570 243</b>		
	cotton	Ø 45 / 25 x 4 mm		Ø 6 x 40 mm	10000 1/min	<b>0 570 246</b>		
	fleece, 8 layers	Ø 80 / 40 x 8 mm		Ø 6 x 40 mm	10000 1/min	<b>0 570 144</b>		
	perlon	Ø 45 / 25 x 4 mm	0.30 mm	Ø 6 x 40 mm	10000 1/min	<b>0 570 244</b>		
	bristles, black	Ø 45 / 25 x 4 mm		Ø 6 x 40 mm	10000 1/min	<b>0 570 245</b>		
	brass wire	Ø 30 / 18 x 6 mm	0.10 mm	Ø 6 x 40 mm	10000 1/min	<b>0 570 223</b>		
		Ø 50 / 25 x 6 mm	0.10 mm	Ø 6 x 40 mm	10000 1/min	<b>0 570 229</b>		
	Bessemer wire	Ø 45 / 25 x 4 mm	0.10 mm	Ø 6 x 40 mm	10000 1/min	<b>0 570 241</b>		

## Diamond polishing brushes shank Ø 3 mm **NEW!**


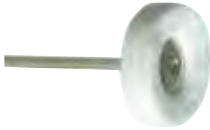



Material	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from		
						1 piece	5 pieces	10 pieces
<b>Polishing brushes, shank Ø 3 mm</b>								
<b>cup</b>								
	Nylon-Diamond	Ø 25 x 8 mm	# 400	Ø 3 x 30 mm	10000 1/min	<b>0 572 370</b>		
		Ø 25 x 8 mm	# 600	Ø 3 x 30 mm	10000 1/min	<b>0 572 371</b>		
		Ø 25 x 8 mm	# 800	Ø 3 x 30 mm	10000 1/min	<b>0 572 372</b>		
	Nylon-SiC	Ø 14 x 7 mm	# 400	Ø 3 x 30 mm	10000 1/min	<b>0 572 373</b>		
		Ø 14 x 7 mm	# 600	Ø 3 x 30 mm	10000 1/min	<b>0 572 374</b>		
		Ø 14 x 7 mm	# 800	Ø 3 x 30 mm	10000 1/min	<b>0 572 375</b>		
Nylon-SiC	Ø 25 x 8 mm	# 120	Ø 3 x 30 mm	10000 1/min	<b>0 572 385</b>			
	Ø 25 x 8 mm	# 320	Ø 3 x 30 mm	10000 1/min	<b>0 572 386</b>			
	Ø 25 x 8 mm	# 500	Ø 3 x 30 mm	10000 1/min	<b>0 572 387</b>			
	Ø 30 x 8 mm	# 120	Ø 3 x 30 mm	10000 1/min	<b>0 572 388</b>			
	Ø 30 x 8 mm	# 320	Ø 3 x 30 mm	10000 1/min	<b>0 572 389</b>			
		Ø 30 x 8 mm	# 500	Ø 3 x 30 mm	10000 1/min	<b>0 572 390</b>		
<b>wheel</b>								
	Nylon-Diamond	Ø 20 x 2 mm	# 400	Ø 3 x 30 mm	10000 1/min	<b>0 572 376</b>		
		Ø 20 x 2 mm	# 600	Ø 3 x 30 mm	10000 1/min	<b>0 572 377</b>		
		Ø 20 x 2 mm	# 800	Ø 3 x 30 mm	10000 1/min	<b>0 572 378</b>		
		Ø 25 x 2 mm	# 400	Ø 3 x 30 mm	10000 1/min	<b>0 572 379</b>		
		Ø 25 x 2 mm	# 600	Ø 3 x 30 mm	10000 1/min	<b>0 572 380</b>		
		Ø 25 x 2 mm	# 800	Ø 3 x 30 mm	10000 1/min	<b>0 572 381</b>		

## Diamond polishing brushes shank Ø 6 mm **NEW!**

Material	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from		
						1 piece	5 pieces	10 pieces
<b>Polishing brushes, shank Ø 6 mm</b>								
<b>cup</b>								
	Nylon-SiC	Ø 40 x 24 mm	# 80	Ø 6 x 40 mm	10000 1/min	<b>0 572 400</b>		
		Ø 40 x 24 mm	# 120	Ø 6 x 40 mm	10000 1/min	<b>0 572 401</b>		
		Ø 40 x 24 mm	# 240	Ø 6 x 40 mm	10000 1/min	<b>0 572 402</b>		
		Ø 50 x 24 mm	# 80	Ø 6 x 40 mm	10000 1/min	<b>0 572 403</b>		
		Ø 50 x 24 mm	# 120	Ø 6 x 40 mm	10000 1/min	<b>0 572 404</b>		
		Ø 50 x 24 mm	# 240	Ø 6 x 40 mm	10000 1/min	<b>0 572 405</b>		
<b>wheel</b>								
	Nylon-SiC	Ø 40 x 10 mm	# 80	Ø 6 x 40 mm	10000 1/min	<b>0 572 391</b>		
		Ø 40 x 10 mm	# 120	Ø 6 x 40 mm	10000 1/min	<b>0 572 392</b>		
		Ø 40 x 10 mm	# 240	Ø 6 x 40 mm	10000 1/min	<b>0 572 393</b>		
		Ø 50 x 10 mm	# 80	Ø 6 x 40 mm	10000 1/min	<b>0 572 394</b>		
		Ø 50 x 10 mm	# 120	Ø 6 x 40 mm	10000 1/min	<b>0 572 395</b>		
		Ø 50 x 10 mm	# 240	Ø 6 x 40 mm	10000 1/min	<b>0 572 396</b>		
		Ø 65 x 10 mm	# 80	Ø 6 x 40 mm	10000 1/min	<b>0 572 397</b>		
		Ø 65 x 10 mm	# 120	Ø 6 x 40 mm	10000 1/min	<b>0 572 398</b>		
		Ø 65 x 10 mm	# 240	Ø 6 x 40 mm	10000 1/min	<b>0 572 399</b>		




## 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
<b>Polishing buff wheels, shank Ø 2.35 mm</b>									
	fine cotton		Ø 22 x 6 mm	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 900</b>		
	felt	3 layers	Ø 22 x 6 mm	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 980</b>		
	deerskin	5 layers	Ø 22 x 8 mm	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 800</b>		
	muslin	16 layers	Ø 22 x 3 mm	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 990</b>		
	fleece	16 layers	Ø 21 x 3 mm	Ø 2.35 x 40 mm	10000 1/min	10 pieces	<b>0 570 143</b>		



## 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
<b>Polishing buff wheels, shank Ø 3 mm</b>									
	fine cotton		Ø 22 x 6 mm	Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 900-0</b>		
	felt	3 layers	Ø 22 x 6 mm	Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 984</b>		
	deerskin	5 layers	Ø 22 x 8 mm	Ø 3 x 37 mm	10000 1/min	10 pieces	<b>0 570 801</b>		



## Polishing grinding discs 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

\* HABRAS 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
<b>Polishing grinding discs joke HABRAS Discs, shank Ø 3 x 40 mm</b>										
<b>corundum</b>										
	coarse	Ø 19 mm	P 80	yellow	Ø 3 x 40 mm	20000 1/min	<b>0 571 031</b>			
	standard	Ø 19 mm	P 220	red	Ø 3 x 40 mm	20000 1/min	<b>0 571 032</b>			
	fine	Ø 19 mm	P 400	blue	Ø 3 x 40 mm	20000 1/min	<b>0 571 033</b>			
<b>Pumice</b>										
	very fine	Ø 19 mm	-	pink	Ø 3 x 40 mm	20000 1/min	<b>0 571 034</b>			
<b>extra fine high-grade corundum</b>										
	high gloss	Ø 19 mm	1 µm	light green	Ø 3 x 40 mm	20000 1/min	<b>0 571 036</b>			
	shine	Ø 19 mm	6 µm	orange	Ø 3 x 40 mm	20000 1/min	<b>0 571 035</b>			








**TIP:**

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

Replacement discs for shank mounting on page 174!










## 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	
<b>Polishing grinding discs joke HABRAS Discs Pro, shank Ø 3 x 40 mm</b>										
<b>corundum</b>										
	extra coarse	Ø 25 x 4 mm	P 36	brown	Ø 3 x 37 mm	20000 1/min	<b>0 571 067</b>			
	very coarse	Ø 25 x 4 mm	P 50	green	Ø 3 x 37 mm	20000 1/min	<b>0 571 068</b>			
	coarse	Ø 25 x 4 mm	P 80	yellow	Ø 3 x 37 mm	20000 1/min	<b>0 571 061</b>			
	medium	Ø 25 x 4 mm	P 120	white	Ø 3 x 37 mm	20000 1/min	<b>0 571 069</b>			
	standard	Ø 25 x 4 mm	P 220	red	Ø 3 x 37 mm	20000 1/min	<b>0 571 062</b>			
<b>extra fine high-grade corundum</b>										
	fine	Ø 25 x 4 mm	P 400	blue	Ø 3 x 37 mm	20000 1/min	<b>0 571 063</b>			

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

 1  
**2**  
 3  
 4  
 5  
 6  
 7

Polish	Head dimensions	Grit size	Colour	Shank dimensions	Rotation speed max.	Order No.	Price from		
							1 piece	5 pieces	10 pieces
<b>Polishing grinding discs joke HABRAS Discs, 4 layers, shank Ø 6 x 40 mm</b>									
<b>corundum</b>									
	coarse	Ø 51 x 5 mm	P 80	yellow	Ø 6 x 40 mm	12500 1/min	<b>0 571 501</b>		
		Ø 76 x 5 mm	P 80	yellow	Ø 6 x 40 mm	7500 1/min	<b>0 571 511</b>		
	medium	Ø 51 x 5 mm	P 120	white	Ø 6 x 40 mm	12500 1/min	<b>0 571 509</b>		
		Ø 76 x 5 mm	P 120	white	Ø 6 x 40 mm	7500 1/min	<b>0 571 519</b>		
	standard	Ø 51 x 5 mm	P 220	red	Ø 6 x 40 mm	12500 1/min	<b>0 571 502</b>		
		Ø 76 x 5 mm	P 220	red	Ø 6 x 40 mm	7500 1/min	<b>0 571 512</b>		
	fine	Ø 51 x 5 mm	P 400	blue	Ø 6 x 40 mm	12500 1/min	<b>0 571 503</b>		
		Ø 76 x 5 mm	P 400	blue	Ø 6 x 40 mm	7500 1/min	<b>0 571 513</b>		
<b>Pumice</b>									
	very fine	Ø 51 x 5 mm	-	pink	Ø 6 x 40 mm	12500 1/min	<b>0 571 504</b>		
<b>extra fine high-grade corundum</b>									
	shine	Ø 51 x 5 mm	6 µm	orange	Ø 6 x 40 mm	12500 1/min	<b>0 571 505</b>		
		Ø 76 x 5 mm	6 µm	orange	Ø 6 x 40 mm	7500 1/min	<b>0 571 515</b>		
	high gloss	Ø 51 x 5 mm	1 µm	light green	Ø 6 x 40 mm	12500 1/min	<b>0 571 506</b>		
		Ø 76 x 5 mm	1 µm	light green	Ø 6 x 40 mm	7500 1/min	<b>0 571 516</b>		

## 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
<b>Polishing grinding discs joke HABRAS without shank</b>										
 Ø 19 mm	1.8 mm	coarse	P 80	yellow	20000 1/min	4 pieces	<b>0 571 037</b>			
	1.8 mm	coarse	P 80	yellow	20000 1/min	48 pieces	<b>0 571 043</b>			
	1.8 mm	medium	P 120	white	20000 1/min	4 pieces	<b>0 571 075</b>			
	1.8 mm	medium	P 120	white	20000 1/min	48 pieces	<b>0 571 076</b>			
	1.8 mm	standard	P 220	red	20000 1/min	4 pieces	<b>0 571 038</b>			
	1.8 mm	standard	P 220	red	20000 1/min	48 pieces	<b>0 571 044</b>			
	1.8 mm	fine	P 400	blue	20000 1/min	4 pieces	<b>0 571 039</b>			
	1.8 mm	fine	P 400	blue	20000 1/min	48 pieces	<b>0 571 045</b>			
	1.8 mm	very fine	-	pink	20000 1/min	4 pieces	<b>0 571 040</b>			
	1.8 mm	very fine	-	pink	20000 1/min	48 pieces	<b>0 571 046</b>			
	1.8 mm	shine	6 µm	orange	20000 1/min	4 pieces	<b>0 571 041</b>			
	1.8 mm	shine	6 µm	orange	20000 1/min	48 pieces	<b>0 571 047</b>			
	1.8 mm	high gloss	1 µm	light green	20000 1/min	4 pieces	<b>0 571 042</b>			
	1.8 mm	high gloss	1 µm	light green	20000 1/min	48 pieces	<b>0 571 048</b>			

Dimensions	Drilling dimension	Polish	Grit size	Colour	Rotation speed max.	Order No.	Price from		
							1 piece	5 pieces	10 pieces
<b>Polishing grinding discs joke HABRAS without shank</b>									
 Ø 51 x 5 mm	5 mm	coarse	P 80	yellow	12500 1/min	<b>0 571 521</b>			
	5 mm	medium	P 120	white	12500 1/min	<b>0 571 529</b>			
	5 mm	standard	P 220	red	12500 1/min	<b>0 571 522</b>			
	5 mm	fine	P 400	blue	12500 1/min	<b>0 571 523</b>			
	5 mm	very fine	-	pink	12500 1/min	<b>0 571 524</b>			
	5 mm	shine	6 µm	orange	12500 1/min	<b>0 571 525</b>			
	5 mm	high gloss	1 µm	light green	12500 1/min	<b>0 571 526</b>			
Ø 76 x 5 mm	5 mm	coarse	P 80	yellow	7500 1/min	<b>0 571 531</b>			
	5 mm	medium	P 120	white	7500 1/min	<b>0 571 539</b>			
	5 mm	standard	P 220	red	7500 1/min	<b>0 571 532</b>			
	5 mm	fine	P 400	blue	7500 1/min	<b>0 571 533</b>			
	5 mm	shine	6 µm	orange	7500 1/min	<b>0 571 535</b>			
	5 mm	high gloss	1 µm	light green	7500 1/min	<b>0 571 536</b>			



#### Matching mounting shanks on page 220:

- 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!

									Price from	
	Abrasive	Fibre	Head dimensions	Grit size	Colour	Shank dimensions	Rotation speed max.	Order No.	1 piece	10 pieces
<b>Polishing grinding brushes joke HABRAS shank Ø 3 x 40 mm</b>										
<b>cup</b>										
	corundum	coarse	Ø 12 / 6 mm	P 320	blue/red	Ø 3 x 40 mm	2800 1/min	<b>0 571 013</b>		
		medium	Ø 12 / 6 mm	P 500	blue/green	Ø 3 x 40 mm	2800 1/min	<b>0 571 012</b>		
		fine	Ø 12 / 6 mm	P 600	blue	Ø 3 x 40 mm	2800 1/min	<b>0 571 011</b>		
	SiC	coarse	Ø 12 / 6 mm	P 320	green	Ø 3 x 40 mm	2800 1/min	<b>0 571 016</b>		
		medium	Ø 12 / 6 mm	P 500	red	Ø 3 x 40 mm	2800 1/min	<b>0 571 015</b>		
		extra fine	Ø 12 / 6 mm	P 800	white	Ø 3 x 40 mm	2800 1/min	<b>0 571 014</b>		
<b>small brushes</b>										
	corundum	coarse	Ø 5 / 8 mm	P 320	blue/red	Ø 3 x 40 mm	6000 1/min	<b>0 571 023</b>		
		medium	Ø 5 / 8 mm	P 500	blue/green	Ø 3 x 40 mm	6000 1/min	<b>0 571 022</b>		
		fine	Ø 5 / 8 mm	P 600	blue	Ø 3 x 40 mm	6000 1/min	<b>0 571 021</b>		
	SiC	coarse	Ø 5 / 8 mm	P 320	green	Ø 3 x 40 mm	6000 1/min	<b>0 571 026</b>		
		medium	Ø 5 / 8 mm	P 500	red	Ø 3 x 40 mm	6000 1/min	<b>0 571 025</b>		
		extra fine	Ø 5 / 8 mm	P 800	white	Ø 3 x 40 mm	6000 1/min	<b>0 571 024</b>		
<b>wheel</b>										
	corundum	coarse	Ø 22 mm	P 320	blue/red	Ø 3 x 37 mm	6000 1/min	<b>0 571 003</b>		
		medium	Ø 22 mm	P 500	blue/green	Ø 3 x 37 mm	6000 1/min	<b>0 571 002</b>		
		fine	Ø 22 mm	P 600	blue	Ø 3 x 37 mm	6000 1/min	<b>0 571 001</b>		
	SiC	coarse	Ø 22 mm	P 320	green	Ø 3 x 37 mm	6000 1/min	<b>0 571 006</b>		
		medium	Ø 22 mm	P 500	red	Ø 3 x 37 mm	6000 1/min	<b>0 571 005</b>		
		extra fine	Ø 22 mm	P 800	white	Ø 3 x 37 mm	6000 1/min	<b>0 571 004</b>		

## 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	5 pieces
<b>Convolute compact grinding discs</b>									
<b>Corundum</b>									
	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	5500 1/min	<b>0 430 021</b>		
		Ø 200 x 25.4 mm	76.2 mm	7	A-Medium	4500 1/min	<b>0 430 022</b>		
<b>Silicon carbide</b>									
	For final finishing on stainless steel, titanium, cobalt chrome and nickel alloys.	Ø 150 x 12.5 mm	25.4 mm	7	S-Fine	5500 1/min	<b>0 430 031</b>		
		Ø 150 x 25.4 mm	25.4 mm	7	S-Fine	5500 1/min	<b>0 430 033</b>		
		Ø 200 x 25.4 mm	76.2 mm	7	S-Medium	4500 1/min	<b>0 430 036</b>		
		Ø 200 x 25.4 mm	76.2 mm	7	S-Fine	4500 1/min	<b>0 430 037</b>		
		Ø 200 x 25.4 mm	76.2 mm	9	S-Medium	4500 1/min	<b>0 430 040</b>		
		Ø 200 x 25.4 mm	76.2 mm	9	S-Fine	4500 1/min	<b>0 430 041</b>		



#### Applications for the convolute compact grinding discs

Application	Specification	Recommended working speed
<b>Cleaning:</b> 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.
<b>Deburring:</b> 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.
<b>Overlaying:</b> 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.
<b>Final finishing:</b> 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
<b>Round brushes with nylon grinding bristles (silicon-carbide-embedded)</b>							
	Ø 75 x 12 mm	K 80	15.9 mm	20000 1/min	<b>0 571 370</b>		
		K 120	15.9 mm	20000 1/min	<b>0 571 371</b>		
		K 180	15.9 mm	20000 1/min	<b>0 571 372</b>		
		K 320	15.9 mm	20000 1/min	<b>0 571 373</b>		
	Ø 100 x 13 mm	K 80	15.9 mm	12000 1/min	<b>0 571 374</b>		
		K 120	15.9 mm	12000 1/min	<b>0 571 375</b>		
		K 180	15.9 mm	12000 1/min	<b>0 571 376</b>		
		K 320	15.9 mm	12000 1/min	<b>0 571 377</b>		
	Ø 125 x 16 mm	K 80	15.9 mm	12000 1/min	<b>0 571 378</b>		
		K 120	15.9 mm	12000 1/min	<b>0 571 379</b>		
		K 180	15.9 mm	12000 1/min	<b>0 571 380</b>		
		K 320	15.9 mm	12000 1/min	<b>0 571 381</b>		
	Ø 150 x 18 mm	K 80	20 mm	6000 1/min	<b>0 571 382</b>		
		K 120	20 mm	6000 1/min	<b>0 571 383</b>		
		K 180	20 mm	6000 1/min	<b>0 571 384</b>		
		K 320	20 mm	6000 1/min	<b>0 571 385</b>		

### Accessories / spare parts

		for bore dimensions	Shank dimensions	Order No.	Price from 1 piece
<b>Clamping mandrel</b>					
	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	<b>0 571 400</b>	

1  
**2**  
 3  
 4  
 5  
 6  
 7

## 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
<b>Polishing buffing discs OPTI</b>						
	Ø 200 x 20 mm	cotton, soft	15.9 mm	3000 1/min	<b>0 041 622</b>	
		cotton, hard (quilted)	15.9 mm	3000 1/min	<b>0 041 623</b>	
	Ø 250 x 25 mm	cotton, soft	20 mm	3000 1/min	<b>0 041 632</b>	
		cotton, hard (quilted)	20 mm	3000 1/min	<b>0 041 633</b>	

### The perfect complement

#### OPTI polish

The ideal polishing machine for fine machining



Order No.	Price
<b>0 041 620-0</b>	



### The perfect complement



Order No.	Price
<b>0 580 560</b>	

### The perfect complement

#### Protective goggles

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



Order No.	Price
<b>0 203 083-1</b>	

### 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
<b>0 580 526</b>	

# 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 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
<b>Drilling brushes</b>									
<b>Wire, crossed</b>									
	Ø 3 x 30 mm	Ø 0.7 mm	Ø 3 x 70 mm	100 mm	700 1/min	<b>0 571 721</b>			
	Ø 4 x 30 mm	Ø 0.7 mm	Ø 3 x 70 mm	100 mm	700 1/min	<b>0 571 722</b>			
	Ø 5 x 30 mm	Ø 0.7 mm	Ø 4 x 50 mm	100 mm	700 1/min	<b>0 571 723</b>			
	Ø 6 x 30 mm	Ø 0.7 mm	Ø 4 x 50 mm	100 mm	700 1/min	<b>0 571 724</b>			
	Ø 7 x 30 mm	Ø 0.7 mm	Ø 5 x 50 mm	100 mm	700 1/min	<b>0 571 725</b>			
	Ø 8 x 35 mm	Ø 0.7 mm	Ø 5 x 45 mm	100 mm	700 1/min	<b>0 571 726</b>			
<b>Wire, oval</b>									
	Ø 3 x 30 mm	Ø 0.7 mm	Ø 3 x 70 mm	100 mm	700 1/min	<b>0 571 701</b>			
	Ø 4 x 30 mm	Ø 0.7 mm	Ø 3 x 70 mm	100 mm	700 1/min	<b>0 571 702</b>			
	Ø 5 x 30 mm	Ø 0.7 mm	Ø 4 x 50 mm	100 mm	700 1/min	<b>0 571 703</b>			
	Ø 6 x 30 mm	Ø 0.7 mm	Ø 5 x 50 mm	100 mm	700 1/min	<b>0 571 704</b>			
	Ø 7 x 40 mm	Ø 0.7 mm	Ø 5 x 40 mm	100 mm	700 1/min	<b>0 571 705</b>			
	Ø 8 x 40 mm	Ø 0.7 mm	Ø 5 x 40 mm	100 mm	700 1/min	<b>0 571 706</b>			
	Ø 9 x 45 mm	Ø 0.7 mm	Ø 6 x 35 mm	100 mm	700 1/min	<b>0 571 707</b>			
<b>Wire, knotted</b>									
	Ø 5 x 30 mm	Ø 0.7 mm	Ø 4 x 50 mm	100 mm	700 1/min	<b>0 571 711</b>			
	Ø 6 x 30 mm	Ø 0.7 mm	Ø 4 x 50 mm	100 mm	700 1/min	<b>0 571 712</b>			
	Ø 7 x 30 mm	Ø 0.7 mm	Ø 5 x 50 mm	100 mm	700 1/min	<b>0 571 713</b>			
	Ø 8 x 30 mm	Ø 0.7 mm	Ø 5 x 50 mm	100 mm	700 1/min	<b>0 571 714</b>			
	Ø 9 x 30 mm	Ø 0.7 mm	Ø 6 x 50 mm	100 mm	700 1/min	<b>0 571 715</b>			
	Ø 10 x 30 mm	Ø 0.7 mm	Ø 6 x 50 mm	100 mm	700 1/min	<b>0 571 716</b>			
	Ø 11 x 30 mm	Ø 0.7 mm	Ø 6 x 50 mm	100 mm	700 1/min	<b>0 571 717</b>			

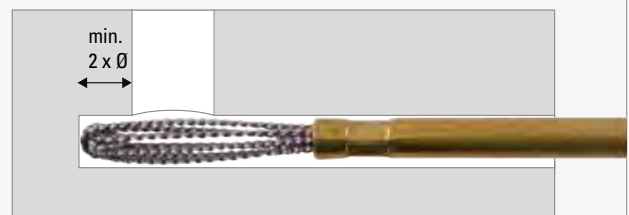


The drilling brushes are available with three different head versions:

**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



### 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
<b>Jet brushes, cylinders, shaft with eyelets</b>								
<b>Nylon</b>								
	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	<b>0 571 240</b>		
		Ø 3 x 100 mm	0.10 mm	Ø 1.6 x 200 mm	300 mm	<b>0 571 241</b>		
		Ø 4 x 100 mm	0.15 mm	Ø 1.4 x 200 mm	300 mm	<b>0 571 200</b>		
		Ø 5 x 100 mm	0.15 mm	Ø 1.8 x 200 mm	300 mm	<b>0 571 201</b>		
		Ø 6 x 100 mm	0.15 mm	Ø 1.8 x 200 mm	300 mm	<b>0 571 202</b>		
		Ø 8 x 100 mm	0.25 mm	Ø 2.6 x 200 mm	300 mm	<b>0 571 203</b>		
		Ø 10 x 100 mm	0.25 mm	Ø 2.6 x 200 mm	300 mm	<b>0 571 204</b>		
		Ø 12 x 100 mm	0.25 mm	Ø 2.6 x 200 mm	300 mm	<b>0 571 205</b>		
		Ø 15 x 100 mm	0.25 mm	Ø 2.6 x 200 mm	300 mm	<b>0 571 206</b>		
		Ø 18 x 100 mm	0.25 mm	Ø 2.6 x 200 mm	300 mm	<b>0 571 207</b>		
		Ø 20 x 100 mm	0.25 mm	Ø 2.6 x 200 mm	300 mm	<b>0 571 208</b>		
		Ø 25 x 100 mm	0.35 mm	Ø 3.2 x 200 mm	300 mm	<b>0 571 209</b>		
<b>Corrugated brass wire</b>								
	Silkier 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	<b>0 571 210</b>		
		Ø 5 x 100 mm	0.08 mm	Ø 1.8 x 200 mm	300 mm	<b>0 571 211</b>		
		Ø 6 x 100 mm	0.15 mm	Ø 1.8 x 200 mm	300 mm	<b>0 571 212</b>		
		Ø 8 x 100 mm	0.15 mm	Ø 2.8 x 200 mm	300 mm	<b>0 571 213</b>		
		Ø 10 x 100 mm	0.15 mm	Ø 2.8 x 200 mm	300 mm	<b>0 571 214</b>		
		Ø 12 x 100 mm	0.15 mm	Ø 2.8 x 200 mm	300 mm	<b>0 571 215</b>		
		Ø 15 x 100 mm	0.15 mm	Ø 4.6 x 200 mm	300 mm	<b>0 571 216</b>		
		Ø 18 x 100 mm	0.15 mm	Ø 4.6 x 200 mm	300 mm	<b>0 571 217</b>		
		Ø 20 x 100 mm	0.20 mm	Ø 4.6 x 200 mm	300 mm	<b>0 571 218</b>		
		Ø 25 x 100 mm	0.20 mm	Ø 4.6 x 200 mm	300 mm	<b>0 571 219</b>		

## Jet brushes shaft with eyelets

	Head dimensions	Trimming Ø	Shank dimensions	Total length	Order No.	Price from	
						1 piece	10 pieces
<b>Corrugated steel wire</b>							
 <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	<b>0 571 220</b>		
	Ø 5 x 100 mm	0.10 mm	Ø 1.8 x 200 mm	300 mm	<b>0 571 221</b>		
	Ø 6 x 100 mm	0.10 mm	Ø 1.8 x 200 mm	300 mm	<b>0 571 222</b>		
	Ø 8 x 100 mm	0.15 mm	Ø 3.7 x 200 mm	300 mm	<b>0 571 223</b>		
	Ø 10 x 100 mm	0.15 mm	Ø 3.7 x 200 mm	300 mm	<b>0 571 224</b>		
	Ø 12 x 100 mm	0.15 mm	Ø 3.7 x 200 mm	300 mm	<b>0 571 225</b>		
	Ø 15 x 100 mm	0.15 mm	Ø 4.6 x 200 mm	300 mm	<b>0 571 226</b>		
	Ø 18 x 100 mm	0.15 mm	Ø 4.6 x 200 mm	300 mm	<b>0 571 227</b>		
	Ø 20 x 100 mm	0.20 mm	Ø 4.6 x 200 mm	300 mm	<b>0 571 228</b>		
	Ø 25 x 100 mm	0.20 mm	Ø 4.6 x 200 mm	300 mm	<b>0 571 229</b>		
<b>Stainless steel wire, corrugated</b>							
 <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	<b>0 571 230</b>		
	Ø 5 x 100 mm	0.10 mm	Ø 1.8 x 200 mm	300 mm	<b>0 571 231</b>		
	Ø 6 x 100 mm	0.10 mm	Ø 1.8 x 200 mm	300 mm	<b>0 571 232</b>		
	Ø 8 x 100 mm	0.15 mm	Ø 1.8 x 200 mm	300 mm	<b>0 571 233</b>		
	Ø 10 x 100 mm	0.15 mm	Ø 3.7 x 200 mm	300 mm	<b>0 571 234</b>		
	Ø 12 x 100 mm	0.15 mm	Ø 3.7 x 200 mm	300 mm	<b>0 571 235</b>		
	Ø 15 x 100 mm	0.15 mm	Ø 4.6 x 200 mm	300 mm	<b>0 571 236</b>		
	Ø 25 x 100 mm	0.15 mm	Ø 4.6 x 200 mm	300 mm	<b>0 571 239</b>		

## Jet brushes stainless steel shank with eyelets

	Head dimensions	Trimming Ø	Shank dimensions	Total length	Order No.	Price from	
						1 piece	10 pieces
<b>Jet brush, cylinder, stainless steel shank with eyelets</b>							
<b>Nylon</b>							
 <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	<b>0 571 801</b>		
	3 x 100 mm	0.10 mm	Ø 1.50 x 200 mm	300 mm	<b>0 571 802</b>		
	4 x 100 mm	0.10 mm	Ø 2.22 x 200 mm	300 mm	<b>0 571 803</b>		
	5 x 100 mm	0.10 mm	Ø 2.22 x 200 mm	300 mm	<b>0 571 804</b>		
	6 x 100 mm	0.10 mm	Ø 2.22 x 200 mm	300 mm	<b>0 571 805</b>		
	8 x 100 mm	0.15 mm	Ø 2.22 x 200 mm	300 mm	<b>0 571 806</b>		
	10 x 100 mm	0.15 mm	Ø 2.22 x 200 mm	300 mm	<b>0 571 807</b>		
	12 x 100 mm	0.15 mm	Ø 2.22 x 200 mm	300 mm	<b>0 571 808</b>		
	20 x 100 mm	0.15 mm	Ø 2.96 x 200 mm	300 mm	<b>0 571 809</b>		
	30 x 100 mm	0.30 mm	Ø 3.33 x 200 mm	300 mm	<b>0 571 810</b>		
	40 x 100 mm	0.30 mm	Ø 3.70 x 200 mm	300 mm	<b>0 571 811</b>		
	60 x 100 mm	0.30 mm	Ø 3.70 x 200 mm	300 mm	<b>0 571 812</b>		
	100 x 100 mm	0.30 mm	Ø 4.62 x 200 mm	300 mm	<b>0 571 813</b>		



## 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	Grit size	Shank dimensions	Total length	Rotation speed max.	Order No.	Price from	
								1 piece	10 pieces
<b>Nylon silicon carbide pipe brushes</b>									
<b>SiC</b>									
 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	K 1000	Ø 0.42 mm	100 mm	700 1/min	<b>0 571 101</b>		
		Ø 1.2 x 12 mm	K 1000	Ø 0.47 mm	100 mm	700 1/min	<b>0 571 102</b>		
		Ø 1.9 x 18 mm	K 1000	Ø 0.74 mm	100 mm	700 1/min	<b>0 571 103</b>		
		Ø 2.2 x 18 mm	K 1000	Ø 0.94 mm	100 mm	700 1/min	<b>0 571 104</b>		
		Ø 2.6 x 25 mm	K 1000	Ø 1.08 mm	100 mm	700 1/min	<b>0 571 105</b>		
		Ø 3.2 x 25 mm	K 1000	Ø 1.66 mm	100 mm	700 1/min	<b>0 571 106</b>		
		Ø 3.5 x 25 mm	K 1000	Ø 1.66 mm	100 mm	700 1/min	<b>0 571 107</b>		
<b>Nylon-corundum pipe brushes</b>									
<b>Corundum</b>									
 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.	Corundum	Ø 4.2 x 25 mm	K 600	Ø 2.2 mm	125 mm	700 1/min	<b>0 571 108</b>		
		Ø 4.8 x 25 mm	K 600	Ø 2.2 mm	125 mm	700 1/min	<b>0 571 109</b>		
		Ø 5.5 x 25 mm	K 600	Ø 2.2 mm	125 mm	700 1/min	<b>0 571 110</b>		
		Ø 6.6 x 25 mm	K 600	Ø 3 mm	125 mm	700 1/min	<b>0 571 111</b>		
		Ø 8.2 x 25 mm	K 600	Ø 3 mm	125 mm	700 1/min	<b>0 571 112</b>		
		Ø 9.8 x 25 mm	K 600	Ø 3.4 mm	125 mm	700 1/min	<b>0 571 113</b>		
		Ø 11.5 x 25 mm	K 600	Ø 3.4 mm	125 mm	700 1/min	<b>0 571 114</b>		
		Ø 13.0 x 25 mm	K 600	Ø 4.2 mm	125 mm	700 1/min	<b>0 571 115</b>		
		Ø 16.0 x 25 mm	K 600	Ø 4.2 mm	125 mm	700 1/min	<b>0 571 116</b>		
		Ø 17.5 x 25 mm	K 600	Ø 4.2 mm	125 mm	700 1/min	<b>0 571 117</b>		
		Ø 19.4 x 25 mm	K 600	Ø 5.6 mm	125 mm	700 1/min	<b>0 571 118</b>		
		Ø 22.6 x 25 mm	K 600	Ø 5.6 mm	125 mm	700 1/min	<b>0 571 119</b>		
	Ø 25.8 x 25 mm	K 600	Ø 6.2 mm	125 mm	700 1/min	<b>0 571 120</b>			

## Pipe brushes nylon with diamond

	Abrasive	Head dimensions	Grit size	Shank dimensions	Total length	Rotation speed max.	Order No.	Price from	
								1 piece	3 pieces
<b>Nylon-diamond pipe brushes</b>									
<b>Diamond</b>									
 <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	K 400	Ø 1 mm	100 mm	700 1/min	<b>0 571 121</b>		
		Ø 2,5 x 20 mm	K 400	Ø 1 mm	100 mm	700 1/min	<b>0 571 122</b>		
		Ø 3 x 20 mm	K 400	Ø 1.5 mm	100 mm	700 1/min	<b>0 571 123</b>		
		Ø 3,5 x 20 mm	K 400	Ø 1.5 mm	100 mm	700 1/min	<b>0 571 124</b>		
		Ø 4 x 20 mm	K 400	Ø 3 mm	115 mm	700 1/min	<b>0 571 125</b>		
		Ø 5 x 20 mm	K 400	Ø 3 mm	115 mm	700 1/min	<b>0 571 126</b>		
		Ø 6 x 20 mm	K 400	Ø 3 mm	115 mm	700 1/min	<b>0 571 127</b>		
		Ø 7 x 20 mm	K 400	Ø 3 mm	115 mm	700 1/min	<b>0 571 128</b>		
		Ø 8 x 20 mm	K 400	Ø 3 mm	115 mm	700 1/min	<b>0 571 129</b>		
		Ø 9 x 20 mm	K 400	Ø 3 mm	115 mm	700 1/min	<b>0 571 130</b>		
		Ø 10 x 20 mm	K 400	Ø 4 mm	115 mm	700 1/min	<b>0 571 131</b>		
Ø 12 x 20 mm	K 400	Ø 6 mm	115 mm	700 1/min	<b>0 571 132</b>				

## Pipe brushes steel

	Trimming	Head dimensions	Trimming Ø	Shank dimensions	Total length	Rotation speed max.	Order No.	Price from	
								1 piece	10 pieces
<b>Steel pipe brushes</b>									
 <p>Brushes with steel trimming without additional abrasive. Ideal for simple deburring work.</p>	Steel	Ø 6 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	700 1/min	<b>0 571 170</b>		
		Ø 8 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	700 1/min	<b>0 571 171</b>		
		Ø 10 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	700 1/min	<b>0 571 172</b>		
		Ø 11 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	700 1/min	<b>0 571 173</b>		
		Ø 13 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	700 1/min	<b>0 571 174</b>		
		Ø 14 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	700 1/min	<b>0 571 175</b>		
		Ø 16 x 25 mm	0.13 mm	Ø 3.18 mm	89 mm	700 1/min	<b>0 571 176</b>		

## 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.

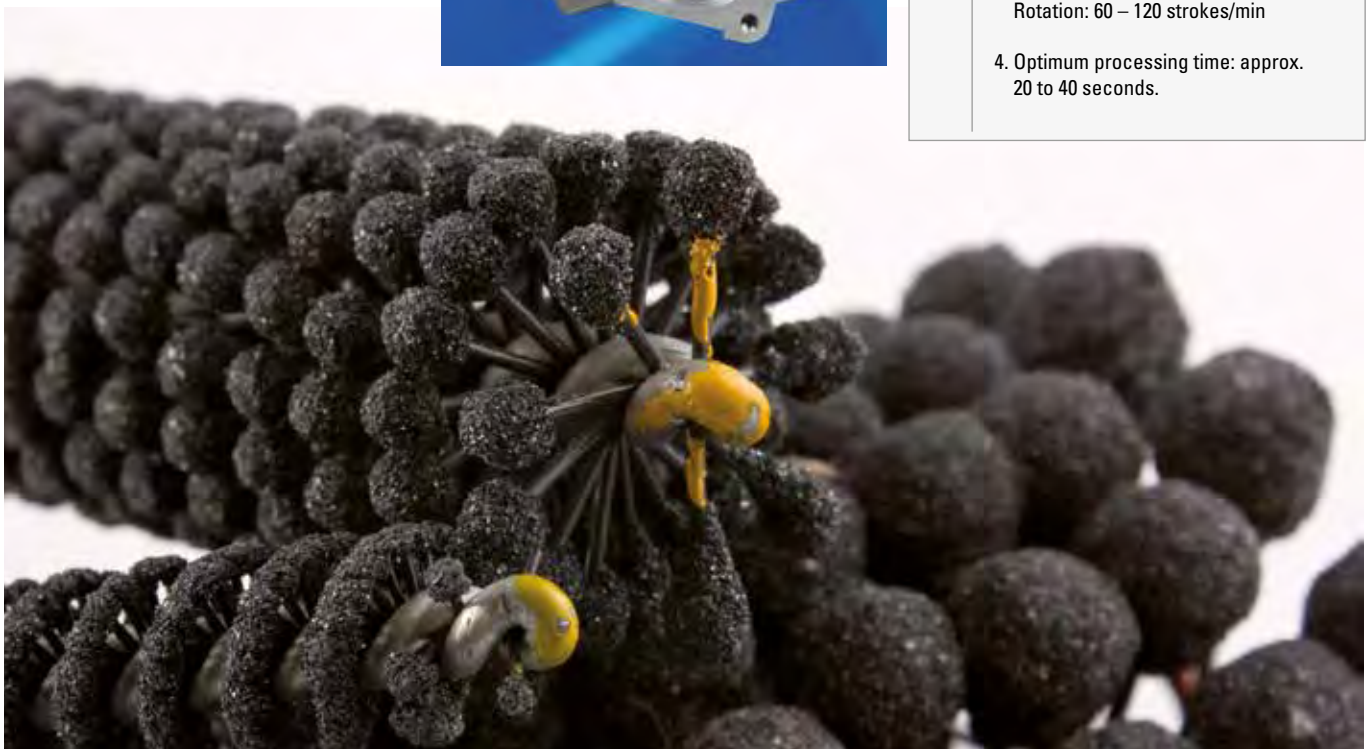


**Tip:** jet and pipe brushes are best suited for bores < 8 mm (see pages 180 and 182)!






#### 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
<b>Nylon honing brushes Novoflex-B</b>							
	Ø 8 mm	Ø 9 x 50 mm	120	Ø 3.7 mm	200 mm	<b>0 571 300</b>	
		Ø 9 x 50 mm	180	Ø 3.6 mm	200 mm	<b>0 571 330</b>	
	Ø 10 mm	Ø 11 x 60 mm	120	Ø 3.7 mm	200 mm	<b>0 571 301</b>	
		Ø 11 x 60 mm	180	Ø 3.6 mm	200 mm	<b>0 571 331</b>	
	Ø 11 mm	Ø 12 x 60 mm	120	Ø 3.7 mm	200 mm	<b>0 571 302</b>	
		Ø 12 x 60 mm	180	Ø 3.6 mm	200 mm	<b>0 571 332</b>	
	Ø 12 mm	Ø 13 x 60 mm	120	Ø 3.7 mm	200 mm	<b>0 571 303</b>	
		Ø 13 x 60 mm	180	Ø 3.6 mm	200 mm	<b>0 571 333</b>	
	Ø 14 mm	Ø 15.5 x 60 mm	120	Ø 3.7 mm	200 mm	<b>0 571 304</b>	
		Ø 15.5 x 60 mm	180	Ø 3.6 mm	200 mm	<b>0 571 334</b>	
	Ø 16 mm	Ø 18 x 60 mm	120	Ø 4.6 mm	200 mm	<b>0 571 305</b>	
		Ø 18 x 60 mm	180	Ø 4.6 mm	200 mm	<b>0 571 335</b>	
	Ø 18 mm	Ø 20 x 60 mm	120	Ø 4.6 mm	200 mm	<b>0 571 306</b>	
		Ø 20 x 60 mm	180	Ø 4.6 mm	200 mm	<b>0 571 336</b>	
	Ø 20 mm	Ø 22 x 70 mm	120	Ø 4.6 mm	200 mm	<b>0 571 307</b>	
		Ø 22 x 70 mm	180	Ø 4.6 mm	200 mm	<b>0 571 337</b>	
	Ø 22 mm	Ø 25 x 70 mm	120	Ø 4.6 mm	200 mm	<b>0 571 308</b>	
		Ø 25 x 70 mm	180	Ø 4.6 mm	200 mm	<b>0 571 338</b>	
	Ø 24 mm	Ø 27 x 70 mm	120	Ø 5.1 mm	200 mm	<b>0 571 309</b>	
		Ø 27 x 70 mm	180	Ø 5.1 mm	200 mm	<b>0 571 339</b>	
	Ø 25 mm	Ø 28 x 70 mm	120	Ø 5.1 mm	200 mm	<b>0 571 310</b>	
		Ø 28 x 70 mm	180	Ø 5.1 mm	200 mm	<b>0 571 340</b>	
	Ø 27 mm	Ø 30 x 70 mm	120	Ø 5.1 mm	200 mm	<b>0 571 311</b>	
		Ø 30 x 70 mm	180	Ø 5.1 mm	200 mm	<b>0 571 341</b>	
	Ø 29 mm	Ø 32 x 70 mm	120	Ø 5.1 mm	200 mm	<b>0 571 312</b>	
		Ø 32 x 70 mm	180	Ø 5.1 mm	200 mm	<b>0 571 342</b>	
	Ø 32 mm	Ø 35 x 70 mm	120	Ø 5.1 mm	200 mm	<b>0 571 313</b>	
		Ø 35 x 70 mm	180	Ø 5.7 mm	200 mm	<b>0 571 343</b>	
	Ø 35 mm	Ø 38 x 70 mm	120	Ø 5.7 mm	200 mm	<b>0 571 314</b>	
		Ø 38 x 70 mm	180	Ø 5.7 mm	200 mm	<b>0 571 344</b>	
	Ø 38 mm	Ø 41 x 70 mm	120	Ø 5.7 mm	200 mm	<b>0 571 315</b>	
		Ø 41 x 70 mm	180	Ø 5.7 mm	200 mm	<b>0 571 345</b>	
	Ø 42 mm	Ø 45 x 70 mm	120	Ø 5.7 mm	200 mm	<b>0 571 316</b>	
		Ø 45 x 70 mm	180	Ø 5.7 mm	200 mm	<b>0 571 346</b>	
	Ø 45 mm	Ø 48 x 70 mm	120	Ø 5.7 mm	200 mm	<b>0 571 317</b>	
		Ø 48 x 70 mm	180	Ø 5.7 mm	200 mm	<b>0 571 347</b>	


**In order to avoid blunders...**

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

Grit 120 = yellow  
 Grit 180 = red



# 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
<b>AWCO grinding points</b>  <b>188</b>										
<b>Aluminium oxide fibre grinding points</b>  <b>190</b>										
<b>Silicon carbide for aluminium (SiC-Alu)</b>  <b>191</b>										
<b>High-grade corundum pink (EKR)</b>  <b>192</b>										
<b>High-grade corundum white-brown (EKWbr)</b>  <b>197</b>										
<b>High-grade corundum white (EKW)</b>  <b>198</b>										
<b>High-grade corundum dark red (EKD)</b>  <b>199</b>										
<b>Blue Stones</b>  <b>200</b>										
<b>NORTON</b>  <b>201</b>										
<b>VORTEX</b>  <b>202</b>										
<b>Fibre-laminated grinding and polishing points</b>  <b>205</b>										



## Grinding points AWCO
















### shank $\varnothing$ 3 x 30 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 dimension	Cutting speed max.	Order No.	Price from		
							1 piece	20 pieces	50 pieces
<b>AWCO grinding points, shank <math>\varnothing</math> 3 x 30 mm</b>									
<b>cylinder</b>									
	$\varnothing$ 1 x 5 mm	J	320	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 421</b>			
	$\varnothing$ 1.5 x 8 mm	J	320	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 422</b>			
	$\varnothing$ 1.7 x 8 mm	J	320	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 423</b>			
	$\varnothing$ 2 x 5 mm	J	80	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 424</b>			
	$\varnothing$ 3 x 6 mm	J	80	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 427</b>			
	$\varnothing$ 3 x 6 mm	J	120	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 428</b>			
	$\varnothing$ 4 x 8 mm	J	60	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 429</b>			
	$\varnothing$ 4 x 8 mm	J	80	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 430</b>			
	$\varnothing$ 4 x 8 mm	J	100	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 431</b>			
	$\varnothing$ 5 x 10 mm	J	60	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 432</b>			
	$\varnothing$ 5 x 10 mm	J	80	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 433</b>			
	$\varnothing$ 5 x 10 mm	J	100	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 434</b>			
	$\varnothing$ 6 x 13 mm	J	60	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 436</b>			
	$\varnothing$ 8 x 16 mm	J	46	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 439</b>			
	$\varnothing$ 8 x 16 mm	J	60	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 440</b>			
	$\varnothing$ 8 x 16 mm	J	80	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 441</b>			
<b>sphere</b>									
	$\varnothing$ 3 mm	J	80	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 447</b>			
	$\varnothing$ 6 mm	J	80	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 449</b>			
	$\varnothing$ 8 mm	J	80	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 452</b>			
<b>wheel</b>									
	$\varnothing$ 13 x 3 mm	J	60	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 443</b>			
	$\varnothing$ 20 x 6 mm	J	46	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 444</b>			
	$\varnothing$ 20 x 6 mm	J	60	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 445</b>			
<b>tree with pointed end</b>									
	$\varnothing$ 3 x 6 mm	J	80	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 455</b>			
	$\varnothing$ 4 x 8 mm	J	80	$\varnothing$ 3 x 30 mm	50 m/s	<b>0 542 458</b>			

#### matching set

	Order No.	Price from
<b>Set of grinding points AWCO</b>		1 set
	Contents: 12 pieces	<b>0 542 420</b>

# Grinding points AWCO











## Ø 6 x 40 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.	Order No.	Price from		
							1 piece	20 pieces	50 pieces
<b>AWCO grinding points, shank Ø 6 x 40 mm</b>									
<b>cylinder</b>									
	Ø 8 x 16 mm	J	46	Ø 6 x 40 mm	50 m/s	<b>0 542 471</b>			
	Ø 10 x 13 mm	J	46	Ø 6 x 40 mm	50 m/s	<b>0 542 473</b>			
	Ø 10 x 20 mm	J	46	Ø 6 x 40 mm	50 m/s	<b>0 542 475</b>			
	Ø 13 x 25 mm	J	46	Ø 6 x 40 mm	50 m/s	<b>0 542 477</b>			
	Ø 16 x 20 mm	J	46	Ø 6 x 40 mm	50 m/s	<b>0 542 479</b>			
	Ø 16 x 32 mm	J	46	Ø 6 x 40 mm	50 m/s	<b>0 542 481</b>			
	Ø 20 x 25 mm	J	46	Ø 6 x 40 mm	50 m/s	<b>0 542 483</b>			
	Ø 20 x 40 mm	J	46	Ø 6 x 40 mm	50 m/s	<b>0 542 485</b>			
<b>sphere</b>									
	Ø 13 mm	J	46	Ø 6 x 40 mm	50 m/s	<b>0 542 491</b>			
<b>tree with pointed end</b>									
	Ø 13 x 20 mm	J	46	Ø 6 x 40 mm	50 m/s	<b>0 542 494</b>			

### matching set

	Order No.	Price from
		1 set
<b>Set of grinding points AWCO</b>		
 Contents: 12 pieces	<b>0 542 470</b>	



- optimally suited to reworking repair weldings
- finishing of turbine blades or similar components
- special grit mixture for high stock removal and long service life

**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](mailto:m.abstoss@joke.de)

# 2 Aluminium oxide fibre grinding points shank Ø 3 x 30 mm

## Aluminium oxide fibre grinding points

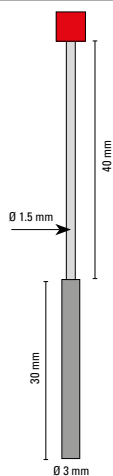
- Deburring and chamfering of cross holes
- Removing burr at the bottom of blind holes
- Precision removal of fine burr
- Self-sharpening without grinding dust
- High edge stability and dimensional stability for extended service life
- Elastic shank with high bending radius (2 mm)
- Range of different 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

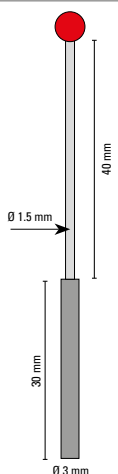
### Aluminium oxide fibre grinding points, shank Ø 3 mm

#### cylinder



Ø 3 x 3 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6000 1/min	<b>0 425 181</b>
	Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6000 1/min	<b>0 425 182</b>
	Ø 1.5 x 40 mm	# 800	blue	Ø 3 x 30 mm	6000 1/min	<b>0 425 183</b>
Ø 4 x 4 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6000 1/min	<b>0 425 184</b>
	Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6000 1/min	<b>0 425 185</b>
	Ø 1.5 x 40 mm	# 800	blue	Ø 3 x 30 mm	6000 1/min	<b>0 425 186</b>
Ø 5 x 5 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6000 1/min	<b>0 425 187</b>
	Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6000 1/min	<b>0 425 188</b>
	Ø 1.5 x 40 mm	# 800	blue	Ø 3 x 30 mm	6000 1/min	<b>0 425 189</b>

#### sphere



Ø 3 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6000 1/min	<b>0 425 161</b>
	Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6000 1/min	<b>0 425 162</b>
	Ø 1.5 x 40 mm	# 800	blue	Ø 3 x 30 mm	6000 1/min	<b>0 425 163</b>
Ø 4 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6000 1/min	<b>0 425 164</b>
	Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6000 1/min	<b>0 425 165</b>
	Ø 1.5 x 40 mm	# 800	blue	Ø 3 x 30 mm	6000 1/min	<b>0 425 166</b>
Ø 5 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6000 1/min	<b>0 425 167</b>
	Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6000 1/min	<b>0 425 168</b>
	Ø 1.5 x 40 mm	# 800	blue	Ø 3 x 30 mm	6000 1/min	<b>0 425 169</b>
Ø 6 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6000 1/min	<b>0 425 170</b>
	Ø 1.5 x 40 mm	# 400	orange	Ø 3 x 30 mm	6000 1/min	<b>0 425 171</b>
	Ø 1.5 x 40 mm	# 800	blue	Ø 3 x 30 mm	6000 1/min	<b>0 425 172</b>
Ø 10 mm	Ø 1.5 x 40 mm	# 220	grey	Ø 3 x 30 mm	6000 1/min	<b>0 425 173</b>

## 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
<b>SiC-Alu grinding points, shank Ø 3 x 30 mm</b>									
<b>cylinder</b>									
	Ø 4 x 8 mm	80	Ø 3 x 30 mm	50 m/s	10 piece	<b>0 542 501</b>			
	Ø 5 x 10 mm	80	Ø 3 x 30 mm	50 m/s	10 piece	<b>0 542 502</b>			
	Ø 6 x 10 mm	80	Ø 3 x 30 mm	50 m/s	10 piece	<b>0 542 503</b>			
	Ø 8 x 10 mm	80	Ø 3 x 30 mm	50 m/s	10 piece	<b>0 542 504</b>			
	Ø 10 x 10 mm	80	Ø 3 x 30 mm	50 m/s	10 piece	<b>0 542 505</b>			
<b>SiC-Alu grinding points, shank Ø 6 x 40 mm</b>									
<b>cylinder</b>									
	Ø 10 x 13 mm	80	Ø 6 x 40 mm	50 m/s	10 piece	<b>0 542 506</b>			
	Ø 16 x 32 mm	80	Ø 6 x 40 mm	50 m/s	10 piece	<b>0 542 511</b>			
	Ø 20 x 25 mm	80	Ø 6 x 40 mm	50 m/s	10 piece	<b>0 542 513</b>			

### matching set

	Grit size	Order No.	Price from
			1 set
<b>Set of grinding points SiC-Alu</b>	K 80	<b>0 542 530</b>	








The set consists of the following five cylindrical grinding points with a grit size of SiC 80, shank Ø 3 x 30 mm:

- 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)

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.

## 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
<b>EKR grinding points, shank <math>\varnothing</math> 2.35 x 40 mm</b>										
<b>cylinder</b>										
	$\varnothing$ 2 x 5 mm	N	120	$\varnothing$ 2.35 x 40 mm	50 m/s	10 pieces	<b>0 542 101</b>			
	$\varnothing$ 3 x 6 mm	N	100	$\varnothing$ 2.35 x 40 mm	50 m/s	10 pieces	<b>0 542 102</b>			
	$\varnothing$ 4 x 8 mm	N	80	$\varnothing$ 2.35 x 40 mm	50 m/s	10 pieces	<b>0 542 103</b>			
	$\varnothing$ 6 x 10 mm	N	80	$\varnothing$ 2.35 x 40 mm	50 m/s	10 pieces	<b>0 542 105</b>			
<b>wheel</b>										
	$\varnothing$ 10 x 3 mm	N	100	$\varnothing$ 2.35 x 40 mm	50 m/s	10 pieces	<b>0 542 107</b>			
<b>sphere</b>										
	$\varnothing$ 5 mm	N	100	$\varnothing$ 2.35 x 40 mm	50 m/s	10 pieces	<b>0 542 114</b>			
	$\varnothing$ 8 mm	N	80	$\varnothing$ 2.35 x 40 mm	50 m/s	10 pieces	<b>0 542 115</b>			
























## 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
<b>EKR grinding points, shank <math>\varnothing</math> 3 x 30 mm</b>										
<b>cylinder</b>										
	$\varnothing$ 2 x 5 mm	N	120	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 542 131</b>			
	$\varnothing$ 2.5 x 6 mm	N	100	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 540 922</b>			
	$\varnothing$ 3 x 6 mm	N	100	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 542 132</b>			
	$\varnothing$ 4 x 8 mm	N	80	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 542 133</b>			
	$\varnothing$ 5 x 6 mm	N	80	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 540 923</b>			
	$\varnothing$ 5 x 10 mm	N	80	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 542 134</b>			
	$\varnothing$ 6 x 6 mm	N	60	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 540 924</b>			
	$\varnothing$ 6 x 10 mm	N	60	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 542 135</b>			








# 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
<b>pointed cylinder</b>										
	Ø 5 x 7 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 932</b>			
	Ø 8 x 10 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 542 140</b>			
<b>wheel</b>										
	Ø 4 x 1 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 904</b>			
	Ø 5 x 3 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 905</b>			
	Ø 8 x 2 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 903</b>			
	Ø 9 x 2 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 901</b>			
	Ø 9 x 3 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 902</b>			
	Ø 10 x 5 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 542 139</b>			
<b>Conical</b>										
	Ø 3.3 / 2.2 x 6.4 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 929</b>			
	Ø 4.4 / 3 x 10 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 930</b>			
	Ø 7 / 3.5 x 6 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 906</b>			
<b>cone</b>										
	Ø 6 x 11 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 936</b>			
	Ø 8 x 8 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 542 149</b>			
	Ø 10 x 10 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 542 150</b>			
<b>trapeze</b>										
	Ø 3.2 / 2 x 4 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 910</b>			
	Ø 5 / 2 x 2.5 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 907</b>			
	Ø 5 / 3 x 5 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 911</b>			
	Ø 7 / 5 x 6 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 912</b>			
	Ø 8 / 3.5 x 4 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 909</b>			
<b>tree with pointed end</b>										
	Ø 4.3 x 7 mm	N	100	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 934</b>			
	Ø 5 x 10 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 542 147</b>			
	Ø 6 x 8 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 933</b>			
	Ø 6 x 10 mm	N	80	Ø 3 x 30 mm	50 m/s	10 pieces	<b>0 540 935</b>			

## 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
<b>barrel</b>										
	$\varnothing$ 4 x 5 mm	N	80	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 540 917</b>			
	$\varnothing$ 6 x 8 mm	N	80	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 540 918</b>			
<b>rhombus</b>										
	$\varnothing$ 7 x 5 mm	N	100	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 540 920</b>			
<b>mushroom</b>										
	$\varnothing$ 8 x 1.6 mm	N	100	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 540 921</b>			
<b>sphere</b>										
	$\varnothing$ 3 mm	N	100	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 540 913</b>			
	$\varnothing$ 4 mm	N	80	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 540 914</b>			
	$\varnothing$ 5 mm	N	80	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 540 915</b>			
	$\varnothing$ 8 mm	N	80	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 542 145</b>			
	$\varnothing$ 10 mm	N	60	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 542 146</b>			
<b>wheel</b>										
	$\varnothing$ 5 x 1.5 mm	N	100	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 540 925</b>			
	$\varnothing$ 6 x 2.5 mm	N	100	$\varnothing$ 3 x 30 mm	50 m/s	10 pieces	<b>0 540 926</b>			

 *matching set*





	Order No.	Price from
<b>Set of grinding points EKR</b>		1 set
Contents: 36 pieces	<b>0 540 900</b>	



# Grinding points EKR

## shank Ø 6 x 40 mm, hardness N

 1  
**2**  
 3  
 4  
 5  
 6  
 7

	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
<b>EKR grinding points, shank Ø 6 x 40 mm</b>										
<b>cylinder</b>										
	Ø 4 x 8 mm	N	80	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 702</b>			
	Ø 5 x 10 mm	N	80	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 703</b>			
	Ø 6 x 10 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 704</b>			
	Ø 8 x 10 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 705</b>			
	Ø 8 x 16 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 706</b>			
	Ø 10 x 10 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 707</b>			
	Ø 10 x 20 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 708</b>			
	Ø 13 x 13 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 710</b>			
	Ø 13 x 20 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 711</b>			
	Ø 16 x 16 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 712</b>			
	Ø 16 x 20 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 713</b>			
	Ø 16 x 32 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 714</b>			
	Ø 20 x 20 mm	N	36	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 715</b>			
	Ø 20 x 25 mm	N	36	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 716</b>			
Ø 20 x 40 mm	N	36	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 718</b>				
<b>sphere</b>										
	Ø 8 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 747</b>			
	Ø 10 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 736</b>			
	Ø 16 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 738</b>			
	Ø 20 mm	N	36	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 739</b>			
<b>cone</b>										
	Ø 16 x 32 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 742</b>			
	Ø 16 x 40 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 743</b>			
	Ø 20 x 32 mm	N	36	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 744</b>			
	Ø 20 x 40 mm	N	36	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 745</b>			
<b>wheel</b>										
	Ø 25 x 6 mm	N	60	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 728</b>			
	Ø 32 x 8 mm	N	46	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 730</b>			
	Ø 40 x 10 mm	N	30	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 731</b>			
	Ø 40 x 20 mm	N	30	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 724</b>			



## 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	
<b>EKR grinding points, shank <math>\varnothing</math> 3 x 40 mm, rustproof steel</b>											
<b>cylinder</b>											
	$\varnothing$ 2 x 5 mm	N	60	$\varnothing$ 3 x 40 mm	35 m/s	10 pieces	<b>0 542 651</b>				
		N	60	$\varnothing$ 3 x 60 mm	35 m/s	10 pieces	<b>0 542 661</b>				
	$\varnothing$ 3 x 5 mm	N	60	$\varnothing$ 3 x 40 mm	35 m/s	10 pieces	<b>0 542 652</b>				
		N	60	$\varnothing$ 3 x 60 mm	35 m/s	10 pieces	<b>0 542 662</b>				
	$\varnothing$ 4 x 8 mm	N	60	$\varnothing$ 3 x 40 mm	35 m/s	10 pieces	<b>0 542 653</b>				
		N	60	$\varnothing$ 3 x 60 mm	35 m/s	10 pieces	<b>0 542 663</b>				
	$\varnothing$ 5 x 10 mm	N	60	$\varnothing$ 3 x 40 mm	35 m/s	10 pieces	<b>0 542 654</b>				
		N	60	$\varnothing$ 3 x 60 mm	35 m/s	10 pieces	<b>0 542 664</b>				
	$\varnothing$ 6 x 10 mm	N	60	$\varnothing$ 3 x 40 mm	35 m/s	10 pieces	<b>0 542 655</b>				
		N	60	$\varnothing$ 3 x 60 mm	35 m/s	10 pieces	<b>0 542 665</b>				
	$\varnothing$ 7 x 10 mm	N	60	$\varnothing$ 3 x 40 mm	35 m/s	10 pieces	<b>0 542 656</b>				
		N	60	$\varnothing$ 3 x 60 mm	35 m/s	10 pieces	<b>0 542 666</b>				
	<b>sphere</b>										
		$\varnothing$ 5 mm	N	60	$\varnothing$ 3 x 60 mm	35 m/s	10 pieces	<b>0 542 677</b>			
$\varnothing$ 6 mm		N	60	$\varnothing$ 3 x 60 mm	35 m/s	10 pieces	<b>0 542 678</b>				
<b>cone</b>											
	$\varnothing$ 6 x 10 mm	N	60	$\varnothing$ 3 x 60 mm	35 m/s	10 pieces	<b>0 542 680</b>				
<b>tree with pointed end</b>											
	$\varnothing$ 3 x 6 mm	N	60	$\varnothing$ 3 x 60 mm	35 m/s	10 pieces	<b>0 542 679</b>				




### Why rustproof shanks?

These points have shanks made of rust-proof 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
<b>Blowing pen</b>		
		<b>0 203 200</b>
For direct connection to a rapid coupling system.		
Dimensions: $\varnothing$ 12.5 x 108 mm		
Weight: 20 g		

# Grinding points EKWbr

shank Ø 3 x 30 mm, hardness O/P


1  
2  
3  
4  
5  
6  
7

	Head dimensions	Hardness	Grit size	Shank dimensions	Cutting speed max.	Packing quantity	Order No.	Price from		
								1 piece	20 pieces	50 pieces
<b>EKWbr grinding points, shank Ø 3 x 30 mm</b>										
<b>cylinder</b>										
	Ø 3 x 6 mm	O/P	100	Ø 3 x 30 mm	35 m/s	10 pieces	<b>0 542 401</b>			
	Ø 4 x 8 mm	O/P	80	Ø 3 x 30 mm	35 m/s	10 pieces	<b>0 542 402</b>			
	Ø 5 x 10 mm	O/P	80	Ø 3 x 30 mm	35 m/s	10 pieces	<b>0 542 403</b>			
	Ø 6 x 10 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	<b>0 542 404</b>			
	Ø 8 x 10 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	<b>0 542 405</b>			
	Ø 10 x 10 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	<b>0 542 406</b>			
	Ø 10 x 13 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	<b>0 542 407</b>			
	Ø 10 x 15 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	<b>0 542 408</b>			
	Ø 13 x 13 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	<b>0 542 409</b>			
	Ø 13 x 16 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	<b>0 542 410</b>			
<b>wheel</b>										
	Ø 16 x 4 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	<b>0 542 413</b>			
	Ø 20 x 6 mm	O/P	60	Ø 3 x 30 mm	35 m/s	10 pieces	<b>0 542 414</b>			







## 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
<b>EKW grinding points, shank Ø 3 x 40 mm</b>										
<b>cylinder</b>										
	Ø 2 x 5 mm	N	80	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 601</b>			
	Ø 3 x 5 mm	N	80	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 602</b>			
	Ø 4 x 8 mm	N	80	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 603</b>			
	Ø 5 x 10 mm	N	80	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 604</b>			
	Ø 6 x 10 mm	N	80	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 605</b>			
	Ø 7 x 10 mm	N	80	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 606</b>			

## 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
<b>EKW grinding points, shank Ø 3 x 40/60 mm, rustproof steel</b>										
<b>cylinder</b>										
	Ø 2 x 5 mm	N	80	Ø 3 x 40 mm	35 m/s	10 pieces	<b>0 542 631</b>			
		N	80	Ø 3 x 60 mm	35 m/s	10 pieces	<b>0 542 641</b>			
	Ø 3 x 5 mm	N	80	Ø 3 x 40 mm	35 m/s	10 pieces	<b>0 542 632</b>			
		N	80	Ø 3 x 60 mm	35 m/s	10 pieces	<b>0 542 643</b>			
	Ø 4 x 8 mm	N	80	Ø 3 x 40 mm	35 m/s	10 pieces	<b>0 542 633</b>			
		N	80	Ø 3 x 60 mm	35 m/s	10 pieces	<b>0 542 644</b>			
	Ø 5 x 10 mm	N	80	Ø 3 x 40 mm	35 m/s	10 pieces	<b>0 542 634</b>			
		N	80	Ø 3 x 60 mm	35 m/s	10 pieces	<b>0 542 644</b>			
	Ø 6 x 10 mm	N	80	Ø 3 x 40 mm	35 m/s	10 pieces	<b>0 542 635</b>			
	Ø 7 x 10 mm	N	80	Ø 3 x 40 mm	35 m/s	10 pieces	<b>0 542 636</b>			
<b>sphere</b>										
	Ø 3 mm	N	80	Ø 3 x 60 mm	35 m/s	10 pieces	<b>0 542 671</b>			
	Ø 5 mm	N	80	Ø 3 x 60 mm	35 m/s	10 pieces	<b>0 542 672</b>			
	Ø 6 mm	N	80	Ø 3 x 60 mm	35 m/s	10 pieces	<b>0 542 673</b>			
<b>cone</b>										
	Ø 6 x 10 mm	N	80	Ø 3 x 60 mm	35 m/s	10 pieces	<b>0 542 675</b>			
<b>tree with pointed end</b>										
	Ø 3 x 6 mm	N	80	Ø 3 x 60 mm	35 m/s	10 pieces	<b>0 542 674</b>			



#### 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
<b>EKD grinding points, shank Ø 3 x 40 mm</b>										
<b>cylinder</b>										
	Ø 2 x 5 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 331</b>			
	Ø 4 x 8 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 332</b>			
	Ø 5 x 10 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 333</b>			
	Ø 8 x 10 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 334</b>			
<b>pointed cylinder</b>										
	Ø 7 x 12 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 340</b>			
<b>rounded cylinder</b>										
	Ø 3 x 6 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 347</b>			
	Ø 4 x 8 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 348</b>			
	Ø 6 x 10 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 341</b>			
	Ø 6 x 12 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 342</b>			
<b>wheel</b>										
	Ø 10 x 2 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 336</b>			
	Ø 10 x 5 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 337</b>			
<b>mushroom</b>										
	Ø 10 x 2 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 338</b>			
<b>cone</b>										
	Ø 5 x 10 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 339</b>			
<b>sphere</b>										
	Ø 5 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 344</b>			
	Ø 8 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 345</b>			
	Ø 10 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 346</b>			
<b>cone</b>										
	Ø 8 x 8 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 349</b>			
	Ø 10 x 10 mm	N	100	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 350</b>			













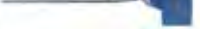







*matching set*

	Order No.	Price from
		1 set
<b>Set of grinding points EKD</b>		
Contents: 18 pieces		<b>0 542 330</b>



## Grinding points Blue Stones

shank Ø 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
<b>Blue Stones grinding points, shank Ø 3 x 40 mm</b>										
<b>cylinder</b>										
	Ø 2 x 5 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 778</b>			
	Ø 3 x 6 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 779</b>			
	Ø 4 x 8 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 780</b>			
	Ø 5 x 6 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 781</b>			
	Ø 5 x 10 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 782</b>			
	Ø 6 x 6 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 783</b>			
	Ø 6 x 10 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 784</b>			
	Ø 8 x 10 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 785</b>			
	Ø 10 x 10 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 786</b>			
<b>wheel</b>										
	Ø 4 x 1.6 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 787</b>			
	Ø 8 x 1.6 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 788</b>			
	Ø 13 x 3 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 789</b>			
	Ø 13 x 6 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 790</b>			
<b>tree with pointed end</b>										
	Ø 3 x 6 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 774</b>			
	Ø 5 x 10 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 773</b>			
<b>sphere</b>										
	Ø 3 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 775</b>			
	Ø 5 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 776</b>			
	Ø 6 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 777</b>			
<b>rounded arch</b>										
	Ø 6 x 10 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 772</b>			
<b>pointed cone</b>										
	Ø 6 x 10 mm	QU	120	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 542 771</b>			





↓ *matching set*

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




## 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
<b>Blue Stones grinding points, shank Ø 6 x 40 mm</b>										
<b>cylinder</b>										
	Ø 6 x 10 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 812</b>			
	Ø 8 x 10 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 813</b>			
	Ø 10 x 10 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 815</b>			
	Ø 10 x 20 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 816</b>			
<b>sphere</b>										
	Ø 8 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 818</b>			
	Ø 10 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 819</b>			
	Ø 13 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 820</b>			
<b>tree with pointed end</b>										
	Ø 6 x 13 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 822</b>			
<b>cone</b>										
	Ø 8 x 10 mm	QU	120	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 542 824</b>			


 *matching set*

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

## 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
<b>NORTON grinding points, shank Ø 3 mm</b>											
<b>cylinder</b>											
	Ø 6 x 12 mm	soft	fine	grey	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 571 911</b>			
	Ø 10 x 12 mm	soft	fine	grey	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 571 910</b>			
	Ø 20 x 25 mm	soft	fine	grey	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 571 912</b>			

## 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
<b>Compact discs VORTEX Unitized</b>						
	soft	Ø 75 x 3 mm	6.3 mm	<b>0 545 681</b>		
	hard	Ø 50 x 6 mm	6.3 mm	<b>0 545 680</b>		
		Ø 75 x 3 mm	6.3 mm	<b>0 545 682</b>		
		Ø 75 x 12 mm	6.3 mm	<b>0 545 683</b>		
		Ø 150 x 6 mm	25.4 mm	<b>0 545 684</b>		

### Accessories / spare parts

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



removing of milling traces from 1.2379

**before**



**after**




# Grinding wheels VORTEX Rapid with quick change system


**NEW!**

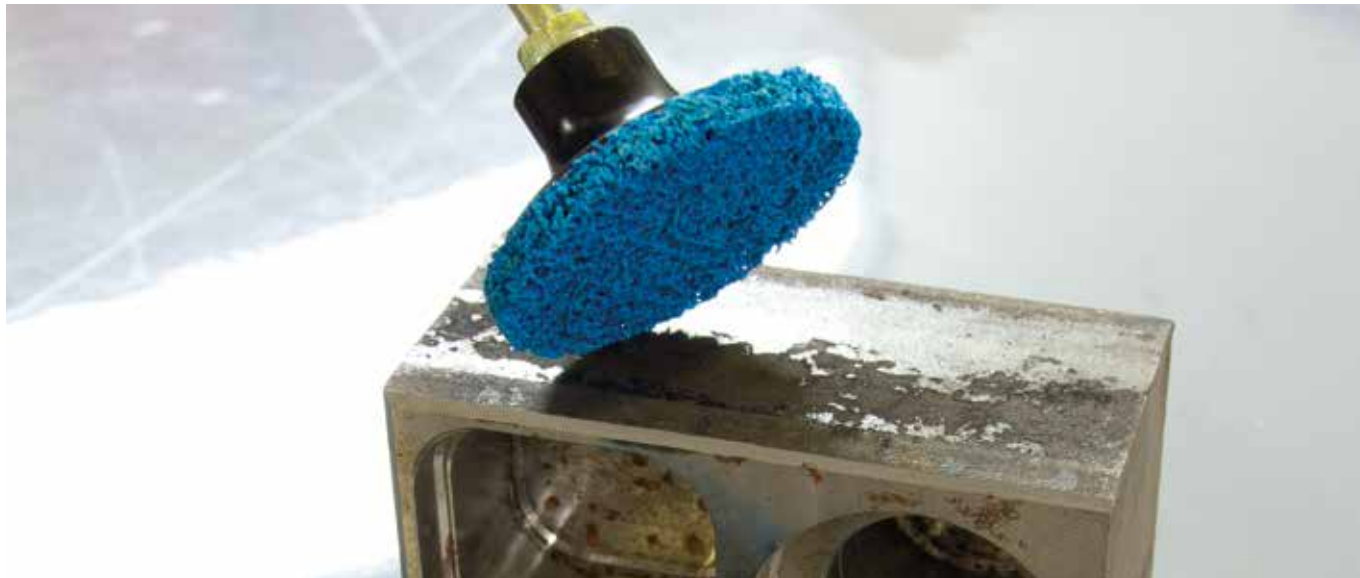
Patented grain technology combined with improved synthetic resin system prevents rapid clogging. Up to 8 x longer lifetime than other surface finishing discs.

suitable for the following materials:  
stainless steel, carbon steels, aluminum

	Dimensions	Grit size	Packing quantity	Order No.	Price from	
					1 pack	3 packs
<b>Grinding wheels VORTEX Rapid</b>						
	Ø 50 mm	medium	25 pieces	<b>0 545 697</b>		
	Ø 75 mm	medium	25 pieces	<b>0 545 698</b>		

## Accessories / spare parts

	Dimensions	Order No.	Price from	
			1 piece	3 pieces
<b>Grinding disc holder TR</b>				
	Ø 50 mm	<b>0 545 699</b>		
	Ø 75 mm	<b>0 545 700</b>		





## 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
<b>VORTEX®-blue grinding points, shank Ø 3 x 40 mm</b>											
<b>wheel</b>											
	Ø 25 x 3 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 571 904</b>			
	Ø 30 x 3 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 571 900</b>			
<b>cylinder</b>											
	Ø 5 x 12 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 571 901</b>			
	Ø 6 x 13 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 571 902</b>			
	Ø 10 x 12 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 571 903</b>			
<b>sphere</b>											
	Ø 6 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 571 926</b>			
	Ø 8 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 571 927</b>			
	Ø 10 mm	hard	coarse	blue	Ø 3 x 40 mm	50 m/s	10 pieces	<b>0 571 928</b>			

### matching set

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



# Grinding points VORTEX®




## shank Ø 6 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.

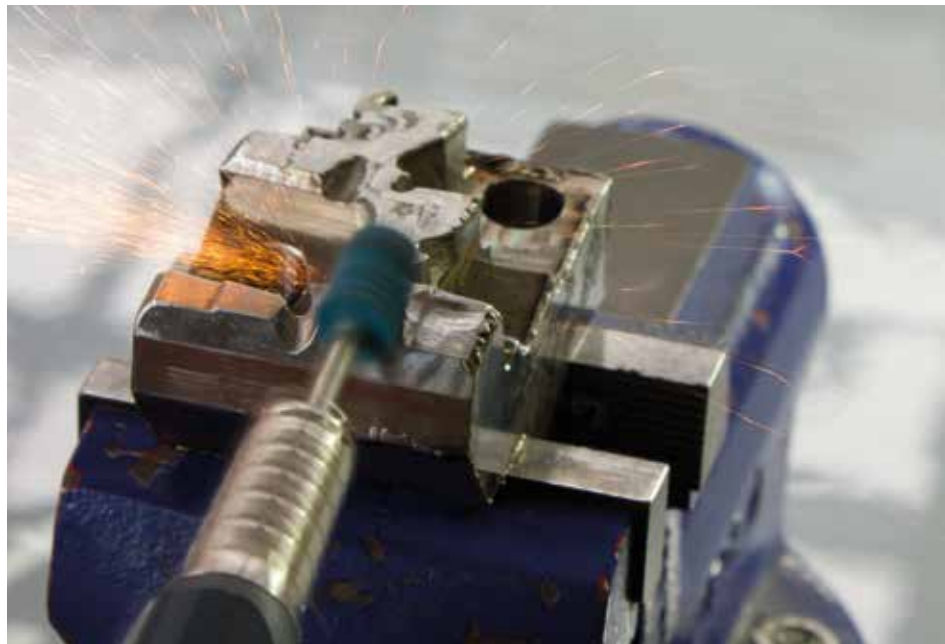
#### The following versions are available:

- 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
<b>VORTEX®-blue grinding points, shank Ø 6 x 40 mm</b>											
<b>cylinder</b>											
	Ø 10 x 20 mm	hard	coarse	blue	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 571 920</b>			
	Ø 13 x 20 mm	hard	coarse	blue	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 571 921</b>			
	Ø 20 x 25 mm	hard	coarse	blue	Ø 6 x 40 mm	50 m/s	10 pieces	<b>0 571 922</b>			

### ↓ matching set

	Order No.	Price from
		1 set
<b>Set of grinding points VORTEX® blue</b>		<b>0 571 925</b>
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"> <li>• Cylinder, Ø 10 x 20 mm (order no. 0 571 920)</li> <li>• Cylinder, Ø 13 x 20 mm (order no. 0 571 921)</li> <li>• Cylinder, Ø 20 x 25 mm (order no. 0 571 922)</li> </ul>		



## 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
<b>Fibre-laminated grinding points, corundum, shank Ø 3 x 40 mm</b>								
<b>cylinder</b>								
	Ø 6 x 6 mm	hard	80	Ø 3 x 40 mm	<b>0 545 611</b>			
		soft	80	Ø 3 x 40 mm	<b>0 545 612</b>			
		soft	180	Ø 3 x 40 mm	<b>0 545 613</b>			
	Ø 6 x 13 mm	hard	80	Ø 3 x 40 mm	<b>0 545 614</b>			
		soft	80	Ø 3 x 40 mm	<b>0 545 615</b>			
		soft	180	Ø 3 x 40 mm	<b>0 545 616</b>			
	Ø 10 x 19 mm	hard	54	Ø 3 x 40 mm	<b>0 545 617</b>			
		hard	80	Ø 3 x 40 mm	<b>0 545 618</b>			
		soft	80	Ø 3 x 40 mm	<b>0 545 619</b>			
		soft	180	Ø 3 x 40 mm	<b>0 545 620</b>			
	Ø 13 x 13 mm	hard	80	Ø 3 x 40 mm	<b>0 545 621</b>			
		soft	80	Ø 3 x 40 mm	<b>0 545 622</b>			
		soft	180	Ø 3 x 40 mm	<b>0 545 623</b>			
<b>sphere</b>								
	Ø 6 mm	hard	80	Ø 3 x 40 mm	<b>0 545 658</b>			
		soft	80	Ø 3 x 40 mm	<b>0 545 647</b>			
	Ø 8 mm	hard	80	Ø 3 x 40 mm	<b>0 545 659</b>			
		soft	80	Ø 3 x 40 mm	<b>0 545 609</b>			
	Ø 13 mm	hard	80	Ø 3 x 40 mm	<b>0 545 627</b>			
		soft	180	Ø 3 x 40 mm	<b>0 545 610</b>			
<b>pointed cone</b>								
	Ø 10 x 19 mm	hard	54	Ø 3 x 40 mm	<b>0 545 605</b>			
		soft	80	Ø 3 x 40 mm	<b>0 545 607</b>			
		hard	80	Ø 3 x 40 mm	<b>0 545 606</b>			
		soft	180	Ø 3 x 40 mm	<b>0 545 608</b>			
<b>cone</b>								
	Ø 13 x 19 mm	hard	54	Ø 3 x 40 mm	<b>0 545 601</b>			
		soft	80	Ø 3 x 40 mm	<b>0 545 603</b>			
		hard	80	Ø 3 x 40 mm	<b>0 545 602</b>			
		soft	180	Ø 3 x 40 mm	<b>0 545 604</b>			
<b>sphere</b>								
	Ø 13 mm	hard	54	Ø 3 x 40 mm	<b>0 545 626</b>			

# Fibre-laminated grinding and polishing points shank $\varnothing$ 3 x 40 mm

matching set

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



# Rubber-bonded grinding tools

**209 Rubber-bonded polishing points**

**212 Elastic polishing points**

**214 Elastic grinding files**

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

**216 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
<b>Rubber-bonded polishing points series 700, shank Ø 3 x 30 mm</b>							
<b>hard rubber bonding</b>							
<b>cylinder</b>							
	Ø 4 x 8 mm	100	Ø 3 x 30 mm	<b>0 544 701</b>			
	Ø 5 x 10 mm	100	Ø 3 x 30 mm	<b>0 544 702</b>			
	Ø 6 x 10 mm	100	Ø 3 x 30 mm	<b>0 544 703</b>			
	Ø 7 x 10 mm	100	Ø 3 x 30 mm	<b>0 544 704</b>			
	Ø 8 x 10 mm	100	Ø 3 x 30 mm	<b>0 544 705</b>			
	Ø 10 x 10 mm	100	Ø 3 x 30 mm	<b>0 544 706</b>			
	Ø 10 x 13 mm	100	Ø 3 x 30 mm	<b>0 544 707</b>			
	Ø 10 x 16 mm	100	Ø 3 x 30 mm	<b>0 544 708</b>			
	Ø 13 x 3 mm	100	Ø 3 x 30 mm	<b>0 544 712</b>			
	Ø 13 x 13 mm	100	Ø 3 x 30 mm	<b>0 544 709</b>			
	Ø 13 x 16 mm	100	Ø 3 x 30 mm	<b>0 544 710</b>			
	Ø 16 x 4 mm	100	Ø 3 x 30 mm	<b>0 544 713</b>			
	Ø 16 x 16 mm	100	Ø 3 x 30 mm	<b>0 544 715</b>			
	Ø 20 x 6 mm	100	Ø 3 x 30 mm	<b>0 544 714</b>			

 *matching set*

	Grit size	Order No.	Price from
<b>Rubber-bonded polishing points series 700, shank Ø 3 mm, 14 pieces</b>			
	Set contains all head sizes 1 x each.	100	<b>0 544 700</b>










## 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 Vmax: 15 m/s

	Head dimensions	Grit size	Colour	Shank dimensions	Order No.	Price from		
						1 piece	20 pieces	50 pieces
<b>Rubber-bonded polishing points series 720, shank Ø 3 x 30 mm &amp; 3 x 60 mm</b>								
<b>Soft rubber bond</b>								
<b>sphere</b>								
	Ø 5 mm	120	red	Ø 3 x 30 mm	<b>0 544 760</b>			
		120	red	Ø 3 x 60 mm	<b>0 544 727</b>			
	Ø 8 mm	120	red	Ø 3 x 30 mm	<b>0 544 767</b>			
		120	red	Ø 3 x 60 mm	<b>0 544 726</b>			
	Ø 10 mm	120	red	Ø 3 x 30 mm	<b>0 544 768</b>			
		120	red	Ø 3 x 60 mm	<b>0 544 725</b>			
Ø 13 mm	120	red	Ø 3 x 30 mm	<b>0 544 719</b>				
<b>cylinder</b>								
	Ø 4 x 8 mm	80	grey	Ø 3 x 30 mm	<b>0 544 731</b>			
		120	red	Ø 3 x 30 mm	<b>0 544 751</b>			
		220	brown	Ø 3 x 30 mm	<b>0 544 771</b>			
		280	green	Ø 3 x 30 mm	<b>0 544 791</b>			
	Ø 5 x 10 mm	80	grey	Ø 3 x 30 mm	<b>0 544 732</b>			
		120	red	Ø 3 x 30 mm	<b>0 544 752</b>			
		220	brown	Ø 3 x 30 mm	<b>0 544 772</b>			
		280	grey	Ø 3 x 30 mm	<b>0 544 792</b>			
	Ø 6 x 10 mm	80	grey	Ø 3 x 30 mm	<b>0 544 733</b>			
		120	red	Ø 3 x 30 mm	<b>0 544 753</b>			
		220	brown	Ø 3 x 30 mm	<b>0 544 773</b>			
		280	green	Ø 3 x 30 mm	<b>0 544 793</b>			
	Ø 8 x 10 mm	80	grey	Ø 3 x 30 mm	<b>0 544 734</b>			
		120	red	Ø 3 x 30 mm	<b>0 544 754</b>			
		220	brown	Ø 3 x 30 mm	<b>0 544 774</b>			
		280	green	Ø 3 x 30 mm	<b>0 544 794</b>			
	Ø 10 x 10 mm	80	grey	Ø 3 x 30 mm	<b>0 544 735</b>			
		120	red	Ø 3 x 30 mm	<b>0 544 755</b>			
		220	brown	Ø 3 x 30 mm	<b>0 544 775</b>			
		280	green	Ø 3 x 30 mm	<b>0 544 795</b>			
	Ø 13 x 13 mm	80	grey	Ø 3 x 30 mm	<b>0 544 736</b>			
		120	red	Ø 3 x 30 mm	<b>0 544 756</b>			
		220	brown	Ø 3 x 30 mm	<b>0 544 776</b>			
		280	green	Ø 3 x 30 mm	<b>0 544 796</b>			
	Ø 13 x 16 mm	80	grey	Ø 3 x 30 mm	<b>0 544 737</b>			
		120	red	Ø 3 x 30 mm	<b>0 544 757</b>			
		220	brown	Ø 3 x 30 mm	<b>0 544 777</b>			
		280	green	Ø 3 x 30 mm	<b>0 544 797</b>			
	Ø 16 x 16 mm	80	grey	Ø 3 x 30 mm	<b>0 544 738</b>			
		120	red	Ø 3 x 30 mm	<b>0 544 758</b>			
		220	brown	Ø 3 x 30 mm	<b>0 544 778</b>			
		280	green	Ø 3 x 30 mm	<b>0 544 798</b>			

# Rubber-bonded polishing points series 720

## Soft rubber bond

matching set

	Grit size	Order No.	Price from 1 set
<b>Rubber-bonded polishing points series 720, 8 pieces, shank Ø 3 x 30 mm</b>			
	Set contains all head sizes 1x each		
	80	<b>0 544 730</b>	
	120	<b>0 544 750</b>	
	220	<b>0 544 770</b>	
	280	<b>0 544 790</b>	

	Head dimensions	Grit size	Colour	Shank dimensions	Order No.	Price from		
						1 piece	20 pieces	50 pieces
<b>Rubber-bonded polishing points series 720, shank Ø 6 x 40 mm</b>								
<b>Soft rubber bond</b>								
<b>cylinder</b>								
	Ø 8 x 16 mm	80	grey	Ø 6 x 40 mm	<b>0 544 741</b>			
		120	red	Ø 6 x 40 mm	<b>0 544 761</b>			
		220	brown	Ø 6 x 40 mm	<b>0 544 781</b>			
		280	green	Ø 6 x 40 mm	<b>0 544 801</b>			
	Ø 10 x 20 mm	80	grey	Ø 6 x 40 mm	<b>0 544 742</b>			
		120	red	Ø 6 x 40 mm	<b>0 544 762</b>			
		220	brown	Ø 6 x 40 mm	<b>0 544 782</b>			
		280	green	Ø 6 x 40 mm	<b>0 544 802</b>			
	Ø 13 x 20 mm	80	grey	Ø 6 x 40 mm	<b>0 544 743</b>			
		120	red	Ø 6 x 40 mm	<b>0 544 763</b>			
		220	brown	Ø 6 x 40 mm	<b>0 544 783</b>			
		280	green	Ø 6 x 40 mm	<b>0 544 803</b>			
	Ø 16 x 20 mm	80	grey	Ø 6 x 40 mm	<b>0 544 744</b>			
		120	red	Ø 6 x 40 mm	<b>0 544 764</b>			
		220	brown	Ø 6 x 40 mm	<b>0 544 784</b>			
		280	green	Ø 6 x 40 mm	<b>0 544 804</b>			
	Ø 16 x 32 mm	120	red	Ø 6 x 40 mm	<b>0 544 765</b>			
		80	grey	Ø 6 x 40 mm	<b>0 544 745</b>			
		220	brown	Ø 6 x 40 mm	<b>0 544 785</b>			
	Ø 20 x 20 mm	80	grey	Ø 6 x 40 mm	<b>0 544 746</b>			
		120	red	Ø 6 x 40 mm	<b>0 544 766</b>			
		220	brown	Ø 6 x 40 mm	<b>0 544 786</b>			
		280	green	Ø 6 x 40 mm	<b>0 544 806</b>			
<b>sphere</b>								
	Ø 13 mm	120	red	Ø 6 x 40 mm	<b>0 544 769</b>			








## 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
<b>Elastic polishing points, shank Ø 2.35 x 40 mm</b>								
<b>Diamond polishing points, medium bond</b>								
<b>pointed</b>								
	Ø 4 x 13 mm	medium / K 150	pink	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 914</b>		
		fine / K 240	light grey	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 915</b>		
<b>silicone polishing points, soft bond</b>								
<b>cylinder</b>								
	Ø 6 x 11.5 mm	coarse / K 80	white	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 904</b>		
		medium / K 150	black	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 905</b>		
		fine / K 240	light blue	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 906</b>		
<b>pointed</b>								
	Ø 4.5 x 12 mm	coarse / K 80	white	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 901</b>		
		medium / K 150	black	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 902</b>		
		fine / K 240	light blue	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 903</b>		
<b>technical polishing points, hard bond</b>								
<b>cylinder</b>								
	Ø 10 x 12 mm	very coarse	blue	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 910</b>		
		coarse	grey	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 911</b>		
		medium	red brown	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 912</b>		
<b>pointed</b>								
	Ø 3.3 x 7.5 mm	very coarse	blue	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 907</b>		
		coarse	grey	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 908</b>		
		medium	red brown	Ø 2.35 x 40 mm	10000 1/min	<b>0 542 909</b>		

## Elastic polishing points


### shank Ø 3 x 30 mm

	Order No.	Price from		
		1 set	5 set	10 set
<b>SET – Elastic grinding- and polishing points, shank-Ø 3 x 30 mm, 10 pieces</b>				
	Set includes:	<b>0 544 800</b>		
	2 x cyl., Ø 5x15mm, grit 80 2 x cyl., Ø 5x15mm, grit 120 2 x cyl., Ø 5x15mm, grit 220 2 x cyl., Ø 5x15mm, grit 320 1 x cyl., Ø 4x13mm, diamond grit 1000 1 x cyl., Ø 4x13mm, 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
<b>Elastic polishing points joke FlexPol</b>							
	$\varnothing$ 1.5 x 15 mm	coarse	blue	hard	10 pieces	<b>0 542 942-10</b>	
		medium	dark brown	x-hard	10 pieces	<b>0 542 941-10</b>	
		medium	dark grey	medium	10 pieces	<b>0 542 943-10</b>	
		fine	red brown	medium	10 pieces	<b>0 542 944-10</b>	
		x-fine	green	medium	10 pieces	<b>0 542 945-10</b>	
		xx-fine	yellow	medium	10 pieces	<b>0 542 946-10</b>	
	$\varnothing$ 2 x 20 mm	coarse	blue	hard	10 pieces	<b>0 542 952-10</b>	
		medium	dark brown	x-hard	10 pieces	<b>0 542 951-10</b>	
		medium	dark grey	medium	10 pieces	<b>0 542 953-10</b>	
		fine	red brown	medium	10 pieces	<b>0 542 954-10</b>	
		x-fine	green	medium	10 pieces	<b>0 542 955-10</b>	
		xx-fine	yellow	medium	10 pieces	<b>0 542 956-10</b>	
	$\varnothing$ 3 x 23 mm	coarse	blue	hard	10 pieces	<b>0 542 962-10</b>	
		medium	dark brown	x-hard	10 pieces	<b>0 542 961-10</b>	
		medium	dark grey	medium	10 pieces	<b>0 542 963-10</b>	
		fine	red brown	medium	10 pieces	<b>0 542 964-10</b>	
		x-fine	green	medium	10 pieces	<b>0 542 965-10</b>	
		xx-fine	yellow	medium	10 pieces	<b>0 542 966-10</b>	
	$\varnothing$ 4 x 26 mm	coarse	blue	hard	10 pieces	<b>0 542 972-10</b>	
		medium	dark brown	x-hard	10 pieces	<b>0 542 971-10</b>	
		medium	dark grey	medium	10 pieces	<b>0 542 973-10</b>	
		fine	red brown	medium	10 pieces	<b>0 542 974-10</b>	
		x-fine	green	medium	10 pieces	<b>0 542 975-10</b>	
		xx-fine	yellow	medium	10 pieces	<b>0 542 976-10</b>	
	$\varnothing$ 5 x 28 mm	coarse	blue	hard	10 pieces	<b>0 542 982-10</b>	
		medium	dark brown	x-hard	10 pieces	<b>0 542 981-10</b>	
		medium	dark grey	medium	10 pieces	<b>0 542 983-10</b>	
		fine	red brown	medium	10 pieces	<b>0 542 984-10</b>	
		x-fine	green	medium	10 pieces	<b>0 542 985-10</b>	
		xx-fine	yellow	medium	10 pieces	<b>0 542 986-10</b>	

### Accessories / spare parts

	Dimensions	Order No.	Price from		
			1 piece	3 pieces	5 pieces
<b>Holder for joke FlexPol, shank <math>\varnothing</math> 2.35 x 30 mm</b>					
	$\varnothing$ 2 mm	<b>0 542 950</b>			
	$\varnothing$ 3 mm	<b>0 542 960</b>			
	$\varnothing$ 4 mm	<b>0 542 970</b>			
	$\varnothing$ 5 mm	<b>0 542 980</b>			

## 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
<b>Elastic grinding files joke PU-DIA</b>						
<b>rectangular</b>						
	10 x 10 x 100 mm	D 3	green	<b>0 545 801</b>		
		D 9	red	<b>0 545 802</b>		
		D 15	brown	<b>0 545 803</b>		
		D 30	mahagony	<b>0 545 804</b>		
		D 40	purple	<b>0 545 805</b>		
		D 60	orange	<b>0 545 806</b>		
	20 x 20 x 100 mm	D 3	green	<b>0 545 811</b>		
		D 9	red	<b>0 545 812</b>		
		D 15	brown	<b>0 545 813</b>		
		D 30	mahagony	<b>0 545 814</b>		
		D 40	purple	<b>0 545 815</b>		
		D 60	orange	<b>0 545 816</b>		

## 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
<b>Polishing point set, soft elastomer</b>								
	Set – silicone polishers consisting of 1 piece each:			Sic 240	green	Ø 2.35 - 30 mm	12 pieces	<b>0 544 855</b>
	Wheel:	head dim. 10 x 2 mm						
	Mushroom:	head dim. 10 x 2 mm						
	Cylinder:	head dim. 10 x 4 mm						
	Cylinder:	head dim. 6 x 10 mm						
	Trapezium (open):	head dim. 9 x 6 mm						
	Trapezium (closed):	head dim. 8 x 6 mm						
	Barrel:	head dim. 6 x 6 mm		Sic 400	grey	Ø 2.35 - 30 mm	12 pieces	<b>0 544 856</b>
	Sphere:	head dim. Ø 8 mm						
	Cone:	head dim. 6 x 6 mm						
	Tree:	head dim. 6 x 6 mm						
	Tree with pointed end:	head dim. 6 x 12 mm						
Tree:	head dim. 6 x 15 mm							
Storage in a plastic box.								

## Lapping and polishing rubber for self-made tools


Dimensions	Grit size	Type	Order No.	Price from	
				1 piece	20 pieces
<b>Lapping and polishing rubber for self-made tools</b>					
<b>stick</b>					
 Ø 6 x 200 mm	120	SG-6	<b>0 544 951</b>		
Ø 10 x 200 mm	120	SG-100	<b>0 544 956</b>		
Ø 12 x 200 mm	120	SG-120	<b>0 544 952</b>		

## 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
<b>Rubber-bonded grinding tool with handle CERA Stick</b>					
	50 x 12 x 6 mm	# 46	grey	<b>0 544 581</b>	
	50 x 12 x 6 mm	# 80	red	<b>0 544 582</b>	
	50 x 12 x 6 mm	# 120	blue	<b>0 544 583</b>	
	50 x 12 x 6 mm	# 220	yellow	<b>0 544 584</b>	
	50 x 12 x 6 mm	# 320	violet	<b>0 544 585</b>	

 *matching set*

	Order No.	Price from
		1 pack
<b>Set CERA Sticks in plastic box</b>		
 Contents: 1 stick of each grit size	<b>0 544 580</b>	

## 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

	Price from
Order No.	1 set

**CRATEX® Set 778, 68 pieces**


Contents in plastic storage case:

- 8 CRATEX® points shape 4
- 8 CRATEX® points shape 6
- 8 CRATEX® points shape 8
- 8 CRATEX® points shape 10
- 8 CRATEX® points shape 11
- 8 CRATEX® points shape 12
- 8 CRATEX® points shape 14
- 8 CRATEX® 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**

	Price from
Order No.	1 set




**CRATEX® Set 777, 84 pieces**


Contents in plastic storage case:

- 8 CRATEX® wheels shape 2
- 16 CRATEX® points shape 6
- 16 CRATEX® points shape 8
- 8 CRATEX® points shape 10
- 8 CRATEX® wheels shape 54
- 16 CRATEX® wheels shape 74
- 8 CRATEX® 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**

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

Shape	Dimensions	Grit size	Type	Matching-receptacles	Order No.	Price from	
						1 piece	20 pieces
<b>CRATEX® rubber-bonded abrasive for shank mounting</b>							
 wheel, tapered	Ø 16 x 2.5 mm	C-coarse 40	2	21, 22, 23, 25	<b>0 545 005</b>		
	Ø 16 x 2.5 mm	M-medium 90	2	21, 22, 23, 25	<b>0 545 006</b>		
	Ø 16 x 2.5 mm	F-fine 120	2	21, 22, 23, 25	<b>0 545 007</b>		
	Ø 16 x 2.5 mm	XF-extra fine 240	2	21, 22, 23, 25	<b>0 545 008</b>		
	Ø 25 x 3 mm	C-coarse 40	5	21, 22, 23, 25	<b>0 545 009</b>		
	Ø 25 x 3 mm	M-medium 90	5	21, 22, 23, 25	<b>0 545 010</b>		
	Ø 25 x 3 mm	F-fine 120	5	21, 22, 23, 25	<b>0 545 011</b>		
	Ø 25 x 3 mm	XF-extra fine 240	5	21, 22, 23, 25	<b>0 545 012</b>		
 point, cylindrical shape	Ø 6 x 12.5 mm	C-coarse 40	4	11, 12	<b>0 545 017</b>		
	Ø 6 x 12.5 mm	M-medium 90	4	11, 12	<b>0 545 018</b>		
	Ø 6 x 12.5 mm	F-fine 120	4	11, 12	<b>0 545 019</b>		
	Ø 6 x 12.5 mm	XF-extra fine 240	4	11, 12	<b>0 545 020</b>		
	Ø 6 x 22 mm	C-coarse 40	6	11, 12	<b>0 545 021</b>		
	Ø 6 x 22 mm	M-medium 90	6	11, 12	<b>0 545 022</b>		
	Ø 6 x 22 mm	F-fine 120	6	11, 12	<b>0 545 023</b>		
	Ø 6 x 22 mm	XF-extra fine 240	6	11, 12	<b>0 545 024</b>		
 point, bullet-shape	Ø 7 x 25 mm	C-coarse	8	11, 12	<b>0 545 029</b>		
	Ø 7 x 25 mm	M-medium 90	8	11, 12	<b>0 545 030</b>		
	Ø 7 x 25 mm	F-fine 120	8	11, 12	<b>0 545 031</b>		
	Ø 7 x 25 mm	XF-extra fine 240	8	11, 12	<b>0 545 032</b>		
	Ø 9.5 x 16 mm	C-coarse 40	10	11, 12	<b>0 545 033</b>		
	Ø 9.5 x 16 mm	M-medium 90	10	11, 12	<b>0 545 034</b>		
	Ø 9.5 x 16 mm	F-fine 120	10	11, 12	<b>0 545 035</b>		
	Ø 9.5 x 16 mm	XF-extra fine 240	10	11, 12	<b>0 545 036</b>		
	Ø 9.5 x 25 mm	C-coarse 40	11	13, 14	<b>0 545 037</b>		
	Ø 9.5 x 25 mm	M-medium 90	11	13, 14	<b>0 545 038</b>		
	Ø 9.5 x 25 mm	F-fine 120	11	13, 14	<b>0 545 039</b>		
	Ø 9.5 x 25 mm	XF-extra fine 240	11	13, 14	<b>0 545 040</b>		
	Ø 12.5 x 22 mm	C-coarse 40	15	13, 14	<b>0 545 041</b>		
	Ø 12.5 x 22 mm	M-medium 90	15	13, 14	<b>0 545 042</b>		
	Ø 12.5 x 22 mm	F-fine 120	15	13, 14	<b>0 545 043</b>		
Ø 12.5 x 22 mm	XF-extra fine 240	15	13, 14	<b>0 545 044</b>			

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





	Shape	Dimensions	Grit size	Type	Matching-receptacles	Order No.	Price from	
							1 piece	20 pieces
	wheel	Ø 16 x 2.3 mm	C-coarse 40	53	21, 22, 23, 25	<b>0 545 073</b>		
		Ø 16 x 2.3 mm	M-medium 90	53	21, 22, 23, 25	<b>0 545 074</b>		
		Ø 16 x 2.3 mm	F-fine 120	53	21, 22, 23, 25	<b>0 545 075</b>		
		Ø 16 x 2.3 mm	XF-extra fine 240	53	21, 22, 23, 25	<b>0 545 076</b>		
		Ø 16 x 3 mm	C-coarse 40	54	21, 22, 23, 25	<b>0 545 077</b>		
		Ø 16 x 3 mm	M-medium 90	54	21, 22, 23, 25	<b>0 545 078</b>		
		Ø 16 x 3 mm	F-fine 120	54	21, 22, 23, 25	<b>0 545 079</b>		
		Ø 16 x 3 mm	XF-extra fine 240	54	21, 22, 23, 25	<b>0 545 080</b>		
		Ø 22 x 3 mm	C-coarse 40	74	21, 22, 23, 25	<b>0 545 085</b>		
		Ø 22 x 3 mm	M-medium 90	74	21, 22, 23, 25	<b>0 545 086</b>		
		Ø 22 x 3 mm	F-fine 120	74	21, 22, 23, 25	<b>0 545 087</b>		
		Ø 22 x 3 mm	XF-extra fine 240	74	21, 22, 23, 25	<b>0 545 088</b>		
		Ø 22 x 4.5 mm	C-coarse 40	76	21, 22, 23, 25	<b>0 545 089</b>		
		Ø 22 x 4.5 mm	M-medium 90	76	21, 22, 23, 25	<b>0 545 090</b>		
		Ø 22 x 4.5 mm	F-fine 120	76	21, 22, 23, 25	<b>0 545 091</b>		
		Ø 22 x 4.5 mm	XF-extra fine 240	76	21, 22, 23, 25	<b>0 545 092</b>		
		Ø 25 x 3 mm	C-coarse 40	80	21, 22, 23, 25	<b>0 545 101</b>		
		Ø 25 x 3 mm	M-medium 90	80	21, 22, 23, 25	<b>0 545 102</b>		
Ø 25 x 3 mm	F-fine 120	80	21, 22, 23, 25	<b>0 545 103</b>				
Ø 25 x 3 mm	XF-extra fine 240	80	21, 22, 23, 25	<b>0 545 104</b>				
	cone	Ø 16/6 x 25 mm	M-medium 90	1340	31	<b>0 545 118</b>		
		Ø 16/6 x 25 mm	F-fine 120	1340	31	<b>0 545 119</b>		

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





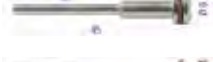




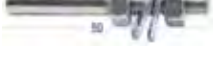



	Dimensions	Drilling dimension	Grit size	Type	Rotation speed max.	Order No.	Price from
							1 piece
<b>CRATEX® Rubber-bonded grinding wheels</b>							
	Ø 38 x 3 mm	3 mm	M-medium 90	152	15000 1/min	<b>0 545 302</b>	
	Ø 38 x 9.5 mm	6 mm	M-medium 90	156	15000 1/min	<b>0 545 314</b>	
	Ø 50 x 3 mm	6 mm	C-coarse 40	202	10500 1/min	<b>0 545 321</b>	
		6 mm	F-fine 120	202	10500 1/min	<b>0 545 323</b>	
	Ø 50 x 4.5 mm	6 mm	M-medium 90	203	10500 1/min	<b>0 545 326</b>	
	Ø 50 x 6 mm	6 mm	C-coarse 40	204	10500 1/min	<b>0 545 329</b>	
		6 mm	F-fine 120	204	10500 1/min	<b>0 545 331</b>	
	Ø 75 x 6 mm	6 mm	M-medium 90	304	7000 1/min	<b>0 545 358</b>	
	Ø 125 x 6 mm	25 mm	XF-extra fine 240	504	4200 1/min	<b>0 545 408</b>	



## Tool system CRATEX® mounting shanks and grinding wheel holders

	for bore dimensions	Shank dimensions	Type	Order No.	Price from	
					1 piece	10 pieces
<b>CRATEX® mounting shanks</b>						
	Ø 2 mm	Ø 2.35 mm	11	<b>0 545 271</b>		
	Ø 2 mm	Ø 3 mm	12	<b>0 545 272</b>		
	Ø 3 mm	Ø 3 mm	13	<b>0 545 273</b>		
	Ø 3 mm	Ø 6 mm	14	<b>0 545 274</b>		

## 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
<b>CRATEX® grinding wheel holder</b>							
	Ø 1.5 – 1.8 mm	Ø 2.35 x 30/15 mm	25	Ø 38 x 4.5 mm	<b>0 545 279</b>		
	Ø 1.5 – 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	<b>0 545 275</b>		
	Ø 1.5 – 1.8 mm	Ø 3 x 40/30 mm	24	Ø 38 x 3 mm	<b>0 545 278</b>		
	Ø 1.5 – 1.8 mm	Ø 3 x 42 mm	22	Ø 38 x 4.5 mm	<b>0 545 276</b>		
	Ø 1/8" / Ø 3.2 mm	Ø 3 x 40/30 mm	28	Ø 38 x 5.5 mm	<b>0 545 296</b>		
	Ø 1.5 – 1.8 mm	Ø 3 x 40 mm	26	Ø 25 x 8.5 mm	<b>0 545 280</b>		
	Ø 1.5 – 1.8 mm	Ø 6 x 42 mm	23	Ø 38 x 4.5 mm	<b>0 545 277</b>		
	Ø 1.5 – 1.8 mm	Ø 6 x 40 mm	27	Ø 25 x 8.5 mm	<b>0 545 281</b>		
	Ø 3 mm	Ø 6 x 40 mm	33	Ø 45 x 6 mm	<b>0 545 269</b>		
	Ø 6 mm	Ø 6 x 25 mm	41	Ø 75 x 9.5 mm	<b>0 545 282</b>		
	Ø 6 mm	Ø 6 x 40 mm	42	Ø 75 x 20 mm	<b>0 545 283</b>		
	Ø 1/4" / Ø 6.3 mm	Ø 6 x 30 mm	31	Ø 75 x 25 mm	<b>0 545 284</b>		
	Ø 1/4" / Ø 6.3 mm	Ø 6 x 40 mm	32	Ø 75 x 20 mm	<b>0 545 297</b>		

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

 1  
**2**  
 3  
 4  
 5  
 6  
 7

Dimensions	Grit size	Type	Order No.	Price from	
				1 piece	10 pieces
<b>CRATEX® rubber-bonded sticks</b>					
<b>square</b>					
	6 x 6 x 150 mm	C-coarse 40	6202	<b>0 545 171</b>	
		M-medium 90	6202	<b>0 545 172</b>	
		F-fine 120	6202	<b>0 545 173</b>	
		XF-s, fine 240	6202	<b>0 545 174</b>	
	12.5 x 12.5 x 150 mm	C-coarse 40	6404	<b>0 545 175</b>	
		M-medium 90	6404	<b>0 545 176</b>	
		F-fine 120	6404	<b>0 545 177</b>	
		XF-s, fine 240	6404	<b>0 545 178</b>	
	18 x 18 x 150 mm	C-coarse 40	6606	<b>0 545 179</b>	
		M-medium 90	6606	<b>0 545 180</b>	
		F-fine 120	6606	<b>0 545 181</b>	
		XF-s, fine 240	6606	<b>0 545 182</b>	
<b>round</b>					
	Ø 4.8 x 150 mm	M-medium 90	036	<b>0 545 228</b>	
		F-fine 120	036	<b>0 545 229</b>	
	Ø 6 x 150 mm	C-coarse 40	046	<b>0 545 231</b>	
		M-medium 90	046	<b>0 545 232</b>	
		F-fine 120	046	<b>0 545 233</b>	
		XF-s, fine 240	046	<b>0 545 234</b>	
	Ø 9.5 x 150 mm	M-medium 90	066	<b>0 545 240</b>	
		F-fine 120	066	<b>0 545 241</b>	
		XF-s, fine 240	066	<b>0 545 242</b>	
	Ø 12.5 x 150 mm	C-coarse 40	086	<b>0 545 243</b>	
		M-medium 90	086	<b>0 545 244</b>	
		F-fine 120	086	<b>0 545 245</b>	
		XF-s, fine 240	086	<b>0 545 246</b>	
	Ø 16 x 150 mm	M-medium 90	0106	<b>0 545 248</b>	
		F-fine 120	0106	<b>0 545 249</b>	
	Ø 18 x 150 mm	C-coarse 40	0126	<b>0 545 251</b>	
		M-medium 90	0126	<b>0 545 252</b>	
		F-fine 120	0126	<b>0 545 253</b>	
	Ø 25 x 150 mm	F-fine 120	0166	<b>0 545 261</b>	
<b>rectangular</b>					
	25 x 3 x 150 mm	C-coarse 40	6801	<b>0 545 191</b>	
		M-medium 90	6801	<b>0 545 192</b>	
		F-fine 120	6801	<b>0 545 193</b>	
	25 x 6 x 150 mm	C-coarse 40	6802	<b>0 545 199</b>	
		M-medium 90	6802	<b>0 545 200</b>	
		F-fine 120	6802	<b>0 545 201</b>	
	25 x 9.5 x 150 mm	C-coarse 40	6803	<b>0 545 203</b>	
		M-medium 90	6803	<b>0 545 204</b>	
		F-fine 120	6803	<b>0 545 205</b>	
		XF-s, fine 240	6803	<b>0 545 206</b>	

# Grinding and polishing stones

223 joke stones

238 Boride® stones

249 Holder for grinding and polishing stones

228 Gesswein® stones

246 Bench stones



Typ	Page	Tool steel	Steels	Erosion structures	Stainless steel	Aluminium	Non-ferrous metals	Hard metal
FD	223	◆						◆
JB 1	224	◆	◆	◆				
JB 2	225	◆	◆	◆				
C-AS	226	◆	◆		◆	◆	◆	
Royal S	227	◆	◆	◆				
EDM BLUE	228	◆	◆	◆				
OT	229	◆	◆	◆				
EDM	230	◆	◆	◆				
DIEMAKER	231	◆	◆			◆	◆	
MOLDMAKER	233	◆	◆		◆	◆	◆	
ULTRASOFT	234	◆	◆	◆	◆	◆	◆	
PREMIUM WHITE	235	◆	◆		◆	◆	◆	
SUPER FINE	236	◆	◆		◆	◆	◆	
GP-STONE	237	◆	◆	◆				
CS-HD	238	◆	◆	◆				
T2	239	◆		◆	◆			
Orange EDM	240	◆	◆	◆				
A0	241	◆	◆	◆				
Golden Star	242	◆	◆					
AM-2	243	◆	◆		◆	◆	◆	
RO-MED	244	◆	◆	◆				
RASP	245	◆	◆	◆	◆	◆	◆	
CS-M	246	◆	◆					

# 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	<b>5</b>
soft				hard

### Stock removal

1	2	3	<b>4</b>	5
slow				fast

### Wear

<b>1</b>	2	3	4	5
slow				fast

### Application

1	2	3	4	<b>5</b>
Preparatory work				Finishing

Dimensions	Grit size	Type	Order No.	Price from 1 piece
<b>Grinding and polishing stones, joke FD</b>				
<b>crossing</b>				
4 x 1.5 x 100 mm	fine	FD	<b>0 401 570</b>	
<b>triangular</b>				
2 x 50 mm	fine	FD	<b>0 401 566</b>	
3 x 100 mm	fine	FD	<b>0 401 567</b>	
4 x 100 mm	fine	FD	<b>0 401 586</b>	
	medium	FD	<b>0 401 587</b>	
5 x 1.5 x 100 mm	fine	FD	<b>0 401 571</b>	
6 x 100 mm	fine	FD	<b>0 401 588</b>	
	medium	FD	<b>0 401 589</b>	
8 x 100 mm	fine	FD	<b>0 401 590</b>	
	medium	FD	<b>0 401 591</b>	
<b>square</b>				
1 x 50 mm	fine	FD	<b>0 401 568</b>	
2 x 100 mm	fine	FD	<b>0 401 569</b>	
4 x 100 mm	fine	FD	<b>0 401 592</b>	
	medium	FD	<b>0 401 593</b>	
6 x 100 mm	fine	FD	<b>0 401 594</b>	
	medium	FD	<b>0 401 595</b>	
8 x 100 mm	fine	FD	<b>0 401 596</b>	
	medium	FD	<b>0 401 597</b>	
<b>round</b>				
Ø 1 x 50 mm	fine	FD	<b>0 401 563</b>	
Ø 2 x 100 mm	fine	FD	<b>0 401 564</b>	
Ø 3 x 100 mm	fine	FD	<b>0 401 565</b>	
Ø 4 x 100 mm	fine	FD	<b>0 401 580</b>	
	medium	FD	<b>0 401 581</b>	
Ø 6 x 100 mm	fine	FD	<b>0 401 582</b>	
	medium	FD	<b>0 401 583</b>	
Ø 8 x 100 mm	fine	FD	<b>0 401 584</b>	
	medium	FD	<b>0 401 585</b>	
<b>halfround</b>				
Ø 4 x 100 mm	fine	FD	<b>0 401 562</b>	
<b>rectangular</b>				
3 x 0.3 x 50 mm	fine	FD	<b>0 401 561</b>	
6 x 3 x 100 mm	fine	FD	<b>0 401 576</b>	
	medium	FD	<b>0 401 577</b>	
8 x 6 x 100 mm	fine	FD	<b>0 401 578</b>	
	medium	FD	<b>0 401 579</b>	

## 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
<b>Grinding and polishing stones, joke JB1</b>						
<b>square</b>						
6 x 6 x 150 mm	80	JB1	<b>0 401 675</b>			
	120	JB1	<b>0 401 676</b>			
	180	JB1	<b>0 401 677</b>			
4 x 4 x 150 mm	120	JB1	<b>0 401 805</b>			
	180	JB1	<b>0 401 815</b>			
<b>rectangular</b>						
6 x 3 x 150 mm	80	JB1	<b>0 401 801</b>			
	120	JB1	<b>0 401 806</b>			
	180	JB1	<b>0 401 816</b>			
13 x 3 x 150 mm	80	JB1	<b>0 401 802</b>			
	120	JB1	<b>0 401 807</b>			
	180	JB1	<b>0 401 817</b>			
13 x 6 x 150 mm	80	JB1	<b>0 401 803</b>			
	120	JB1	<b>0 401 808</b>			
	180	JB1	<b>0 401 818</b>			
20 x 10 x 150 mm	80	JB1	<b>0 401 804</b>			
	120	JB1	<b>0 401 809</b>			
	180	JB1	<b>0 401 819</b>			

## 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
<b>Grinding and polishing stone oil (fluid)</b>			
1 litre		<b>0 401 870</b>	
5 litres		<b>0 401 870-5</b>	



# Grinding and polishing stones

## joke JB2

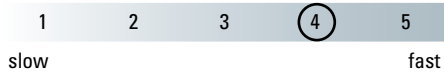
These stones of sulphured high-grade corundum are particularly suitable for grinding eroded surfaces and contours. The hard bond guarantees a very high edge strength for the stones and at the same time prevents excessive clogging. The additional use of abrasive stone oil (fluid) is recommended.



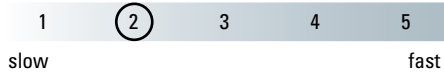
### Bonding



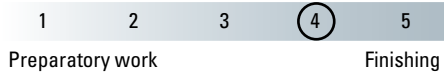
### Stock removal



### Wear



### Application



Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
<b>Grinding and polishing stones joke JB2</b>						
<b>rectangular</b>						
6 x 3 x 150 mm	180	JB2	<b>0 401 821</b>			
	320	JB2	<b>0 401 826</b>			
	600	JB2	<b>0 401 841</b>			
13 x 3 x 150 mm	180	JB2	<b>0 401 822</b>			
	320	JB2	<b>0 401 827</b>			
13 x 6 x 150 mm	120	JB2	<b>0 401 813</b>			
	180	JB2	<b>0 401 823</b>			
	320	JB2	<b>0 401 828</b>			
	600	JB2	<b>0 401 843</b>			
20 x 10 x 150 mm	120	JB2	<b>0 401 814</b>			
	320	JB2	<b>0 401 829</b>			

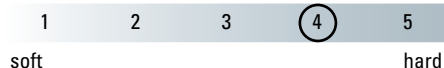
## Grinding and polishing stones

### joke C-AS

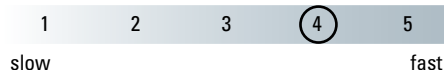
joke C-AS stones are made from white high-grade corundum with sulphured graphite to prevent tearing on the surface. The bond is hard and therefore edge-stable. Use with a fluid or file oil is recommended.



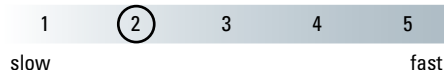
#### Bonding



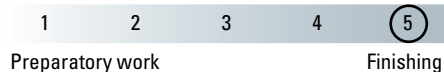
#### Stock removal



#### Wear



#### Application



Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
<b>Grinding and polishing stones, joke C-AS</b>						
<b>square</b>						
6 x 6 x 125 mm	220	C-AS	<b>0 414 023</b>			
	320	C-AS	<b>0 414 024</b>			
	400	C-AS	<b>0 414 025</b>			
	600	C-AS	<b>0 414 026</b>			
	800	C-AS	<b>0 414 027</b>			
	1000	C-AS	<b>0 414 028</b>			
	1200	C-AS	<b>0 414 029</b>			
<b>rectangular</b>						
12 x 3 x 125 mm	220	C-AS	<b>0 414 033</b>			
	320	C-AS	<b>0 414 034</b>			
	400	C-AS	<b>0 414 035</b>			
	600	C-AS	<b>0 414 036</b>			
	800	C-AS	<b>0 414 037</b>			
	1000	C-AS	<b>0 414 038</b>			
	1200	C-AS	<b>0 414 039</b>			
12 x 6 x 125 mm	220	C-AS	<b>0 414 043</b>			
	320	C-AS	<b>0 414 044</b>			
	400	C-AS	<b>0 414 045</b>			
	600	C-AS	<b>0 414 046</b>			
	800	C-AS	<b>0 414 047</b>			
	1000	C-AS	<b>0 414 048</b>			
	1200	C-AS	<b>0 414 049</b>			

# 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

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
<b>Grinding and polishing stones, joke Royal S</b>						
<b>square</b>						
6 x 6 x 150 mm	320	Royal S	<b>0 401 862</b>			
	400	Royal S	<b>0 401 863</b>			
	600	Royal S	<b>0 401 864</b>			
	800	Royal S	<b>0 401 865</b>			
	1000	Royal S	<b>0 401 866</b>			
<b>rectangular</b>						
6 x 3 x 150 mm	320	Royal S	<b>0 401 831</b>			
	400	Royal S	<b>0 401 836</b>			
	600	Royal S	<b>0 401 846</b>			
	800	Royal S	<b>0 401 851</b>			
	1000	Royal S	<b>0 401 856</b>			
13 x 3 x 150 mm	320	Royal S	<b>0 401 832</b>			
	400	Royal S	<b>0 401 837</b>			
	600	Royal S	<b>0 401 847</b>			
	800	Royal S	<b>0 401 852</b>			
	1000	Royal S	<b>0 401 857</b>			
13 x 6 x 150 mm	320	Royal S	<b>0 401 833</b>			
	400	Royal S	<b>0 401 838</b>			
	600	Royal S	<b>0 401 848</b>			
	800	Royal S	<b>0 401 853</b>			
	1000	Royal S	<b>0 401 858</b>			



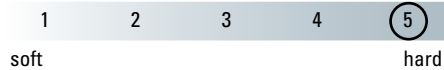
## Grinding and polishing stones

### Gesswein® EDM BLUE

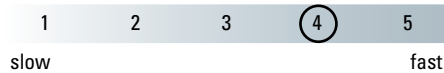
Premium aluminium oxide stones. The hardest Gesswein® stones. Ideal for use with hand-filing machines and ultrasonic polishing systems. As these stones are a lot harder than the EDM series, they are better suited for the quick removal of hard erosion skin. Optimum results in conjunction with fluid.



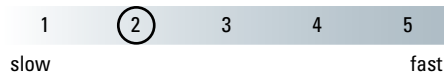
#### Bonding



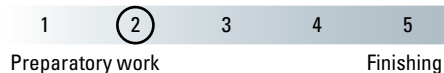
#### Stock removal



#### Wear



#### Application



Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
<b>Grinding and polishing stones Gesswein® EDM BLUE</b>						
<b>square</b>						
4 x 4 x 100 mm	120	EDM BLUE 61	<b>0 401 601</b>			
	180	EDM BLUE 62	<b>0 401 602</b>			
	220	EDM BLUE 622	<b>0 401 603</b>			
	320	EDM BLUE 63	<b>0 401 604</b>			
	400	EDM BLUE 64	<b>0 401 605</b>			
	600	EDM BLUE 66	<b>0 401 606</b>			
6 x 6 x 150 mm	120	EDM BLUE 6122	<b>0 401 613</b>			
	180	EDM BLUE 6182	<b>0 401 614</b>			
	220	EDM BLUE 6202	<b>0 401 615</b>			
	320	EDM BLUE 6302	<b>0 401 616</b>			
	400	EDM BLUE 6402	<b>0 401 617</b>			
	600	EDM BLUE 6602	<b>0 401 618</b>			
<b>round</b>						
Ø 6 x 150 mm	120	EDM BLUE E122	<b>0 401 637</b>			
	180	EDM BLUE E182	<b>0 401 638</b>			
	320	EDM BLUE E302	<b>0 401 639</b>			
<b>rectangular</b>						
6 x 3 x 150 mm	120	EDM BLUE 6121	<b>0 401 607</b>			
	180	EDM BLUE 6181	<b>0 401 608</b>			
	220	EDM BLUE 6201	<b>0 401 609</b>			
	320	EDM BLUE 6301	<b>0 401 610</b>			
	400	EDM BLUE 6401	<b>0 401 611</b>			
	600	EDM BLUE 6601	<b>0 401 612</b>			
13 x 1.6 x 150 mm	120	EDM BLUE 6120	<b>0 401 619</b>			
	180	EDM BLUE 6180	<b>0 401 620</b>			
	220	EDM BLUE 6200	<b>0 401 621</b>			
	320	EDM BLUE 6300	<b>0 401 622</b>			
	400	EDM BLUE 6400	<b>0 401 623</b>			
	600	EDM BLUE 6600	<b>0 401 624</b>			
13 x 3 x 150 mm	120	EDM BLUE 6123	<b>0 401 625</b>			
	180	EDM BLUE 6183	<b>0 401 626</b>			
	220	EDM BLUE 6203	<b>0 401 627</b>			
	320	EDM BLUE 6303	<b>0 401 628</b>			
	400	EDM BLUE 6403	<b>0 401 629</b>			
	600	EDM BLUE 6603	<b>0 401 630</b>			
13 x 6 x 150 mm	120	EDM BLUE 6124	<b>0 401 631</b>			
	180	EDM BLUE 6184	<b>0 401 632</b>			
	220	EDM BLUE 6204	<b>0 401 633</b>			
	320	EDM BLUE 6304	<b>0 401 634</b>			
	400	EDM BLUE 6404	<b>0 401 635</b>			
	600	EDM BLUE 6604	<b>0 401 636</b>			

# 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
<b>Grinding and polishing stones, Gesswein® OT</b>						
<b>square</b>						
4 x 4 x 100 mm	120	OT 51	<b>0 401 276</b>			
	220	OT 52	<b>0 401 277</b>			
	320	OT 53	<b>0 401 278</b>			
	400	OT 54	<b>0 401 279</b>			
	600	OT 56	<b>0 401 280</b>			
4 x 4 x 150 mm	120	OT 51	<b>0 401 202</b>			
	220	OT 52	<b>0 401 203</b>			
	320	OT 53	<b>0 401 204</b>			
	400	OT 54	<b>0 401 205</b>			
	600	OT 56	<b>0 401 206</b>			
6 x 6 x 150 mm	120	OT 5102	<b>0 401 286</b>			
	220	OT 5202	<b>0 401 287</b>			
	320	OT 5302	<b>0 401 288</b>			
	400	OT 5402	<b>0 401 289</b>			
	600	OT 5602	<b>0 401 290</b>			
<b>rectangular</b>						
6 x 3 x 150 mm	120	OT 5101	<b>0 401 281</b>			
	220	OT 5201	<b>0 401 282</b>			
	320	OT 5301	<b>0 401 283</b>			
	400	OT 5401	<b>0 401 284</b>			
	600	OT 5601	<b>0 401 285</b>			
13 x 3 x 150 mm	120	OT 5103	<b>0 401 291</b>			
	220	OT 5203	<b>0 401 292</b>			
	320	OT 5303	<b>0 401 293</b>			
	400	OT 5403	<b>0 401 294</b>			
	600	OT 5603	<b>0 401 295</b>			
13 x 6 x 150 mm	800	OT 5803	<b>0 401 254</b>			
	1200	OT 5903	<b>0 401 255</b>			
	120	OT 5104	<b>0 401 296</b>			
	220	OT 5204	<b>0 401 297</b>			
	320	OT 5304	<b>0 401 298</b>			
13 x 6 x 150 mm	400	OT 5404	<b>0 401 299</b>			
	600	OT 5604	<b>0 401 300</b>			
	800	OT 5804	<b>0 401 256</b>			
	1200	OT 5904	<b>0 401 257</b>			
	25 x 13 x 150 mm	120	OT	<b>0 401 641</b>		
220		OT	<b>0 401 642</b>			
320		OT	<b>0 401 643</b>			
400		OT	<b>0 401 644</b>			
600		OT	<b>0 401 645</b>			

## 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

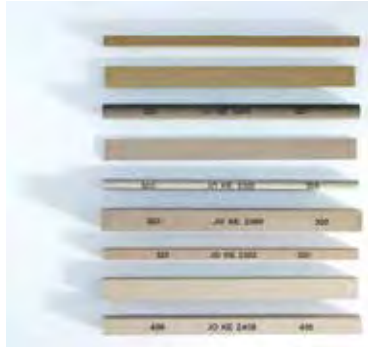
1	2	3	4	5
Preparatory work				Finishing

Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
<b>Grinding and polishing stones, Gesswein® EDM</b>						
<b>square</b>						
4 x 4 x 100 mm	180	EDM 62	<b>0 401 002</b>			
	220	EDM 622	<b>0 401 755</b>			
	320	EDM 63	<b>0 401 003</b>			
	400	EDM 64	<b>0 401 710</b>			
	600	EDM 66	<b>0 401 711</b>			
6 x 6 x 150 mm	120	EDM 6122	<b>0 401 010</b>			
	180	EDM 6182	<b>0 401 011</b>			
	220	EDM 6202	<b>0 401 752</b>			
	320	EDM 6302	<b>0 401 012</b>			
	400	EDM 6402	<b>0 401 716</b>			
	600	EDM 6602	<b>0 401 717</b>			
10 x 10 x 150 mm	120	EDM 6128	<b>0 401 019</b>			
	180	EDM 6188	<b>0 401 020</b>			
	320	EDM 6308	<b>0 401 021</b>			
<b>round</b>						
Ø 6 x 150 mm	120	EDM 122	<b>0 401 264</b>			
	180	EDM 182	<b>0 401 265</b>			
	320	EDM 302	<b>0 401 266</b>			
	400	EDM 402	<b>0 401 722</b>			
	220	EDM 222	<b>0 401 750</b>			
<b>rectangular</b>						
6 x 3 x 150 mm	120	EDM 6121	<b>0 401 007</b>			
	180	EDM 6181	<b>0 401 008</b>			
	220	EDM 6201	<b>0 401 751</b>			
	320	EDM 6301	<b>0 401 009</b>			
	400	EDM 6401	<b>0 401 714</b>			
	600	EDM 6601	<b>0 401 715</b>			
13 x 1.6 x 150 mm	120	EDM 6120	<b>0 401 004</b>			
	180	EDM 6180	<b>0 401 005</b>			
	320	EDM 6300	<b>0 401 006</b>			
	400	EDM 6400	<b>0 401 712</b>			
13 x 3 x 150 mm	120	EDM 6123	<b>0 401 013</b>			
	180	EDM 6183	<b>0 401 014</b>			
	220	EDM 6203	<b>0 401 753</b>			
	320	EDM 6303	<b>0 401 015</b>			
	400	EDM 6403	<b>0 401 718</b>			
	600	EDM 6603	<b>0 401 719</b>			
13 x 6 x 150 mm	120	EDM 6124	<b>0 401 016</b>			
	180	EDM 6184	<b>0 401 017</b>			
	220	EDM 6204	<b>0 401 708</b>			
	320	EDM 6304	<b>0 401 018</b>			
	400	EDM 6404	<b>0 401 720</b>			
	600	EDM 6604	<b>0 401 721</b>			
40 x 25 x 150 mm	120	EDM	<b>0 401 273</b>			
	180	EDM	<b>0 401 274</b>			
	320	EDM	<b>0 401 275</b>			

# 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



### Stock removal



### Wear



### Application

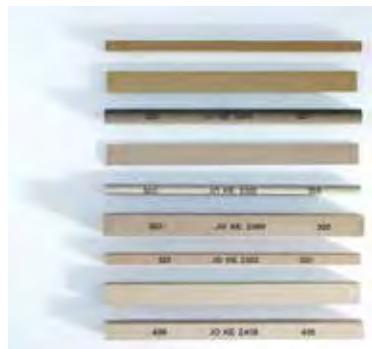


Dimensions	Grit size	Type	Order No.	Price from			
				1 piece	12 pieces	60 pieces	
<b>Grinding and polishing stones Gesswein® DIEMAKER</b>							
<b>triangular</b>							
10 x 10 x 10 x 150 mm	150	DIEMAKER 2198	<b>0 401 249</b>				
	220	DIEMAKER 2298	<b>0 401 250</b>				
	320	DIEMAKER 2398	<b>0 401 251</b>				
	400	DIEMAKER 2498	<b>0 401 252</b>				
<b>square</b>							
4 x 4 x 100 mm	150	DIEMAKER 0010	<b>0 401 786</b>				
	220	DIEMAKER 2	<b>0 401 141</b>				
	320	DIEMAKER 3	<b>0 401 142</b>				
	400	DIEMAKER 4	<b>0 401 143</b>				
	600	DIEMAKER 6	<b>0 401 144</b>				
	800	DIEMAKER 8	<b>0 401 145</b>				
	900	DIEMAKER 9	<b>0 401 146</b>				
	6 x 6 x 150 mm	150	DIEMAKER 2102	<b>0 401 748</b>			
		220	DIEMAKER 2202	<b>0 401 158</b>			
320		DIEMAKER 2302	<b>0 401 159</b>				
400		DIEMAKER 2402	<b>0 401 160</b>				
600		DIEMAKER 2602	<b>0 401 161</b>				
900		DIEMAKER 2902	<b>0 401 162</b>				
10 x 10 x 150 mm	150	DIEMAKER 2108	<b>0 401 757</b>				
	220	DIEMAKER 2208	<b>0 401 163</b>				
	320	DIEMAKER 2308	<b>0 401 164</b>				
	400	DIEMAKER 2408	<b>0 401 165</b>				
	600	DIEMAKER 2608	<b>0 401 166</b>				
	900	DIEMAKER 2908	<b>0 401 167</b>				
	13 x 13 x 150 mm	150	DIEMAKER 2105	<b>0 401 789</b>			
220		DIEMAKER 2205	<b>0 401 183</b>				
320		DIEMAKER 2305	<b>0 401 184</b>				
400		DIEMAKER 2405	<b>0 401 185</b>				
25 x 25 x 150 mm		150	DIEMAKER 2106	<b>0 401 237</b>			
	220	DIEMAKER 2206	<b>0 401 238</b>				
<b>round</b>							
Ø 6 x 150 mm	220	DIEMAKER 3202	<b>0 401 188</b>				
	320	DIEMAKER 3302	<b>0 401 189</b>				
	400	DIEMAKER 3402	<b>0 401 190</b>				
	600	DIEMAKER 3602	<b>0 401 191</b>				
	900	DIEMAKER 3902	<b>0 401 192</b>				
Ø 10 x 150 mm	220	DIEMAKER 3208	<b>0 401 193</b>				
	320	DIEMAKER 3308	<b>0 401 194</b>				
	400	DIEMAKER 3408	<b>0 401 195</b>				
	600	DIEMAKER 3608	<b>0 401 196</b>				

## Grinding and polishing stones

### Gesswein® DIEMAKER

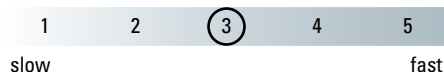
The original "diemaker stones". Medium hard aluminium oxide combined with a semi-soft bond results in a DF stone quality with high dimensional stability and existing contours are therefore easily rectified. They are mainly used for cutting and punching tools, but are also very suitable for mould and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



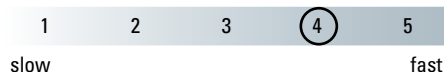
#### Bonding



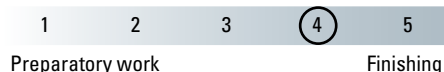
#### Stock removal



#### Wear



#### Application



Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
<b>rectangular</b>						
6 x 1,6 x 100 mm	220	DIEMAKER 2210	<b>0 401 148</b>			
	320	DIEMAKER 2310	<b>0 401 149</b>			
	400	DIEMAKER 2410	<b>0 401 150</b>			
	600	DIEMAKER 2610	<b>0 401 151</b>			
6 x 3 x 150 mm	150	DIEMAKER 2101	<b>0 401 242</b>			
	220	DIEMAKER 2201	<b>0 401 153</b>			
	320	DIEMAKER 2301	<b>0 401 154</b>			
	400	DIEMAKER 2401	<b>0 401 155</b>			
	600	DIEMAKER 2601	<b>0 401 156</b>			
	900	DIEMAKER 2901	<b>0 401 157</b>			
13 x 1,6 x 150 mm	220	DIEMAKER 2200	<b>0 401 168</b>			
	320	DIEMAKER 2300	<b>0 401 169</b>			
	400	DIEMAKER 2400	<b>0 401 170</b>			
	600	DIEMAKER 2600	<b>0 401 171</b>			
13 x 3 x 150 mm	150	DIEMAKER 2103	<b>0 401 705</b>			
	220	DIEMAKER 2203	<b>0 401 173</b>			
	320	DIEMAKER 2303	<b>0 401 174</b>			
	400	DIEMAKER 2403	<b>0 401 175</b>			
	600	DIEMAKER 2603	<b>0 401 176</b>			
	900	DIEMAKER 2903	<b>0 401 177</b>			
13 x 6 x 150 mm	150	DIEMAKER 2104	<b>0 401 747</b>			
	220	DIEMAKER 2204	<b>0 401 178</b>			
	320	DIEMAKER 2304	<b>0 401 179</b>			
	400	DIEMAKER 2404	<b>0 401 180</b>			
	600	DIEMAKER 2604	<b>0 401 181</b>			
	900	DIEMAKER 2904	<b>0 401 182</b>			
25 x 12 x 150 mm	150	DIEMAKER 2107	<b>0 401 231</b>			
	220	DIEMAKER 2207	<b>0 401 232</b>			
	320	DIEMAKER 2307	<b>0 401 233</b>			
	400	DIEMAKER 2407	<b>0 401 234</b>			
	600	DIEMAKER 2607	<b>0 401 235</b>			

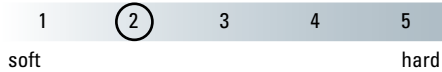
# Grinding and polishing stones

## Gesswein® MOLDMAKER

These stones produce a semi-gloss surface. As abrasive for these stones, silicon carbide or Premium silicon carbide is used. The soft bonding results in fast cutting action and largely prevents clogging. Since these 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
<b>Grinding and polishing stones Gesswein® MOLDMAKER</b>						
<b>square</b>						
4 x 4 x 100 mm	220	MOLDMAKER 1020P	<b>0 401 766</b>			
	320	MOLDMAKER 1030P	<b>0 401 767</b>			
	400	MOLDMAKER 1040P	<b>0 401 768</b>			
	600	MOLDMAKER 1060P	<b>0 401 769</b>			
	800	MOLDMAKER 1080P	<b>0 401 770</b>			
6 x 6 x 100 mm	220	MOLDMAKER 202	<b>0 401 089</b>			
	320	MOLDMAKER 302	<b>0 401 090</b>			
	400	MOLDMAKER 402	<b>0 401 091</b>			
	600	MOLDMAKER 602	<b>0 401 092</b>			
	6 x 6 x 150 mm	220	MOLDMAKER 1202	<b>0 401 109</b>		
320		MOLDMAKER 1302	<b>0 401 110</b>			
400		MOLDMAKER 1402	<b>0 401 111</b>			
600		MOLDMAKER 1602	<b>0 401 112</b>			
800		MOLDMAKER 1802P	<b>0 401 774</b>			
13 x 13 x 150 mm	220	MOLDMAKER 1205	<b>0 401 101-1</b>			
	320	MOLDMAKER 1305	<b>0 401 102-1</b>			
	400	MOLDMAKER 1405	<b>0 401 103-1</b>			
	600	MOLDMAKER 1605	<b>0 401 104-1</b>			
<b>rectangular</b>						
6 x 3 x 100 mm	220	MOLDMAKER 201	<b>0 401 085</b>			
	320	MOLDMAKER 301	<b>0 401 086</b>			
	400	MOLDMAKER 401	<b>0 401 087</b>			
	600	MOLDMAKER 601	<b>0 401 088</b>			
6 x 3 x 150 mm	220	MOLDMAKER 1201	<b>0 401 105</b>			
	320	MOLDMAKER 1301	<b>0 401 106</b>			
	400	MOLDMAKER 1401	<b>0 401 107</b>			
	600	MOLDMAKER 1601	<b>0 401 108</b>			
	800	MOLDMAKER 1801P	<b>0 401 772</b>			
13 x 3 x 150 mm	220	MOLDMAKER 1203	<b>0 401 113</b>			
	320	MOLDMAKER 1303	<b>0 401 114</b>			
	400	MOLDMAKER 1403	<b>0 401 115</b>			
	600	MOLDMAKER 1603	<b>0 401 116</b>			
	800	MOLDMAKER 1803P	<b>0 401 776</b>			
13 x 6 x 100 mm	220	MOLDMAKER 204	<b>0 401 097</b>			
	320	MOLDMAKER 304	<b>0 401 098</b>			
	400	MOLDMAKER 404	<b>0 401 099</b>			
	600	MOLDMAKER 604	<b>0 401 100</b>			
13 x 6 x 150 mm	150	MOLDMAKER 1154P	<b>0 401 123</b>			
	220	MOLDMAKER 1204	<b>0 401 117</b>			
	320	MOLDMAKER 1304	<b>0 401 118</b>			
	400	MOLDMAKER 1404	<b>0 401 119</b>			
	600	MOLDMAKER 1604	<b>0 401 120</b>			
	100	MOLDMAKER 1104P	<b>0 401 125</b>			
	800	MOLDMAKER 1804P	<b>0 401 778</b>			
	1200	MOLDMAKER 2004P	<b>0 401 779</b>			

## 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:

- DIEMAKER
- EDM
- GP
- MOLDMAKER
- OT

0 401 140

## 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
<b>Grinding and polishing stones Gesswein® ULTRASOFT</b>						
<b>square</b>						
6 x 6 x 150 mm	120	ULTRASOFT 7102	0 401 724			
	320	ULTRASOFT 7302	0 401 725			
	600	ULTRASOFT 7602	0 401 726			
	1200	ULTRASOFT 7002	0 401 727			
<b>rectangular</b>						
13 x 3 x 150 mm	120	ULTRASOFT 7103	0 401 728			
	320	ULTRASOFT 7303	0 401 729			
	600	ULTRASOFT 7603	0 401 730			
	1200	ULTRASOFT 7003	0 401 731			
13 x 6 x 150 mm	120	ULTRASOFT 7104	0 401 732			
	320	ULTRASOFT 7304	0 401 733			
	600	ULTRASOFT 7604	0 401 734			
	1200	ULTRASOFT 7004	0 401 735			
25 x 13 x 150 mm	120	ULTRASOFT 7107	0 401 736			
	320	ULTRASOFT 7307	0 401 737			

# Grinding and polishing stones

## Gesswein® PREMIUM WHITE

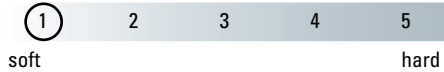
The medium-hard PREMIUM WHITE stones are ideally suited for all work on tool steels and have good dimensional stability. The stones are also suitable for use in ultrasonic polishing systems.



Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
<b>Grinding and polishing stones Gesswein® PREMIUM WHITE</b>						
<b>square</b>						
6 x 6 x 150 mm	600	PREMIUM WHITE 802	12 pieces	<b>0 401 131-1</b>		
<b>rectangular</b>						
6 x 3 x 150 mm	600	PREMIUM WHITE 801	12 pieces	<b>0 401 130-1</b>		
13 x 3 x 150 mm	600	PREMIUM WHITE 803	12 pieces	<b>0 401 132-1</b>		
13 x 6 x 150 mm	600	PREMIUM WHITE 804	12 pieces	<b>0 401 133-1</b>		



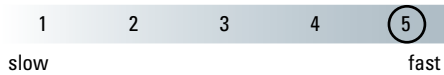
### Bonding



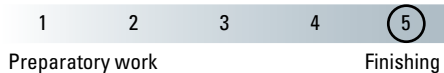
### Stock removal



### Wear



### Application

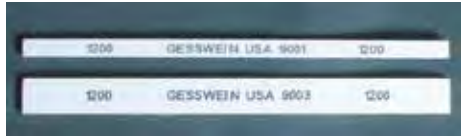




## Grinding and polishing stones

### Gesswein® SUPER FINE

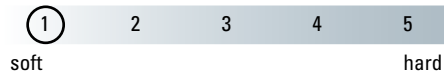
These stones are recommended for an extra-fine surface finish on the workpiece. They are made of levigated alumina in grit size finer than 1200. These stones are guaranteed not to scratch and are eminently suitable for polishing with a diamond compound.



Dimensions	Grit size	Type	Order No.	Price from		
				1 piece	12 pieces	60 pieces
<b>Grinding and polishing stones Gesswein® SUPER FINE</b>						
<b>square</b>						
4 x 4 x 100 mm	1200	SUPER FINE 12	<b>0 401 210</b>			
6 x 6 x 150 mm	1200	SUPER FINE 9002	<b>0 401 212</b>			
<b>rectangular</b>						
6 x 3 x 150 mm	1200	SUPER FINE 9001	<b>0 401 211</b>			
13 x 3 x 150 mm	1200	SUPER FINE 9003	<b>0 401 213</b>			
13 x 6 x 150 mm	1200	SUPER FINE 9004	<b>0 401 214</b>			



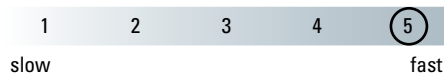
#### Bonding



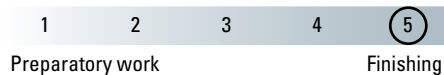
#### Stock removal



#### Wear



#### Application



# Grinding and polishing stones

## Gesswein® GP – General Purpose

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



### Stock removal



### Wear



### Application

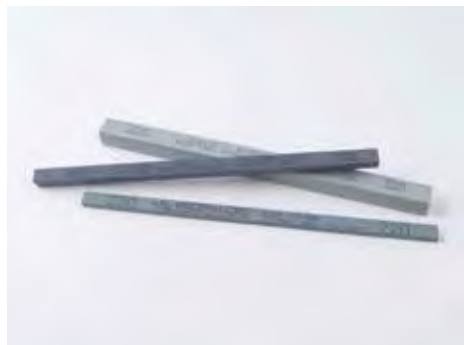


Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
<b>Grinding and polishing stones Gesswein® GP – General Purpose</b>						
<b>square</b>						
4 x 4 x 100 mm	320	GP	12 pieces	<b>0 405 100</b>		
	150	GP	12 pieces	<b>0 405 101</b>		
6 x 6 x 150 mm	150	GP	12 pieces	<b>0 405 118</b>		
	180	GP	12 pieces	<b>0 405 119</b>		
	220	GP	12 pieces	<b>0 405 120</b>		
	320	GP	12 pieces	<b>0 405 121</b>		
	400	GP	12 pieces	<b>0 405 122</b>		
	600	GP	12 pieces	<b>0 405 123</b>		
	800	GP	12 pieces	<b>0 405 124</b>		
	1200	GP	12 pieces	<b>0 405 125</b>		
<b>rectangular</b>						
6 x 3 x 150 mm	150	GP	12 pieces	<b>0 405 110</b>		
	180	GP	12 pieces	<b>0 405 111</b>		
	220	GP	12 pieces	<b>0 405 112</b>		
	320	GP	12 pieces	<b>0 405 113</b>		
	400	GP	12 pieces	<b>0 405 114</b>		
	600	GP	12 pieces	<b>0 405 115</b>		
	800	GP	12 pieces	<b>0 405 116</b>		
13 x 3 x 150 mm	1200	GP	12 pieces	<b>0 405 117</b>		
	150	GP	12 pieces	<b>0 405 126</b>		
	180	GP	12 pieces	<b>0 405 127</b>		
	220	GP	12 pieces	<b>0 405 128</b>		
	320	GP	12 pieces	<b>0 405 129</b>		
	400	GP	12 pieces	<b>0 405 130</b>		
	600	GP	12 pieces	<b>0 405 131</b>		
13 x 6 x 150 mm	800	GP	12 pieces	<b>0 405 132</b>		
	1200	GP	12 pieces	<b>0 405 133</b>		
	150	GP	12 pieces	<b>0 405 134</b>		
	180	GP	12 pieces	<b>0 405 135</b>		
	220	GP	12 pieces	<b>0 405 136</b>		
	320	GP	12 pieces	<b>0 405 137</b>		
	400	GP	12 pieces	<b>0 405 138</b>		
600	GP	12 pieces	<b>0 405 139</b>			
800	GP	12 pieces	<b>0 405 140</b>			
1200	GP	12 pieces	<b>0 405 141</b>			

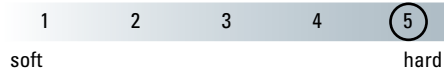
## Grinding and polishing stones

### Boride<sup>®</sup> 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.



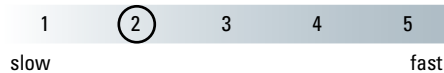
#### Bonding



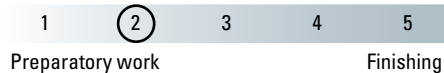
#### Stock removal



#### Wear



#### Application



Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
<b>Grinding and polishing stones Boride<sup>®</sup> CS-HD</b>						
<b>rectangular</b>						
6 x 3 x 150 mm	120	CS-HD	12 pieces	<b>0 410 861</b>		
	150	CS-HD	12 pieces	<b>0 410 862</b>		
	220	CS-HD	12 pieces	<b>0 410 864</b>		
	320	CS-HD	12 pieces	<b>0 410 866</b>		
	400	CS-HD	12 pieces	<b>0 410 867</b>		
	600	CS-HD	12 pieces	<b>0 410 868</b>		
13 x 6 x 150 mm	120	CS-HD	12 pieces	<b>0 410 901</b>		
	150	CS-HD	12 pieces	<b>0 410 903</b>		
	220	CS-HD	12 pieces	<b>0 410 904</b>		
	320	CS-HD	12 pieces	<b>0 410 906</b>		
	400	CS-HD	12 pieces	<b>0 410 907</b>		
	600	CS-HD	12 pieces	<b>0 410 908</b>		

# Grinding and polishing stones

## Boride® T2

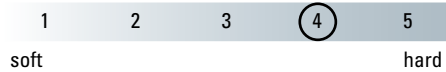
These stones are perfect for high-alloyed tools and high-grade steels. Thanks to their own impregnation, these stones work very efficiently and produce a semi matt surface on the workpiece. Can be used manually or in a handfiling machine, with a fluid.



Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
<b>Grinding and polishing stones Boride® T2</b>						
<b>rectangular</b>						
6 x 3 x 150 mm	150	T2	12 pieces	<b>0 409 952</b>		
	220	T2	12 pieces	<b>0 409 954</b>		
	320	T2	12 pieces	<b>0 409 956</b>		
	400	T2	12 pieces	<b>0 409 957</b>		
	600	T2	12 pieces	<b>0 409 958</b>		
13 x 6 x 150 mm	150	T2	12 pieces	<b>0 409 932</b>		
	220	T2	12 pieces	<b>0 409 934</b>		
	320	T2	12 pieces	<b>0 409 936</b>		
	400	T2	12 pieces	<b>0 409 937</b>		
	600	T2	12 pieces	<b>0 409 938</b>		



### 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
<b>Grinding and polishing stones Boride® Orange EDM</b>						
<b>square</b>						
6 x 6 x 150 mm	120	Orange EDM	12 pieces	<b>0 409 372</b>		
	180	Orange EDM	12 pieces	<b>0 409 373</b>		
	220	Orange EDM	12 pieces	<b>0 409 374</b>		
	320	Orange EDM	12 pieces	<b>0 409 376</b>		
	400	Orange EDM	12 pieces	<b>0 409 377</b>		
	600	Orange EDM	12 pieces	<b>0 409 378</b>		
<b>rectangular</b>						
6 x 3 x 150 mm	120	Orange EDM	12 pieces	<b>0 409 332</b>		
	180	Orange EDM	12 pieces	<b>0 409 333</b>		
	220	Orange EDM	12 pieces	<b>0 409 334</b>		
	320	Orange EDM	12 pieces	<b>0 409 336</b>		
	400	Orange EDM	12 pieces	<b>0 409 337</b>		
	600	Orange EDM	12 pieces	<b>0 409 338</b>		
13 x 3 x 150 mm	120	Orange EDM	12 pieces	<b>0 409 342</b>		
	180	Orange EDM	12 pieces	<b>0 409 343</b>		
	220	Orange EDM	12 pieces	<b>0 409 344</b>		
	320	Orange EDM	12 pieces	<b>0 409 346</b>		
	400	Orange EDM	12 pieces	<b>0 409 347</b>		
	600	Orange EDM	12 pieces	<b>0 409 348</b>		
13 x 6 x 150 mm	120	Orange EDM	12 pieces	<b>0 409 382</b>		
	180	Orange EDM	12 pieces	<b>0 409 383</b>		
	220	Orange EDM	12 pieces	<b>0 409 384</b>		
	320	Orange EDM	12 pieces	<b>0 409 386</b>		
	400	Orange EDM	12 pieces	<b>0 409 387</b>		
	600	Orange EDM	12 pieces	<b>0 409 388</b>		

# 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
<b>Grinding and polishing stones Boride® A0</b>						
<b>round</b>						
Ø 10 x 140 mm	150	A0	12 pieces	<b>0 410 692</b>		
	220	A0	12 pieces	<b>0 410 694</b>		
	320	A0	12 pieces	<b>0 410 696</b>		
	400	A0	12 pieces	<b>0 410 697</b>		
<b>rectangular</b>						
6 x 3 x 150 mm	120	A0	12 pieces	<b>0 410 531</b>		
	150	A0	12 pieces	<b>0 410 532</b>		
	220	A0	12 pieces	<b>0 410 534</b>		
	320	A0	12 pieces	<b>0 410 536</b>		
	400	A0	12 pieces	<b>0 410 537</b>		
	600	A0	12 pieces	<b>0 410 538</b>		
13 x 3 x 150 mm	120	A0	12 pieces	<b>0 410 541</b>		
	150	A0	12 pieces	<b>0 410 542</b>		
	220	A0	12 pieces	<b>0 410 544</b>		
	320	A0	12 pieces	<b>0 410 546</b>		
	400	A0	12 pieces	<b>0 410 547</b>		
	600	A0	12 pieces	<b>0 410 548</b>		
13 x 6 x 150 mm	120	A0	12 pieces	<b>0 410 581</b>		
	150	A0	12 pieces	<b>0 410 582</b>		
	220	A0	12 pieces	<b>0 410 584</b>		
	320	A0	12 pieces	<b>0 410 586</b>		
	400	A0	12 pieces	<b>0 410 587</b>		
	600	A0	12 pieces	<b>0 410 588</b>		
25 x 13 x 150 mm	120	A0	12 pieces	<b>0 410 621</b>		
	150	A0	12 pieces	<b>0 410 622</b>		
	220	A0	12 pieces	<b>0 410 624</b>		
	320	A0	12 pieces	<b>0 410 626</b>		
	400	A0	12 pieces	<b>0 410 627</b>		
	600	A0	12 pieces	<b>0 410 628</b>		

## 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
<b>Grinding and polishing stones Boride® Golden Star</b>						
<b>rectangular</b>						
6 x 3 x 150 mm	150	Golden Star	12 pieces	<b>0 407 811</b>		
	180	Golden Star	12 pieces	<b>0 407 812</b>		
	220	Golden Star	12 pieces	<b>0 407 813</b>		
	320	Golden Star	12 pieces	<b>0 407 814</b>		
	400	Golden Star	12 pieces	<b>0 407 815</b>		
	600	Golden Star	12 pieces	<b>0 407 816</b>		
	800	Golden Star	12 pieces	<b>0 407 817</b>		
13 x 3 x 150 mm	1000	Golden Star	12 pieces	<b>0 407 818</b>		
	150	Golden Star	12 pieces	<b>0 407 821</b>		
	180	Golden Star	12 pieces	<b>0 407 822</b>		
	220	Golden Star	12 pieces	<b>0 407 823</b>		
	320	Golden Star	12 pieces	<b>0 407 824</b>		
	400	Golden Star	12 pieces	<b>0 407 825</b>		
	600	Golden Star	12 pieces	<b>0 407 826</b>		
13 x 6 x 150 mm	800	Golden Star	12 pieces	<b>0 407 827</b>		
	1000	Golden Star	12 pieces	<b>0 407 828</b>		
	150	Golden Star	12 pieces	<b>0 407 851</b>		
	180	Golden Star	12 pieces	<b>0 407 852</b>		
	220	Golden Star	12 pieces	<b>0 407 853</b>		
	320	Golden Star	12 pieces	<b>0 407 854</b>		
	400	Golden Star	12 pieces	<b>0 407 855</b>		
600	Golden Star	12 pieces	<b>0 407 856</b>			
800	Golden Star	12 pieces	<b>0 407 857</b>			
1000	Golden Star	12 pieces	<b>0 407 858</b>			

# Grinding and polishing stones

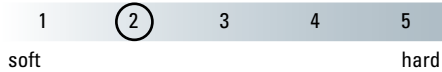
## Boride® AM-2

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



### Stock removal



### Wear



### Application



Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
<b>Grinding and polishing stones Boride® AM-2</b>						
<b>square</b>						
6 x 6 x 150 mm	100	AM-2	12 pieces	<b>0 410 270</b>		
	150	AM-2	12 pieces	<b>0 410 272</b>		
	180	AM-2	12 pieces	<b>0 410 273</b>		
	220	AM-2	12 pieces	<b>0 410 274</b>		
	280	AM-2	12 pieces	<b>0 410 275</b>		
	320	AM-2	12 pieces	<b>0 410 276</b>		
	400	AM-2	12 pieces	<b>0 410 277</b>		
	600	AM-2	12 pieces	<b>0 410 278</b>		
	900	AM-2	12 pieces	<b>0 410 279</b>		
<b>rectangular</b>						
6 x 3 x 150 mm	100	AM-2	12 pieces	<b>0 410 230</b>		
	150	AM-2	12 pieces	<b>0 410 232</b>		
	180	AM-2	12 pieces	<b>0 410 233</b>		
	220	AM-2	12 pieces	<b>0 410 234</b>		
	280	AM-2	12 pieces	<b>0 410 235</b>		
	320	AM-2	12 pieces	<b>0 410 236</b>		
	400	AM-2	12 pieces	<b>0 410 237</b>		
	600	AM-2	12 pieces	<b>0 410 238</b>		
	900	AM-2	12 pieces	<b>0 410 239</b>		
13 x 3 x 150 mm	100	AM-2	12 pieces	<b>0 410 240</b>		
	150	AM-2	12 pieces	<b>0 410 242</b>		
	180	AM-2	12 pieces	<b>0 410 243</b>		
	220	AM-2	12 pieces	<b>0 410 244</b>		
	280	AM-2	12 pieces	<b>0 410 245</b>		
	320	AM-2	12 pieces	<b>0 410 246</b>		
	400	AM-2	12 pieces	<b>0 410 247</b>		
	600	AM-2	12 pieces	<b>0 410 248</b>		
	900	AM-2	12 pieces	<b>0 410 249</b>		
13 x 6 x 150 mm	100	AM-2	12 pieces	<b>0 410 280</b>		
	150	AM-2	12 pieces	<b>0 410 282</b>		
	180	AM-2	12 pieces	<b>0 410 283</b>		
	220	AM-2	12 pieces	<b>0 410 284</b>		
	280	AM-2	12 pieces	<b>0 410 285</b>		
	320	AM-2	12 pieces	<b>0 410 286</b>		
	400	AM-2	12 pieces	<b>0 410 287</b>		
	600	AM-2	12 pieces	<b>0 410 288</b>		
	900	AM-2	12 pieces	<b>0 410 289</b>		
25 x 13 x 150 mm	100	AM-2	12 pieces	<b>0 410 320</b>		
	150	AM-2	12 pieces	<b>0 410 322</b>		
	180	AM-2	12 pieces	<b>0 410 323</b>		
	220	AM-2	12 pieces	<b>0 410 324</b>		
	280	AM-2	12 pieces	<b>0 410 325</b>		
	400	AM-2	12 pieces	<b>0 410 327</b>		



## 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.



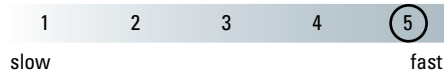
Dimensions	Grit size	Type	Packing quantity	Order No.	Price from	
					1 piece	60 pieces
<b>Grinding and polishing stones Boride® RO-MED</b>						
<b>rectangular</b>						
25 x 13 x 200 mm	80	RO-MED	12 pieces	<b>0 410 970</b>		
	100	RO-MED	12 pieces	<b>0 410 971</b>		
	150	RO-MED	12 pieces	<b>0 410 972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



#### Bonding



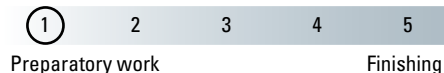
#### Stock removal



#### Wear




#### Application



## Fluid for grinding and polishing stones

### Boride® Bori Lube 10

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

# 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	
<b>Grinding and polishing stones Boride® RASP</b>							
<b>square</b>							
6 x 6 x 150 mm	150	RASP	12 pieces	<b>0 407 892</b>			
	220	RASP	12 pieces	<b>0 407 893</b>			
	320	RASP	12 pieces	<b>0 407 894</b>			
	400	RASP	12 pieces	<b>0 407 895</b>			
	600	RASP	12 pieces	<b>0 407 896</b>			
	900	RASP	12 pieces	<b>0 407 897</b>			
13 x 13 x 150 mm	1200	RASP	12 pieces	<b>0 407 898</b>			
	150	RASP	12 pieces	<b>0 407 926</b>			
	220	RASP	12 pieces	<b>0 407 927</b>			
	320	RASP	12 pieces	<b>0 407 928</b>			
	400	RASP	12 pieces	<b>0 407 929</b>			
	600	RASP	12 pieces	<b>0 407 930</b>			
13 x 3 x 150 mm	900	RASP	12 pieces	<b>0 407 931</b>			
	1200	RASP	12 pieces	<b>0 407 932</b>			
	<b>rectangular</b>						
	6 x 3 x 150 mm	150	RASP	12 pieces	<b>0 407 869</b>		
		220	RASP	12 pieces	<b>0 407 879</b>		
		320	RASP	12 pieces	<b>0 407 880</b>		
400		RASP	12 pieces	<b>0 407 881</b>			
600		RASP	12 pieces	<b>0 407 882</b>			
900		RASP	12 pieces	<b>0 407 883</b>			
13 x 3 x 150 mm	1200	RASP	12 pieces	<b>0 407 884</b>			
	150	RASP	12 pieces	<b>0 407 885</b>			
	220	RASP	12 pieces	<b>0 407 886</b>			
	320	RASP	12 pieces	<b>0 407 887</b>			
	400	RASP	12 pieces	<b>0 407 888</b>			
	600	RASP	12 pieces	<b>0 407 889</b>			
13 x 6 x 150 mm	900	RASP	12 pieces	<b>0 407 890</b>			
	1200	RASP	12 pieces	<b>0 407 891</b>			
	150	RASP	12 pieces	<b>0 407 899</b>			
	220	RASP	12 pieces	<b>0 407 920</b>			
	320	RASP	12 pieces	<b>0 407 921</b>			
	400	RASP	12 pieces	<b>0 407 922</b>			
13 x 6 x 150 mm	600	RASP	12 pieces	<b>0 407 923</b>			
	900	RASP	12 pieces	<b>0 407 924</b>			
	1200	RASP	12 pieces	<b>0 407 925</b>			

## 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
<b>Grinding and polishing stones Boride® CS-M</b>						
<b>rectangular</b>						
13 x 6 x 150 mm	120	CS-M	12 pieces	<b>0 410 761</b>		
	150	CS-M	12 pieces	<b>0 410 762</b>		
	220	CS-M	12 pieces	<b>0 410 764</b>		
	320	CS-M	12 pieces	<b>0 410 766</b>		
	400	CS-M	12 pieces	<b>0 410 767</b>		
	600	CS-M	12 pieces	<b>0 410 768</b>		

## 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
<b>Bench stones</b>				
<b>rectangular</b>				
	aluminium oxide	25 x 50 x 200 mm	# 120 / 320	<b>0 401 754</b>
	silicon carbide	25 x 50 x 150 mm	# 120 / 320	<b>0 401 758</b>

# 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
<b>Test set Boride® Golden Star</b> 	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 150, 220, 320, 400, 600	<b>0 407 800</b>
<b>Test set Boride® Gold</b> 	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 320, 400, 600, 800, 1000	<b>0 407 820</b>
<b>Test set Boride® Orange EDM</b> 	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 150, 220, 320, 400, 600	<b>0 409 300</b>
<b>Test set Boride® T2</b> 	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 150, 220, 320, 400, 600	<b>0 409 900</b>


## Grinding and polishing stones

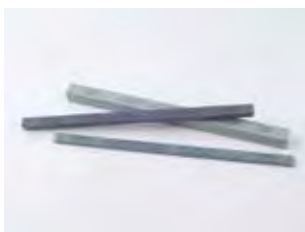
### Boride® Test sets

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
<b>Test set Boride® AM-2</b>		
	5 abrasive test stones (13 x 3 x 150 mm), grit sizes 150, 220, 320, 400, 600	<b>0 410 390</b>

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





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

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

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

	Shank dimensions	Packing quantity	Order No.	Price from		
				1 piece	1 set	1 pack
<b>Tool holder A</b>						
	with rapid clamping for grinding stones 4 x 4 mm		<b>0 401 215</b>			
<b>Tool holder B</b>						
	for receiving grinding stones 4 x 4, 6 x 6 or 6 x 3 mm		<b>0 401 216</b>			
<b>Tool holder, single</b>						
	for grinding stones 6 x 13 mm		<b>0 401 228</b>			
<b>Tool holder, double</b>						
	for receiving stones 1.6 x 13, 6 x 6 or 6 x 3 mm		<b>0 401 227</b>			
<b>Tool holder range</b> <span style="color: red; font-weight: bold;">NEW!</span>						
	for receiving grinding stones 4 x 4, 6 x 6 or 6 x 3 mm on both sides (3 pieces, blue, red, black)	3 pieces	<b>0 401 500</b>			
<b>Tool holder for lapping sticks</b>						
	head pivotable through 90°, for receiving tool up to 10 x 10 mm	∅ 3 x 35 mm	<b>0 411 291</b>			
	for receiving tool up to 8 mm high	∅ 3.5 x 30 mm	<b>0 411 292</b>			
	for receiving tool up to 8 mm high	∅ 6 x 30 mm	<b>0 411 201</b>			
<b>Holder for grinding files</b>						
	clamping height up to 11 mm	∅ 4 x 50 mm	<b>0 401 959</b>			
<b>Tool holder Premium, mini</b>						
	clamping range: height up to 8 mm, hardened finish, high-strength clamping plate	∅ 3 mm	<b>0 401 951</b>			
<b>Tool holder Premium, medium</b>						
	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.	∅ 3 mm	<b>0 401 972</b>			
<b>Tool holder with counter-clamping</b>						
	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.		<b>0 750 710</b>			




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

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



## 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
<b>Tool holder handle, without lock nut</b>			
		<b>0 401 981</b>	
<b>Tool holder lock nut</b>			
		<b>0 401 982</b>	
<b>Tool holder insert</b>			
	3 x 6 mm	<b>0 401 984</b>	
	3 x 13 mm	<b>0 401 983</b>	
	4 x 4 mm	<b>0 401 985</b>	
	6 x 6 mm	<b>0 401 986</b>	
	6 x 13 mm	<b>0 401 987</b>	
	10 x 10 mm	<b>0 401 988</b>	
	Ø 6 mm	<b>0 401 989</b>	
	Ø 10 mm	<b>0 401 990</b>	

 *matching set*

	Order No.	Price from 1 set
<b>Tool holder set</b>		
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	<b>0 401 980</b>	





# Ceramic-fibre tools

The ceramic-fibre files from JOKI 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 JOKI 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 JOKI 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!

**253** Ceramic-fibre files  
JOKI ULTRA-HT

**254** Ceramic-fibre files  
JOKI HT-140

**256** Ceramic-fibre files  
NEW Super Stone

**263** Diamond ceramic-fibre files

**264** Ceramic-fibre files  
JOKI Mini

**264** Ceramic-fibre files  
JOKI Soft

**265** Set: Holder +  
ceramic-fibre files

**266** Holders for  
ceramic-fibre files

**267** Ceramic-fibre files on a shank

**268** Ceramic-fibre brushes

**269** Ceramic-fibre brushes  
Cross Hole


**270** 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
<b>Ceramic-fibre files joke Ultra-HT</b>							
<b>flat</b>							
 <p><b>i</b> You'll find suitable holders for these files on page 260!</p>	1 x 4 x 100 mm	# 120 / 110 µm	violet	<b>0 424 601</b>			
		# 220 / 50 µm	dark brown	<b>0 424 611</b>			
		# 400 / 30 µm	orange	<b>0 424 641</b>			
		# 800 / 20 µm	blue	<b>0 424 621</b>			
		# 1200 / 10 µm	red	<b>0 424 631</b>			
	1 x 6 x 100 mm	# 120 / 110 µm	violet	<b>0 424 602</b>			
		# 220 / 50 µm	dark brown	<b>0 424 612</b>			
		# 400 / 30 µm	orange	<b>0 424 642</b>			
		# 800 / 20 µm	blue	<b>0 424 622</b>			
		# 1200 / 10 µm	red	<b>0 424 632</b>			
	1 x 10 x 100 mm	# 120 / 110 µm	violet	<b>0 424 603</b>			
		# 220 / 50 µm	dark brown	<b>0 424 613</b>			
		# 400 / 30 µm	orange	<b>0 424 643</b>			
		# 800 / 20 µm	blue	<b>0 424 623</b>			
		# 1200 / 10 µm	red	<b>0 424 633</b>			
2 x 4 x 100 mm	# 120 / 110 µm	violet	<b>0 424 604</b>				
	# 220 / 50 µm	dark brown	<b>0 424 614</b>				
	# 400 / 30 µm	orange	<b>0 424 644</b>				
	# 800 / 20 µm	blue	<b>0 424 624</b>				
	# 1200 / 10 µm	red	<b>0 424 634</b>				
2 x 6 x 100 mm	# 120 / 110 µm	violet	<b>0 424 605</b>				
	# 220 / 50 µm	dark brown	<b>0 424 615</b>				
	# 400 / 30 µm	orange	<b>0 424 645</b>				
	# 800 / 20 µm	blue	<b>0 424 625</b>				
	# 1200 / 10 µm	red	<b>0 424 635</b>				
2 x 10 x 100 mm	# 120 / 110 µm	violet	<b>0 424 606</b>				
	# 220 / 50 µm	dark brown	<b>0 424 616</b>				
	# 400 / 30 µm	orange	<b>0 424 646</b>				
	# 800 / 20 µm	blue	<b>0 424 626</b>				
	# 1200 / 10 µm	red	<b>0 424 636</b>				

## 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	<b>0 406 160-2</b>			
	0.5 x 4 x 150 mm	# 300 / 40 µm	light brown	<b>0 406 110-2</b>			
	0.5 x 4 x 150 mm	# 400 / 30 µm	orange	<b>0 406 120-2</b>			
	0.5 x 4 x 150 mm	# 600 / 25 µm	black	<b>0 406 170-2</b>			
	0.5 x 4 x 150 mm	# 800 / 20 µm	blue	<b>0 406 180-2</b>			
	0.5 x 4 x 150 mm	# 1000 / 15 µm	white	<b>0 406 140-2</b>			
	0.5 x 4 x 150 mm	# 1200 / 10 µm	red	<b>0 406 100-2</b>			
	1 x 1 x 100 mm	# 1500	yellow	<b>0 406 371</b>			
	1 x 1 x 100 mm	# 2000	cream	<b>0 406 381</b>			
	1 x 1 x 100 mm	# 3000	pink	<b>0 406 391</b>			
	1 x 2 x 100 mm	# 1500	yellow	<b>0 406 372</b>			
	1 x 2 x 100 mm	# 2000	cream	<b>0 406 382</b>			
	1 x 2 x 100 mm	# 3000	pink	<b>0 406 392</b>			
	1 x 4 x 100 mm	# 1500	yellow	<b>0 406 373</b>			
	1 x 4 x 150 mm	# 120 / 110 µm	violet	<b>0 406 211</b>			
	1 x 4 x 150 mm	# 220 / 50 µm	dark brown	<b>0 406 161-2</b>			
	1 x 4 x 150 mm	# 300 / 40 µm	light brown	<b>0 406 111-2</b>			
	1 x 4 x 150 mm	# 400 / 30 µm	orange	<b>0 406 121-2</b>			
	1 x 4 x 150 mm	# 600 / 25 µm	black	<b>0 406 171-2</b>			
	1 x 4 x 150 mm	# 800 / 20 µm	blue	<b>0 406 181-2</b>			
	1 x 4 x 150 mm	# 1000 / 15 µm	white	<b>0 406 141-2</b>			
	1 x 4 x 150 mm	# 1200 / 10 µm	red	<b>0 406 101-2</b>			
	1 x 6 x 100 mm	# 1500	yellow	<b>0 406 374</b>			
	1 x 6 x 150 mm	# 120 / 110 µm	violet	<b>0 406 212</b>			
	1 x 6 x 150 mm	# 220 / 50 µm	dark brown	<b>0 406 162-2</b>			
	1 x 6 x 150 mm	# 300 / 40 µm	light brown	<b>0 406 112-2</b>			
	1 x 6 x 150 mm	# 400 / 30 µm	orange	<b>0 406 122-2</b>			
	1 x 6 x 150 mm	# 600 / 25 µm	black	<b>0 406 172-2</b>			
	1 x 6 x 150 mm	# 800 / 20 µm	blue	<b>0 406 182-2</b>			
	1 x 6 x 150 mm	# 1000 / 15 µm	white	<b>0 406 142-2</b>			
	1 x 6 x 150 mm	# 1200 / 10 µm	red	<b>0 406 102-2</b>			
	1 x 10 x 100 mm	# 1500	yellow	<b>0 406 375</b>			
	1 x 10 x 150 mm	# 120 / 110 µm	violet	<b>0 406 213</b>			
1 x 10 x 150 mm	# 220 / 50 µm	dark brown	<b>0 406 163-2</b>				
1 x 10 x 150 mm	# 300 / 40 µm	light brown	<b>0 406 113-2</b>				
1 x 10 x 150 mm	# 400 / 30 µm	orange	<b>0 406 123-2</b>				
1 x 10 x 150 mm	# 600 / 25 µm	black	<b>0 406 173-2</b>				
1 x 10 x 150 mm	# 800 / 20 µm	blue	<b>0 406 183-2</b>				
1 x 10 x 150 mm	# 1000 / 15 µm	white	<b>0 406 143-2</b>				

# Ceramic-fibre files joke HT-140

	Dimensions	Grit size	Colour	Order No.	Price from		
					1 piece	5 pieces	10 pieces
	1 x 10 x 150 mm	# 1200 / 10 µm	red	<b>0 406 103-2</b>			
	2 x 6 x 150 mm	# 120 / 110 µm	violet	<b>0 406 214</b>			
	2 x 6 x 150 mm	# 220 / 50 µm	dark brown	<b>0 406 164-2</b>			
	2 x 6 x 150 mm	# 300 / 40 µm	light brown	<b>0 406 114-2</b>			
	2 x 6 x 150 mm	# 400 / 30 µm	orange	<b>0 406 124-2</b>			
	2 x 6 x 150 mm	# 600 / 25 µm	black	<b>0 406 174-2</b>			
	2 x 6 x 150 mm	# 800 / 20 µm	blue	<b>0 406 184-2</b>			
	2 x 6 x 150 mm	# 1000 / 15 µm	white	<b>0 406 144-2</b>			
	2 x 6 x 150 mm	# 1200 / 10 µm	red	<b>0 406 104-2</b>			
	Ø 2.35 x 100 mm	# 220 / 50 µm	grey	<b>0 406 200-2</b>			
	Ø 2.35 x 100 mm	# 300 / 40 µm	light brown	<b>0 406 201-2</b>			
	Ø 2.35 x 100 mm	# 400 / 30 µm	orange	<b>0 406 202-2</b>			
	Ø 2.35 x 100 mm	# 600 / 25 µm	black	<b>0 406 203-2</b>			
	Ø 2.35 x 100 mm	# 800 / 20 µm	blue	<b>0 406 204-2</b>			
	Ø 2.35 x 100 mm	# 1200 / 10 µm	red	<b>0 406 206-2</b>			
	Ø 2.35 x 150 mm	# 300 / 40 µm	light brown	<b>0 406 342</b>			
	Ø 2.35 x 150 mm	# 400 / 30 µm	orange	<b>0 406 243</b>			
	Ø 2.35 x 150 mm	# 600 / 25 µm	dark brown	<b>0 406 244</b>			
	Ø 2.35 x 150 mm	# 800 / 20 µm	blue	<b>0 406 245</b>			
	Ø 2.35 x 150 mm	# 1000 / 15 µm	white	<b>0 406 246</b>			
	Ø 2.35 x 150 mm	# 1200 / 10 µm	red	<b>0 406 247</b>			
	Ø 3 x 100 mm	# 220 / 50 µm	grey	<b>0 406 190-2</b>			
	Ø 3 x 100 mm	# 300 / 40 µm	light brown	<b>0 406 191-2</b>			
	Ø 3 x 100 mm	# 400 / 30 µm	orange	<b>0 406 192-2</b>			
	Ø 3 x 100 mm	# 600 / 25 µm	black	<b>0 406 193-2</b>			
	Ø 3 x 100 mm	# 800 / 20 µm	blue	<b>0 406 194-2</b>			
	Ø 3 x 100 mm	# 1000 / 15 µm	white	<b>0 406 195-2</b>			
	Ø 3 x 100 mm	# 1200 / 10 µm	red	<b>0 406 196-2</b>			
	Ø 3 x 150 mm	# 220 / 50 µm	grey	<b>0 406 251</b>			
	Ø 3 x 150 mm	# 300 / 40 µm	light brown	<b>0 406 352</b>			
	Ø 3 x 150 mm	# 400 / 30 µm	orange	<b>0 406 253</b>			
	Ø 3 x 150 mm	# 600 / 25 µm	black	<b>0 406 254</b>			
	Ø 3 x 150 mm	# 800 / 20 µm	blue	<b>0 406 255</b>			
Ø 3 x 150 mm	# 1000 / 15 µm	white	<b>0 406 256</b>				
Ø 3 x 150 mm	# 1200 / 10 µm	red	<b>0 406 257</b>				



### 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 4 x 50 mm	# 120 / 110 µm	green	<b>0 424 571-1</b>			
		# 180 / 80 µm	gold	<b>0 424 572-1</b>			
		# 300 / 40 µm	light brown	<b>0 424 573-1</b>			
		# 400 / 30 µm	orange	<b>0 424 574-1</b>			
		# 600 / 25 µm	dark brown	<b>0 424 575-1</b>			
		# 800 / 20 µm	blue	<b>0 424 576-1</b>			
		# 1000 / 15 µm	white	<b>0 424 577-1</b>			
		# 1200 / 10 µm	red	<b>0 424 578-1</b>			
	0.5 x 1 x 100 mm	# 80 / 150 µm	violet	<b>0 426 810</b>			
		# 120 / 110 µm	green	<b>0 426 001</b>			
		# 180 / 80 µm	gold	<b>0 426 101</b>			
		# 300 / 40 µm	light brown	<b>0 426 201</b>			
		# 400 / 30 µm	orange	<b>0 426 301</b>			
		# 600 / 25 µm	dark brown	<b>0 426 401</b>			
		# 800 / 20 µm	blue	<b>0 426 501</b>			
		# 1000 / 15 µm	white	<b>0 426 601</b>			
	# 1200 / 10 µm	red	<b>0 426 701</b>				
	0.5 x 1 x 150 mm	# 80 / 150 µm	violet	<b>0 426 839</b>			
	0.5 x 2 x 150 mm	# 80 / 150 µm	violet	<b>0 426 840</b>			
		# 120 / 110 µm	green	<b>0 426 031</b>			
		# 180 / 80 µm	gold	<b>0 426 131</b>			
		# 300 / 40 µm	light brown	<b>0 426 231</b>			
		# 400 / 30 µm	orange	<b>0 426 331</b>			
		# 600 / 25 µm	dark brown	<b>0 426 431</b>			
		# 800 / 20 µm	blue	<b>0 426 531</b>			
		# 1000 / 15 µm	white	<b>0 426 631</b>			
	# 1200 / 10 µm	red	<b>0 426 731</b>				
	0.5 x 4 x 150 mm	# 80 / 150 µm	violet	<b>0 426 841</b>			
		# 120 / 110 µm	green	<b>0 426 032</b>			
		# 180 / 80 µm	gold	<b>0 426 132</b>			
		# 300 / 40 µm	light brown	<b>0 426 232</b>			
		# 400 / 30 µm	orange	<b>0 426 332</b>			
		# 600 / 25 µm	dark brown	<b>0 426 432</b>			
		# 800 / 20 µm	blue	<b>0 426 532</b>			
		# 1000 / 15 µm	white	<b>0 426 632</b>			
	# 1200 / 10 µm	red	<b>0 426 732</b>				


## Ceramic-fibre files NEW Super Stone

Dimensions	Grit size	Colour	Order No.	Price from		
				1 piece	5 pieces	10 pieces
 0.5 x 6 x 150 mm	# 80 / 150 µm	violet	<b>0 426 842</b>			
	# 120 / 110 µm	green	<b>0 426 033</b>			
	# 180 / 80 µm	gold	<b>0 426 133</b>			
	# 300 / 40 µm	light brown	<b>0 426 233</b>			
	# 400 / 30 µm	orange	<b>0 426 333</b>			
	# 600 / 25 µm	dark brown	<b>0 426 433</b>			
	# 800 / 20 µm	blue	<b>0 426 533</b>			
	# 1000 / 15 µm	white	<b>0 426 633</b>			
	# 1200 / 10 µm	red	<b>0 426 733</b>			
0.5 x 10 x 150 mm	# 80 / 150 µm	violet	<b>0 426 843</b>			
	# 120 / 110 µm	green	<b>0 426 034</b>			
	# 180 / 80 µm	gold	<b>0 426 134</b>			
	# 300 / 40 µm	light brown	<b>0 426 234</b>			
	# 400 / 30 µm	orange	<b>0 426 334</b>			
	# 600 / 25 µm	dark brown	<b>0 426 434</b>			
	# 800 / 20 µm	blue	<b>0 426 534</b>			
	# 1000 / 15 µm	white	<b>0 426 634</b>			
	# 1200 / 10 µm	red	<b>0 426 734</b>			
0.8 x 1 x 150 mm	# 80 / 150 µm	violet	<b>0 426 844</b>			
0.8 x 2 x 150 mm	# 80 / 150 µm	violet	<b>0 426 845</b>			
0.8 x 4 x 150 mm	# 80 / 150 µm	violet	<b>0 426 846</b>			
0.8 x 6 x 150 mm	# 80 / 150 µm	violet	<b>0 426 847</b>			
0.8 x 10 x 150 mm	# 80 / 150 µm	violet	<b>0 426 848</b>			
1 x 2 x 100 mm	# 120 / 110 µm	green	<b>0 426 012</b>			
	# 180 / 80 µm	gold	<b>0 426 112</b>			
	# 300 / 40 µm	light brown	<b>0 426 212</b>			
	# 400 / 30 µm	orange	<b>0 426 312</b>			
	# 600 / 25 µm	dark brown	<b>0 426 412</b>			
	# 800 / 20 µm	blue	<b>0 426 512</b>			
	# 1000 / 15 µm	white	<b>0 426 612</b>			
	# 1200 / 10 µm	red	<b>0 426 712</b>			
	1 x 2 x 150 mm	# 80 / 150 µm	violet	<b>0 426 850</b>		
# 120 / 110 µm		green	<b>0 426 041</b>			
# 180 / 80 µm		gold	<b>0 426 141</b>			
# 300 / 40 µm		light brown	<b>0 426 241</b>			
# 400 / 30 µm		orange	<b>0 426 341</b>			
# 600 / 25 µm		dark brown	<b>0 426 441</b>			
# 800 / 20 µm		blue	<b>0 426 541</b>			
# 1000 / 15 µm		white	<b>0 426 641</b>			
# 1200 / 10 µm		red	<b>0 426 741</b>			

## Ceramic-fibre files NEW Super Stone

Dimensions	Grit size	Colour	Order No.	Price from		
				1 piece	5 pieces	10 pieces
 1 x 4 x 100 mm	# 120 / 110 µm	green	<b>0 426 013</b>			
	# 180 / 80 µm	gold	<b>0 426 113</b>			
	# 300 / 40 µm	light brown	<b>0 426 213</b>			
	# 400 / 30 µm	orange	<b>0 426 313</b>			
	# 600 / 25 µm	dark brown	<b>0 426 413</b>			
	# 800 / 20 µm	blue	<b>0 426 513</b>			
	# 1000 / 15 µm	white	<b>0 426 613</b>			
	# 1200 / 10 µm	red	<b>0 426 713</b>			
1 x 4 x 150 mm	# 80 / 150 µm	violet	<b>0 426 851</b>			
	# 120 / 110 µm	green	<b>0 426 042</b>			
	# 180 / 80 µm	gold	<b>0 426 142</b>			
	# 300 / 40 µm	light brown	<b>0 426 242</b>			
	# 400 / 30 µm	orange	<b>0 426 342</b>			
	# 600 / 25 µm	dark brown	<b>0 426 442</b>			
	# 800 / 20 µm	blue	<b>0 426 542</b>			
	# 1000 / 15 µm	white	<b>0 426 642</b>			
1 x 6 x 100 mm	# 1200 / 10 µm	red	<b>0 426 742</b>			
	# 120 / 110 µm	green	<b>0 426 014</b>			
	# 180 / 80 µm	gold	<b>0 426 114</b>			
	# 300 / 40 µm	light brown	<b>0 426 214</b>			
	# 400 / 30 µm	orange	<b>0 426 314</b>			
	# 600 / 25 µm	dark brown	<b>0 426 414</b>			
	# 800 / 20 µm	blue	<b>0 426 514</b>			
	# 1000 / 15 µm	white	<b>0 426 614</b>			
1 x 6 x 150 mm	# 1200 / 10 µm	red	<b>0 426 714</b>			
	# 80 / 150 µm	violet	<b>0 426 852</b>			
	# 120 / 110 µm	green	<b>0 426 043</b>			
	# 180 / 80 µm	gold	<b>0 426 143</b>			
	# 300 / 40 µm	light brown	<b>0 426 243</b>			
	# 400 / 30 µm	orange	<b>0 426 343</b>			
	# 600 / 25 µm	dark brown	<b>0 426 443</b>			
	# 800 / 20 µm	blue	<b>0 426 543</b>			
1 x 10 x 100 mm	# 1000 / 15 µm	white	<b>0 426 643</b>			
	# 1200 / 10 µm	red	<b>0 426 743</b>			
	# 120 / 110 µm	green	<b>0 426 015</b>			
	# 180 / 80 µm	gold	<b>0 426 115</b>			
	# 300 / 40 µm	light brown	<b>0 426 215</b>			
	# 400 / 30 µm	orange	<b>0 426 315</b>			
	# 600 / 25 µm	dark brown	<b>0 426 415</b>			
	# 800 / 20 µm	blue	<b>0 426 515</b>			
1 x 10 x 150 mm	# 1000 / 15 µm	white	<b>0 426 615</b>			
	# 1200 / 10 µm	red	<b>0 426 715</b>			
	# 80 / 150 µm	violet	<b>0 426 853</b>			
	# 120 / 110 µm	green	<b>0 426 044</b>			
	# 180 / 80 µm	gold	<b>0 426 144</b>			
	# 300 / 40 µm	light brown	<b>0 426 244</b>			
	# 400 / 30 µm	orange	<b>0 426 344</b>			
	# 600 / 25 µm	dark brown	<b>0 426 444</b>			
1 x 10 x 150 mm	# 800 / 20 µm	blue	<b>0 426 544</b>			
	# 1000 / 15 µm	white	<b>0 426 644</b>			
	# 1200 / 10 µm	red	<b>0 426 744</b>			
	# 1200 / 10 µm	red	<b>0 426 744</b>			

## Ceramic-fibre files NEW Super Stone


Dimensions	Grit size	Colour	Order No.	Price from			
				1 piece	5 pieces	10 pieces	
 1.5 x 1 x 150 mm	# 80 / 150 µm	violet	<b>0 426 854</b>				
	1.5 x 2 x 100 mm	# 120 / 110 µm	green	<b>0 426 017</b>			
		# 180 / 80 µm	gold	<b>0 426 117</b>			
		# 300 / 40 µm	light brown	<b>0 426 217</b>			
		# 400 / 30 µm	orange	<b>0 426 317</b>			
		# 600 / 25 µm	dark brown	<b>0 426 417</b>			
		# 800 / 20 µm	blue	<b>0 426 517</b>			
		# 1000 / 15 µm	white	<b>0 426 617</b>			
		# 1200 / 10 µm	red	<b>0 426 717</b>			
1.5 x 2 x 150 mm	# 80 / 150 µm	violet	<b>0 426 855</b>				
	# 120 / 110 µm	green	<b>0 426 046</b>				
	# 180 / 80 µm	gold	<b>0 426 146</b>				
	# 300 / 40 µm	light brown	<b>0 426 246</b>				
	# 400 / 30 µm	orange	<b>0 426 346</b>				
	# 600 / 25 µm	dark brown	<b>0 426 446</b>				
	# 800 / 20 µm	blue	<b>0 426 546</b>				
	# 1000 / 15 µm	white	<b>0 426 646</b>				
	# 1200 / 10 µm	red	<b>0 426 746</b>				
1.5 x 4 x 150 mm	# 80 / 150 µm	violet	<b>0 426 856</b>				
	# 120 / 110 µm	green	<b>0 426 047</b>				
	# 180 / 80 µm	gold	<b>0 426 147</b>				
	# 300 / 40 µm	light brown	<b>0 426 247</b>				
	# 400 / 30 µm	orange	<b>0 426 347</b>				
	# 600 / 25 µm	dark brown	<b>0 426 447</b>				
	# 800 / 20 µm	blue	<b>0 426 547</b>				
	# 1000 / 15 µm	white	<b>0 426 647</b>				
	# 1200 / 10 µm	red	<b>0 426 747</b>				
1.5 x 6 x 100 mm	# 120 / 110 µm	green	<b>0 426 019</b>				
	# 180 / 80 µm	gold	<b>0 426 119</b>				
	# 300 / 40 µm	light brown	<b>0 426 219</b>				
	# 400 / 30 µm	orange	<b>0 426 319</b>				
	# 600 / 25 µm	dark brown	<b>0 426 419</b>				
	# 800 / 20 µm	blue	<b>0 426 519</b>				
	# 1000 / 15 µm	white	<b>0 426 619</b>				
	# 1200 / 10 µm	red	<b>0 426 719</b>				
	1.5 x 6 x 150 mm	# 80 / 150 µm	violet	<b>0 426 857</b>			
# 120 / 110 µm		green	<b>0 426 048</b>				
# 180 / 80 µm		gold	<b>0 426 148</b>				
# 300 / 40 µm		light brown	<b>0 426 248</b>				
# 400 / 30 µm		orange	<b>0 426 348</b>				
# 600 / 25 µm		dark brown	<b>0 426 448</b>				
# 800 / 20 µm		blue	<b>0 426 548</b>				
# 1000 / 15 µm		white	<b>0 426 648</b>				
# 1200 / 10 µm		red	<b>0 426 748</b>				




## Ceramic-fibre files NEW Super Stone

Dimensions	Grit size	Colour	Order No.	Price from		
				1 piece	5 pieces	10 pieces
 1.5 x 10 x 150 mm	# 80 / 150 µm	violet	<b>0 426 858</b>			
	# 120 / 110 µm	green	<b>0 426 049</b>			
	# 180 / 80 µm	gold	<b>0 426 149</b>			
	# 300 / 40 µm	light brown	<b>0 426 249</b>			
	# 400 / 30 µm	orange	<b>0 426 349</b>			
	# 600 / 25 µm	dark brown	<b>0 426 449</b>			
	# 800 / 20 µm	blue	<b>0 426 549</b>			
	# 1000 / 15 µm	white	<b>0 426 649</b>			
	# 1200 / 10 µm	red	<b>0 426 749</b>			
2 x 4 x 100 mm	# 120 / 110 µm	green	<b>0 426 022</b>			
	# 180 / 80 µm	gold	<b>0 426 122</b>			
	# 300 / 40 µm	light brown	<b>0 426 222</b>			
	# 400 / 30 µm	orange	<b>0 426 322</b>			
	# 600 / 25 µm	dark brown	<b>0 426 422</b>			
	# 800 / 20 µm	blue	<b>0 426 522</b>			
	# 1000 / 15 µm	white	<b>0 426 622</b>			
	# 1200 / 10 µm	red	<b>0 426 722</b>			
2 x 4 x 150 mm	# 80 / 150 µm	violet	<b>0 426 860</b>			
	# 120 / 110 µm	green	<b>0 426 051</b>			
	# 180 / 80 µm	gold	<b>0 426 151</b>			
	# 300 / 40 µm	light brown	<b>0 426 251</b>			
	# 400 / 30 µm	orange	<b>0 426 351</b>			
	# 600 / 25 µm	dark brown	<b>0 426 451</b>			
	# 800 / 20 µm	blue	<b>0 426 551</b>			
	# 1000 / 15 µm	white	<b>0 426 651</b>			
	# 1200 / 10 µm	red	<b>0 426 751</b>			
2 x 6 x 100 mm	# 120 / 110 µm	green	<b>0 426 023</b>			
	# 180 / 80 µm	gold	<b>0 426 123</b>			
	# 300 / 40 µm	light brown	<b>0 426 223</b>			
	# 400 / 30 µm	orange	<b>0 426 323</b>			
	# 600 / 25 µm	dark brown	<b>0 426 423</b>			
	# 800 / 20 µm	blue	<b>0 426 523</b>			
	# 1000 / 15 µm	white	<b>0 426 623</b>			
	# 1200 / 10 µm	red	<b>0 426 723</b>			
	2 x 6 x 150 mm	# 80 / 150 µm	violet	<b>0 426 861</b>		
# 120 / 110 µm		green	<b>0 426 052</b>			
# 180 / 80 µm		gold	<b>0 426 152</b>			
# 300 / 40 µm		light brown	<b>0 426 252</b>			
# 400 / 30 µm		orange	<b>0 426 352</b>			
# 600 / 25 µm		dark brown	<b>0 426 452</b>			
# 800 / 20 µm		blue	<b>0 426 552</b>			
# 1000 / 15 µm		white	<b>0 426 652</b>			
# 1200 / 10 µm	red	<b>0 426 752</b>				


## Ceramic-fibre files NEW Super Stone

Dimensions	Grit size	Colour	Order No.	Price from			
				1 piece	5 pieces	10 pieces	
 2 x 10 x 150 mm	# 80 / 150 µm	violet	<b>0 426 862</b>				
	# 120 / 110 µm	green	<b>0 426 053</b>				
	# 180 / 80 µm	gold	<b>0 426 153</b>				
	# 300 / 40 µm	light brown	<b>0 426 253</b>				
	# 400 / 30 µm	orange	<b>0 426 353</b>				
	# 600 / 25 µm	dark brown	<b>0 426 453</b>				
	# 800 / 20 µm	blue	<b>0 426 553</b>				
	# 1000 / 15 µm	white	<b>0 426 653</b>				
3 x 1 x 150 mm 3 x 2 x 150 mm 3 x 4 x 150 mm	# 1200 / 10 µm	red	<b>0 426 753</b>				
	# 80 / 150 µm	violet	<b>0 426 863</b>				
	# 80 / 150 µm	violet	<b>0 426 864</b>				
	# 80 / 150 µm	violet	<b>0 426 865</b>				
	# 120 / 110 µm	green	<b>0 426 056</b>				
	# 180 / 80 µm	gold	<b>0 426 156</b>				
	# 300 / 40 µm	light brown	<b>0 426 256</b>				
	# 400 / 30 µm	orange	<b>0 426 356</b>				
	# 600 / 25 µm	dark brown	<b>0 426 456</b>				
	# 800 / 20 µm	blue	<b>0 426 556</b>				
	# 1000 / 15 µm	white	<b>0 426 656</b>				
	# 1200 / 10 µm	red	<b>0 426 756</b>				
	3 x 6 x 100 mm	# 120 / 110 µm	green	<b>0 426 028</b>			
		# 180 / 80 µm	gold	<b>0 426 128</b>			
		# 300 / 40 µm	light brown	<b>0 426 228</b>			
		# 400 / 30 µm	orange	<b>0 426 328</b>			
# 600 / 25 µm		dark brown	<b>0 426 428</b>				
# 800 / 20 µm		blue	<b>0 426 528</b>				
# 1000 / 15 µm		white	<b>0 426 628</b>				
# 1200 / 10 µm		red	<b>0 426 728</b>				
3 x 6 x 150 mm	# 80 / 150 µm	violet	<b>0 426 866</b>				
	# 120 / 110 µm	green	<b>0 426 057</b>				
	# 180 / 80 µm	gold	<b>0 426 157</b>				
	# 300 / 40 µm	light brown	<b>0 426 257</b>				
	# 400 / 30 µm	orange	<b>0 426 357</b>				
	# 600 / 25 µm	dark brown	<b>0 426 457</b>				
	# 800 / 20 µm	blue	<b>0 426 557</b>				
	# 1000 / 15 µm	white	<b>0 426 657</b>				
3 x 10 x 150 mm	# 1200 / 10 µm	red	<b>0 426 757</b>				
	# 80 / 150 µm	violet	<b>0 426 867</b>				
	# 120 / 110 µm	green	<b>0 426 058</b>				
	# 180 / 80 µm	gold	<b>0 426 158</b>				
	# 300 / 40 µm	light brown	<b>0 426 258</b>				
	# 400 / 30 µm	orange	<b>0 426 358</b>				
	# 600 / 25 µm	dark brown	<b>0 426 458</b>				
	# 800 / 20 µm	blue	<b>0 426 558</b>				
# 1000 / 15 µm	white	<b>0 426 658</b>					
# 1200 / 10 µm	red	<b>0 426 758</b>					

## Ceramic-fibre files NEW Super Stone

Dimensions	Grit size	Colour	Order No.	Price from			
				1 piece	5 pieces	10 pieces	
 1 x 1 x 100 mm	# 120 / 110 µm	green	<b>0 426 011</b>				
	# 180 / 80 µm	gold	<b>0 426 111</b>				
	# 300 / 40 µm	light brown	<b>0 426 211</b>				
	# 400 / 30 µm	orange	<b>0 426 311</b>				
	# 600 / 25 µm	dark brown	<b>0 426 411</b>				
	# 800 / 20 µm	blue	<b>0 426 511</b>				
	# 1000 / 15 µm	white	<b>0 426 611</b>				
	# 1200 / 10 µm	red	<b>0 426 711</b>				
1 x 1 x 150 mm	# 80 / 150 µm	violet	<b>0 426 849</b>				
	# 120 / 110 µm	green	<b>0 426 040</b>				
	# 180 / 80 µm	gold	<b>0 426 140</b>				
	# 300 / 40 µm	light brown	<b>0 426 240</b>				
	# 400 / 30 µm	orange	<b>0 426 340</b>				
	# 600 / 25 µm	dark brown	<b>0 426 440</b>				
	# 800 / 20 µm	blue	<b>0 426 540</b>				
	# 1000 / 15 µm	white	<b>0 426 640</b>				
2 x 2 x 100 mm	# 1200 / 10 µm	red	<b>0 426 740</b>				
	# 120 / 110 µm	green	<b>0 426 021</b>				
	# 180 / 80 µm	gold	<b>0 426 121</b>				
	# 300 / 40 µm	light brown	<b>0 426 221</b>				
	# 400 / 30 µm	orange	<b>0 426 321</b>				
	# 600 / 25 µm	dark brown	<b>0 426 421</b>				
	# 800 / 20 µm	blue	<b>0 426 521</b>				
	# 1000 / 15 µm	white	<b>0 426 621</b>				
2 x 2 x 150 mm	# 1200 / 10 µm	red	<b>0 426 721</b>				
	# 80 / 150 µm	violet	<b>0 426 859</b>				
	# 120 / 110 µm	green	<b>0 426 050</b>				
	# 180 / 80 µm	gold	<b>0 426 150</b>				
	# 300 / 40 µm	light brown	<b>0 426 250</b>				
	# 400 / 30 µm	orange	<b>0 426 350</b>				
	# 600 / 25 µm	dark brown	<b>0 426 450</b>				
	# 800 / 20 µm	blue	<b>0 426 550</b>				
Ø 2.35 x 50 mm	# 1000 / 15 µm	white	<b>0 426 650</b>				
	# 1200 / 10 µm	red	<b>0 426 750</b>				
	# 120 / 110 µm	green	<b>0 428 001</b>				
	Ø 2.35 x 100 mm	# 180 / 80 µm	gold	<b>0 428 102</b>			
		# 300 / 40 µm	light brown	<b>0 428 202</b>			
		# 400 / 30 µm	orange	<b>0 428 302</b>			
		# 600 / 25 µm	dark brown	<b>0 428 402</b>			
		# 800 / 20 µm	blue	<b>0 428 502</b>			
# 1000 / 15 µm		white	<b>0 428 602</b>				
# 1200 / 10 µm		red	<b>0 428 702</b>				
Ø 2.35 x 150 mm		# 120 / 110 µm	green	<b>0 428 003</b>			
	# 180 / 80 µm	gold	<b>0 428 103</b>				
	# 300 / 40 µm	light brown	<b>0 428 203</b>				
	# 400 / 30 µm	orange	<b>0 428 303</b>				
	# 600 / 25 µm	dark brown	<b>0 428 403</b>				
	# 800 / 20 µm	blue	<b>0 428 503</b>				
	# 1000 / 15 µm	white	<b>0 428 603</b>				
	# 1200 / 10 µm	red	<b>0 428 703</b>				

## 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	<b>0 428 005</b>			
	# 180 / 80 µm	gold	<b>0 428 105</b>			
	# 300 / 40 µm	light brown	<b>0 428 205</b>			
	# 400 / 30 µm	orange	<b>0 428 305</b>			
	# 600 / 25 µm	dark brown	<b>0 428 405</b>			
	# 800 / 20 µm	blue	<b>0 428 505</b>			
	# 1000 / 15 µm	white	<b>0 428 605</b>			
	# 1200 / 10 µm	red	<b>0 428 705</b>			
Ø 3 x 150 mm	# 120 / 110 µm	green	<b>0 428 006</b>			
	# 180 / 80 µm	gold	<b>0 428 106</b>			
	# 300 / 40 µm	light brown	<b>0 428 206</b>			
	# 400 / 30 µm	orange	<b>0 428 306</b>			
	# 600 / 25 µm	dark brown	<b>0 428 406</b>			
	# 800 / 20 µm	blue	<b>0 428 506</b>			
	# 1000 / 15 µm	white	<b>0 428 606</b>			
	# 1200 / 10 µm	red	<b>0 428 706</b>			

### 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
<b>Diamond ceramic-fibre files</b>						
<b>flat</b>						
 1 x 4 x 100 mm	100	# 200 / 70 µm	black	<b>0 406 080</b>		
	100	# 400 / 30 µm	blue/green	<b>0 406 051</b>		
	100	# 800 / 20 µm	grey	<b>0 406 052</b>		
	100	# 1200 / 15 µm	moss green	<b>0 406 053</b>		
1 x 6 x 100 mm	100	# 200 / 70 µm	black	<b>0 406 081</b>		
	100	# 400 / 30 µm	blue/green	<b>0 406 054</b>		
	100	# 800 / 20 µm	grey	<b>0 406 055</b>		
	100	# 1200 / 15 µm	moss green	<b>0 406 056</b>		
1 x 10 x 100 mm	100	# 200 / 70 µm	black	<b>0 406 082</b>		
	100	# 400 / 30 µm	blue/green	<b>0 406 057</b>		
	100	# 800 / 20 µm	grey	<b>0 406 058</b>		
	100	# 1200 / 15 µm	moss green	<b>0 406 059</b>		
<b>round</b>						
 Ø 3 x 100 mm	100	# 200 / 70 µm	black	<b>0 406 089</b>		
	100	# 400 / 30 µm	grey	<b>0 406 090</b>		
	100	# 600 / 25 µm	moss green	<b>0 406 091</b>		



## 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
<b>Ceramic-fibre files joke Mini</b>								
<b>flat</b>								
	0.5 x 0.5 x 50 mm	# 800 / 20 µm	blue	3 pieces	<b>0 424 952</b>			
		# 1200 / 10 µm	red	3 pieces	<b>0 424 951</b>			
	0.9 x 0.9 x 50 mm	# 800 / 20 µm	blue	3 pieces	<b>0 424 962</b>			
		# 1200 / 10 µm	red	3 pieces	<b>0 424 961</b>			

### Accessories / spare parts

	Order No.	Price from
		1 piece
<b>holder for ceramic-fibre file Mini</b>		
	holder for ceramic-fibre file 0.5 x 0.5 mm	<b>0 424 950</b>
	holder for ceramic-fibre file 0.9 x 0.9 mm	<b>0 424 960</b>

## 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
<b>Ceramic-fibre files joke Soft</b>							
<b>flat</b>							
	2 x 6 x 100 mm	# 1200 / 10 µm	white	<b>0 424 981</b>			
<b>round</b>							
	Ø 3 x 100 mm	# 1200 / 10 µm	white	<b>0 424 982</b>			



## 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
<b>Set of holder + ceramic fibre files</b>		1 set
 <p>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</p>	<b>0 424 600</b>	

### ⚙️ Accessories / spare parts

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

## 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.

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

## 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
<b>Ceramic-fibre files on a shank, shank Ø 3 x 30 mm</b>								
<b>round</b>								
  <i>n<sub>max</sub> 50,000 1/min</i>	Ø 1 x 9 mm	# 180 / 80 µm	gold	Ø 3 x 30 mm	<b>0 425 100</b>			
		# 180 / 80 µm	gold	Ø 3 x 30 mm	<b>0 425 101</b>			
		# 180 / 80 µm	gold	Ø 3 x 30 mm	<b>0 425 102</b>			
		# 300 / 40 µm	light brown	Ø 3 x 30 mm	<b>0 425 105</b>			
		# 300 / 40 µm	light brown	Ø 3 x 30 mm	<b>0 425 106</b>			
		# 300 / 40 µm	light brown	Ø 3 x 30 mm	<b>0 425 107</b>			
		# 400 / 30 µm	orange	Ø 3 x 30 mm	<b>0 425 110</b>			
	Ø 1.5 x 9 mm	# 400 / 30 µm	orange	Ø 3 x 30 mm	<b>0 425 111</b>			
		# 400 / 30 µm	orange	Ø 3 x 30 mm	<b>0 425 112</b>			
		# 600 / 25 µm	dark brown	Ø 3 x 30 mm	<b>0 425 115</b>			
		# 600 / 25 µm	dark brown	Ø 3 x 30 mm	<b>0 425 116</b>			
		# 800 / 20 µm	blue	Ø 3 x 30 mm	<b>0 425 120</b>			
# 800 / 20 µm		blue	Ø 3 x 30 mm	<b>0 425 121</b>				
Ø 1.5 x 9 mm	# 1000 / 15 µm	white	Ø 3 x 30 mm	<b>0 425 125</b>				
	# 1000 / 15 µm	white	Ø 3 x 30 mm	<b>0 425 126</b>				
	# 1000 / 15 µm	white	Ø 3 x 30 mm	<b>0 425 127</b>				
	# 1200 / 10 µm	red	Ø 3 x 30 mm	<b>0 425 130</b>				
	# 1200 / 10 µm	red	Ø 3 x 30 mm	<b>0 425 131</b>				
		# 1200 / 10 µm	red	Ø 3 x 30 mm	<b>0 425 132</b>			









## Crystal-fibre-brushes

### shank Ø 3 x 30 mm

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



	Head dimensions	Grit size	Colour	Shank dimensions	Order No.	Price from		
						1 piece	5 pieces	10 pieces
<b>Crystal-fibre-brushes, shank Ø 3 x 30 mm</b>								
	Ø 5 x 20 mm	# 150	green	Ø 3 x 30 mm	<b>0 406 430</b>			
	Ø 5 x 20 mm	# 200	pink	Ø 3 x 30 mm	<b>0 406 431</b>			
	Ø 5 x 20 mm	# 400	violet	Ø 3 x 30 mm	<b>0 406 432</b>			
	Ø 5 x 20 mm	# 600	orange	Ø 3 x 30 mm	<b>0 406 433</b>			
	Ø 5 x 20 mm	# 800	blue	Ø 3 x 30 mm	<b>0 406 434</b>			
	Ø 5 x 20 mm	# 1000	white	Ø 3 x 30 mm	<b>0 406 435</b>			

## 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	Colour	Shank dimensions	Rotation speed max.	Order No.	Price from		
							1 piece	5 pieces	10 pieces
<b>Ceramic-fibre brushes, shank Ø 3 x 30 mm</b>									
	Ø 5 x 20 mm	# 1000 / 15 µm	white	Ø 3 x 30 mm	12000 1/min	<b>0 406 240</b>			
	Ø 5 x 20 mm	# 1200 / 10 µm	red	Ø 3 x 30 mm	12000 1/min	<b>0 406 200</b>			

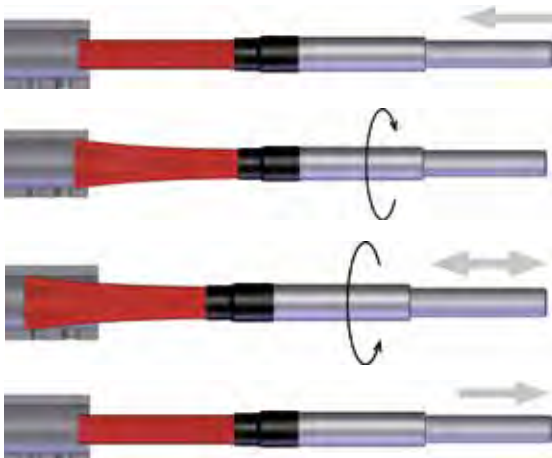


# Ceramic-fibre brushes

## 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  $\mu m$  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

	Head dimensions	Shank dimensions	Total length	Rotation speed max.	Order No.	Price from		
						1 piece	3 pieces	5 pieces
<b>Ceramic-fibre brushes Cross-Hole</b>								
	$\varnothing 3.5 \times 50$ mm	$\varnothing 3 \times 30$ mm	120 mm	10000 1/min	<b>0 406 291</b>			
	$\varnothing 5 \times 50$ mm	$\varnothing 3 \times 30$ mm	120 mm	10000 1/min	<b>0 406 292</b>			
		$\varnothing 4 \times 30$ mm	170 mm	10000 1/min	<b>0 406 293</b>			
	$\varnothing 8 \times 50$ mm	$\varnothing 6 \times 30$ mm	120 mm	10000 1/min	<b>0 406 294</b>			
		$\varnothing 6 \times 30$ mm	170 mm	10000 1/min	<b>0 406 295</b>			
	$\varnothing 10 \times 50$ mm	$\varnothing 6 \times 30$ mm	120 mm	10000 1/min	<b>0 406 296</b>			
		$\varnothing 8 \times 30$ mm	170 mm	10000 1/min	<b>0 406 297</b>			
	$\varnothing 20 \times 60$ mm	$\varnothing 12 \times 30$ mm	130 mm	10000 1/min	<b>0 406 320</b>			



### 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.




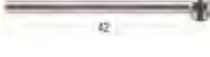
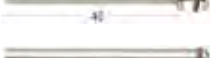
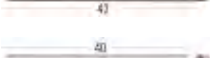

## Crystal fibre cutting disc Cristone for hardened steel and carbide metal

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
<b>Crystal fibre cutting disc Cristone</b>									
	Ø 19 x 0.8 mm	1.6 mm	150	green	50000 1/min	<b>0 425 200</b>			
	Ø 19 x 0.8 mm	1.6 mm	200	pink	50000 1/min	<b>0 425 201</b>			
	Ø 19 x 0.8 mm	1.6 mm	400	violet	50000 1/min	<b>0 425 202</b>			
	Ø 19 x 0.8 mm	1.6 mm	600	orange	50000 1/min	<b>0 425 203</b>			
	Ø 19 x 0.8 mm	1.6 mm	800	blue	50000 1/min	<b>0 425 204</b>			
	Ø 19 x 0.8 mm	1.6 mm	1000	white	50000 1/min	<b>0 425 205</b>			
	Ø 22 x 0.8 mm	1.6 mm	150	green	45000 1/min	<b>0 425 206</b>			
	Ø 22 x 0.8 mm	1.6 mm	200	pink	45000 1/min	<b>0 425 207</b>			
	Ø 22 x 0.8 mm	1.6 mm	400	violet	45000 1/min	<b>0 425 208</b>			
	Ø 22 x 0.8 mm	1.6 mm	600	orange	45000 1/min	<b>0 425 209</b>			
	Ø 22 x 0.8 mm	1.6 mm	800	blue	45000 1/min	<b>0 425 210</b>			
	Ø 22 x 0.8 mm	1.6 mm	1000	white	45000 1/min	<b>0 425 211</b>			

# 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
<b>CRATEX® grinding wheel holder</b>							
	Ø 1.5 – 1.8 mm	Ø 2.35 x 30/15 mm	25	Ø 38 x 4.5 mm	<b>0 545 279</b>		
	Ø 1.5 – 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	<b>0 545 275</b>		
	Ø 1.5 – 1.8 mm	Ø 3 x 40/30 mm	24	Ø 38 x 3 mm	<b>0 545 278</b>		
	Ø 1.5 – 1.8 mm	Ø 3 x 42 mm	22	Ø 38 x 4.5 mm	<b>0 545 276</b>		
	Ø 1.5 – 1.8 mm	Ø 3 x 40 mm	26	Ø 25 x 8.5 mm	<b>0 545 280</b>		
	Ø 1.5 – 1.8 mm	Ø 6 x 42 mm	23	Ø 38 x 4.5 mm	<b>0 545 277</b>		
	Ø 1.5 – 1.8 mm	Ø 6 x 40 mm	27	Ø 25 x 8.5 mm	<b>0 545 281</b>		



## Crystal fibre brush insert

### Cristone®

**NEW!**

Dimensions	Grit size	Colour	Order No.	Price from	
				1 piece	3 pieces
<b>Crystal fibre brush insert Cristone®</b>					
Ø 6 x 30 mm	# 150	green	<b>0 406 440</b>		
	# 200	pink	<b>0 406 446</b>		
	# 400	violet	<b>0 406 452</b>		
	# 600	orange	<b>0 406 458</b>		
	# 800	blue	<b>0 406 464</b>		
	# 1000	white	<b>0 406 470</b>		
	# 1200	red	<b>0 406 476</b>		
Ø 15 x 50 mm	# 150	green	<b>0 406 441</b>		
	# 200	pink	<b>0 406 447</b>		
	# 400	violet	<b>0 406 453</b>		
	# 600	orange	<b>0 406 459</b>		
	# 800	blue	<b>0 406 465</b>		
	# 1000	white	<b>0 406 471</b>		
	# 1200	red	<b>0 406 477</b>		
Ø 25 x 75 mm	# 150	green	<b>0 406 442</b>		
	# 200	pink	<b>0 406 448</b>		
	# 400	violet	<b>0 406 454</b>		
	# 600	orange	<b>0 406 460</b>		
	# 800	blue	<b>0 406 466</b>		
	# 1000	white	<b>0 406 472</b>		
	# 1200	red	<b>0 406 478</b>		
Ø 40 x 75 mm	# 150	green	<b>0 406 443</b>		
	# 200	pink	<b>0 406 449</b>		
	# 400	violet	<b>0 406 455</b>		
	# 600	orange	<b>0 406 461</b>		
	# 800	blue	<b>0 406 467</b>		
	# 1000	white	<b>0 406 473</b>		
	# 1200	red	<b>0 406 479</b>		
Ø 60 x 75 mm	# 150	green	<b>0 406 444</b>		
	# 200	pink	<b>0 406 450</b>		
	# 400	violet	<b>0 406 456</b>		
	# 600	orange	<b>0 406 462</b>		
	# 800	blue	<b>0 406 468</b>		
	# 1000	white	<b>0 406 474</b>		
	# 1200	red	<b>0 406 480</b>		
Ø 100 x 75 mm	# 150	green	<b>0 406 445</b>		
	# 200	pink	<b>0 406 451</b>		
	# 400	violet	<b>0 406 457</b>		
	# 600	orange	<b>0 406 463</b>		
	# 800	blue	<b>0 406 469</b>		
	# 1000	white	<b>0 406 475</b>		
	# 1200	red	<b>0 406 481</b>		



# Crystal fibre brush insert Cristone®

**Use:**

- Optimum tools for the surface finishing process, fine polishing of precision components and smoothing uneven edges.
- Fibre brushes wear out over time and work less flexibly, resulting in higher grinding force.
  - The flexibility is adjusted by varying the bristle length in the holder.

Can be used for example in CNC processing machines, robots, etc.

**Materials:**

- Hardened and pre-hardened steels
- Alloyed steels
- Brass
- Aluminium alloys

## Accessories / spare parts



	Dimensions	Order No.	Price from	
			1 piece	3 pieces
<b>Holder for Cristone® bristle brush</b>				
	Ø 6 mm	<b>0 406 482</b>		
	Ø 15 mm	<b>0 406 483</b>		
	Ø 25 mm	<b>0 406 484</b>		
	Ø 40 mm	<b>0 406 485</b>		
	Ø 60 mm	<b>0 406 486</b>		
	Ø 100 mm	<b>0 406 487</b>		



# Emery and fleece tools

**275** Abrasive cords and belts

**276** Abrasive sleeves and caps

**284** Flap wheels

**292** Cup wheel discs

**296** Grinding sheets

**306** 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
<b>Abrasive cords and belts</b>							
<b>Corundum</b>							
	Ø 0.8 mm	200	54	<b>0 531 974</b>			
	Ø 1.0 mm	180	53	<b>0 531 973</b>			
	Ø 1.4 mm	120	51	<b>0 531 972</b>			
	Ø 1.8 mm	180	50	<b>0 531 971</b>			
	Ø 2.1 mm	120	49	<b>0 531 970</b>			
	Ø 2.4 mm	150	48	<b>0 531 998</b>			
	2.4 x 0.9 mm	180	56	<b>0 531 975</b>			
	3.2 x 0.9 mm	180	57	<b>0 531 976</b>			
<b>Silicon carbide</b>							
	Ø 0.3 mm	280	66	<b>0 531 983</b>			
	Ø 0.4 mm	200	60	<b>0 531 982</b>			
	Ø 0.5 mm	200	55	<b>0 531 981</b>			
	Ø 1.0 mm	180	53-S	<b>0 531 985</b>			



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
<b>Abrasive sleeves, cylinder</b>							
<b>Corundum</b>							
	Ø 10 x 10 mm	0 544 601	80	10 pieces	<b>0 544 622</b>		
		0 544 601	150	10 pieces	<b>0 544 621</b>		
		0 544 601	240	10 pieces	<b>0 544 620</b>		
	Ø 10 x 20 mm	0 544 602	80	10 pieces	<b>0 544 625</b>		
		0 544 602	150	10 pieces	<b>0 544 624</b>		
	Ø 13 x 25 mm	0 544 604	80	10 pieces	<b>0 544 631</b>		
0 544 604		150	10 pieces	<b>0 544 630</b>			
Ø 15 x 10 mm	0 544 605	80	10 pieces	<b>0 544 634</b>			
	0 544 605	150	10 pieces	<b>0 544 633</b>			
	Ø 15 x 30 mm	0 544 606	60	10 pieces	<b>0 544 639</b>		
		0 544 606	80	10 pieces	<b>0 544 638</b>		
		0 544 606	150	10 pieces	<b>0 544 637</b>		
		0 544 606	240	10 pieces	<b>0 544 636</b>		
Ø 22 x 20 mm	0 544 607	60	10 pieces	<b>0 544 643</b>			
	0 544 607	80	10 pieces	<b>0 544 642</b>			
	0 544 607	150	10 pieces	<b>0 544 641</b>			
	0 544 607	240	10 pieces	<b>0 544 640</b>			
Ø 25 x 25 mm	0 544 608	60	10 pieces	<b>0 544 647</b>			
	0 544 608	80	10 pieces	<b>0 544 646</b>			
	0 544 608	150	10 pieces	<b>0 544 645</b>			
	Ø 30 x 20 mm	0 544 609	80	10 pieces	<b>0 544 650</b>		
		0 544 609	150	10 pieces	<b>0 544 649</b>		
Ø 30 x 30 mm	0 544 610	40	10 pieces	<b>0 544 657</b>			
	0 544 610	60	10 pieces	<b>0 544 656</b>			
	0 544 610	80	10 pieces	<b>0 544 655</b>			
	0 544 610	150	10 pieces	<b>0 544 654</b>			
	0 544 610	240	10 pieces	<b>0 544 653</b>			
Ø 45 x 30 mm	0 544 612	40	10 pieces	<b>0 544 667</b>			
	0 544 612	80	10 pieces	<b>0 544 665</b>			
<b>Zirconium corundum</b>							
	Ø 30 x 30 mm	0 544 610	36	50 pieces	<b>0 544 870</b>		
		0 544 610	50	50 pieces	<b>0 544 871</b>		
		0 544 610	60	50 pieces	<b>0 544 872</b>		
		0 544 610	80	50 pieces	<b>0 544 873</b>		

# Abrasive sleeves, caps and rubber holders

## jokeFlex


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

### Accessories / spare parts


	Head dimensions	Shank dimensions	Order No.	Price from	
				1 piece	5 pieces
<b>Rubber holder, jokeFlex</b>					
<b>cylinder</b>					
	Ø 10 x 10 mm	Ø 6 x 40 mm	<b>0 544 601</b>		
	Ø 10 x 20 mm	Ø 6 x 40 mm	<b>0 544 602</b>		
	Ø 13 x 25 mm	Ø 6 x 40 mm	<b>0 544 604</b>		
	Ø 15 x 10 mm	Ø 6 x 40 mm	<b>0 544 605</b>		
	Ø 15 x 30 mm	Ø 6 x 40 mm	<b>0 544 606</b>		
	Ø 22 x 20 mm	Ø 6 x 40 mm	<b>0 544 607</b>		
	Ø 25 x 25 mm	Ø 6 x 40 mm	<b>0 544 608</b>		
	Ø 30 x 20 mm	Ø 6 x 40 mm	<b>0 544 609</b>		
	Ø 30 x 30 mm	Ø 6 x 40 mm	<b>0 544 610</b>		
	Ø 45 x 30 mm	Ø 6 x 40 mm	<b>0 544 612</b>		
<b>Conical</b>					
	Ø 29/22 x 30 mm	Ø 6 x 40 mm	<b>0 544 617</b>		

## Abrasive caps and rubber holders

### jokeFlex


	Outside dimensions	Suitable rubber holder	Grit size	Packing quantity	Order No.	Price from	
						1 pack	5 packs
<b>Abrasive caps, cylinder</b>							
<b>Green Corundum</b>							
	Ø 7 x 10 mm	0 544 401	80	100 pieces	<b>0 544 421-1</b>		
		0 544 401	150	100 pieces	<b>0 544 422-1</b>		
		0 544 401	320	100 pieces	<b>0 544 423-1</b>		
	Ø 9 x 12 mm	0 544 402	80	100 pieces	<b>0 544 424-1</b>		
		0 544 402	150	100 pieces	<b>0 544 425-1</b>		
		0 544 402	320	100 pieces	<b>0 544 426-1</b>		
	Ø 12 x 15 mm	0 544 403	80	100 pieces	<b>0 544 427-1</b>		
		0 544 403	150	100 pieces	<b>0 544 428-1</b>		
		0 544 403	320	100 pieces	<b>0 544 429-1</b>		
	Ø 15 x 17 mm	0 544 404	80	100 pieces	<b>0 544 430-1</b>		
		0 544 404	150	100 pieces	<b>0 544 431-1</b>		
		0 544 404	320	100 pieces	<b>0 544 432-1</b>		
Ø 18 x 26 mm	0 544 405, 0 544 406	80	100 pieces	<b>0 544 433-1</b>			
	0 544 405, 0 544 406	150	100 pieces	<b>0 544 434-1</b>			
	0 544 405, 0 544 406	320	100 pieces	<b>0 544 435-1</b>			

### Accessories / spare parts


	Head dimensions	Shank dimensions	Order No.	Price from		
				1 piece	5 pieces	10 pieces
<b>Rubber holder, jokeFlex</b>						
<b>cylinder</b>						
	Ø 5 x 10 mm	Ø 3 x 25 mm	<b>0 544 401</b>			
	Ø 7 x 12 mm	Ø 3 x 25 mm	<b>0 544 402</b>			
	Ø 10 x 15 mm	Ø 3 x 25 mm	<b>0 544 403</b>			
	Ø 13 x 17 mm	Ø 3 x 25 mm	<b>0 544 404</b>			
	Ø 16 x 26 mm	Ø 3 x 25 mm	<b>0 544 405</b>			
		Ø 6 x 40 mm	<b>0 544 406</b>			

# Abrasive caps and rubber holders

## jokeFlex


	Outside dimensions	Suitable rubber holder	Grit size	Packing quantity	Order No.	Price from	
						1 pack	5 packs
<b>Abrasive caps, rounded cylinder</b>							
<b>Green Corundum</b>							
	Ø 7 x 11 mm	0 544 407	80	100 pieces	<b>0 544 436-1</b>		
		0 544 407	150	100 pieces	<b>0 544 437-1</b>		
		0 544 407	320	100 pieces	<b>0 544 438-1</b>		
	Ø 9 x 13 mm	0 544 408	80	100 pieces	<b>0 544 439-1</b>		
		0 544 408	150	100 pieces	<b>0 544 440-1</b>		
		0 544 408	320	100 pieces	<b>0 544 441-1</b>		
	Ø 12 x 15 mm	0 544 409	80	100 pieces	<b>0 544 442-1</b>		
		0 544 409	150	100 pieces	<b>0 544 443-1</b>		
		0 544 409	320	100 pieces	<b>0 544 444-1</b>		
	Ø 15 x 19 mm	0 544 410	80	100 pieces	<b>0 544 445-1</b>		
		0 544 410	150	100 pieces	<b>0 544 446-1</b>		
		0 544 410	320	100 pieces	<b>0 544 447-1</b>		
Ø 18 x 26 mm	0 544 411, 0 544 412	80	100 pieces	<b>0 544 448-1</b>			
	0 544 411, 0 544 412	150	100 pieces	<b>0 544 449-1</b>			
	0 544 411, 0 544 412	320	100 pieces	<b>0 544 450-1</b>			
Ø 12 x 15 mm	0 544 409	60	100 pieces	<b>0 544 482</b>			

### Accessories / spare parts


	Head dimensions	Shank dimensions	Order No.	Price from		
				1 piece	5 pieces	10 pieces
<b>Rubber holder, jokeFlex</b>						
<b>rounded cylinder</b>						
	Ø 5 x 11 mm	Ø 3 x 25 mm	<b>0 544 407</b>			
	Ø 7 x 13 mm	Ø 3 x 25 mm	<b>0 544 408</b>			
	Ø 10 x 15 mm	Ø 3 x 25 mm	<b>0 544 409</b>			
	Ø 13 x 19 mm	Ø 3 x 25 mm	<b>0 544 410</b>			
	Ø 16 x 26 mm	Ø 3 x 25 mm	<b>0 544 411</b>			
		Ø 6 x 40 mm	<b>0 544 412</b>			

## Abrasive caps and rubber holders

### jokeFlex



	Outside dimensions	Suitable rubber holder	Grit size	Packing quantity	Order No.	Price from	
						1 pack	5 packs
<b>Abrasive caps, pointed cylinder</b>							
<b>Green Corundum</b>							
	Ø 7 x 11 mm	0 544 413	80	100 pieces	<b>0 544 451-1</b>		
		0 544 413	150	100 pieces	<b>0 544 452-1</b>		
		0 544 413	320	100 pieces	<b>0 544 453-1</b>		
	Ø 9 x 13 mm	0 544 414	80	100 pieces	<b>0 544 454-1</b>		
		0 544 414	150	100 pieces	<b>0 544 455-1</b>		
		0 544 414	320	100 pieces	<b>0 544 456-1</b>		
	Ø 12 x 15 mm	0 544 415	80	100 pieces	<b>0 544 457-1</b>		
		0 544 415	150	100 pieces	<b>0 544 458-1</b>		
		0 544 415	320	100 pieces	<b>0 544 459-1</b>		
	Ø 15 x 19 mm	0 544 416	80	100 pieces	<b>0 544 460-1</b>		
		0 544 416	150	100 pieces	<b>0 544 461-1</b>		
		0 544 416	320	100 pieces	<b>0 544 462-1</b>		
Ø 18 x 26 mm	0 544 417, 0 544 418	80	100 pieces	<b>0 544 463-1</b>			
	0 544 417, 0 544 418	150	100 pieces	<b>0 544 464-1</b>			

### Accessories / spare parts


	Head dimensions	Shank dimensions	Order No.	Price from		
				1 piece	5 pieces	10 pieces
<b>Rubber holder, jokeFlex</b>						
<b>pointed cylinder</b>						
	Ø 5 x 11 mm	Ø 3 x 25 mm	<b>0 544 413</b>			
	Ø 7 x 13 mm	Ø 3 x 25 mm	<b>0 544 414</b>			
	Ø 10 x 15 mm	Ø 3 x 25 mm	<b>0 544 415</b>			
	Ø 13 x 19 mm	Ø 3 x 25 mm	<b>0 544 416</b>			
	Ø 16 x 26 mm	Ø 3 x 25 mm	<b>0 544 417</b>			
	Ø 16 x 26 mm	Ø 6 x 40 mm	<b>0 544 418</b>			

# Abrasive caps and rubber holders

## POLICAP

		Outside dimensions	Suitable rubber holder	Grit size	Packing quantity	Order No.	Price from	
							1 pack	5 packs
<b>Abrasive caps POLICAP, rounded cylinder</b>								
<b>Co-Cool</b>								
	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	<b>0 543 000</b>		
		Ø 7 x 13 mm	0 544 408	120	50 pieces	<b>0 543 001</b>		
<b>SiC-Cool</b>								
	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	<b>0 543 010</b>		
		Ø 7 x 13 mm	0 544 408	150	50 pieces	<b>0 543 011</b>		

### Accessories / spare parts

		Head dimensions	Shank dimensions	Order No.	Price from		
					1 piece	5 pieces	10 pieces
<b>Rubber holder, jokeFlex</b>							
<b>rounded cylinder</b>							
	Ø 7 x 13 mm	Ø 3 x 25 mm	<b>0 544 408</b>				

## 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
<b>Abrasive caps, rounded cone</b>							
<b>Green Corundum</b>							
	Ø 7/6 x 15 mm	0 544 501	80	100 pieces	<b>0 544 511-1</b>		
		0 544 501	150	100 pieces	<b>0 544 512-1</b>		
	Ø 13/11 x 25 mm	0 544 502	80	100 pieces	<b>0 544 513-1</b>		
		0 544 502	150	100 pieces	<b>0 544 514-1</b>		
	Ø 18/16 x 32 mm	0 544 503	80	25 pieces	<b>0 544 515-1</b>		
		0 544 503	150	25 pieces	<b>0 544 516-1</b>		
	Ø 23/21 x 40 mm	0 544 504	80	25 pieces	<b>0 544 517-1</b>		



#### Accessories / spare parts

	Head dimensions	Shank dimensions	Order No.	Price from		
				1 piece	5 pieces	10 pieces
<b>Rubber holder, jokeFlex</b>						
<b>rounded cone</b>						
	Ø 5 / 4 x 15 mm	Ø 6 x 40 mm	<b>0 544 501</b>			
	Ø 11 / 9 x 25 mm	Ø 6 x 40 mm	<b>0 544 502</b>			
	Ø 16 / 14 x 32 mm	Ø 6 x 40 mm	<b>0 544 503</b>			
	Ø 21 / 19 x 40 mm	Ø 6 x 40 mm	<b>0 544 504</b>			

## Abrasive finger caps jokeFlex

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


### Accessories / spare parts

	Head dimensions	Shank dimensions	Order No.	Price from		
				1 piece	5 pieces	10 pieces
<b>Rubber holder, jokeFlex</b>						
<b>rounded cone</b>						
	Ø 8 / 4 x 85 mm	Ø 6 x 40 mm	<b>0 544 505</b>			
	Ø 18 / 14 x 85 mm	Ø 6 x 40 mm	<b>0 544 507</b>			

## 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
<b>Abrasive caps/fingers/rubber holders</b>		
		
This range contains 640 abrasive caps and fingers and 23 rubber holders in every dimension in grit sizes 80 and 150.	<b>0 544 600-1</b>	



## 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 285**

Flap wheels shank Ø 6 mm **page 287**

Flap wheels with fleece lamellas **page 288**

Grinding wheels for cleaning **page 288**



#### Max. rotational speed in relation to cutting speed $V_{max}$ and $\emptyset$ of the tool used

$\emptyset$	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	76400 1/min	<b>0 543 902</b>			
		80	Ø 3 x 40 mm	76400 1/min	<b>0 543 903</b>			
		120	Ø 3 x 40 mm	76400 1/min	<b>0 543 904</b>			
		150	Ø 3 x 40 mm	76400 1/min	<b>0 543 906</b>			
		180	Ø 3 x 40 mm	76400 1/min	<b>0 543 907</b>			
		240	Ø 3 x 40 mm	76400 1/min	<b>0 543 908</b>			
		320	Ø 3 x 40 mm	76400 1/min	<b>0 543 909</b>			
		400	Ø 3 x 40 mm	76400 1/min	<b>0 543 910</b>			
	Ø 10 x 15 mm	80	Ø 3 x 40 mm	76400 1/min	<b>0 543 913</b>			
		150	Ø 3 x 40 mm	76400 1/min	<b>0 543 916</b>			
		240	Ø 3 x 40 mm	76400 1/min	<b>0 543 918</b>			
		320	Ø 3 x 40 mm	76400 1/min	<b>0 543 919</b>			
	Ø 15 x 10 mm	80	Ø 3 x 40 mm	51000 1/min	<b>0 543 923</b>			
		150	Ø 3 x 40 mm	51000 1/min	<b>0 543 926</b>			
		240	Ø 3 x 40 mm	51000 1/min	<b>0 543 928</b>			
		320	Ø 3 x 40 mm	51000 1/min	<b>0 543 929</b>			
	Ø 15 x 15 mm	80	Ø 3 x 40 mm	51000 1/min	<b>0 543 933</b>			
		150	Ø 3 x 40 mm	51000 1/min	<b>0 543 936</b>			
		240	Ø 3 x 40 mm	51000 1/min	<b>0 543 938</b>			
		320	Ø 3 x 40 mm	51000 1/min	<b>0 543 939</b>			
	Ø 20 x 5 mm	80	Ø 3 x 40 mm	38200 1/min	<b>0 543 943</b>			
		150	Ø 3 x 40 mm	38200 1/min	<b>0 543 946</b>			
		240	Ø 3 x 40 mm	38200 1/min	<b>0 543 948</b>			
		320	Ø 3 x 40 mm	38200 1/min	<b>0 543 949</b>			
	Ø 20 x 10 mm	80	Ø 3 x 40 mm	38200 1/min	<b>0 543 953</b>			
		150	Ø 3 x 40 mm	38200 1/min	<b>0 543 956</b>			
		240	Ø 3 x 40 mm	38200 1/min	<b>0 543 958</b>			
		320	Ø 3 x 40 mm	38200 1/min	<b>0 543 959</b>			
	Ø 20 x 15 mm	80	Ø 3 x 40 mm	38200 1/min	<b>0 543 963</b>			
		150	Ø 3 x 40 mm	38200 1/min	<b>0 543 966</b>			
		240	Ø 3 x 40 mm	38200 1/min	<b>0 543 968</b>			
		320	Ø 3 x 40 mm	38200 1/min	<b>0 543 969</b>			
	Ø 20 x 20 mm	80	Ø 3 x 40 mm	38200 1/min	<b>0 543 973</b>			
		150	Ø 3 x 40 mm	38200 1/min	<b>0 543 976</b>			
		240	Ø 3 x 40 mm	38200 1/min	<b>0 543 978</b>			
		320	Ø 3 x 40 mm	38200 1/min	<b>0 543 979</b>			
	Ø 25 x 5 mm	80	Ø 3 x 40 mm	30500 1/min	<b>0 543 983</b>			
		150	Ø 3 x 40 mm	30500 1/min	<b>0 543 986</b>			
		240	Ø 3 x 40 mm	30500 1/min	<b>0 543 988</b>			
		320	Ø 3 x 40 mm	30500 1/min	<b>0 543 989</b>			

## 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 25 x 10 mm	80	Ø 3 x 40 mm	30500 1/min	<b>0 543 993</b>			
		150	Ø 3 x 40 mm	30500 1/min	<b>0 543 996</b>			
		240	Ø 3 x 40 mm	30500 1/min	<b>0 543 998</b>			
		320	Ø 3 x 40 mm	30500 1/min	<b>0 543 999</b>			
	Ø 30 x 5 mm	60	Ø 3 x 40 mm	25400 1/min	<b>0 544 222</b>			
		80	Ø 3 x 40 mm	25400 1/min	<b>0 544 223</b>			
		150	Ø 3 x 40 mm	25400 1/min	<b>0 544 226</b>			
		240	Ø 3 x 40 mm	25400 1/min	<b>0 544 228</b>			
	Ø 30 x 10 mm	60	Ø 3 x 40 mm	25400 1/min	<b>0 544 232</b>			
		80	Ø 3 x 40 mm	25400 1/min	<b>0 544 233</b>			
		150	Ø 3 x 40 mm	25400 1/min	<b>0 544 236</b>			
		240	Ø 3 x 40 mm	25400 1/min	<b>0 544 238</b>			
Ø 40 x 5 mm	60	Ø 3 x 40 mm	19100 1/min	<b>0 544 532</b>				
	80	Ø 3 x 40 mm	19100 1/min	<b>0 544 533</b>				
	150	Ø 3 x 40 mm	19100 1/min	<b>0 544 536</b>				
	320	Ø 3 x 40 mm	19100 1/min	<b>0 544 539</b>				
Ø 40 x 10 mm	60	Ø 3 x 40 mm	19100 1/min	<b>0 544 242</b>				
	80	Ø 3 x 40 mm	19100 1/min	<b>0 544 243</b>				
	150	Ø 3 x 40 mm	19100 1/min	<b>0 544 246</b>				
	240	Ø 3 x 40 mm	19100 1/min	<b>0 544 248</b>				
Ø 40 x 15 mm	80	Ø 3 x 40 mm	19100 1/min	<b>0 544 253</b>				
	240	Ø 3 x 40 mm	19100 1/min	<b>0 544 258</b>				



### 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
<b>Flap wheels with lamellas, corundum, shank Ø 6 mm</b>								
	Ø 40 x 10 mm	60	Ø 6 x 40 mm	19100 1/min	<b>0 544 362</b>			
		80	Ø 6 x 40 mm	19100 1/min	<b>0 544 363</b>			
		150	Ø 6 x 40 mm	19100 1/min	<b>0 544 366</b>			
		240	Ø 6 x 40 mm	19100 1/min	<b>0 544 368</b>			
		320	Ø 6 x 40 mm	19100 1/min	<b>0 544 369</b>			
	Ø 40 x 15 mm	60	Ø 6 x 40 mm	19100 1/min	<b>0 544 372</b>			
		80	Ø 6 x 40 mm	19100 1/min	<b>0 544 373</b>			
		120	Ø 6 x 40 mm	19100 1/min	<b>0 544 374</b>			
		150	Ø 6 x 40 mm	19100 1/min	<b>0 544 376</b>			
		180	Ø 6 x 40 mm	19100 1/min	<b>0 544 377</b>			
240		Ø 6 x 40 mm	19100 1/min	<b>0 544 378</b>				
	Ø 50 x 5 mm	60	Ø 6 x 40 mm	15300 1/min	<b>0 544 542</b>			
		80	Ø 6 x 40 mm	15300 1/min	<b>0 544 543</b>			
		150	Ø 6 x 40 mm	15300 1/min	<b>0 544 546</b>			
	Ø 50 x 10 mm	60	Ø 6 x 40 mm	15300 1/min	<b>0 544 262</b>			
		80	Ø 6 x 40 mm	15300 1/min	<b>0 544 263</b>			
		150	Ø 6 x 40 mm	15300 1/min	<b>0 544 266</b>			
		240	Ø 6 x 40 mm	15300 1/min	<b>0 544 268</b>			
	Ø 60 x 5 mm	60	Ø 6 x 40 mm	12700 1/min	<b>0 544 552</b>			
		80	Ø 6 x 40 mm	12700 1/min	<b>0 544 553</b>			
		150	Ø 6 x 40 mm	12700 1/min	<b>0 544 556</b>			
320		Ø 6 x 40 mm	12700 1/min	<b>0 544 559</b>				
Ø 80 x 5 mm	80	Ø 6 x 40 mm	8360 1/min	<b>0 544 563</b>				
	150	Ø 6 x 40 mm	8360 1/min	<b>0 544 566</b>				
	Ø 60 x 40 mm	60	Ø 6 x 40 mm	12700 1/min	<b>0 544 322</b>			
		80	Ø 6 x 40 mm	12700 1/min	<b>0 544 323</b>			
		150	Ø 6 x 40 mm	12700 1/min	<b>0 544 326</b>			
		320	Ø 6 x 40 mm	12700 1/min	<b>0 544 329</b>			

## 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  $V_{max}$ : 40 m/sec.

	Head dimensions	Grit size	Shank dimensions	Packing quantity	Order No.	Price from		
						1 pack	5 packs	10 packs
<b>Flap wheels, SiC, shank Ø 6 mm</b>								
	Ø 60 x 30 mm	60	Ø 6 x 40 mm	10 pieces	<b>0 543 686</b>			
		80	Ø 6 x 40 mm	10 pieces	<b>0 543 687</b>			
		120	Ø 6 x 40 mm	10 pieces	<b>0 543 688</b>			

## 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  $V_{max}$ : 40 m/sec.

	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from	
						1 piece	10 pieces
<b>Flap wheels made of combined fleece / cloth lamellas, corundum, shank Ø 6 mm</b>							
	Ø 40 x 20 mm	medium / K 80	Ø 6 x 40 mm	19100 1/min	<b>0 543 450</b>		
		fine / K 150	Ø 6 x 40 mm	19100 1/min	<b>0 543 451</b>		
		very fine / K 240	Ø 6 x 40 mm	19100 1/min	<b>0 543 452</b>		
Ø 50 x 20 mm	medium / K 80	Ø 6 x 40 mm	15300 1/min	<b>0 543 456</b>			
	fine / K 150	Ø 6 x 40 mm	15300 1/min	<b>0 543 457</b>			
	very fine / K 240	Ø 6 x 40 mm	15300 1/min	<b>0 543 458</b>			
Ø 60 x 30 mm	medium / K 80	Ø 6 x 40 mm	12700 1/min	<b>0 543 462</b>			
	fine / K 150	Ø 6 x 40 mm	12700 1/min	<b>0 543 463</b>			
	very fine / K 240	Ø 6 x 40 mm	12700 1/min	<b>0 543 464</b>			

## 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  $V_{max}$ : 35 m/sec.

	Head dimensions	Grit size	Shank dimensions	Rotation speed max.	Order No.	Price from				
						1 piece	5 pieces	10 pieces	20 pieces	
<b>Cleaning flap wheels, type "coarse"</b>										
	Ø 55 x 15 mm	coarse	Ø 6 x 40 mm	14000 1/min	<b>0 544 588</b>					

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
<b>Flap wheels with fleece lamellas, corundum, shank Ø 3 mm</b>								
	Ø 20 x 20 mm	coarse	Ø 3 x 40 mm	13000 1/min	<b>0 547 001</b>			
		medium	Ø 3 x 40 mm	13000 1/min	<b>0 547 002</b>			
		fine	Ø 3 x 40 mm	13000 1/min	<b>0 547 003</b>			
		very fine	Ø 3 x 40 mm	13000 1/min	<b>0 547 004</b>			
	Ø 30 x 10 mm	coarse	Ø 3 x 40 mm	11000 1/min	<b>0 547 009</b>			
		medium	Ø 3 x 40 mm	11000 1/min	<b>0 547 010</b>			
		fine	Ø 3 x 40 mm	11000 1/min	<b>0 547 011</b>			
		very fine	Ø 3 x 40 mm	11000 1/min	<b>0 547 012</b>			
	Ø 30 x 20 mm	coarse	Ø 3 x 40 mm	11000 1/min	<b>0 547 017</b>			
		medium	Ø 3 x 40 mm	11000 1/min	<b>0 547 018</b>			
		fine	Ø 3 x 40 mm	11000 1/min	<b>0 547 019</b>			
		very fine	Ø 3 x 40 mm	11000 1/min	<b>0 547 020</b>			
	Ø 30 x 30 mm	coarse	Ø 3 x 40 mm	11000 1/min	<b>0 547 025</b>			
		medium	Ø 3 x 40 mm	11000 1/min	<b>0 547 026</b>			
		very fine	Ø 3 x 40 mm	11000 1/min	<b>0 547 028</b>			

## 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
<b>Flap wheels with fleece lamellas, corundum, shank Ø 6 mm</b>								
	Ø 40 x 20 mm	coarse	Ø 6 x 40 mm	8000 1/min	<b>0 547 033</b>			
		medium	Ø 6 x 40 mm	8000 1/min	<b>0 547 034</b>			
		fine	Ø 6 x 40 mm	8000 1/min	<b>0 547 035</b>			
		very fine	Ø 6 x 40 mm	8000 1/min	<b>0 547 036</b>			
	Ø 40 x 40 mm	medium	Ø 6 x 40 mm	8000 1/min	<b>0 547 042</b>			
		fine	Ø 6 x 40 mm	8000 1/min	<b>0 547 043</b>			
		very fine	Ø 6 x 40 mm	8000 1/min	<b>0 547 044</b>			
	Ø 50 x 20 mm	medium	Ø 6 x 40 mm	6500 1/min	<b>0 547 046</b>			
		fine	Ø 6 x 40 mm	6500 1/min	<b>0 547 047</b>			
		very fine	Ø 6 x 40 mm	6500 1/min	<b>0 547 048</b>			





### 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**

## Cutting Discs

### POWER



**NEW!**

	Suitable for materials	Dimensions	Drilling dimension	Design	Rotation speed max.	Packing quantity	Order No.	Price from		
								1 piece	50 pieces	100 pieces
<b>Cutting Disc POWER</b>										
	Aluminium	Ø 115 x 1.5 mm	22.23 mm	straight	13300 1/min	25 pieces	<b>0 575 140</b>			
	Aluminium	Ø 125 x 1.5 mm	22.23 mm	straight	12200 1/min	25 pieces	<b>0 575 141</b>			
	Stainless steel	Ø 115 x 1.0 mm	22.23 mm	straight	13300 1/min	25 pieces	<b>0 575 100</b>			
	Stainless steel	Ø 115 x 1.5 mm	22.23 mm	straight	13300 1/min	25 pieces	<b>0 575 102</b>			
		Ø 125 x 1.0 mm	22.23 mm	straight	12200 1/min	25 pieces	<b>0 575 101</b>			
		Ø 125 x 1.5 mm	22.23 mm	straight	12200 1/min	25 pieces	<b>0 575 103</b>			
		Ø 125 x 2.5 mm	22.23 mm	straight	12200 1/min	25 pieces	<b>0 575 104</b>			
	Stainless steel	Ø 178 x 2.5 mm	22.23 mm	straight	8600 1/min	25 pieces	<b>0 575 105</b>			
	Stainless steel	Ø 230 x 1.9 mm	22.23 mm	angular	6600 1/min	25 pieces	<b>0 575 110</b>			
	Steel	Ø 115 x 1.0 mm	22.23 mm	straight	13300 1/min	25 pieces	<b>0 575 120</b>			
		Ø 115 x 3.0 mm	22.23 mm	angular	13300 1/min	25 pieces	<b>0 575 131</b>			
		Ø 125 x 1.0 mm	22.23 mm	straight	12200 1/min	25 pieces	<b>0 575 121</b>			
	Steel	Ø 115 x 1.5 mm	22.23 mm	straight	12200 1/min	25 pieces	<b>0 575 122</b>			
	Steel	Ø 230 x 3.0 mm	22.23 mm	angular	6600 1/min	25 pieces	<b>0 575 132</b>			

## Grinding Discs

### POWER


**NEW!**

	Suitable for materials	Dimensions	Drilling dimension	Design	Rotation speed max.	Packing quantity	Order No.	Price from		
								1 piece	50 pieces	100 pieces
<b>Grinding Disc POWER</b>										
	Steel	Ø 115 x 6.5 mm	22.23 mm	angular	13300 1/min	10 pieces	<b>0 575 150</b>			
		Ø 125 x 6.5 mm	22.23 mm	angular	12200 1/min	10 pieces	<b>0 575 151</b>			
		Ø 178 x 7.0 mm	22.23 mm	angular	8600 1/min	10 pieces	<b>0 575 152</b>			
		Ø 230 x 7.0 mm	22.23 mm	angular	6600 1/min	10 pieces	<b>0 575 153</b>			
	Stainless steel	Ø 115 x 6.5 mm	22.23 mm	angular	13300 1/min	10 pieces	<b>0 575 160</b>			
		Ø 125 x 6.5 mm	22.23 mm	angular	12200 1/min	10 pieces	<b>0 575 161</b>			
		Ø 178 x 7.0 mm	22.23 mm	angular	8600 1/min	10 pieces	<b>0 575 162</b>			

## Felt polishing flap discs

**NEW!**

Thanks to the flexible lamellas made of 70% wool felt, the felt polishing flap discs adapt ideally to the contours of the workpiece. Perfect for polishing uneven and contoured surfaces. Achieves an optimal high-gloss finish in combination with polishing compounds.


	Dimensions	Drilling dimension	Hardness	Type	Rotation speed max.	Packing quantity	Order No.	Price from		
								1 piece	50 pieces	100 pieces
<b>Felt polishing flap disc extra flexible</b>										
	Ø 115 mm	22.23 mm	soft	FG27	8500 1/min	5 pieces	<b>0 575 200</b>			
		22.23 mm	medium	FG27	8500 1/min	5 pieces	<b>0 575 201</b>			
	Ø 125 mm	22.23 mm	soft	FG27	7700 1/min	5 pieces	<b>0 575 202</b>			
		22.23 mm	medium	FG27	7700 1/min	5 pieces	<b>0 575 204</b>			
Ø 178 mm	22.23 mm	soft	FG27	5500 1/min	5 pieces	<b>0 575 205</b>				

## Compact Discs UNITIZED NEW!

This tool is characterised by multilayer pressed grinding fleece with high, evenly distributed abrasive grit. It offers a long service life and is very hard wearing.

The compact grinding disc is used for

- decorative finishes on stainless steel surfaces
- levelling of surfaces after weld seam processing
- preparation of titanium and stainless steel surfaces before polishing
- preparation of aluminium, copper and brass etc. before coating.



	Dimensions	Drilling dimension	Hardness	Grit size	Type	Rotation speed max.	Packing quantity	Order No.	Price from		
									1 piece	50 pieces	100 pieces
<b>Compact Disc</b>											
	Ø 115 mm	22.23 mm	medium	coarse	G27	11000 1/min	5 pieces	<b>0 575 190</b>			
	Ø 115 mm	22.23 mm	medium	medium	G27	11000 1/min	5 pieces	<b>0 575 191</b>			
	Ø 115 mm	22.23 mm	medium	very fine	G27	11000 1/min	5 pieces	<b>0 575 192</b>			

## Flap Discs HYBRID • SCM • Zirconium corundum NEW!

The combination of abrasive cloth and abrasive fleece facilitates material removal and achieving a decorative surface finish in a single work step.

The hybrid grinding disc is optimally suitable for

- Removing welding seams
- Removing burrs after plasma and laser cutting
- Removing small unevennesses and surface defects
- Suitable for stainless steel, mild steel, aluminium and other alloys.

	Dimensions	Drilling dimension	Grit size	Type	Colour	Rotation speed max.	Packing quantity	Order No.	Price from		
									1 piece	50 pieces	100 pieces
<b>Flap Disc HYBRID</b>											
	Ø 115 mm	22.23 mm	medium	conical	red brown	13300 1/min	10 pieces	<b>0 575 170</b>			
	Ø 125 mm	22.23 mm	medium	conical	red brown	12200 1/min	10 pieces	<b>0 575 171</b>			
<b>Flap Disc SCM</b>											
	Ø 115 mm	22.23 mm	coarse	G27	brown	13300 1/min	10 pieces	<b>0 575 180</b>			
		22.23 mm	medium	G27	red brown	13300 1/min	10 pieces	<b>0 575 181</b>			
		22.23 mm	very fine	G27	blue	13300 1/min	10 pieces	<b>0 575 182</b>			
Ø 125 mm	22.23 mm	coarse	G27	brown	12200 1/min	10 pieces	<b>0 575 183</b>				
	22.23 mm	medium	G27	red brown	12200 1/min	10 pieces	<b>0 575 184</b>				
	22.23 mm	very fine	G27	blue	12200 1/min	10 pieces	<b>0 575 185</b>				
Ø 178 mm	22.23 mm	coarse	G27	brown	8600 1/min	10 pieces	<b>0 575 186</b>				
	22.23 mm	medium	G27	red brown	8600 1/min	10 pieces	<b>0 575 187</b>				
	22.23 mm	very fine	G27	blue	8600 1/min	10 pieces	<b>0 575 188</b>				
<b>Flap Disc Zirconium corundum</b>											
Ø 115 mm	22.23 mm	40	conical	blue	13300 1/min	10 pieces	<b>0 575 220</b>				
Ø 125 mm	22.23 mm	40	conical	blue	12200 1/min	10 pieces	<b>0 575 230</b>				




## 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.

**Maximale Drehzahl 25.000 1/min**



Cup wheel disc with TURBO hand air grinder

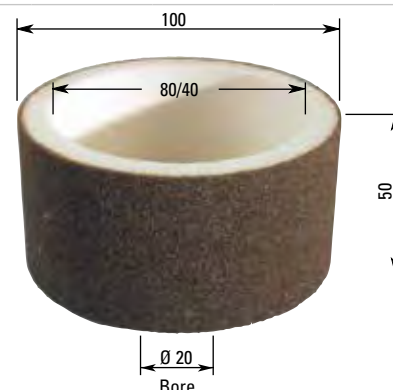
	Dimensions	Grit size	Colour	Rotation speed max.	Order No.	Price from	
						1 piece	10 pieces
<b>Cup wheel discs, high-grade corundum</b>							
	Ø 30	60	brown	25000 1/min	<b>0 530 721</b>		
		100	brown	25000 1/min	<b>0 530 722</b>		
		150	brown	25000 1/min	<b>0 530 723</b>		

### Accessories / spare parts

	Order No.	Price from
<b>Clamping shank</b>		
		
For receiving the cup wheel discs and rubber holders on TURBO hand grinders.	<b>0 750 512</b>	

## EKW cup wheel discs

	Dimensions	Grit size	Order No.	Price from	
				1 piece	5 pieces
<b>EKW cup wheel discs</b>					
					
Hardness JOT, resin-hardened edge for grinding HSS max. speed 7,500 rpm	Ø 100 x 50 x 20 mm	80	<b>0 542 751</b>		
<b>EKW cup wheel disc – Top quality</b>					
					
Hardness JOT, resin-hardened edge for grinding HSS, hardened steel and hard metal max. speed 7,500 rpm	Ø 100 x 50 x 20 mm	80	<b>0 542 753</b>		



# 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
<b>Nylon cut-off discs, fibre-reinforced</b>										
<b>high-grade corundum</b>										
	for hardened and unhardened steels	Ø 22 x 0.2 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 901</b>			
		Ø 22 x 0.3 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 902</b>			
		Ø 22 x 0.5 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 903</b>			
		Ø 25 x 0.2 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 904</b>			
		Ø 25 x 0.3 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 905</b>			
		Ø 25 x 0.5 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 906</b>			
		Ø 40 x 0.5 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 907</b>			
		Ø 40 x 0.7 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 908</b>			
		Ø 40 x 1.0 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 909</b>			
<b>silicon carbide</b>										
	for stainless steels and non-ferrous metals	Ø 22 x 0.2 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 910</b>			
		Ø 22 x 0.3 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 911</b>			
		Ø 25 x 0.2 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 913</b>			
		Ø 25 x 0.3 mm	1.8 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 914</b>			

## ⚙️ Accessories / spare parts

		for bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from	
							1 piece	10 pieces
<b>CRATEX® grinding wheel holder</b>								
		Ø 1.5 – 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	<b>0 545 275</b>		
				22	Ø 38 x 4.5 mm	<b>0 545 276</b>		
				23	Ø 38 x 4.5 mm	<b>0 545 277</b>		
				25	Ø 38 x 4.5 mm	<b>0 545 279</b>		


## 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
<b>Nylon cut-off discs, fibre-reinforced</b>						
<b>diamond</b>						
	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	20000 1/min	<b>0 544 920</b>
		Ø 20 x 0.3 mm	1.8 mm	21, 22, 23, 25	20000 1/min	<b>0 544 921</b>






### Accessories / spare parts

	for bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from 1 piece	10 pieces
<b>CRATEX® grinding wheel holder</b>							
	Ø 1.5 – 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	<b>0 545 275</b>		
	Ø 3 x 42 mm		22	Ø 38 x 4.5 mm	<b>0 545 276</b>		
	Ø 6 x 42 mm		23	Ø 38 x 4.5 mm	<b>0 545 277</b>		
	Ø 2.35 x 30/15 mm		25	Ø 38 x 4.5 mm	<b>0 545 279</b>		

## Nylon cut-off discs

		Dimensions	Drilling dimension	Matching-receptacles	Rotation speed max.	Packing quantity	Order No.	Price from	
								1 pack	5 packs
<b>Nylon cut-off discs</b>									
<b>high-grade corundum (brown)</b>									
	for hardened and unhardened steels	Ø 22 x 0.3 mm	1.5 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 960</b>		
		Ø 22 x 0.7 mm	1.5 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 961</b>		
		Ø 22 x 2.0 mm	1.5 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 962</b>		
		Ø 22 x 3.0 mm	1.5 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 963</b>		
		Ø 25 x 0.5 mm	1.5 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 972</b>		
		Ø 25 x 0.7 mm	1.5 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 965</b>		
		Ø 25 x 0.8 mm	1.5 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 974</b>		
		Ø 25 x 1.0 mm	1.5 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 966</b>		
		Ø 34 x 1.65 mm	1.5 mm	21, 22, 23, 25	10000 1/min	10 pieces	<b>0 544 967</b>		
		Ø 37.5 x 1.0 mm	1.5 mm	21, 22, 23, 25	10000 1/min	10 pieces	<b>0 544 968</b>		
	Ø 40 x 1.0 mm	6 mm	41	10000 1/min	10 pieces	<b>0 544 969</b>			
<b>silicon carbide (grey)</b>									
	for stainless steels and non-ferrous metals	Ø 22 x 0.7 mm	1.5 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 981</b>		
		Ø 22 x 2.0 mm	1.5 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 982</b>		
		Ø 25 x 0.7 mm	1.5 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 985</b>		
		Ø 25 x 1.0 mm	1.5 mm	21, 22, 23, 25	20000 1/min	10 pieces	<b>0 544 986</b>		

### Accessories / spare parts

		for bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from	
							1 piece	10 pieces
<b>CRATEX® grinding wheel holder</b>								
	Ø 1.5 – 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	<b>0 545 275</b>			
			22	Ø 38 x 4.5 mm	<b>0 545 276</b>			
			23	Ø 38 x 4.5 mm	<b>0 545 277</b>			
		Ø 2.35 x 30/15 mm	25	Ø 38 x 4.5 mm	<b>0 545 279</b>			
	Ø 6 mm	Ø 6 x 25 mm	41	Ø 75 x 9.5 mm	<b>0 545 282</b>			

# 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



**298** Abrasive discs, self-adhesive

## Velcro fastening



**299** Abrasive discs with Velcro fastening

## COMBIDISC®



**304** 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 Vmax: 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
<b>Grinding stars Polistar, corundum</b>							
	Ø 20 mm	60	1.6 mm	20000 1/min	25 pieces	<b>0 570 910-0</b>	
	Ø 20 mm	80	1.6 mm	20000 1/min	25 pieces	<b>0 570 911-0</b>	
	Ø 20 mm	120	1.6 mm	20000 1/min	25 pieces	<b>0 570 912-0</b>	
	Ø 30 mm	60	1.6 mm	13000 1/min	25 pieces	<b>0 570 913-0</b>	
	Ø 30 mm	80	1.6 mm	13000 1/min	25 pieces	<b>0 570 914-0</b>	
	Ø 30 mm	120	1.6 mm	13000 1/min	25 pieces	<b>0 570 915-0</b>	
	Ø 40 mm	60	3 mm	10000 1/min	10 pieces	<b>0 570 904-0</b>	
	Ø 40 mm	80	3 mm	10000 1/min	10 pieces	<b>0 570 905-0</b>	
	Ø 40 mm	120	3 mm	10000 1/min	10 pieces	<b>0 570 906-0</b>	
	Ø 50 mm	60	3 mm	8000 1/min	10 pieces	<b>0 570 907-0</b>	
	Ø 50 mm	80	3 mm	8000 1/min	10 pieces	<b>0 570 908-0</b>	
	Ø 50 mm	120	3 mm	8000 1/min	10 pieces	<b>0 570 909-0</b>	

## ⚙️ Accessories / spare parts

	for bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from 1 piece 10 pieces
<b>CRATEX® grinding wheel holder</b>						
	Ø 1.5 – 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	<b>0 545 275</b>	
	Ø 1.5 – 1.8 mm	Ø 3 x 42 mm	22	Ø 38 x 4.5 mm	<b>0 545 276</b>	
	Ø 3 mm	Ø 6 x 40 mm	33	Ø 45 x 6 mm	<b>0 545 269</b>	

## 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
<b>Grinding stars POLINOX, corundum</b>							
	Ø 19 mm	P 80	20000 1/min	5 pieces	<b>0 570 991</b>		
		very fine	20000 1/min	5 pieces	<b>0 570 992</b>		
	Ø 25 mm	coarse	15000 1/min	5 pieces	<b>0 570 993</b>		
		medium	15000 1/min	5 pieces	<b>0 570 994</b>		
		very fine	15000 1/min	5 pieces	<b>0 570 995</b>		
	Ø 38 mm	coarse	10000 1/min	5 pieces	<b>0 570 996</b>		
		medium	10000 1/min	5 pieces	<b>0 570 997</b>		
		very fine	10000 1/min	5 pieces	<b>0 570 998</b>		

### Accessories / spare parts

	Shank dimensions	Type	Thread	Order No.	Price from
					1 piece
<b>suitable tool holders</b>					
	Ø 6 x 125 mm	XL	8/32-UNC	<b>0 570 960</b>	
	Ø 6 x 75 mm	L	8/32-UNC	<b>0 570 965</b>	


## 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
<b>Abrasive discs ROTAFLEX</b>								
	Ø 30 mm	80	CPC 871	8500 1/min	250 pieces	<b>0 530 660</b>		
		120	CPC 871	8500 1/min	250 pieces	<b>0 530 662</b>		
		220	CPA 871	8500 1/min	250 pieces	<b>0 530 665</b>		
		240	CPA 871	8500 1/min	250 pieces	<b>0 530 666</b>		
		320	CPA 871	8500 1/min	250 pieces	<b>0 530 668</b>		
		500	CPA 871	8500 1/min	250 pieces	<b>0 530 671</b>		
		800	CPA 871	8500 1/min	250 pieces	<b>0 530 673</b>		
		1000	CPA 871	8500 1/min	250 pieces	<b>0 530 674</b>		
1200	CPA 871	8500 1/min	250 pieces	<b>0 530 675</b>				


## Abrasive discs ROTAFLEX-Trizact Corundum

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
<b>Abrasive discs ROTAFLEX-Trizact with velcro fastening</b>					
	Ø 30 mm	160	10 pieces		<b>0 572 001</b>
<b>Abrasive discs ROTAFLEX-Trizact, self-adhesive</b>					
		160	10 pieces		<b>0 572 101</b>

### Accessories / spare parts

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

## 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
<b>ROTAFLX abrasive discs with Velcro fastening</b>								
	Ø 20 mm	60	19000 1/min	100 pieces	<b>0 544 012</b>			
		80	19000 1/min	100 pieces	<b>0 544 013</b>			
		120	19000 1/min	100 pieces	<b>0 544 014</b>			
		150	19000 1/min	100 pieces	<b>0 544 015</b>			
		180	19000 1/min	100 pieces	<b>0 544 016</b>			
		240	19000 1/min	100 pieces	<b>0 544 017</b>			
		320	19000 1/min	100 pieces	<b>0 544 018</b>			
	Ø 30 mm	60	13000 1/min	100 pieces	<b>0 544 032</b>			
		80	13000 1/min	100 pieces	<b>0 544 033</b>			
		120	13000 1/min	100 pieces	<b>0 544 034</b>			
		180	13000 1/min	100 pieces	<b>0 544 036</b>			
		240	13000 1/min	100 pieces	<b>0 544 037</b>			
		320	13000 1/min	100 pieces	<b>0 544 038</b>			



## 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 Vmax: 20 m/sec.**



	Dimensions	Shank dimensions	Order No.	Price from	
				1 piece	5 pieces
<b>Rubber holders with Velcro fastening</b>					
	Ø 18 mm	Ø 3 x 30 mm	<b>0 544 010</b>		
	Ø 30 mm	Ø 3 x 30 mm	<b>0 544 020</b>		
		Ø 6 x 40 mm	<b>0 544 030</b>		

## Abrasive discs ROTAFLEX

### Corundum, self-adhesive

for elastic grinding in combination with the suitable rubber holders.

**Cutting speed Vmax: 13 m/sec.**

	Dimensions	Grit size	Type	Rotation speed max.	Packing quantity	Order No.	Price from		
							1 pack	5 packs	10 packs
<b>ROTAFLX abrasive discs</b>									
	Ø 12 mm	50	R 0	20000 1/min	50 pieces	<b>0 544 111</b>			
		60	R 0	20000 1/min	50 pieces	<b>0 544 112</b>			
		80	R 0	20000 1/min	50 pieces	<b>0 544 113</b>			
		120	R 0	20000 1/min	50 pieces	<b>0 544 114</b>			
		150	R 0	20000 1/min	50 pieces	<b>0 544 115</b>			
		180	R 0	20000 1/min	50 pieces	<b>0 544 116</b>			
		240	R 0	20000 1/min	50 pieces	<b>0 544 117</b>			
		320	R 0	20000 1/min	50 pieces	<b>0 544 118</b>			
		400	R 0	20000 1/min	50 pieces	<b>0 544 119</b>			
	Ø 20 mm	50	R 1	12000 1/min	50 pieces	<b>0 544 121</b>			
		60	R 1	12000 1/min	50 pieces	<b>0 544 122</b>			
		80	R 1	12000 1/min	50 pieces	<b>0 544 123</b>			
		120	R 1	12000 1/min	50 pieces	<b>0 544 124</b>			
		150	R 1	12000 1/min	50 pieces	<b>0 544 125</b>			
		180	R 1	12000 1/min	50 pieces	<b>0 544 126</b>			
		240	R 1	12000 1/min	50 pieces	<b>0 544 127</b>			
		320	R 1	12000 1/min	50 pieces	<b>0 544 128</b>			
		400	R 1	12000 1/min	50 pieces	<b>0 544 129</b>			
		600	R 1	12000 1/min	50 pieces	<b>0 544 175</b>			

## 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	7500 1/min	50 pieces	<b>0 544 131</b>			
		60	R 2	7500 1/min	50 pieces	<b>0 544 132</b>			
		80	R 2	7500 1/min	50 pieces	<b>0 544 133</b>			
		120	R 2	7500 1/min	50 pieces	<b>0 544 134</b>			
		150	R 2	7500 1/min	50 pieces	<b>0 544 135</b>			
		180	R 2	7500 1/min	50 pieces	<b>0 544 136</b>			
		240	R 2	7500 1/min	50 pieces	<b>0 544 137</b>			
		320	R 2	7500 1/min	50 pieces	<b>0 544 138</b>			
		400	R 2	7500 1/min	50 pieces	<b>0 544 139</b>			
		600	R 2	7500 1/min	50 pieces	<b>0 544 176</b>			
	Ø 50 mm	40	R 3	5000 1/min	50 pieces	<b>0 544 140</b>			
		50	R 3	5000 1/min	50 pieces	<b>0 544 141</b>			
		60	R 3	5000 1/min	50 pieces	<b>0 544 142</b>			
		80	R 3	5000 1/min	50 pieces	<b>0 544 143</b>			
		120	R 3	5000 1/min	50 pieces	<b>0 544 144</b>			
		150	R 3	5000 1/min	50 pieces	<b>0 544 145</b>			
		180	R 3	5000 1/min	50 pieces	<b>0 544 146</b>			
		240	R 3	5000 1/min	50 pieces	<b>0 544 147</b>			
		320	R 3	5000 1/min	50 pieces	<b>0 544 148</b>			
		400	R 3	5000 1/min	50 pieces	<b>0 544 149</b>			
600	R 3	5000 1/min	50 pieces	<b>0 544 177</b>					

### Accessories / spare parts

	Dimensions	Shank dimensions	Type	Suitable abrasive discs	Order No.	Price from		
						1 piece	5 pieces	10 pieces
<b>Rubber holder ROTAFLEX</b>								
	Ø 10 mm	Ø 3 x 26 mm	RK 0	R 0	<b>0 544 101</b>			
	Ø 18 mm	Ø 2.35 x 26 mm	RK 1	R 1	<b>0 544 102</b>			
		Ø 3 x 26 mm	RK 1	R 1	<b>0 544 103</b>			
	Ø 30 mm	Ø 3 x 26 mm	RK 2	R 2	<b>0 544 104</b>			
	Ø 45 mm	Ø 6 x 32 mm	RK 3	R 3	<b>0 544 105</b>			

- 1
- 2
- 3
- 4
- 5
- 6
- 7

# Abrasive discs ROTAFLEX

## Silicon carbide, self-adhesive










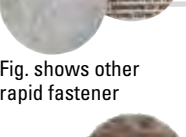









	Steel, cast steel	Coarse grinding of steel and cast steel	Stainless steel (INOX)	Materials with high thermal stability (Ni-Co alloy)	Hard non-ferrous metals, titanium, bronze, hardened aluminium alloys	Soft non-ferrous metals, titanium, copper, aluminium alloys	Carbide metal, hard material coatings, hard facings, glass, GRP, CRP	Cleaning, structuring, deburring	Polishing
 <p><b>Corundum A</b> universally for all metals <i>page 304</i></p>	◆					◆			
 <p><b>Corundum A-Forte</b> universally, long service life, cool cut <i>on request!</i></p>	◆					◆			
 <p><b>Silicon carbide</b> non-ferrous metals, titanium, aeronautical industry, SiC authorisation <i>on request!</i></p>			◆	◆					
 <p><b>Fleece rounds, hard</b> universally for surface processing of many materials <i>page 304</i></p>							◆		
 <p><b>Fleece rounds, soft</b> universally for surface processing of many materials <i>page 304</i></p>							◆		
 <p><b>Felt rounds</b> polishing of larger surfaces <i>on request!</i></p>								◆	
 <p><b>Corundum A-FLEX</b> universally for all metals, flexibly for uneven surfaces <i>on request!</i></p>	◆					◆			
 <p><b>Ceramic grit CO-COOL</b> extremely hard materials, high stock removal, long service life <i>on request!</i></p>		◆	◆	◆					
 <p><b>TX rounds</b> surface processing, deburring, particularly on INOX and aluminium <i>on request!</i></p>		◆		◆	◆				
 <p><b>Cleaning rounds POLICLEAN®</b> 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><b>Corundum A-PLUS</b> universally for metals, long service lives, stable carrier material</p> <p>on request!</p>	◆					◆			
 <p><b>Small fibre grinders corundum A</b> surface and edge grinding, very long service lives, reinforced fibre backing</p> <p>on request!</p>		◆							
 <p><b>Corundum A-COOL</b> materials difficult to cut, such as INOX, Hastelloy, Inconel, Ni-Co</p> <p>auf Anfrage!</p>			◆	◆	◆				
 <p><b>Zirconium corundum Z</b> for all carbide metals during coarse grinding up to grit size 36 and grit size 80</p> <p>on request!</p>	◆	◆	◆						
 <p><b>Small fibre grinders ceramic grit CO-COOL</b> extremely hard materials, high stock removal, reinforced fibre backing</p> <p>on request!</p>			◆	◆	◆				
 <p><b>Diamond grinding discs</b> Hastelloy, Inconel, chrome, tungsten, titanium carbide, carbide metal, CRP/GRP</p> <p>on request!</p>						◆			
 <p><b>Brush</b> remove adhesive etc., cleaning of contours and edges</p> <p>on request!</p> <p>Fig. shows other rapid fastener</p>							◆		
 <p><b>mini-POLIFAN Corundum A</b> universal coarse grinding tasks, high cutting performance</p> <p>Fig. shows other rapid fastener</p>		◆							
 <p><b>mini-POLIFAN Zirconium corundum ZA</b> 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	Rotation speed max.	Packing quantity	Order No.	Price from	
							1 pack	4 packs
<b>Abrasive discs COMBIDISC® corundum A</b>								
	Ø 20 mm	60	35,000 1/min	35000 1/min	50 pieces	<b>0 541 020</b>		
		80	35,000 1/min	35000 1/min	50 pieces	<b>0 541 021</b>		
		120	35,000 1/min	35000 1/min	50 pieces	<b>0 541 022</b>		
		180	35,000 1/min	35000 1/min	50 pieces	<b>0 541 023</b>		
		320	35,000 1/min	35000 1/min	50 pieces	<b>0 541 024</b>		
	Ø 25 mm	60	26,000 1/min	26000 1/min	50 pieces	<b>0 541 025</b>		
		80	26,000 1/min	26000 1/min	50 pieces	<b>0 541 026</b>		
		120	26,000 1/min	26000 1/min	50 pieces	<b>0 541 027</b>		
		180	26,000 1/min	26000 1/min	50 pieces	<b>0 541 028</b>		
		320	26,000 1/min	26000 1/min	50 pieces	<b>0 541 029</b>		
	Ø 38 mm	60	16,000 1/min	16000 1/min	50 pieces	<b>0 541 031</b>		
		80	16,000 1/min	16000 1/min	50 pieces	<b>0 541 032</b>		
		120	16,000 1/min	16000 1/min	50 pieces	<b>0 541 033</b>		
		180	16,000 1/min	16000 1/min	50 pieces	<b>0 541 034</b>		
		320	16,000 1/min	16000 1/min	50 pieces	<b>0 541 035</b>		
Ø 50 mm	60	13,000 1/min	13000 1/min	50 pieces	<b>0 541 037</b>			
	80	13,000 1/min	13000 1/min	50 pieces	<b>0 541 038</b>			
	120	13,000 1/min	13000 1/min	50 pieces	<b>0 541 039</b>			
	180	13,000 1/min	13000 1/min	50 pieces	<b>0 541 040</b>			
	320	13,000 1/min	13000 1/min	50 pieces	<b>0 541 041</b>			

## 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	Rotation speed max.	Packing quantity	Order No.	Price from	
							1 pack	4 packs
<b>Fleece rounds COMBIDISC® – hard version, corundum A</b>								
	Ø 20 mm	very fine	19,000 1/min	19000 1/min	25 pieces	<b>0 541 110</b>		
	Ø 25 mm	coarse	15,000 1/min	15000 1/min	25 pieces	<b>0 541 111</b>		
	Ø 25 mm	medium	15,000 1/min	15000 1/min	25 pieces	<b>0 541 112</b>		
	Ø 25 mm	very fine	15,000 1/min	15000 1/min	25 pieces	<b>0 541 113</b>		
	Ø 38 mm	coarse	10,000 1/min	10000 1/min	25 pieces	<b>0 541 114</b>		
	Ø 38 mm	medium	10,000 1/min	10000 1/min	25 pieces	<b>0 541 115</b>		
	Ø 38 mm	very fine	10,000 1/min	10000 1/min	25 pieces	<b>0 541 116</b>		
	Ø 50 mm	coarse	7,500 1/min	7500 1/min	25 pieces	<b>0 541 117</b>		
	Ø 50 mm	medium	7,500 1/min	7500 1/min	25 pieces	<b>0 541 118</b>		
	Ø 50 mm	very fine	7,500 1/min	7500 1/min	25 pieces	<b>0 541 119</b>		
	<b>Fleece rounds COMBIDISC® – soft version, corundum A</b>							
	Ø 50 mm	medium	7,500 1/min	7500 1/min	25 pieces	<b>0 541 130</b>		
	Ø 50 mm	fine	7,500 1/min	7500 1/min	25 pieces	<b>0 541 131</b>		
	Ø 50 mm	very fine	7,500 1/min	7500 1/min	25 pieces	<b>0 541 132</b>		

## Grinding and polishing discs COMBIDISC® Ceramic grit CO-COOL

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
<b>Abrasive discs COMBIDISC® ceramic grit CO-COOL</b>							
	Ø 38 mm	36	16000 1/min	25 pieces	<b>0 541 091</b>		
		60	16000 1/min	25 pieces	<b>0 541 092</b>		
		80	16000 1/min	25 pieces	<b>0 541 093</b>		
		120	16000 1/min	25 pieces	<b>0 541 094</b>		
	Ø 50 mm	36	13000 1/min	25 pieces	<b>0 541 096</b>		
		60	13000 1/min	25 pieces	<b>0 541 097</b>		
		80	13000 1/min	25 pieces	<b>0 541 098</b>		
		120	13000 1/min	25 pieces	<b>0 541 099</b>		

## 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	Rotation speed max.	Packing quantity	Order No.	Price from	
						1 pack	4 packs
<b>Felt rounds COMBIDISC®</b>							
	Ø 50 mm	4,000 1/min	4000 1/min	5 pieces	<b>0 541 150</b>		


## Grinding and polishing discs COMBIDISC® Holders

	Dimensions	Design	Shank dimensions	Recommended speed	Rotation speed max.	Price from	
						Order No.	1 piece
<b>Grinding and polishing disc holders COMBIDISC®</b>							
	Ø 20 mm	medium	Ø 3 x 27 mm	12.000 1/min	12000 1/min	<b>0 541 012</b>	
		medium	Ø 6 x 40 mm	47.500 1/min	47500 1/min	<b>0 541 001</b>	
	Ø 25 mm	medium	Ø 3 x 27 mm	12.000 1/min	12000 1/min	<b>0 541 013</b>	
		medium	Ø 6 x 40 mm	38.000 1/min	38000 1/min	<b>0 541 002</b>	
	Ø 38 mm	hard	Ø 6 x 40 mm	25.000 1/min	25000 1/min	<b>0 541 003</b>	
		medium	Ø 6 x 40 mm	25.000 1/min	25000 1/min	<b>0 541 004</b>	
		soft	Ø 6 x 40 mm	25.000 1/min	25000 1/min	<b>0 541 005</b>	
	Ø 50 mm	hard	Ø 6 x 40 mm	19.000 1/min	19000 1/min	<b>0 541 006</b>	
		medium	Ø 6 x 40 mm	19.000 1/min	19000 1/min	<b>0 541 007</b>	
		soft	Ø 6 x 40 mm	19.000 1/min	19000 1/min	<b>0 541 008</b>	

# 2 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
<b>Silicon carbide abrasive paper</b>						
 230 x 280 mm	150	991 C	50 pieces		<b>0 401 379</b>	
	180	991 C	50 pieces		<b>0 401 380</b>	
	220	991 C	50 pieces		<b>0 401 381</b>	
	240	991 C	50 pieces		<b>0 401 382</b>	
	280	991 C	50 pieces		<b>0 401 383</b>	
	320	991 C	50 pieces		<b>0 401 384</b>	
	400	991 C	50 pieces		<b>0 401 386</b>	
	500	991 C	50 pieces		<b>0 401 387</b>	
	600	991 C	50 pieces		<b>0 401 388</b>	
	800	991 C	50 pieces		<b>0 401 389</b>	
	1000	991 C	50 pieces		<b>0 401 390</b>	
	1200	991 C	50 pieces		<b>0 401 391</b>	
	1200	991 A	50 pieces		<b>0 401 373</b>	
	2000	991 A	50 pieces		<b>0 401 392</b>	
	2500	991 A	50 pieces		<b>0 401 393</b>	
	3000	991 A	50 pieces		<b>0 401 394</b>	
	5000	991 A	50 pieces		<b>0 401 395</b>	
	1500	991 A	50 pieces		<b>0 401 397</b>	
	7000	991 A	50 pieces		<b>0 401 399</b>	



use with or 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/m<sup>2</sup>
- C > 115 g/m<sup>2</sup>



# Abrasive paper Corundum

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
<b>Mikro-Finishing-Abrasive Paper 3M®</b>								
	216 x 280 mm	180 / 80 µm	brown	5 pieces	<b>0 530 708</b>			
		220 / 60 µm	black	5 pieces	<b>0 530 709</b>			
		320 / 40 µm	blue	5 pieces	<b>0 530 710</b>			
		400 / 30 µm	green	5 pieces	<b>0 530 711</b>			
		500 / 20 µm	red	5 pieces	<b>0 530 712</b>			
		600 / 15 µm	orange	5 pieces	<b>0 530 713</b>			
		1200 / 9 µm	light blue	5 pieces	<b>0 530 714</b>			

 *matching set*

	Order No.	Price from		
		1 set	3 set	5 set
<b>Mikro-Finishing-Abrasive Paper 3M®</b>				




The set contains one sheet each in the version: **0 530 715**  
brown, black, blue, green, red, orange  
and light blue



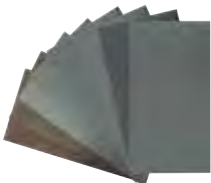
## 2 Padded abrasive cloth MX

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.

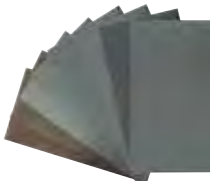
	Grit size MX	Comparable to FEPA
	180	> P 360
	240	P 800
	320	> P 1500
	360	P 2000
	400	P 2500
	600	> P 3000
	800	P 5000
	1200	> P 5000



use with or without  
coolant/lubricant!


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

### matching set


	Order No.	Price from 1 set
<b>Set of padded abrasive cloth MX</b>		
	One sheet per grit size respectively	<b>0 401 650</b>

#### 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](mailto:m.abstoss@joke.de)


## Abrasive strips ROTAFLEX Corundum, self-adhesive

Dimensions	Grit size	Packing quantity	Order No.	Price from	
				1 pack	10 packs
<b>Abrasive strips ROTAFLEX, corundum, self-adhesive</b>					
 7 x 580 mm	60	10 pieces	<b>0 401 302</b>		
	80	10 pieces	<b>0 401 303</b>		
	120	10 pieces	<b>0 401 304</b>		
	150	10 pieces	<b>0 401 305</b>		
	180	10 pieces	<b>0 401 306</b>		
	240	10 pieces	<b>0 401 307</b>		
	320	10 pieces	<b>0 401 308</b>		
	400	10 pieces	<b>0 401 309</b>		
	600	10 pieces	<b>0 401 310</b>		
	10 x 580 mm	80	10 pieces	<b>0 401 333</b>	
120		10 pieces	<b>0 401 334</b>		
150		10 pieces	<b>0 401 335</b>		
180		10 pieces	<b>0 401 336</b>		
240		10 pieces	<b>0 401 337</b>		
320		10 pieces	<b>0 401 338</b>		
400		10 pieces	<b>0 401 339</b>		
600		10 pieces	<b>0 401 340</b>		



use with or without  
coolant/lubricant!

## Abrasive sheets Corundum, self-adhesive



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





use with or without  
coolant/lubricant!

## Felt pads ROTAFLEX

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
<b>Felt tips ROTAFLEX, self-adhesive</b>							
	20 x 10 mm		50 pieces	<b>0 530 604</b>			
<b>Abrasive Pads, self-adhesive</b>							
<b>Corundum</b>							
	20 x 10 mm	180	100 pieces	<b>0 530 605</b>			
		240	100 pieces	<b>0 530 606</b>			
		280	100 pieces	<b>0 530 607</b>			
		320	100 pieces	<b>0 530 608</b>			
		400	100 pieces	<b>0 530 609</b>			
		600	100 pieces	<b>0 530 610</b>			
		800	100 pieces	<b>0 530 611</b>			
		1000	100 pieces	<b>0 530 612</b>			
		1200	100 pieces	<b>0 530 613</b>			


### Accessories / spare parts

	Order No.	Price from		
		1 piece	5 pieces	10 pieces
<b>Abrasive pad holder, 180° pivotable</b>				
	shank Ø x total length 3 x 85 mm	<b>0 530 601</b>		
<b>Abrasive pad holder</b>				
	shank Ø x total length 3 x 65 mm	<b>0 530 602</b>		
	shank Ø x total length 3 x 40 mm	<b>0 530 603</b>		



## 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
<b>Grinding fleece – rolls and pads</b>							
	115 mm x 10 m	100 - 180 / medium	Roll – corundum	<b>0 401 430-0</b>			
		220 - 240 / fine	Roll – corundum	<b>0 401 431-0</b>			
	115 mm x 10 m	280 - 360 / very fine	Roll – corundum	<b>0 401 432-0</b>			
		280 - 360 / very fine	Roll – silicon carbide	<b>0 401 433-0</b>			
		400 - 600 / superfine	Roll – silicon carbide	<b>0 401 434-0</b>			
		800 - 1500 / ultrafine	Roll – silicon carbide	<b>0 401 435-0</b>			
		320 - 360 / very fine	Pad – corundum	<b>0 401 436</b>			
		500 - 600 / superfine	Pad – silicon carbide	<b>0 401 437</b>			



use with or without  
coolant/lubricant!

<b>i</b>	<b>Grit size Fleece</b>	<b>comparable to FEPA</b>
	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
<b>Abrasive cloth sheets Premium VSM, KK 114 F, corundum</b>							
	230 x 280 mm	999 rouge	50 pieces	<b>0 530 630</b>			
		444 silver	50 pieces	<b>0 530 629</b>			
		400	50 pieces	<b>0 530 628</b>			
		360	50 pieces	<b>0 530 627</b>			
		320	50 pieces	<b>0 530 626</b>			
		280	50 pieces	<b>0 530 625</b>			
		240	50 pieces	<b>0 530 624</b>			
		220	50 pieces	<b>0 530 623</b>			
		180	50 pieces	<b>0 530 622</b>			
		150	50 pieces	<b>0 530 621</b>			
		120	50 pieces	<b>0 530 620</b>			
		100	50 pieces	<b>0 530 619</b>			
		80	50 pieces	<b>0 530 618</b>			



use with or 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
<b>Premium economy abrasive cloth roll, 50 m, VSM, KK 114 F and KK 511 F</b>						
 25 mm	80	KK 114 F	<b>0 543 851</b>			
	120	KK 114 F	<b>0 543 847</b>			
	150	KK 114 F	<b>0 543 852</b>			
	180	KK 114 F	<b>0 543 853</b>			
	240	KK 114 F	<b>0 543 854</b>			
	320	KK 114 F	<b>0 543 855</b>			
	400	KK 114 F	<b>0 543 856</b>			
	600	KK 511 F	<b>0 543 858</b>			
	800	KK 511 F	<b>0 543 859</b>			
	999	KK 114 F	<b>0 543 844</b>			
40 mm	80	KK 114 F	<b>0 543 861</b>			
	120	KK 114 F	<b>0 543 848</b>			
	150	KK 114 F	<b>0 543 862</b>			
	180	KK 114 F	<b>0 543 863</b>			
	240	KK 114 F	<b>0 543 864</b>			
	320	KK 114 F	<b>0 543 865</b>			
	400	KK 114 F	<b>0 543 866</b>			
	600	KK 511 F	<b>0 543 868</b>			
	800	KK 511 F	<b>0 543 869</b>			
	999	KK 114 F	<b>0 543 845</b>			
50 mm	40	KK 114 F	<b>0 543 843</b>			
	60	KK 114 F	<b>0 543 870</b>			
	80	KK 114 F	<b>0 543 871</b>			
	100	KK 114 F	<b>0 543 841</b>			
	120	KK 114 F	<b>0 543 849</b>			
	150	KK 114 F	<b>0 543 872</b>			
	180	KK 114 F	<b>0 543 873</b>			
	240	KK 114 F	<b>0 543 874</b>			
	320	KK 114 F	<b>0 543 875</b>			
	400	KK 114 F	<b>0 543 876</b>			
	500	KK 511 F	<b>0 543 877</b>			
	600	KK 511 F	<b>0 543 878</b>			
	800	KK 511 F	<b>0 543 879</b>			
	999	KK 114 F	<b>0 543 846</b>			




use with or 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
<b>Standard economy abrasive cloth rolls, Starcke 641 PF, corundum, 50 m</b>					
	25 mm	80	<b>0 401 403-1</b>		
		150	<b>0 401 405-1</b>		
		180	<b>0 401 406-1</b>		
		240	<b>0 401 407-1</b>		
		320	<b>0 401 408-1</b>		
		400	<b>0 401 409-1</b>		
		50 mm	80	<b>0 401 413</b>	
120	<b>0 401 414</b>				
150	<b>0 401 415</b>				
180	<b>0 401 416</b>				
240	<b>0 401 417</b>				
320	<b>0 401 418</b>				
400	<b>0 401 419</b>				

## 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
<b>Holder for Poly-Strip abrasive strips</b>				
	6 x 1 x 26 mm	Ø 3.5 x 50 mm	<b>0 401 551</b>	
	10 x 1 x 26 mm	Ø 3.5 x 50 mm	<b>0 401 552</b>	
	15 x 1 x 26 mm	Ø 3.5 x 50 mm	<b>0 401 553</b>	
	6 x 1 x 50 mm	Ø 3.5 x 50 mm	<b>0 401 556</b>	
	10 x 1 x 50 mm	Ø 3.5 x 50 mm	<b>0 401 557</b>	
	15 x 1 x 50 mm	Ø 3.5 x 50 mm	<b>0 401 558</b>	

 *matching set*

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

## 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
<b>Poly-Strip abrasive strips, cassette of 6</b>		
containing 1 abrasive strip roll each 15 mm, roll length 25 m in grit size 150, 180, 240, 320, 400, 600	<b>0 401 501</b>	




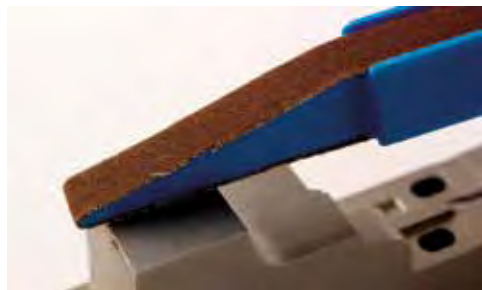
#### Accessories / spare parts

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

## 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
<b>Abrasive bands for Gesswein®-Holder</b>				
 7 x 330 mm	120	10 pieces	<b>0 401 460</b>	
	240	10 pieces	<b>0 401 461</b>	
	320	10 pieces	<b>0 401 462</b>	
	400	10 pieces	<b>0 401 463</b>	
	600	10 pieces	<b>0 401 464</b>	
13 x 420 mm	120	10 pieces	<b>0 401 465</b>	
	240	10 pieces	<b>0 401 466</b>	
	320	10 pieces	<b>0 401 467</b>	
	400	10 pieces	<b>0 401 426</b>	
	600	10 pieces	<b>0 401 428</b>	
19 x 508 mm	120	10 pieces	<b>0 401 468</b>	
	240	10 pieces	<b>0 401 469</b>	
	320	10 pieces	<b>0 401 470</b>	
	400	10 pieces	<b>0 401 427</b>	
	600	10 pieces	<b>0 401 429</b>	



### No mix-ups possible

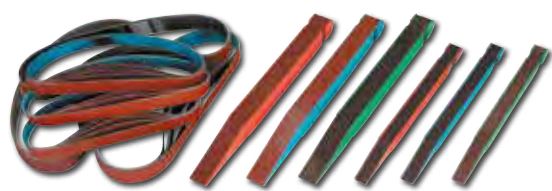
In order to avoid mix-ups, we recommend a separate holder colour for each grit size.

For example:

<b>K 120</b>	<b>Red</b>
<b>K 240</b>	<b>Blue</b>
<b>K 320</b>	<b>Green</b>
<b>K 400</b>	<b>Yellow</b>
<b>K 600</b>	<b>Black</b>

### ⚙️ Accessories / spare parts

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













## 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
<b>Micro grinding strip holders and grinding strips, 160 x 6 mm</b>				
 160 x 6 mm	Grit 220 / 60 µm	black		<b>0 415 000</b>
	Grit 270 / 50 µm	grey		<b>0 415 001</b>
	Grit 320 / 40 µm	red		<b>0 415 002</b>
	Grit 400 / 30 µm	green		<b>0 415 003</b>
	Grit 600 / 15 µm	orange		<b>0 415 004</b>
	Grit 800 / 14 µm	yellow		<b>0 415 005</b>
	Grit 1000 / 12 µm	white		<b>0 415 006</b>
	Grit 1200 / 9 µm	blue		<b>0 415 007</b>

### Accessories / spare parts

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

# Micro grinding strip holders and strips

↓ matching set




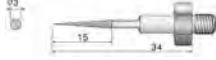
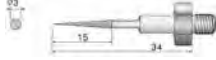
	Order No.	Price from		
		1 set	3 set	5 set
<b>Micro grinding strip holders and strips</b>				
	<b>0 415 020</b> Contents: 24-piece, 4 holders incl. grinding strip (grit size 220, 270, 320, 400), 16 replacement strips (4 x grit size 220, 270, 320, 400 each)			
	<b>0 415 021</b> Contents: 24-piece, 4 holders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






## 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	
<b>Diamond tools for ultrasonic processing</b>							
<b>flat</b>							
	4 x 1 x 15 mm	44 mm	200	M6/fine	<b>0 006 450</b>		
		44 mm	320	M6/fine	<b>0 006 451</b>		
		44 mm	600	M6/fine	<b>0 006 452</b>		
		5 x 1 x 40 mm	37 mm	200	M4	<b>0 405 782</b>	
			37 mm	320	M4	<b>0 405 794</b>	
			37 mm	600	M4	<b>0 405 795</b>	
	4 x 0.4/0.8 x 15 mm	137 mm	320	M6/fine	<b>0 006 454</b>		
		137 mm	600	M6/fine	<b>0 006 455</b>		
		<b>flat / conical</b>					
	Ø 3 x 15 mm	44 mm	200	M4	<b>0 405 783</b>		
		44 mm	320	M4	<b>0 405 815</b>		
		50 mm	200	M6/fine	<b>0 006 456</b>		
		50 mm	320	M6/fine	<b>0 006 457</b>		
		50 mm	600	M6/fine	<b>0 006 458</b>		
<b>round/pointed</b>							
	Ø 3 x 15 mm	34 mm	200	M4	<b>0 405 786</b>		
		34 mm	320	M4	<b>0 405 787</b>		

## Diamond tools for ultrasonic processing metal bonding – sintered

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

## 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 223
- Tool holder page 320

## Wooden and brass polishing sticks

	Material	Shape	Dimensions	Packing quantity	Order No.	Price from 1 pack
<b>Wooden and brass polishing sticks</b>						
	hard beech wood	round / cylinder	Ø 3 x 40 mm	10 pieces	<b>0 006 611</b>	
		flat	6 x 3 x 40 mm	10 pieces	<b>0 006 612</b>	
	brass	round / cylinder	Ø 3 x 40 mm	5 pieces	<b>0 006 614</b>	

## 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.

Tool support	Profile	Thread	Order No.	Price from 1 piece
<b>Tool holder for receiving round tools</b>				
	d = Ø 2 mm	round	M6/fine	<b>0 006 305</b>
	d = Ø 3 mm	squared	M6/fine	<b>0 006 306-E</b>
	d = Ø 2 mm	round	M4	<b>0 405 740</b>
	d = Ø 3 mm	round	M4	<b>0 405 746</b>
	d = Ø 2 mm	round	M6	<b>0 405 750</b>
	d = Ø 3 mm	round	M6	<b>0 405 751</b>
	d = Ø 2 mm	squared	M6 x 0.75	<b>0 405 761</b>
	d = Ø 3 mm	squared	M6 x 0.75	<b>0 405 762</b>



## Tool holder for ultrasonic tools for round and flat tools

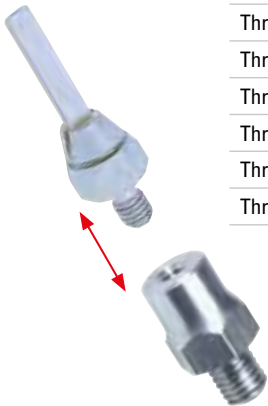
These holders provide a firm grip for all flat ultrasonic tools, such as ceramic-fibre files or brass sticks.

Zeichnung	Tool support	Profile	Thread	Order No.	Price from 1 piece
<b>Tool holder for receiving flat tools</b>					
	t = 0.5 mm	squared	M4	<b>0 405 742</b>	
	t = 1 mm	squared	M4	<b>0 405 743</b>	
	t = 2 mm	squared	M4	<b>0 405 744</b>	
	t = 3 mm	squared	M4	<b>0 405 745</b>	
	t = 0.5 mm	squared	M6	<b>0 405 752</b>	
	t = 1 mm	squared	M6	<b>0 405 753</b>	
	t = 2 mm	squared	M6	<b>0 405 754</b>	
	t = 3 mm	squared	M6	<b>0 405 755</b>	
	t = 0.5 mm	squared	M6 x 0.75	<b>0 405 764</b>	
	t = 0.8 mm	squared	M6 x 0.75	<b>0 405 765</b>	
	t = 1 mm	squared	M6 x 0.75	<b>0 405 766</b>	
	t = 2 mm	squared	M6 x 0.75	<b>0 405 767</b>	
	t = 3 mm	squared	M6 x 0.75	<b>0 405 768</b>	
	t = 0.8 mm	squared	M6/fine	<b>0 006 309</b>	
	t = 1 mm	round	M6/fine	<b>0 006 310</b>	
		squared	M6/fine	<b>0 006 310-E</b>	
t = 2 mm	squared	M6/fine	<b>0 006 311</b>		
t = 3 mm	squared	M6/fine	<b>0 006 312</b>		

## 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
<b>Adapters for receiving ultrasonic tools</b>				
Thread M4	squared	M6		<b>0 405 757</b>
Thread M6/fine	squared	M6		<b>0 405 758</b>
Thread M4		M6 x 0.75		<b>0 405 769</b>
Thread M6/fine		M6 x 0.75		<b>0 405 770</b>
Thread M4		M8 x 1		<b>0 405 780</b>
Thread M6/fine		M8 x 1		<b>0 405 781</b>
Thread M4		M6/fine		<b>0 006 900</b>



### Overview of thread designs of common ultrasonic polishing systems

<b>M 4</b>	e. g. Ultramax UM 2000, Sonofile SF 1000
<b>M 6</b>	e. g. joke 226, UC 550, Roya
<b>M 6/fine (M 6 x 0.9)</b>	ENESKAsonic, ENESKA 2-1
<b>M 6 x 0.75</b>	e. g. Ultramax DF and SF, Ultraform UF 5600 and 2600, Sonotec SF-5600 and SF 2600
<b>M 8 x 1</b>	e. g. Laptron, Ultramax UM 1200