

Diamond and CBN tools

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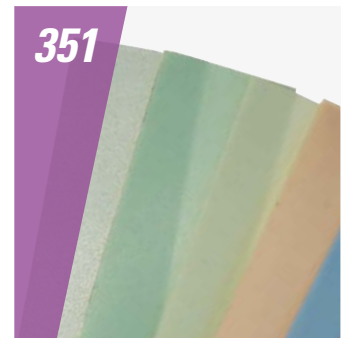
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Diamond and CBN tools

Interesting facts

Diamond and CBN tools are available in galvanic, resin, metal or the new vacuum-brazed bonding.

Galvanic bonding

With this type of bonding, the diamond or boron nitride grain is bonded to the carrier by galvanisation. The coating is applied in layers, the thickness of which is dictated by the grit size. In special cases, however, several layers may also be applied. In galvanic bonding, the abrasive grits project to a relatively high degree from the bonding. The cutting action of these tools is highly effective and allows high cutting rates. This bonding allows economical and rapid manufacture of special tools. The worn grinding tool can be recoated.

Applications

Diamond: Tungsten carbide and tungsten carbide green blanks, glass-fibre reinforced (GFR) plastics, carbon fibre reinforced (CFR) plastics, duroplastics and thermoplastics, electrocarbon ferrite, graphite, glass and rubber.

CBN: High speed steels, hardened steels, high alloy steels.

Cutting speed:

Approximately 20 – 60 m/sec.

Resin bonding

In resin bonding, the diamond or boron nitride grit is densely compacted over the entire coating. Synthetic materials with different properties are used as binders. The number of grit particles distributed over the abrasive coating depends on the concentration. This bonding is characterised by a low grinding temperature and high stock removal. It has established itself for tool grinding applications. It allows a high surface quality to be obtained.

Concentration

C50 and C75 as standard

Applications

Tungsten carbide (diamond), high-speed steel, tool steel (CBN).

Cutting speed

Approximately 10 – 40 m/sec.

Metal bonding

The abrasive coating in this type of bonding consists of a mixture of metal powder and diamond or boron nitride grit. Grinding tools with metal bonding are manufactured by sintering. The high degree of hardness of the metal bonding renders the tool very resistant to wear, but does not achieve the same cutting effectiveness as the other bonding systems.

Concentration

C100 as standard

Applications

Ceramic materials, glass, profile grinding of tungsten carbide, ferrite (diamond).

Cutting speed

Approximately 10 – 30 m/sec.

Vacuum-brazed bonding

With this bonding type, the abrasive grits are directly fused to the carrier. The adhesion of the grits can thus be greatly improved. The grain protrusion results in very high stock removal.

Applications

These tools are particularly suited for glass fibre-reinforced and carbon-fibre reinforced plastics (in aircraft construction and shipbuilding), tungsten carbide green blanks (unsintered carbide metal), ceramics (i.e. valve coverings for car engines), carbon products (i.e. brake discs, carbon brushes) and cast materials.

Cutting speed

Approximately 20 – 40 m/sec.



Grits

FEPA standard		U. S. standard mesh		Grit size (micron)	
tight	loose	tight	loose		
D 1181		16/18		1180 - 1000	↑ coarse ↓ fine
	D 1182		16/20		
D 1001		18/20		1000 - 850	
	D 852		20/30		
D 851		20/25		850 - 710	
D 711		25/30		710 - 600	
	D 602		30/40		
D 601		30/35		600 - 500	
D 501		35/40		500 - 425	
	D 427		40/50		
D 426		40/45		425 - 355	
D/B 356		45/50		355 - 300	
D/B 301		50/60		300 - 250	
	D/B 252		60/80		
D/B 251		60/70		250 - 212	
D/B 213		70/80		212 - 180	
D/B 181		80/100		180 - 150	
D/B 151		100/120		150 - 125	
D/B 126		120/140		125 - 106	
D/B 107		140/170		106 - 90	
D/B 91		170/200		90 - 75	
D/B 76		200/230		75 - 63	
D/B 64		230/270		63 - 53	
D/B 54		270/325		53 - 45	
D/B 46		325/400		45 - 38	
D/B 30		500/600		20 - 40	
D/B 15		1200		9 - 18	

Diamond and CBN tools

Interesting facts

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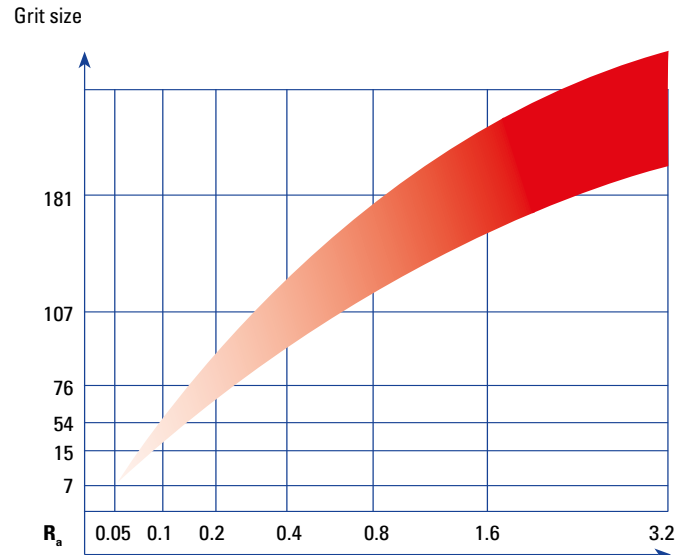


Max. speed depending on cutting speed and tool diameter

Ø	10	15	20	25	30
mm	m/s	m/s	m/s	m/s	m/s
1	191,083	286,624	382,166	477,707	573,248
2	95,554	143,312	191,083	238,854	286,624
3	63,694	95,541	127,389	159,236	191,083
4	47,771	71,656	95,541	119,427	143,312
5	38,217	57,325	76,433	95,541	114,650
6	31,847	47,771	63,694	79,618	95,541
7	27,298	40,946	54,595	68,244	81,893
8	23,885	35,828	47,771	59,713	71,656
10	19,108	28,662	38,217	47,771	57,325
12	15,924	23,885	31,847	39,809	47,771
15	12,739	19,108	25,478	31,847	38,217
18	10,616	15,924	21,231	26,539	31,847
20	9,554	14,331	19,108	23,885	28,662
30	6,300	9,500	12,700	15,900	19,000
40	4,800	7,200	9,600	11,900	14,300
50	3,800	5,700	7,600	9,500	11,400
75	2,500	3,800	5,100	6,400	7,700
100	1,900	2,900	3,800	4,800	5,700
125	1,500	2,300	3,000	3,800	4,600
150	1,260	1,800	2,500	3,200	3,800
175	1,080	1,600	2,200	2,700	3,300
200	950	1,400	1,900	2,400	2,900
250	750	1,150	1,500	1,900	2,300
300	640	950	1,300	1,600	1,900

Grit/roughness ratio (for grinding discs with resin bonding)

The table opposite shows the approximate possible surface roughness values that can be achieved with the various grits. The surface roughness is heavily influenced not only by the grit, but also by the grinding conditions, e.g. machine rigidity.



Diamond and boron nitride abrasives

Diamond and boron nitride are the hardest abrasives in the world. They are far harder in comparison to conventional abrasives such as corundum and silicon carbide. Diamonds exist in natural and synthetic form though synthetic diamonds are almost exclusively used today. Boron nitride exists only in synthetic form.

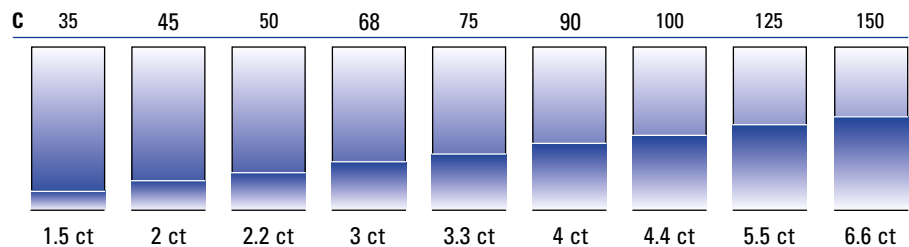
Diamonds consist of carbon and are excellent for grinding short-chipping materials. Owing to the fact that the carbon in diamond is incompatible with the carbon contained in steel, diamonds are unsuitable for steel processing.

Boron nitride contains no carbon and is optimally suitable for grinding different types of steel. The high level of hardness of diamond and boron nitride offers a number of advantages, such as a long service life, precise reproduction of shape and exact dimensions during the machining process.

Concentration (for grinding discs with resin and metal bonding)

The concentration is indicated in carat/cm³. This value represents the ratio between the weight of the diamond/boron nitride and the coating volume. Three concentrations are generally proposed: C50, C75 and C100. The concentration C75 contains 3.3 carat per cm³ grinding layer.

1 carat = 0.2 g



Diamond and CBN grinding points

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shank Ø 1.6 mm

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shank Ø 2.35 mm

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vacuum brazed

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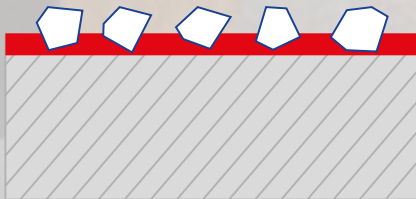
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and discs

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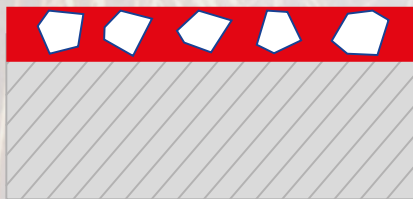
Diamond and CBN grinding points are available in four different bonding types. The standard is **galvanic bonding**, in which a layer of abrasive is “applied” to the base material. In addition, we offer tools with a **metal or resin bonding**, in which the diamond grits are completely embedded in the bonding. Finally, **vacuum brazed bonding**, in which the grit is directly welded to the base material – for even better service lives and maximum cutting efficiency:

Galvanic bonding



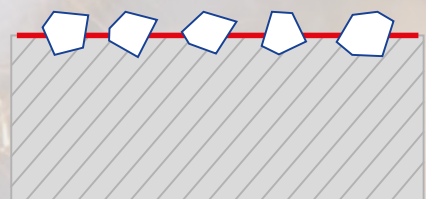
Abrasive is “applied” in a layer of nickel.

Metal/resin bonding



The diamonds are completely embedded in the bonding.

Vacuum-brazed bonding



The grit is directly welded to the base material.

Precision diamond grinding points






shank Ø 1.6 mm

Precision diamond grinding points

These points are the perfect partner for our high-speed handpiece P 320 and the handpieces of the ENESKAmicro series.

Areas of use:

- Casting alloys
- Precious metal alloys
- Ceramic
- Plastics

	Head dimensions	Shank Ø x total length	Grit size	Packing quantity	Order No.	Price from 1 piece
Precision diamond grinding points, galvanic bonding, shank Ø 1.6 mm						
cylinder						
	Ø 1 x 4 mm	Ø 1.6 x 19 mm	D 46	5 pieces	0 560 585-S	3.13 €
		Ø 1.6 x 19 mm	D 126	5 pieces	0 560 575-S	3.13 €
	Ø 1.4 x 8 mm	Ø 1.6 x 19 mm	D 46	5 pieces	0 560 586-S	3.13 €
	Ø 1.8 x 8 mm	Ø 1.6 x 19 mm	D 126	5 pieces	0 560 576-S	3.13 €
rounded cylinder						
	Ø 1 x 4 mm	Ø 1.6 x 19 mm	D 126	5 pieces	0 560 557-S	3.13 €
	Ø 1.4 x 8 mm	Ø 1.6 x 19 mm	D 46	5 pieces	0 560 587-S	3.13 €
		Ø 1.6 x 19 mm	D 126	5 pieces	0 560 577-S	3.13 €
sphere						
	Ø 0.9 mm	Ø 1.6 x 19 mm	D 46	5 pieces	0 560 580-S	3.13 €
		Ø 1.6 x 19 mm	D 126	5 pieces	0 560 570-S	3.13 €
	Ø 1.6 mm	Ø 1.6 x 19 mm	D 46	5 pieces	0 560 581-S	3.13 €
		Ø 1.6 x 19 mm	D 126	5 pieces	0 560 571-S	3.13 €
	Ø 1.8 mm	Ø 1.6 x 19 mm	D 46	5 pieces	0 560 590-S	3.13 €
	Ø 2.1 mm	Ø 1.6 x 19 mm	D 46	5 pieces	0 560 582-S	3.82 €
		Ø 1.6 x 19 mm	D 126	5 pieces	0 560 572-S	3.82 €
pear						
	Ø 1 x 2 mm	Ø 1.6 x 19 mm	D 46	5 pieces	0 560 584-S	3.13 €
		Ø 1.6 x 19 mm	D 126	5 pieces	0 560 574-S	3.13 €
round cone						
	Ø 1.2 x 10 mm	Ø 1.6 x 19 mm	D 46	5 pieces	0 560 588-S	3.13 €
		Ø 1.6 x 19 mm	D 126	5 pieces	0 560 578-S	3.13 €
	Ø 1.6 x 10 mm	Ø 1.6 x 19 mm	D 46	5 pieces	0 560 589-S	3.13 €
		Ø 1.6 x 19 mm	D 126	5 pieces	0 560 579-S	3.13 €



Recommendations for the use of these precision grinding points?


- Always observe recommended rotation speed
- Avoid excess grinding pressure
- Bring grinding tools to working speed before use
- Do not use damaged and/or blunt tools
- Avoid tilting and leverage




Which speed for which tool diameter?

Working Ø of the tool	Max. perm. rpm	Recommended rpm
0,7 – 1 mm	450.000 1/min	100.000 – 200.000 1/min
1,2 – 1,4 mm	450.000 1/min	70.000 – 220.000 1/min
1,6 – 1,8 mm	450.000 1/min	55.000 – 160.000 1/min
2,1 – 2,3 mm	300.000 1/min	40.000 – 120.000 1/min
2,5 – 2,7 mm	160.000 1/min	35.000 – 110.000 1/min
2,9 – 3,1 mm	140.000 1/min	30.000 – 95.000 1/min
3,3 – 4 mm	120.000 1/min	25.000 – 75.000 1/min
4,2 – 5 mm	95.000 1/min	15.000 – 60.000 1/min
5,5 – 7 mm	60.000 1/min	12.000 – 40.000 1/min
8,0 – 10 mm	45.000 1/min	10.000 – 20.000 1/min

Precision diamond grinding points shank Ø 1.6 mm





	Head dimensions	Shank Ø x total length	Grit size	Packing quantity	Order No.	Price from 1 piece
pointed cone 	Ø 1.2 x 8 mm	Ø 1.6 x 19 mm	D 46	5 pieces	0 560 595-S	3.13 €
		Ø 1.6 x 19 mm	D 126	5 pieces	0 560 598-S	3.13 €
	Ø 1.5 x 8 mm	Ø 1.6 x 19 mm	D 46	5 pieces	0 560 596-S	3.13 €
		Ø 1.6 x 19 mm	D 126	5 pieces	0 560 597-S	3.13 €

matching set

	Grit size	Order No.	Price from 1 set
Set (12) of diamond grinding points, shank-Ø 1.6 mm 	1 per grit respectively of the points listed above	D 46	0 560 505-S 42.65 €
	1 per grit respectively of the points listed above	D 126	0 560 504-S 42.65 €





Diamond grinding points DIPROFIL® shank Ø 2.35 mm

Vrecom. = 15 - 20 m/s (head-Ø > 10 mm Vmax. = 20 m/s) • max. extension length 25 mm

	Head dimensions	Collar dimensions	Angle	Radius	Shank Ø x total length	Grit size	Order No.	Price from 1 piece	10 pieces
DIPROFIL® diamond grinding points, galvanic bonding, shank Ø 2.35 mm									
cylinder									
	Ø 1.4 x 7 mm	Ø 1.1 x 9 mm			Ø 2.35 x 46 mm	D 107	0 560 740	12.30 €	10.15 €
	Ø 1.7 x 5 mm	Ø 1.4 x 6 mm			Ø 2.35 x 46 mm	D 151	0 560 739	12.30 €	10.15 €
	Ø 1.9 x 5 mm	Ø 1.7 x 6 mm			Ø 2.35 x 46 mm	D 151	0 560 737	12.55 €	10.30 €
	Ø 2.5 x 7 mm	Ø 2.2 x 13 mm			Ø 2.35 x 46 mm	D 151	0 560 735	14.60 €	11.85 €
sphere									
	Ø 0.8 mm	Ø 0.5 x 5 mm			Ø 2.35 x 46 mm	D 107	0 560 761	11.65 €	9.40 €
	Ø 1.3 mm	Ø 1 x 6 mm			Ø 2.35 x 46 mm	D 107	0 560 760	11.65 €	9.40 €
	Ø 1.7 mm	Ø 1 x 6 mm			Ø 2.35 x 46 mm	D 151	0 560 759	11.65 €	9.40 €
	Ø 1.9 mm	Ø 1.2 x 6 mm			Ø 2.35 x 46 mm	D 151	0 560 758	11.95 €	9.90 €
	Ø 2.5 mm	Ø 1.6 x 6 mm			Ø 2.35 x 46 mm	D 151	0 560 757	12.30 €	10.15 €
	Ø 3 mm	Ø 1.9 x 5 mm			Ø 2.35 x 42 mm	D 151	0 560 756	19.70 €	15.60 €
	Ø 4.1 mm	Ø 1.9 x 6 mm			Ø 2.35 x 43 mm	D 151	0 560 755	20.40 €	16.00 €
round cone									
	Ø 1.3 / 0.7 x 9 mm		4°		Ø 2.35 x 46 mm	D 151	0 560 786	13.50 €	10.95 €
	Ø 1.6 / 0.8 x 9 mm		5°		Ø 2.35 x 46 mm	D 151	0 560 785	14.25 €	11.60 €
	Ø 1.9 / 1.1 x 9 mm		5°		Ø 2.35 x 46 mm	D 151	0 560 784	15.40 €	12.45 €
pointed cone									
	Ø 4.3 x 2.7 mm		80°		Ø 2.35 x 42 mm	D 151	0 560 781	24.60 €	18.15 €
	Ø 5.1 x 9.5 mm		27°		Ø 2.35 x 48 mm	D 151	0 560 780	31.10 €	24.95 €
	Ø 7.3 x 6 mm		60°		Ø 2.35 x 46 mm	D 151	0 560 779	33.25 €	27.10 €





Diamond grinding points DIPROFIL® shank Ø 2.35 mm

Vrecom. = 15 - 20 m/s (head-Ø > 10 mm Vmax. = 20 m/s) • max. extension length 25 mm

	Head dimensions	Collar dimensions	Angle	Radius	Shank Ø x total length	Grit size	Order No.	Price from	
								1 piece	10 pieces
wheel									
	Ø 9 / 7 x 0.6 mm				Ø 2.35 x 40 mm	D 151	0 560 725	31.40 €	25.15 €
	Ø 12.9 / 9.5 x 1.4 mm				Ø 2.35 x 46 mm	D 151	0 560 724	48.30 €	39.10 €
	Ø 20 / 12.75 x 1 mm				Ø 2.35 x 45 mm	D 151	0 560 723	53.45 €	43.30 €
rounded wheel									
	Ø 9.8 x 3.4 mm			1.5 mm	Ø 2.35 x 41 mm	D 151	0 560 732	36.00 €	29.25 €
wheel with front screw									
	Ø 15 / 13 x 0.6 mm				Ø 2.35 x 45 mm	D 151	0 560 704	40.40 €	32.70 €
	Ø 18 / 16 x 0.6 mm				Ø 2.35 x 45 mm	D 151	0 560 703	40.90 €	33.05 €
	Ø 20 / 18 x 0.6 mm				Ø 2.35 x 45 mm	D 151	0 560 702	41.25 €	33.25 €
	Ø 22 / 20 x 0.6 mm				Ø 2.35 x 45 mm	D 151	0 560 701	41.55 €	33.35 €
tree with pointed end									
	Ø 1.3 x 4 mm			18 mm	Ø 2.35 x 46 mm	D 151	0 560 775	11.65 €	9.40 €
	Ø 1.6 x 7.5 mm			45 mm	Ø 2.35 x 46 mm	D 151	0 560 774	14.05 €	11.40 €
	Ø 2.4 x 7.5 mm			30 mm	Ø 2.35 x 46 mm	D 151	0 560 772	14.60 €	11.85 €
	Ø 2.4 x 10 mm			30 mm	Ø 2.35 x 46 mm	D 151	0 560 771	15.40 €	12.45 €

Precision diamond grinding points shank Ø 2.35 mm

Vrecom. = 15 - 20 m/s • max. extension length = 0.5 x L

	Head dimensions	Angle	Shank Ø x total length	Grit size	Order No.	Price from	
						1 piece	5 pieces
Diamond grinding points, galvanic bonding, shank Ø 2.35 mm							
sphere							
	Ø 1.0 mm		Ø 2.35 x 44.5 mm	D 126	0 560 260HP	8.65 €	7.70 €
	Ø 1.8 mm		Ø 2.35 x 44.5 mm	D 126	0 560 261HP	8.65 €	7.70 €
	Ø 2.9 mm		Ø 2.35 x 44.5 mm	D 126	0 560 263HP	8.65 €	7.70 €
	Ø 5.0 mm		Ø 2.35 x 44.5 mm	D 126	0 560 257HP	14.60 €	11.55 €
round cone							
	Ø 3.4 / 2.6 x 9.2 mm		Ø 2.35 x 44.5 mm	D 126	0 560 276HP	16.95 €	15.10 €
pointed cone							
	Ø 2.5 x 6.9 mm	20°	Ø 2.35 x 44.5 mm	D 126	0 560 281HP	13.15 €	11.50 €
tree with pointed end							
	Ø 2.2 x 9 mm		Ø 2.35 x 44.5 mm	D 126	0 560 275HP	13.15 €	11.50 €

Diamond grinding point sets

Diamond grinding point sets

With these sets, you will always have the right diamond grinding point at hand – at an unbeatable price.

Grit size D 107 for head Ø up to 2.5 mm

Grit size D 126 for head Ø more than 2.5 mm

	Order No.	Price from 1 set
Diamond grinding point set (30 pieces), shank Ø 2.35 mm		



The set contains 30 diamond grinding points in spherical, trapezium, pointed cone, rounded cone, tree with pointed end, flame, lens and wheel shapes.

0 403 554 96.50 €

	Order No.	Price from 1 set
Diamond grinding point set (30 pieces), shank Ø 3 mm		



The set contains 30 diamond grinding points in cylinder, rounded cylinder, sphere, trapezium, rounded cone, tree with pointed end and pointed cone shapes.

0 403 551 71.55 €

Diamond flap wheels for hard and brittle material

NEW!



Diamond flap wheels

The flap wheels coated with diamonds are used with hard and brittle materials. Ideally suited for carbide, ceramic, hard coatings, glass, granite, etc., etc. ... The flexible flaps adapt to the contour of the workpiece and thus enable elastic grinding.

The flap wheels are available in grit sizes 100, 200, 400, 600 and 800.




coated with diamonds



	Head dimensions	Grit size	Shank dimensions	Order No.	Price from	
					1 piece	10 pieces
Diamond flap wheels, shank-Ø 3 mm						
	Ø 15 x 10 mm	200	Ø 3 x 40 mm	0 560 006	27.20 €	25.05 €
		600	Ø 3 x 40 mm	0 560 009	27.20 €	25.05 €
	Ø 25 x 10 mm	100	Ø 3 x 40 mm	0 560 013	41.00 €	38.65 €
		800	Ø 3 x 40 mm	0 560 020	41.00 €	38.65 €



Diamond cut-off discs DIPROFIL® for shank mounting • shank Ø 2.35 and 3 mm



	Dimensions	Drilling dimension	Grit size	Order No.	Price from	
					1 piece	5 pieces
Diamond cut-off discs DIPROFIL®, galvanic bonding						
	Ø 20 x 0.4 mm	2.5 mm	D 107	0 560 652	39.30 €	31.40 €
	Ø 20 x 0.6 mm	2.5 mm	D 151	0 560 653	39.30 €	31.40 €
	Ø 20 x 0.8 mm	2.5 mm	D 151	0 560 654	39.30 €	31.40 €
	Ø 20 x 1 mm	2.5 mm	D 151	0 560 655	39.30 €	31.40 €
	Ø 22 x 0.6 mm	2.5 mm	D 151	0 560 656	44.00 €	35.20 €
	Ø 25 x 0.8 mm	2.5 mm	D 151	0 560 657	47.20 €	37.75 €
	Ø 36 x 1 mm	2.5 mm	D 151	0 560 658	53.85 €	43.10 €

Accessories / spare parts

		Shank dimensions	Order No.	Price from	
				1 piece	5 pieces
Cut-off disc receptacles DIPROFIL®					
	hardened stainless steel, thread M 2.5	Ø 2.35 x 37 mm	0 560 665	22.25 €	17.75 €
	hardened stainless steel, thread M 2.5	Ø 3 x 37 mm	0 560 666	22.25 €	17.75 €









Diamond grinding points DIPROFIL® shank Ø 3 mm

Vrecom. = 15 - 20 m/s (head-Ø > 10 mm Vmax. = 20 m/s) • max. extension length 25 mm

	Head dimensions	Collar dimensions	Angle	Radius	Shank Ø x total length	Grit size	Order No.	Price from		
								1 piece	5 pieces	
DIPROFIL® diamond grinding points, galvanic bonding, shank Ø 3 mm										
cylinder										
	Ø 0.8 x 4 mm	Ø 0.5 x 7 mm			Ø 3 x 46 mm	D 107	0 560 671	14.35 €	12.80 €	
	Ø 1 x 4 mm	Ø 0.6 x 8 mm			Ø 3 x 46 mm	D 107	0 560 672	14.35 €	12.80 €	
	Ø 1.5 x 4 mm	Ø 1.2 x 10 mm			Ø 3 x 46 mm	D 107	0 560 673	14.35 €	12.80 €	
	▣ Ø 2 x 5 mm	Ø 1.6 x 14 mm			Ø 3 x 46 mm	D 151	0 560 674	14.35 €	12.80 €	
	▣	Ø 1.6 x 14 mm			Ø 3 x 46 mm	D 64	0 560 674-1	14.35 €	12.80 €	
	Ø 2.5 x 5 mm	Ø 2.1 x 19 mm			Ø 3 x 46 mm	D 151	0 560 675	15.10 €	13.45 €	
	Ø 2.5 x 7 mm	Ø 2.1 x 19 mm			Ø 3 x 46 mm	D 151	0 560 628	15.80 €	12.85 €	
	▣ Ø 3 x 5 mm	Ø 2.6 x 21 mm			Ø 3 x 46 mm	D 64	0 560 676-1	16.55 €	14.90 €	
	▣	Ø 2.6 x 21 mm			Ø 3 x 46 mm	D 151	0 560 676	16.55 €	14.90 €	
	Ø 3.5 x 5 mm				Ø 3 x 50 mm	D 151	0 560 677	21.85 €	19.80 €	
	Ø 4 x 5 mm				Ø 3 x 50 mm	D 151	0 560 678	22.25 €	20.20 €	
	Ø 5 x 6 mm				Ø 3 x 50 mm	D 151	0 560 680	26.15 €	23.30 €	
	Ø 6 x 10 mm				Ø 3 x 49 mm	D 151	0 560 603	30.80 €	24.85 €	
	rounded cylinder									
		Ø 6 x 10 mm			3 mm	Ø 3 x 49 mm	D 151	0 560 614	35.00 €	27.90 €

Diamond grinding points DIPROFIL® shank Ø 3 mm



Vrecom. = 15 - 20 m/s (head-Ø > 10 mm Vmax. = 20 m/s) • max. extension length 25 mm

	Head dimensions	Collar dimensions	Angle	Radius	Shank Ø x total length	Grit size	Order No.	Price from	
								1 piece	5 pieces
sphere									
	Ø 1.7 mm	Ø 1 x 5 mm			Ø 3 x 46 mm	D 64	0 560 637-1	12.45 €	10.15 €
		Ø 1 x 5 mm			Ø 3 x 46 mm	D 151	0 560 637	11.65 €	9.40 €
	Ø 2.1 mm	Ø 1.3 x 6 mm			Ø 3 x 46 mm	D 151	0 560 636	11.95 €	9.90 €
	Ø 2.5 mm	Ø 1.5 x 6 mm			Ø 3 x 46 mm	D 151	0 560 635	12.30 €	10.15 €
	Ø 3 mm	Ø 1.5 x 6 mm			Ø 3 x 46 mm	D 151	0 560 634	13.05 €	10.90 €
		Ø 1.5 x 6 mm			Ø 3 x 46 mm	D 64	0 560 634-1	14.05 €	11.40 €
	Ø 4.1 mm	Ø 1.8 x 7 mm			Ø 3 x 46 mm	D 151	0 560 633	19.90 €	16.00 €
	Ø 5 mm				Ø 3 x 46 mm	D 151	0 560 651	28.95 €	23.10 €
Ø 6 mm				Ø 3 x 46 mm	D 151	0 560 601	26.55 €	21.45 €	
round cone									
	Ø 1.3 / 0.7 x 9 mm		4°		Ø 3 x 46 mm	D 151	0 560 650	13.50 €	10.95 €
	Ø 1.6 / 0.8 x 9 mm		5°		Ø 3 x 46 mm	D 151	0 560 649	14.25 €	11.60 €
	Ø 1.9 / 1.1 x 9 mm		5°		Ø 3 x 46 mm	D 64	0 560 648-1	15.30 €	12.30 €
				5°		Ø 3 x 46 mm	D 151	0 560 648	15.30 €
pointed cone									
	Ø 3.1 x 5 mm	Ø 1.8 x 7 mm	30°		Ø 3 x 46 mm	D 64	0 560 647-1	20.20 €	16.20 €
		Ø 1.8 x 7 mm	30°		Ø 3 x 46 mm	D 151	0 560 647	20.20 €	16.20 €
	Ø 7 x 10 mm		30°		Ø 3 x 49 mm	D 151	0 560 612	36.60 €	29.35 €
	Ø 8 x 3.9 mm		90°		Ø 3 x 43 mm	D 151	0 560 609	32.30 €	25.75 €
	Ø 8 x 6.6 mm		60°		Ø 3 x 46 mm	D 151	0 560 610	32.60 €	26.55 €
	Ø 8 x 8.5 mm		45°		Ø 3 x 47 mm	D 151	0 560 607	34.25 €	27.80 €
cone									
	Ø 1.6 / 0.9 x 10 mm		4°		Ø 3 x 46 mm	D 151	0 560 632	14.25 €	11.60 €
	Ø 2.1 / 1.4 x 10 mm		4°		Ø 3 x 46 mm	D 151	0 560 630	16.00 €	12.75 €
	Ø 2.6 / 1.75 x 7 mm		4°		Ø 3 x 46 mm	D 151	0 560 629	15.40 €	12.45 €
lens									
	Ø 4.1 x 1.3 mm	Ø 1.8 x 5 mm		60 mm	Ø 3 x 48 mm	D 151	0 560 646	25.35 €	20.40 €
	Ø 9.3 x 1.3 mm			75 mm	Ø 3 x 41 mm	D 151	0 560 645	33.95 €	27.40 €
wheel									
	Ø 7.3 x 0.8 mm				Ø 3 x 40 mm	D 151	0 560 625	31.10 €	24.95 €
	Ø 9 / 7 x 0.6 mm				Ø 3 x 40 mm	D 151	0 560 624	30.75 €	24.50 €
	Ø 17.2 / 14.6 x 2.4 mm				Ø 3 x 48 mm	D 151	0 560 622	50.55 €	41.00 €
	Ø 20 / 12.75 x 1 mm				Ø 3 x 48 mm	D 151	0 560 623	51.30 €	41.45 €
rounded wheel									
	Ø 5.8 x 2.3 mm			1 mm	Ø 3 x 41 mm	D 151	0 560 627	26.35 €	21.15 €
	Ø 9.8 x 3.4 mm			1.5 mm	Ø 3 x 42 mm	D 151	0 560 626	34.25 €	27.50 €
wheel with front screw									
	Ø 22 / 20 x 0.6 mm				Ø 3 x 48 mm	D 151	0 560 620	41.55 €	33.35 €


Diamond grinding points DIPROFIL®

shank Ø 3 mm

Vrecom. = 15 - 20 m/s (head-Ø > 10 mm Vmax. = 20 m/s) • max. extension length 25 mm

	Head dimensions	Collar dimensions	Angle	Radius	Shank Ø x total length	Grit size	Order No.	Price from	
								1 piece €	5 pieces €
wheel, front coated with front screw									
	Ø 22 / 7 x 0.35 mm				Ø 3 x 48 mm	D 151	0 560 621	41.25 €	33.25 €
tree with pointed end									
	Ø 1.6 x 7.5 mm			45 mm	Ø 3 x 46 mm	D 151	0 560 644	14.05 €	11.40 €
	Ø 1.6 x 10 mm			45 mm	Ø 3 x 46 mm	D 64	0 560 643-1	15.00 €	12.00 €
				45 mm	Ø 3 x 46 mm	D 151	0 560 643	15.00 €	12.00 €
	Ø 2.4 x 7.5 mm			30 mm	Ø 3 x 46 mm	D 151	0 560 642	15.00 €	12.00 €
	Ø 2.4 x 10 mm			30 mm	Ø 3 x 46 mm	D 64	0 560 641-1	15.60 €	12.55 €
				30 mm	Ø 3 x 46 mm	D 151	0 560 641	15.60 €	12.55 €
	Ø 6 x 10 mm			17 mm	Ø 3 x 49 mm	D 151	0 560 602	35.00 €	27.90 €
barrel									
	Ø 7 x 10 mm			10 mm	Ø 3 x 49 mm	D 151	0 560 616	38.25 €	30.65 €
trapeze									
	Ø 2.4 x 3 mm	Ø 1.5 x 7 mm	20°		Ø 3 x 46 mm	D 151	0 560 638	14.60 €	11.85 €
trapeze, outline coated									
	Ø 8 x 3 mm		90°		Ø 3 x 42 mm	D 151	0 560 604	34.25 €	27.80 €
drop									
	Ø 6 x 10 mm		20°	3 mm	Ø 3 x 49 mm	D 151	0 560 615	36.60 €	29.35 €










↓ matching set

	Grit size	Order No.	Price from 1 set
DIPROFIL® diamond grinding point set, 10 pieces			
	D 64	0 560 661	87.75 €
	D 151	0 560 660	87.75 €

The set contains diamond grinding points sphere, cylinder, tree with pointed end, cone, pointed cone, rounded cone and trapezium shapes.





Precision diamond grinding points shank Ø 3 mm

Vrecom. = 15 - 20 m/s • max. extension length = 0.5 x L

	Head dimensions	Angle	Shank Ø x total length	Grit size	Order No.	Price from	
						1 piece	5 pieces
Precision diamond grinding points,galvanic bonding, shank Ø 3 mm							
cylinder							
	Ø 1.6 x 4.6 mm		Ø 3 x 44.5 mm	D 126	0 560 271	10.65 €	9.20 €
	Ø 1.9 x 5 mm		Ø 3 x 44.5 mm	D 126	0 560 272	10.65 €	9.20 €
	Ø 2.5 x 5.2 mm		Ø 3 x 44.5 mm	D 126	0 560 273	10.65 €	9.20 €
	Ø 3.5 x 5.8 mm		Ø 3 x 44.5 mm	D 126	0 560 274	14.60 €	12.55 €
rounded cylinder							
	Ø 3 x 15 mm		Ø 3 x 40 mm	D 126	0 560 395	11.05 €	9.60 €
	Ø 4 x 10 mm		Ø 3 x 40 mm	D 126	0 560 396	11.35 €	9.90 €
	Ø 5 x 10 mm		Ø 3 x 40 mm	D 126	0 560 397	11.85 €	10.35 €
sphere							
	Ø 0.5 mm		Ø 3 x 40 mm	D 30	0 560 126	11.25 €	9.90 €
	Ø 0.6 mm		Ø 3 x 40 mm	D 54	0 560 127	11.25 €	9.90 €
	Ø 0.7 mm		Ø 3 x 40 mm	D 54	0 560 128	8.75 €	7.70 €
	Ø 0.8 mm		Ø 3 x 40 mm	D 91	0 560 129	8.75 €	7.70 €
	Ø 0.9 mm		Ø 3 x 40 mm	D 91	0 560 130	8.75 €	7.70 €
	Ø 1 mm		Ø 3 x 44.5 mm	D 126	0 560 260	8.65 €	7.70 €
	Ø 1.8 mm		Ø 3 x 44.5 mm	D 126	0 560 261	8.65 €	7.70 €
	Ø 2 mm		Ø 3 x 44.5 mm	D 126	0 560 262	8.65 €	7.70 €
	Ø 2.9 mm		Ø 3 x 44.5 mm	D 126	0 560 263	8.65 €	7.70 €
round cone							
	Ø 3.4 / 2.6 x 9.2 mm		Ø 3 x 44.5 mm	D 126	0 560 276	16.95 €	15.10 €
	Ø 6.5 x 10 mm		Ø 3 x 44.5 mm	D 126	0 560 613	31.80 €	23.50 €
pointed cone							
	Ø 2.5 x 6.9 mm	20°	Ø 3 x 44.5 mm	D 126	0 560 281	13.15 €	11.50 €
	Ø 3 x 14 mm	12°	Ø 3 x 40 mm	D 126	0 560 618	9.90 €	8.40 €
	Ø 5.1 x 4.3 mm		Ø 3 x 44.5 mm	D 126	0 560 282	13.15 €	11.50 €
	Ø 6 x 3 mm	90°	Ø 3 x 40 mm	D 126	0 560 619	11.25 €	9.80 €
cone							
	Ø 1.6 / 1 x 4.6 mm		Ø 3 x 44.5 mm	D 126	0 560 267	8.00 €	7.20 €
lens							
	Ø 6.1 x 2.3 mm		Ø 3 x 44.5 mm	D 126	0 560 280	13.15 €	11.50 €
wheel							
	Ø 5.3 x 0.8 mm		Ø 3 x 44.5 mm	D 126	0 560 277	10.10 €	8.60 €
	Ø 5.4 x 2 mm		Ø 3 x 44.5 mm	D 126	0 560 278	10.65 €	9.20 €
	Ø 6.4 x 2 mm		Ø 3 x 44.5 mm	D 126	0 560 279	13.15 €	11.50 €
wheel with front screw							
	Ø 22 / 8 x 0.22 mm		Ø 3 x 44.5 mm	D 76	0 560 711	16.00 €	14.60 €
	Ø 22 / 8 x 0.27 mm		Ø 3 x 44.5 mm	D 54	0 560 712	17.05 €	15.50 €
	Ø 22 / 8 x 0.3 mm		Ø 3 x 44.5 mm	D 107	0 560 288	27.20 €	24.10 €
	Ø 22 / 16 x 0.12 mm		Ø 3 x 44.5 mm	D 30	0 560 710	16.95 €	15.50 €
	Ø 22 / 16 x 0.3 mm		Ø 3 x 44.5 mm	D 76	0 560 287	27.30 €	24.10 €


Precision diamond grinding points shank Ø 3 mm

Vrecom. = 15 - 20 m/s • max. extension length = 0.5 x L

	Head dimensions	Angle	Shank Ø x total length	Grit size	Order No.	Price from	
						1 piece	5 pieces
tree with pointed end							
	Ø 2.2 x 9 mm		Ø 3 x 44.5 mm	D 126	0 560 275	13.15 €	11.50 €
trapeze							
	Ø 1.5 / 1.3 x 1.8 mm	10,7°	Ø 3 x 44.5 mm	D 126	0 560 264	8.00 €	7.20 €
	Ø 2.3 / 1.9 x 6.2 mm	5,3°	Ø 3 x 44.5 mm	D 126	0 560 266	13.15 €	11.60 €
	Ø 2.6 / 2.1 x 2.3 mm	10,7°	Ø 3 x 44.5 mm	D 126	0 560 265	8.00 €	7.20 €
trapeze, outline coated							
	Ø 6.2 / 3 x 3.1 mm	75°	Ø 3 x 44.5 mm	D 126	0 560 283	13.15 €	11.50 €
	Ø 8.2 / 3 x 4 mm	75°	Ø 3 x 44.5 mm	D 126	0 560 284	15.80 €	13.75 €
trapeze, front coated							
	Ø 6.4 / 3 x 2.3 mm	75°	Ø 3 x 44.5 mm	D 126	0 560 285	10.10 €	8.60 €
	Ø 9.4 / 3 x 4.5 mm	75°	Ø 3 x 44.5 mm	D 126	0 560 286	10.65 €	9.20 €

Diamond point DIATIP shank Ø 3 mm

The secret weapon for rib machining. Thanks to a long coating and small diameter, you can reach the deepest ribs. Erosion skin is easily torn open, erodible points removed safely. Less time is therefore needed during subsequent stages



	Coating dimensions	Angle	Shank Ø x total length	Grit size	Order No.	Price from	
						1 piece	
Diamond point DIATIP							
conical pointed							
	50 mm	2,5°	Ø 3 x 66 mm	D 126	0 560 998	15.80 €	

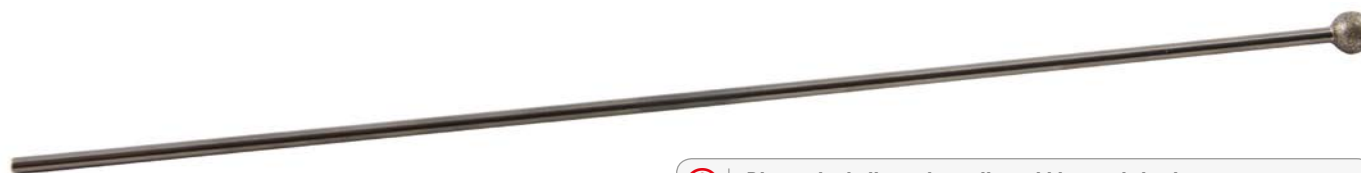


Diamond grinding points with carbide metal shank shank Ø 3 mm

Diamond grinding points with carbide metal shank
Extra long for special grinding tasks in deep bores etc.





	Head dimensions	Shank Ø x total length	Grit size	Order No.	Price from 1 piece
Diamond grinding points with carbide metal shank, galvanic bonding, shank Ø 3 mm					
cylinder					
	Ø 5 x 5 mm	Ø 3 x 78 mm	D 76	0 560 225	42.85 €
		Ø 3 x 78 mm	D 107	0 560 226	42.85 €
		Ø 3 x 78 mm	D 151	0 560 227	42.85 €
	Ø 6 x 6 mm	Ø 3 x 78 mm	D 76	0 560 228	42.85 €
		Ø 3 x 78 mm	D 107	0 560 229	42.85 €
		Ø 3 x 78 mm	D 151	0 560 230	42.85 €
	Ø 8 x 6 mm	Ø 3 x 78 mm	D 76	0 560 234	50.25 €
		Ø 3 x 78 mm	D 107	0 560 235	50.25 €
		Ø 3 x 78 mm	D 151	0 560 236	50.25 €
sphere					
	Ø 5 mm	Ø 3 x 77 mm	D 76	0 560 201	41.85 €
		Ø 3 x 77 mm	D 107	0 560 202	41.85 €
		Ø 3 x 77 mm	D 151	0 560 203	41.85 €
	Ø 6 mm	Ø 3 x 77 mm	D 76	0 560 204	41.85 €
		Ø 3 x 77 mm	D 107	0 560 205	41.85 €
		Ø 3 x 77 mm	D 151	0 560 206	41.85 €
	Ø 8 mm	Ø 3 x 77 mm	D 76	0 560 210	49.45 €
		Ø 3 x 77 mm	D 107	0 560 211	49.45 €
		Ø 3 x 77 mm	D 151	0 560 212	49.45 €



**Diamond grinding points with carbide metal shank
up to length 250 mm available!**



Diamond grinding points shank Ø 3 mm

Vrecom. wet = 15 - 25 m/s • Vrecom. dry = 10 - 20 m/s max. • max. extension length = 0.5 x L, shaft tolerance = h6, head tolerance = ± 0.2 mm

	Head dimensions	Collar dimensions	Shank Ø x total length	Grit size	Order No.	Price from	
						1 piece	5 pieces
Diamond grinding points, galvanic bonding, shank Ø 3 mm							
cylinder							
	Ø 0.4 x 2 mm	Ø 0.3 x 5 mm	Ø 3 x 46 mm	D 46	0 560 304	21.35 €	19.40 €
	Ø 0.5 x 2 mm	Ø 0.4 x 5 mm	Ø 3 x 46 mm	D 46	0 560 305	11.65 €	10.45 €
	Ø 0.5 x 3 mm	Ø 0.4 x 7 mm	Ø 3 x 50 mm	D 91	0 560 251	11.85 €	10.55 €
	Ø 0.6 x 2 mm	Ø 0.5 x 5 mm	Ø 3 x 46 mm	D 64	0 560 306	11.65 €	10.45 €
	Ø 0.6 x 3 mm	Ø 0.5 x 7 mm	Ø 3 x 50 mm	D 91	0 560 252	11.85 €	10.55 €
	Ø 0.8 x 2 mm	Ø 0.6 x 7 mm	Ø 3 x 46 mm	D 91	0 560 309	11.65 €	10.45 €
				D 126	0 560 308	11.65 €	10.45 €
	Ø 0.8 x 4 mm	Ø 0.6 x 10 mm	Ø 3 x 50 mm	D 91	0 560 253	10.10 €	8.70 €
	Ø 1 x 2 mm	Ø 0.7 x 7 mm	Ø 3 x 46 mm	D 91	0 560 311	10.10 €	8.60 €
				D 126	0 560 310	10.10 €	8.60 €
	Ø 1 x 5 mm	Ø 0.7 x 10 mm	Ø 3 x 55 mm	D 91	0 560 802	9.25 €	8.10 €
				D 126	0 560 801	9.25 €	8.10 €
	Ø 1.5 x 5 mm	Ø 1.2 x 12 mm	Ø 3 x 55 mm	D 91	0 560 316	10.10 €	8.60 €
				D 126	0 560 315	10.10 €	8.60 €
	Ø 2 x 5 mm	Ø 1.7 x 12 mm	Ø 3 x 55 mm	D 91	0 560 321	10.10 €	8.60 €
D 126				0 560 320	10.10 €	8.60 €	
D 181				0 560 319	10.10 €	8.60 €	
Ø 2.5 x 5 mm	Ø 2.2 x 16 mm	Ø 3 x 55 mm	D 91	0 560 326	10.10 €	8.60 €	
			D 126	0 560 325	10.10 €	8.60 €	
			D 181	0 560 324	10.10 €	8.60 €	
Ø 3 x 5 mm	Ø 2.7 x 16 mm	Ø 3 x 55 mm	D 91	0 560 331	10.10 €	8.60 €	
			D 126	0 560 330	10.10 €	8.60 €	
			D 181	0 560 329	10.10 €	8.60 €	
	Ø 3.5 x 5 mm	Ø 3 x 55 mm	D 91	0 560 336	11.25 €	10.00 €	
			D 126	0 560 335	11.25 €	10.00 €	
			D 181	0 560 334	11.25 €	10.00 €	
Ø 4 x 5 mm		Ø 3 x 55 mm	D 91	0 560 341	11.85 €	10.55 €	
			D 126	0 560 340	11.85 €	10.55 €	
			D 181	0 560 339	11.85 €	10.55 €	
Ø 5 x 6 mm		Ø 3 x 55 mm	D 91	0 560 351	13.45 €	11.80 €	
			D 126	0 560 350	13.45 €	11.80 €	
			D 181	0 560 349	13.45 €	11.80 €	
Ø 6 x 6 mm		Ø 3 x 55 mm	D 91	0 560 355	13.45 €	11.80 €	
			D 126	0 560 354	13.45 €	11.80 €	
			D 181	0 560 353	13.45 €	11.80 €	

Diamond grinding points shank Ø 3 mm

Vrecom. wet = 15 - 25 m/s • Vrecom. dry = 10 - 20 m/s max. • max. extension length = 0.5 x L, shaft tolerance = h6, head tolerance = ± 0.2 mm

	Head dimensions	Collar dimensions	Shank Ø x total length	Grit size	Order No.	Price from	
						1 piece	5 pieces
sphere							
	Ø 1 mm		Ø 3 x 45 mm	D 91	0 560 993	10.85 €	9.90 €
			Ø 3 x 45 mm	D 126	0 560 992	10.85 €	9.90 €
			Ø 3 x 45 mm	D 181	0 560 991	10.85 €	9.90 €
	Ø 1.5 mm		Ø 3 x 45 mm	D 91	0 560 993-5	10.85 €	9.90 €
			Ø 3 x 45 mm	D 126	0 560 992-5	10.85 €	9.90 €
			Ø 3 x 45 mm	D 181	0 560 991-5	10.85 €	9.90 €
	Ø 2 mm		Ø 3 x 45 mm	D 91	0 560 996	10.85 €	9.90 €
			Ø 3 x 45 mm	D 126	0 560 995	10.85 €	9.90 €
			Ø 3 x 45 mm	D 181	0 560 994	10.85 €	9.90 €
Ø 2.5 mm		Ø 3 x 45 mm	D 91	0 560 996-5	10.85 €	9.90 €	
		Ø 3 x 45 mm	D 126	0 560 995-5	10.85 €	9.90 €	
		Ø 3 x 45 mm	D 181	0 560 994-5	10.85 €	9.90 €	
Ø 3 mm		Ø 3 x 45 mm	D 91	0 560 913	10.85 €	9.90 €	
		Ø 3 x 45 mm	D 126	0 560 912	10.85 €	9.90 €	
		Ø 3 x 45 mm	D 181	0 560 911	10.85 €	9.90 €	
	Ø 4 mm		Ø 3 x 45 mm	D 91	0 560 916	15.80 €	13.95 €
			Ø 3 x 45 mm	D 126	0 560 915	15.80 €	14.15 €
			Ø 3 x 45 mm	D 181	0 560 914	15.80 €	13.95 €
Ø 5 mm		Ø 3 x 60 mm	D 91	0 560 919	16.45 €	14.90 €	
		Ø 3 x 60 mm	D 126	0 560 918	16.45 €	14.90 €	
		Ø 3 x 60 mm	D 181	0 560 917	16.45 €	14.90 €	
Ø 6 mm		Ø 3 x 40 mm	D 91	0 560 997	15.70 €	14.25 €	
		Ø 3 x 40 mm	D 126	0 560 990	15.70 €	14.25 €	
		Ø 3 x 40 mm	D 181	0 560 989	15.70 €	14.25 €	



Diamond grinding points solid tungsten carbide shank Ø 3 mm

Diamond grinding points, solid carbide metal

The diamond grinding points made from solid carbide metal convince through their high rigidity and the resulting precise true running. They are available in ascending increments of 1/10 mm with a head diameter from 0.4 to 3 mm.

! Suitable for every measurement!


These grinding points are available in increments of 1/10 mm between 0.4 and 3 mm diameter. You can be sure to find the right one for your application!

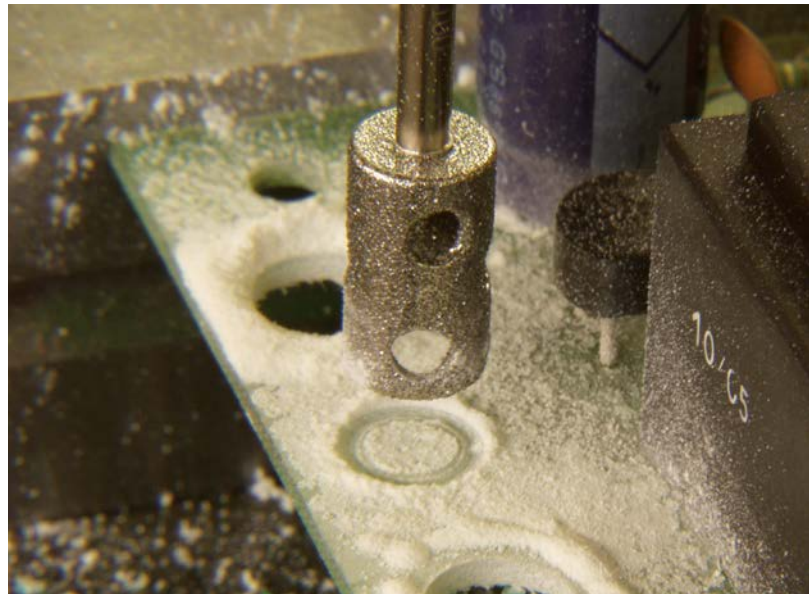
	Head dimensions	Collar dimensions	Shank Ø x total length	Grit size	Order No.	Price from	
						1 piece	5 pieces
Diamond grinding points, solid carbide metal, galvanic bonding, shank Ø 3 mm							
cylinder							
	Ø 0.4 x 2 mm	Ø 0.3 x 3 mm	Ø 3 x 40 mm	D 54	0 560 051	12.40 €	11.05 €
	Ø 0.5 x 2 mm	Ø 0.4 x 5 mm	Ø 3 x 40 mm	D 64	0 560 052	12.40 €	11.05 €
	Ø 0.6 x 3 mm	Ø 0.5 x 5 mm	Ø 3 x 40 mm	D 64	0 560 053	12.40 €	11.05 €
		Ø 0.4 x 5 mm	Ø 3 x 40 mm	D 91	0 560 054	12.40 €	11.05 €
	Ø 0.7 x 3 mm	Ø 0.6 x 5 mm	Ø 3 x 40 mm	D 64	0 560 055	12.40 €	11.05 €
		Ø 0.5 x 5 mm	Ø 3 x 40 mm	D 91	0 560 056	12.40 €	11.05 €
	Ø 0.8 x 3 mm	Ø 0.7 x 6 mm	Ø 3 x 40 mm	D 64	0 560 057	12.40 €	11.05 €
		Ø 0.6 x 6 mm	Ø 3 x 40 mm	D 91	0 560 058	12.40 €	11.05 €
	Ø 0.9 x 3 mm	Ø 0.8 x 10 mm	Ø 3 x 40 mm	D 64	0 560 059	12.40 €	11.05 €
		Ø 0.7 x 10 mm	Ø 3 x 40 mm	D 91	0 560 060	12.40 €	11.05 €
Ø 1 x 3 mm	Ø 0.8 x 10 mm	Ø 3 x 40 mm	D 76	0 560 061	10.75 €	9.65 €	
	Ø 0.7 x 10 mm	Ø 3 x 40 mm	D 107	0 560 062	10.75 €	9.65 €	
	Ø 0.7 x 6 mm	Ø 3 x 40 mm	D 151	0 560 063	10.75 €	9.65 €	
Ø 1.5 x 3 mm	Ø 1.3 x 15 mm	Ø 3 x 40 mm	D 76	0 560 076	10.75 €	9.65 €	
	Ø 1.2 x 15 mm	Ø 3 x 40 mm	D 107	0 560 077	10.75 €	9.65 €	
	Ø 1.2 x 15 mm	Ø 3 x 40 mm	D 151	0 560 078	10.75 €	9.65 €	
Ø 2 x 5 mm	Ø 1.8 x 15 mm	Ø 3 x 40 mm	D 76	0 560 091	10.75 €	9.65 €	
	Ø 1.7 x 15 mm	Ø 3 x 40 mm	D 107	0 560 092	10.75 €	9.65 €	
	Ø 1.7 x 15 mm	Ø 3 x 40 mm	D 151	0 560 093	10.75 €	9.65 €	
Ø 2.5 x 5 mm	Ø 2.3 x 16 mm	Ø 3 x 40 mm	D 76	0 560 106	10.75 €	9.65 €	
	Ø 2.2 x 16 mm	Ø 3 x 40 mm	D 107	0 560 107	10.75 €	9.65 €	
	Ø 2.2 x 16 mm	Ø 3 x 40 mm	D 151	0 560 108	10.75 €	9.65 €	
	Ø 3 x 5 mm	Ø 2.8 x 17 mm	Ø 3 x 40 mm	D 76	0 560 121	10.75 €	9.65 €
		Ø 2.7 x 17 mm	Ø 3 x 40 mm	D 107	0 560 122	10.75 €	9.65 €
		Ø 2.7 x 17 mm	Ø 3 x 40 mm	D 151	0 560 123	10.75 €	9.65 €

Diamond hollow drill shank Ø 3 mm

joke diamond hollow drills are used for drilling in GRP circuit boards, porcelain, glass and many other materials. The lateral recesses of the drill prevent the workpiece from overheating. A shank with a diameter of 3.0 mm is offered as standard. Special dimensions are however also available on request. Just consult us: We will be pleased to advise you!

Contact: Stefan Spiegel, tel.: +49 2204 / 8 39-0, email: s.spiegel@joke.de

	Head dimensions	Interior Ø	Shank dimensions	Drilling depth	Flush drilling	Grit size	Order No.	Price from	
								1 piece	10 pieces
Diamond hollow drill, electroplated									
	Ø 1.5 x 7 mm	0.6 mm	Ø 3 x 38	7 mm	-	D 107	0 560 039	6.55 €	4.17 €
	Ø 2 x 7 mm	0.8 mm	Ø 3 x 38	7 mm	Ø 1 x 4 mm	D 107	0 560 040	6.85 €	4.48 €
	Ø 3 x 10 mm	1.7 mm	Ø 3 x 35	7 mm	Ø 1.5 x 4 mm	D 151	0 560 041	8.10 €	5.65 €
	Ø 4 x 10 mm	2.5 mm	Ø 3 x 35	7 mm	Ø 2 x 4 mm	D 151	0 560 042	9.70 €	6.85 €
	Ø 5 x 10 mm	3.6 mm	Ø 3 x 38	7 mm	Ø 2 x 4 mm	D 151	0 560 043	11.75 €	8.20 €
	Ø 6 x 10 mm	4.7 mm	Ø 3 x 35	7 mm	Ø 2 x 4 mm	D 151	0 560 044	13.95 €	10.15 €
	Ø 8 x 10 mm	6.1 mm	Ø 3 x 35	7 mm	Ø 3 x 4 mm	D 151	0 560 045	16.20 €	11.50 €
	Ø 10 x 15 mm	8 mm	Ø 3 x 30	10 mm	Ø 3 x 4 mm	D 151	0 560 046	16.95 €	14.60 €
	Ø 11 x 15 mm	9 mm	Ø 3 x 30	10 mm	Ø 4 x 4 mm	D 151	0 560 047	17.95 €	15.70 €



Examples of use:
Plate drilling

The perfect complement

Protective goggles

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



Order No.	Price
0 203 083-1	5.40 €

The perfect complement

Cleaning fluid X 73016-A

- Ideal for cleaning moulds and workpieces
- Evaporates rapidly and without leaving residues
- For all metals, glass, ceramics and almost all plastics



Order No.	Price
0 580 521	6.75 €

The perfect complement

Fine dust mask FFP3




- Professional protection against solid and liquid particles, fine dusts and even smog
- Incl. expiration valve



Order No.	Price
0 960 722	2.60 €




Diamond grinding points shank Ø 6 mm


Vrecom. = 15 - 20 m/s (head-Ø > 10 mm Vmax. = 20 m/s) • max. extension length 0.5 L, shank tolerance = h6, head tolerance = ± 0.2 mm

	Head dimensions	Collar dimensions	Angle	Shank Ø x total length	Grit size	Order No.	Price from	
							1 piece	5 pieces
Diamond grinding points,galvanic bonding, shank Ø 6 mm								
cylinder								
	Ø 4 x 7 mm	Ø 3.7 x 20 mm		Ø 6 x 60 mm	D 91	0 560 388	12.75 €	11.40 €
		Ø 3.7 x 20 mm		Ø 6 x 60 mm	D 126	0 560 389	12.75 €	11.40 €
		Ø 3.7 x 20 mm		Ø 6 x 60 mm	D 181	0 560 390	12.75 €	11.40 €
	Ø 5 x 7 mm	Ø 4.7 x 20 mm		Ø 6 x 60 mm	D 91	0 560 391	13.65 €	12.10 €
		Ø 4.7 x 20 mm		Ø 6 x 60 mm	D 126	0 560 392	13.65 €	12.10 €
	Ø 6 x 8 mm	Ø 5.7 x 20 mm		Ø 6 x 60 mm	D 91	0 560 358	14.90 €	13.00 €
		Ø 5.7 x 20 mm		Ø 6 x 60 mm	D 126	0 560 357	14.90 €	13.00 €
		Ø 5.7 x 20 mm		Ø 6 x 60 mm	D 181	0 560 356	14.90 €	13.00 €
	Ø 6 x 20 mm			Ø 6 x 60 mm	D 91	0 560 820	36.80 €	32.20 €
				Ø 6 x 60 mm	D 126	0 560 819	36.80 €	32.20 €
				Ø 6 x 60 mm	D 181	0 560 818	36.80 €	32.20 €
	Ø 8 x 6 mm			Ø 6 x 60 mm	D 91	0 560 823	18.05 €	15.80 €
				Ø 6 x 60 mm	D 126	0 560 822	18.05 €	15.80 €
				Ø 6 x 60 mm	D 181	0 560 821	18.05 €	15.80 €
	Ø 10 x 6 mm			Ø 6 x 60 mm	D 91	0 560 366	20.55 €	17.55 €
				Ø 6 x 60 mm	D 126	0 560 365	20.55 €	17.55 €
				Ø 6 x 60 mm	D 181	0 560 364	20.55 €	17.55 €
	Ø 10 x 10 mm			Ø 6 x 60 mm	D 91	0 560 829	20.55 €	17.90 €
				Ø 6 x 60 mm	D 126	0 560 828	20.55 €	17.90 €
				Ø 6 x 60 mm	D 181	0 560 827	20.55 €	17.90 €
	Ø 12 x 6 mm			Ø 6 x 60 mm	D 91	0 560 371	24.75 €	21.55 €
				Ø 6 x 60 mm	D 126	0 560 370	24.75 €	21.55 €
				Ø 6 x 60 mm	D 181	0 560 839	57.00 €	49.95 €
	Ø 12 x 20 mm			Ø 6 x 60 mm	D 91	0 560 841	57.00 €	49.95 €
				Ø 6 x 60 mm	D 126	0 560 840	57.00 €	49.95 €
				Ø 6 x 60 mm	D 181	0 560 839	57.00 €	49.95 €
	Ø 15 x 6 mm			Ø 6 x 60 mm	D 91	0 560 381	30.55 €	26.90 €
				Ø 6 x 60 mm	D 126	0 560 380	34.05 €	29.85 €
	Ø 15 x 10 mm			Ø 6 x 60 mm	D 126	0 560 846	29.15 €	25.55 €
				Ø 6 x 60 mm	D 181	0 560 845	29.15 €	25.55 €
	Ø 15 x 20 mm			Ø 6 x 60 mm	D 126	0 560 849	72.90 €	63.80 €
				Ø 6 x 60 mm	D 181	0 560 848	76.70 €	66.95 €
sphere								
	Ø 8 mm			Ø 6 x 60 mm	D 91	0 560 922	27.00 €	24.20 €
				Ø 6 x 60 mm	D 126	0 560 921	27.00 €	24.20 €
				Ø 6 x 60 mm	D 181	0 560 920	27.00 €	24.20 €
	Ø 10 mm			Ø 6 x 60 mm	D 91	0 560 892	34.05 €	30.55 €
				Ø 6 x 60 mm	D 126	0 560 891	34.05 €	30.55 €
				Ø 6 x 60 mm	D 181	0 560 890	34.05 €	30.55 €
	Ø 15 mm			Ø 6 x 60 mm	D 91	0 560 898	51.90 €	46.05 €
				Ø 6 x 60 mm	D 126	0 560 897	51.90 €	46.05 €
				Ø 6 x 60 mm	D 181	0 560 896	51.90 €	46.05 €
	Ø 20 mm			Ø 6 x 60 mm	D 91	0 560 925	61.50 €	54.65 €
				Ø 6 x 60 mm	D 126	0 560 924	61.50 €	54.65 €
				Ø 6 x 60 mm	D 181	0 560 923	61.50 €	54.65 €

Diamond grinding points shank Ø 6 mm



Vrecom. = 15 - 20 m/s (head-Ø > 10 mm Vmax. = 20 m/s) • max. extension length 0.5 L, shank tolerance = h6, head tolerance = ± 0.2 mm

	Head dimensions	Collar dimensions	Angle	Shank Ø x total length	Grit size	Order No.	Price from	
							1 piece	5 pieces
pointed cone								
	Ø 6 x 12 mm		30°	Ø 6 x 52 mm	D 126	0 560 900	19.70 €	17.35 €
	Ø 6 x 18 mm		20°	Ø 6 x 58 mm	D 126	0 560 972	23.10 €	20.50 €
	Ø 6 x 33 mm		10°	Ø 6 x 100 mm	D 126	0 560 957	36.00 €	32.95 €
	Ø 6 x 42 mm		8°	Ø 6 x 100 mm	D 126	0 560 799	26.25 €	22.60 €
	Ø 6 x 55 mm		6°	Ø 6 x 100 mm	D 126	0 560 797	31.40 €	27.00 €
	Ø 10 x 5 mm		90°	Ø 6 x 45 mm	D 91	0 560 931	27.90 €	25.05 €
			90°	Ø 6 x 45 mm	D 126	0 560 930	27.90 €	25.05 €
			90°	Ø 6 x 45 mm	D 181	0 560 929	27.90 €	25.05 €
	Ø 10 x 9 mm		60°	Ø 6 x 50 mm	D 91	0 560 985	30.55 €	27.10 €
			60°	Ø 6 x 50 mm	D 126	0 560 984	30.55 €	27.10 €
	Ø 10 x 12 mm		45°	Ø 6 x 52 mm	D 91	0 560 976	30.55 €	27.10 €
			45°	Ø 6 x 52 mm	D 126	0 560 975	30.55 €	27.10 €
	Ø 15 x 14 mm		60°	Ø 6 x 54 mm	D 91	0 560 988	43.10 €	38.45 €
			60°	Ø 6 x 54 mm	D 126	0 560 987	43.10 €	38.45 €
	Ø 20 x 10 mm		90°	Ø 6 x 50 mm	D 91	0 560 934	55.60 €	49.55 €
			90°	Ø 6 x 50 mm	D 126	0 560 933	55.60 €	49.55 €
			90°	Ø 6 x 50 mm	D 181	0 560 932	55.60 €	49.55 €
	Ø 20 x 18 mm		60°	Ø 6 x 58 mm	D 91	0 560 928	55.60 €	49.55 €
			60°	Ø 6 x 58 mm	D 126	0 560 927	55.60 €	49.55 €
	Ø 30 x 15 mm		90°	Ø 6 x 55 mm	D 91	0 560 937	73.30 €	65.20 €
		90°	Ø 6 x 55 mm	D 126	0 560 936	73.30 €	65.20 €	
		90°	Ø 6 x 55 mm	D 181	0 560 935	73.30 €	65.20 €	
rounded cylinder								
	Ø 6 x 20 mm			Ø 6 x 60 mm	D 126	0 560 864	34.25 €	30.45 €
				Ø 6 x 60 mm	D 181	0 560 863	34.25 €	30.45 €
	Ø 10 x 15 mm			Ø 6 x 55 mm	D 126	0 560 867	39.90 €	35.60 €
				Ø 6 x 55 mm	D 181	0 560 866	39.10 €	35.60 €

	Order No.	Price from
		1 set
Diamond grinding point set (10 pieces), shank Ø 6 mm		
	0 403 551-6	80.40 €
The set contains 10 diamond grinding points in shapes: pointed cone Ø 6 x 25 mm, 10°, tree with pointed end Ø 6,5 x 22 mm, cone Ø 8/4 x 15 mm, pointed cone shapes Ø 8 x 15 mm, 30°, wheel Ø 10 x 1,2 mm, Cylindrical with radius Ø 6,5 x 15 mm, trapeze Ø 8 x 5,5 mm, 20°, cylinder Ø 8 x 15 mm, sphere Ø 8 mm, rounded arch Ø 8 x 15 mm, D126, total length 60 mm, content: 10 pcs		

CBN grinding points shank Ø 3 mm

Vrecom. wet = 30 m/s • Vrecom. dry = 20 m/s max. • max. extension length = 0.5 x L

	Head dimensions	Collar dimensions	Shank Ø x total length	Grit size	Order No.	Price from	
						1 piece	5 pieces
CBN grinding points, galvanic bonding, shank Ø 3 mm							
cylinder							
	Ø 0.4 x 2 mm	Ø 0.3 x 5 mm	Ø 3 x 46 mm	B 46	0 565 304	23.20 €	20.40 €
	Ø 0.5 x 2 mm	Ø 0.4 x 5 mm	Ø 3 x 46 mm	B 46	0 565 305	13.45 €	11.80 €
	Ø 0.6 x 2 mm	Ø 0.5 x 5 mm	Ø 3 x 46 mm	B 64	0 565 306	13.45 €	11.80 €
	Ø 0.8 x 2 mm	Ø 0.6 x 7 mm	Ø 3 x 46 mm	B 91	0 565 309	13.45 €	11.80 €
		Ø 0.4 x 7 mm	Ø 3 x 46 mm	B 126	0 565 308	13.45 €	11.80 €
	Ø 1 x 2 mm	Ø 0.8 x 7 mm	Ø 3 x 46 mm	B 91	0 565 311	10.10 €	8.60 €
		Ø 0.6 x 7 mm	Ø 3 x 46 mm	B 126	0 565 310	10.10 €	8.60 €
	Ø 1 x 5 mm	Ø 0.6 x 10 mm	Ø 3 x 55 mm	B 126	0 565 801	10.10 €	8.60 €
	Ø 1.5 x 5 mm	Ø 1.2 x 12 mm	Ø 3 x 46 mm	B 91	0 565 316	10.10 €	8.60 €
		Ø 1.1 x 12 mm	Ø 3 x 46 mm	B 126	0 565 315	10.10 €	8.60 €
Ø 2 x 5 mm	Ø 1.7 x 12 mm	Ø 3 x 55 mm	B 91	0 565 321	10.10 €	8.60 €	
	Ø 1.6 x 12 mm	Ø 3 x 55 mm	B 126	0 565 320	10.10 €	8.60 €	
	Ø 1.5 x 12 mm	Ø 3 x 55 mm	B 181	0 565 319	10.10 €	8.60 €	
Ø 2.5 x 5 mm	Ø 2.0 x 16 mm	Ø 3 x 55 mm	B 181	0 565 324	10.10 €	8.60 €	
	Ø 2.1 x 16 mm	Ø 3 x 55 mm	B 126	0 565 325	10.10 €	8.60 €	
	Ø 2.2 x 16 mm	Ø 3 x 55 mm	B 91	0 565 326	10.10 €	8.60 €	
Ø 3 x 5 mm	Ø 2.5 x 16 mm	Ø 3 x 55 mm	B 181	0 565 329	10.10 €	8.60 €	
	Ø 2.6 x 16 mm	Ø 3 x 55 mm	B 126	0 565 330	10.10 €	8.60 €	
	Ø 2.7 x 16 mm	Ø 3 x 55 mm	B 91	0 565 331	10.10 €	8.60 €	
	Ø 3.5 x 5 mm		Ø 3 x 55 mm	B 91	0 565 336	11.25 €	10.00 €
			Ø 3 x 55 mm	B 126	0 565 335	11.25 €	10.00 €
			Ø 3 x 55 mm	B 181	0 565 334	11.25 €	10.00 €
Ø 4 x 5 mm		Ø 3 x 55 mm	B 91	0 565 341	11.85 €	10.55 €	
		Ø 3 x 55 mm	B 126	0 565 340	11.85 €	10.55 €	
		Ø 3 x 55 mm	B 181	0 565 339	11.85 €	10.55 €	
Ø 5 x 6 mm		Ø 3 x 55 mm	B 91	0 565 351	13.45 €	11.80 €	
		Ø 3 x 55 mm	B 126	0 565 350	13.45 €	11.80 €	
		Ø 3 x 55 mm	B 181	0 565 349	13.45 €	11.80 €	
Ø 6 x 6 mm		Ø 3 x 55 mm	B 91	0 565 355	15.30 €	13.30 €	
		Ø 3 x 55 mm	B 126	0 565 354	15.30 €	13.30 €	
		Ø 3 x 55 mm	B 181	0 565 353	15.30 €	13.30 €	

The perfect complement

Protective goggles

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



Order No.	Price
0 203 083-1	5.40 €

The perfect complement

Allround glove Maxi-Hit

- Abrasion-resistant, pleasant, flexible, breathable and liquid-repellant
- Highly stretchable and quick drying



Order No.	Price
0 960 701	2.50 €

The perfect complement

Earplugs Super-Fit incl. box

- Very comfortable to wear
- Noise attenuation by 30 decibels (dB)
- Incl. practical storage box, belt clip and safety cord



Order No.	Price
0 960 724	2.16 €



CBN grinding points, solid carbide metal shank Ø 3 mm

CBN grinding points, solid carbide metal

The new boron nitride grinding points made from solid carbide metal convince through their high rigidity and the resulting precise true running. They are available in ascending increments of 1/10 mm with a head diameter from 0.4 to 3 mm.

i Suitable for every measurement!

These grinding points are available in increments of 1/10 mm between 0.4 and 3 mm diameter. You can be sure to find the right one for your application!

	Head dimensions	Collar dimensions	Shank Ø x total length	Grit size	Order No.	Price from	
						1 piece	5 pieces
CBN grinding points, solid carbide metal, galvanic bonding, shank Ø 3 mm							
cylinder							
	Ø 0.4 x 2 mm	Ø 0.3 x 3 mm	Ø 3 x 40 mm	B 54	0 565 051	12.10 €	10.70 €
	Ø 0.5 x 2 mm	Ø 0.4 x 5 mm	Ø 3 x 40 mm	B 54	0 565 052	12.10 €	10.70 €
	Ø 0.6 x 3 mm	Ø 0.5 x 5 mm	Ø 3 x 40 mm	B 54	0 565 053	12.10 €	10.70 €
		Ø 0.4 x 5 mm	Ø 3 x 40 mm	B 91	0 565 054	12.10 €	10.70 €
	Ø 0.7 x 3 mm	Ø 0.6 x 5 mm	Ø 3 x 40 mm	B 54	0 565 055	12.10 €	10.70 €
		Ø 0.5 x 5 mm	Ø 3 x 40 mm	B 91	0 565 056	12.10 €	10.70 €
	Ø 0.8 x 3 mm	Ø 0.7 x 6 mm	Ø 3 x 40 mm	B 54	0 565 057	12.10 €	10.70 €
		Ø 0.6 x 6 mm	Ø 3 x 40 mm	B 91	0 565 058	12.10 €	10.70 €
	Ø 0.9 x 3 mm	Ø 0.8 x 10 mm	Ø 3 x 40 mm	B 54	0 565 059	12.10 €	10.70 €
		Ø 0.7 x 10 mm	Ø 3 x 40 mm	B 91	0 565 060	12.10 €	10.70 €
	Ø 1 x 3 mm	Ø 0.8 x 10 mm	Ø 3 x 40 mm	B 76	0 565 061	12.10 €	10.70 €
		Ø 0.7 x 10 mm	Ø 3 x 40 mm	B 107	0 565 062	12.10 €	10.70 €
	Ø 1.5 x 3 mm	Ø 1.3 x 15 mm	Ø 3 x 40 mm	B 76	0 565 076	12.10 €	10.70 €
		Ø 1.2 x 15 mm	Ø 3 x 40 mm	B 107	0 565 077	12.10 €	10.70 €
	Ø 2 x 5 mm	Ø 1.8 x 15 mm	Ø 3 x 40 mm	B 76	0 565 091	12.10 €	10.70 €
		Ø 1.7 x 15 mm	Ø 3 x 40 mm	B 107	0 565 092	12.10 €	10.70 €
	Ø 2.5 x 5 mm	Ø 2.3 x 16 mm	Ø 3 x 40 mm	B 76	0 565 106	12.10 €	10.70 €
		Ø 2.2 x 16 mm	Ø 3 x 40 mm	B 107	0 565 107	12.10 €	10.70 €
	Ø 3 x 5 mm	Ø 2.8 x 17 mm	Ø 3 x 40 mm	B 76	0 565 121	12.10 €	10.70 €
		Ø 2.7 x 17 mm	Ø 3 x 40 mm	B 107	0 565 122	12.10 €	10.70 €

CBN grinding point set shank Ø 3 mm



	Order No.	Price from	
		1 set	
CBN grinding point set (30 pieces), shank Ø 3 mm	0 403 553	104.05 €	



The set contains CBN grinding points in cylinder, rounded cylinder, sphere, trapezium, rounded cone, tree with pointed end and pointed cone shapes.

CBN grinding points shank Ø 6 mm

Vrecom. wet = 30 m/s • Vrecom. dry = 20 m/s max. • max. extension length = 0.5 x L

	Head dimensions	Collar dimensions	Shank Ø x total length	Grit size	Order No.	Price from	
						1 piece	5 pieces
CBN grinding points, galvanic bonding, shank Ø 6 mm							
cylinder							
	Ø 4 x 7 mm	Ø 3,7 x 20 mm	Ø 6 x 60 mm	B 126	0 565 389	14.50 €	12.90 €
	Ø 5 x 7 mm	Ø 4,7 x 20 mm	Ø 6 x 60 mm	B 126	0 565 392	15.10 €	13.20 €
	Ø 6 x 7 mm	Ø 5,7 x 20 mm	Ø 6 x 60 mm	B 126	0 565 357	15.90 €	13.95 €
	Ø 6 x 20 mm		Ø 6 x 60 mm	B 181	0 565 818	51.05 €	44.80 €
	Ø 8 x 6 mm		Ø 6 x 60 mm	B 126	0 565 822	20.75 €	17.95 €
	Ø 10 x 6 mm		Ø 6 x 60 mm	B 91	0 565 366	23.60 €	20.65 €
			Ø 6 x 60 mm	B 126	0 565 365	26.35 €	23.00 €
	Ø 10 x 10 mm		Ø 6 x 60 mm	B 126	0 565 828	20.20 €	18.05 €
			Ø 6 x 60 mm	B 181	0 565 827	20.20 €	18.05 €
	Ø 12 x 6 mm		Ø 6 x 60 mm	B 126	0 565 370	28.30 €	24.85 €
	Ø 12 x 10 mm		Ø 6 x 60 mm	B 126	0 565 837	30.15 €	26.25 €
			Ø 6 x 60 mm	B 181	0 565 836	30.15 €	26.25 €
	Ø 15 x 10 mm		Ø 6 x 60 mm	B 126	0 565 846	33.55 €	29.35 €
		Ø 6 x 60 mm	B 181	0 565 845	33.55 €	29.35 €	

The perfect complement

Cleaning fluid X 73016-A

- Ideal for cleaning moulds and workpieces
- Evaporates rapidly and without leaving residues
- For all metals, glass, ceramics and almost all plastics



Order No.	Price
0 580 521	6.75 €

The perfect complement

Gloves Ultra Lite PU Hyflex

- Lint-free and breathable
- Exact fit and adjustability
- Multiple use



Order No.	Price
0 960 702	2.38 €

The perfect complement

Ear plugs with headband

- Plastic headband provides a secure hold in case of jerky or rapid movements
- Pleasantly comfortable to wear
- Noise attenuation by 24 decibels (dB)



Order No.	Price
0 960 723	3.08 €

Diamond grinding points, vacuum brazed shank Ø 3 mm

Diamond grinding points vacuum-brazed bonding

The vacuum-brazed bonding provides a much better adhesion of grits to the carrier thanks to direct fusing.

These tools are particularly suited for fibre glass reinforced materials GFR and CFR plastics (in aircraft construction and shipbuilding), tungsten carbide green components (unsintered carbide), ceramics (i.e. valve cover rings for car engines), coal products (i.e. brake discs, carbon brushes), cast materials.


Benefits of this new bonding:

- Very good stock removal thanks to higher grit protrusion
- Allows production of more complex forms, e.g. inner radiuses
- Markedly better grit retention force
- Cooler grinding thanks to larger chipping spaces



	Head dimensions	Angle	Radius	Shank Ø x total length	Grit size	Order No.	Price from 1 piece
Diamond grinding points vacuum brazed bonding, shank Ø 3 mm							
cylinder							
	☛ Ø 7 x 7 mm			Ø 3 x 55 mm	D 427	0 563 037	16.65 €
sphere							
	☛ Ø 6 mm			Ø 3 x 55 mm	D 427	0 563 040	16.65 €
	☛ Ø 7 mm			Ø 3 x 55 mm	D 427	0 563 041	16.65 €
round cone							
	☛ Ø 4 / 1 x 10 mm	14°	0.5 mm	Ø 3 x 55 mm	D 427	0 563 033	16.85 €
	☛ Ø 6 / 3 x 10 mm	20°	1.5 mm	Ø 3 x 55 mm	D 427	0 563 034	16.85 €
	☛ Ø 7 / 3 x 7 mm	36°	1.5 mm	Ø 3 x 55 mm	D 427	0 563 032	16.95 €
pointed cone							
	☛ Ø 6 x 4 mm	60°		Ø 3 x 55 mm	D 427	0 563 035	16.65 €
	☛ Ø 6 x 10 mm	30°		Ø 3 x 55 mm	D 427	0 563 036	16.65 €
round cylinder							
	☛ Ø 4 x 7 mm		2 mm	Ø 3 x 55 mm	D 427	0 563 038	16.65 €
	☛ Ø 6 x 10 mm		3 mm	Ø 3 x 55 mm	D 427	0 563 039	16.85 €


↓ matching set

	Grit size	Order No.	Price from 1 set
Set diamond grinding points, vacuum brazed, shank Ø 3 mm			
	D 427	0 563 003	168.00 €
The set consists of the following ten diamond grinding points with a vacuum brazed bond in addition to a grit size of D 427, shank Ø 3 x 55 mm:			
• Cylinder, Ø 7 x 7 mm (order no. 0 563 037)			
• Rounded cylinder, Ø 4 x 7 mm, R = 2 (order no. 0 563 038)			
• Rounded cylinder, Ø 6 x 10 mm, R = 3 (order no. 0 563 039)			
• Ball, Ø 6 mm (order no. 0 563 040)			
• Ball, Ø 7 mm (order no. 0 563 041)			
• Pointed cone, Ø 6 x 4 mm, 60° (order no. 0 563 035)			
• Pointed cone, Ø 6 x 10 mm, 30° (order no. 0 563 036)			
• Rounded cone, Ø 4 / 1 x 10 mm, 14°, R = 0.5 (order no. 0 563 033)			
• Rounded cone, Ø 6 / 3 x 10 mm, 20°, R = 1.5 (order no. 0 563 034)			
• Rounded cone, Ø 7 / 3 x 7 mm, 36°, R = 1.5 (order no. 0 563 032)			

Diamond grinding points, vacuum brazed shank Ø 6 mm

Head dimensions	Radius	Shank Ø x total length	Grit size	Order No.	Price from 1 piece
Diamond grinding points vacuum brazed bonding, shank Ø 6 mm					
round cone					
Ø 6 / 1 x 19 mm	0.5 mm	Ø 6 x 60 mm	D 427	0 563 042	20.20 €
flame					
Ø 8 x 14 mm		Ø 6 x 60 mm	D 427	0 563 043	20.20 €
pointed cone					
Ø 9 x 4,5 mm		Ø 6 x 60 mm	D 427	0 563 044	20.20 €
cylinder					
Ø 8 x 20 mm		Ø 6 x 60 mm	D 427	0 563 046	20.20 €
Ø 10 x 24 mm		Ø 6 x 60 mm	D 427	0 563 047	20.20 €
round cylinder					
Ø 6 x 31 mm	3 mm	Ø 6 x 60 mm	D 427	0 563 048	20.20 €
sphere					
Ø 8 mm		Ø 6 x 60 mm	D 427	0 563 050	20.20 €
Ø 12 mm		Ø 6 x 60 mm	D 427	0 563 051	20.20 €

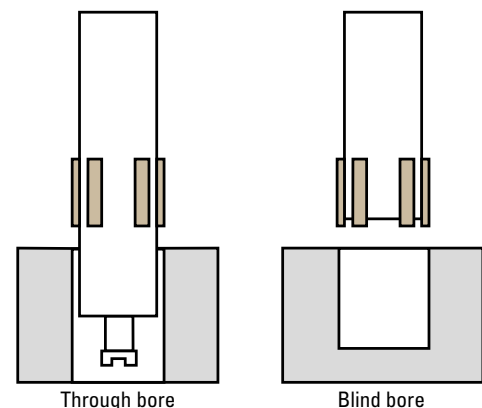
matching set

	Grit size	Order No.	Price from 1 set
Set diamond grinding points, vacuum brazed, shank Ø 6 mm			
	D 427	0 563 005	175.00 €
	The set consists of the following ten diamond grinding points with a vacuum brazed bond in addition to a grit size of D 427, shank Ø 6 x 60 mm: <ul style="list-style-type: none"> • Rounded cone, Ø 6 / 1 x 19 mm, 15°, R = 0,50 (order no. 0 563 042) • flame-shaped, Ø 8 x 14 mm (order no. 0 563 043) • Pointed cone, Ø 9 x 4,5 mm, 90° (order no. 0 563 044) • Pointed cone, Ø 7 x 6 mm, 60° (order no. 0 563 045) • Cylinder, Ø 8 x 20 mm (order no. 0 563 046) • Cylinder, Ø 10 x 24 mm, S.-Ø 6 x 65 mm (order no. 0 563 047) • Rounded cylinder, Ø 6 x 31 mm, R = 3, S.-Ø 6 x 65 mm (order no. 0 563 048) • Ball, Ø 6 mm (order no. 0 563 049) • Ball, Ø 8 mm (order no. 0 563 050) • Ball, Ø 12 mm (order no. 0 563 051) 		

Diamond honing tools for through bores and blind bores

Diamond honing tools are the ideal implements for very fine processing of bores in toolmaking and mould building, machine and gauge construction, e.g. final processing, hardened bores or reworking of ejector bores. Versatile in use (lathe, drilling machine, CNC machining centre, milling machine, etc.)

- ... they **improve** surface quality
- ... they **increase** accuracy of diameter
- ... they **enhance** geometric roundness.



Diamond honing tools for blind bores

Each of these awls has 6 diamond inserts. The body has 6 slots. These awls are suitable for processing carbide metal, hardened steel and nonferrous metals, etc. and likewise for use on drilling machines and lathes.

Important: only work with petroleum and honing oil!



Practical tip

- Only push the workpiece onto the relaxed awl without any resistance
- Subsequently expand the honing tool until slight friction is felt.
- Burr in the bore will damage the honing tool!

	Nominal size	Shank dimensions	Total length	Expansion	Diamond inserts	Coating dimensions	Grit size	Order No.	Price from 1 piece
Diamond honing tools for blind bores, metallic bond									
	3 mm	Ø 2.5 mm	60 mm	0.5 mm	5	7 x 1.0 mm	D 85	0 562 701	142.00 €
	3.5 mm	Ø 2.5 mm	60 mm	0.5 mm	6	7 x 1.0 mm	D 85	0 562 702	144.05 €
	4 mm	Ø 3.5 mm	70 mm	0.5 mm	6	7 x 1.0 mm	D 85	0 562 703	145.80 €
	4.5 mm	Ø 4 mm	70 mm	0.5 mm	6	7 x 1.0 mm	D 85	0 562 704	147.60 €
	5 mm	Ø 4.5 mm	85 mm	0.5 mm	6	7 x 1.0 mm	D 85	0 562 705	149.55 €
	5.5 mm	Ø 5 mm	85 mm	0.5 mm	6	7 x 1.0 mm	D 85	0 562 706	152.00 €
	6 mm	Ø 5.5 mm	85 mm	0.5 mm	6	11 x 1.4 mm	D 85	0 562 707	153.00 €
	6.5 mm	Ø 6 mm	100 mm	0.5 mm	6	11 x 1.4 mm	D 85	0 562 708	184.00 €
	7 mm	Ø 6.5 mm	100 mm	0.5 mm	6	11 x 1.4 mm	D 85	0 562 709	186.00 €
	7.5 mm	Ø 7 mm	100 mm	0.5 mm	6	11 x 1.4 mm	D 85	0 562 710	188.00 €
	8 mm	Ø 7.5 mm	100 mm	0.5 mm	6	11 x 1.4 mm	D 85	0 562 711	189.00 €
	8.5 mm	Ø 8 mm	120 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 712	224.00 €
	9 mm	Ø 8.5 mm	120 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 713	227.00 €
	9.5 mm	Ø 9 mm	120 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 714	229.00 €
	10 mm	Ø 9.5 mm	120 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 715	232.00 €
	10.5 mm	Ø 10 mm	140 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 716	233.00 €
	11 mm	Ø 10.5 mm	140 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 717	236.00 €
	11.5 mm	Ø 11 mm	140 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 718	238.00 €
	12 mm	Ø 11.5 mm	140 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 719	240.00 €

Recommended cutting speed:

$$V_c = 15 - 30 \text{ m/min}$$

Approximate stroke speed:

$$V_a = 10 \text{ m/min}$$

Diamond honing tools for through bores

Diamond honing tools for through bores

The cone of the expansion element is hard chrome-plated and fits in the awl body over the entire length. These awls are suitable for processing carbide metal, hardened steel and non-ferrous metals, etc. and can be used on drilling machines and lathes.

Important: only work with petroleum or honing oil!



Diamond honing tools with double coating length available at short notice on request!

Consult **Stefan Spiegel**:
Tel. +49 (0) 22 04 / 8 39-0
s.spiegel@joke.de

	Nominal size	Collar dimensions	Shank dimensions	Total length	Expansion	Diamond inserts	Coating dimensions	Grit size	Order No.	Price from 1 piece
Diamond honing tools for through bores, metallic bond										
 	2 mm	1.8 x 15.0 mm	Ø 1.8 mm	65 mm	0.3 mm	3	10 x 0.8 mm	D 85	0 562 621	123.00 €
	2.5 mm	2.0 x 15.0 mm	Ø 2 mm	65 mm	0.3 mm	3	10 x 1.0 mm	D 85	0 562 622	116.90 €
	3 mm	2.5 x 15.0 mm	Ø 2.5 mm	65 mm	0.3 mm	3	10 x 1.0 mm	D 85	0 562 623	107.65 €
	3.5 mm	2.5 x 15.0 mm	Ø 3 mm	65 mm	0.4 mm	3	10 x 1.0 mm	D 85	0 562 624	111.25 €
	4 mm	3.5 x 18.0 mm	Ø 3.5 mm	80 mm	0.4 mm	3	16 x 1.4 mm	D 85	0 562 625	109.30 €
	4.5 mm	4.0 x 18.0 mm	Ø 4 mm	80 mm	0.5 mm	3	16 x 1.4 mm	D 85	0 562 626	114.00 €
	5 mm	4.5 x 22.0 mm	Ø 4.5 mm	100 mm	0.5 mm	3	16 x 2.0 mm	D 85	0 562 627	118.70 €
	5.5 mm	5.0 x 22.0 mm	Ø 5 mm	100 mm	0.6 mm	3	16 x 2.0 mm	D 85	0 562 628	120.45 €
	6 mm	5.5 x 24.0 mm	Ø 5.5 mm	120 mm	0.6 mm	3	16 x 2.0 mm	D 85	0 562 629	118.50 €
	6.5 mm	6.0 x 24.0 mm	Ø 6 mm	120 mm	0.6 mm	3	16 x 3.0 mm	D 85	0 562 630	135.65 €
	7 mm	6.5 x 24.0 mm	Ø 6.5 mm	120 mm	0.6 mm	3	16 x 3.0 mm	D 85	0 562 631	137.25 €
	7.5 mm	7.0 x 30.0 mm	Ø 7 mm	140 mm	0.6 mm	3	20 x 3.0 mm	D 85	0 562 632	153.00 €
	8 mm	7.5 x 30.0 mm	Ø 7.5 mm	140 mm	0.6 mm	3	20 x 3.0 mm	D 85	0 562 633	156.00 €
	8.5 mm	8.0 x 30.0 mm	Ø 8 mm	140 mm	0.6 mm	3	20 x 3.0 mm	D 85	0 562 634	157.00 €
	9 mm	8.5 x 30.0 mm	Ø 8.5 mm	140 mm	0.6 mm	3	20 x 3.0 mm	D 85	0 562 635	160.00 €
	9.5 mm	9.0 x 30.0 mm	Ø 9 mm	140 mm	0.6 mm	3	20 x 3.0 mm	D 85	0 562 636	162.00 €
	10 mm	9.5 x 37.0 mm	Ø 9.5 mm	160 mm	0.6 mm	3	26 x 4.0 mm	D 85	0 562 637	205.00 €
	10.5 mm	9.5 x 37.0 mm	Ø 10 mm	160 mm	0.6 mm	3	26 x 4.0 mm	D 85	0 562 638	208.00 €
	11 mm	10.5 x 37.0 mm	Ø 10 mm	160 mm	0.6 mm	3	26 x 4.0 mm	D 85	0 562 639	210.00 €
	11.5 mm	11.0 x 37.0 mm	Ø 11 mm	160 mm	0.6 mm	3	26 x 4.0 mm	D 85	0 562 640	212.00 €
12 mm	11.0 x 37.0 mm	Ø 11.5 mm	160 mm	0.6 mm	3	26 x 4.0 mm	D 85	0 562 641	214.00 €	
12.5 mm	12.0 x 37.0 mm	Ø 12 mm	160 mm	0.6 mm	3	26 x 4.0 mm	D 85	0 562 642	215.00 €	
13 mm	12.5 x 37.0 mm	Ø 12.5 mm	160 mm	1 mm	3	26 x 4.0 mm	D 85	0 562 643	217.00 €	
13.5 mm	13.0 x 37.0 mm	Ø 13 mm	160 mm	1 mm	3	26 x 4.0 mm	D 85	0 562 644	219.00 €	
14 mm	13.5 x 37.0 mm	Ø 13.5 mm	160 mm	1 mm	3	26 x 4.0 mm	D 85	0 562 645	220.00 €	
14.5 mm	14.0 x 37.0 mm	Ø 14 mm	160 mm	1 mm	3	26 x 4.0 mm	D 85	0 562 646	222.00 €	
15 mm	14.5 x 42.0 mm	Ø 14.5 mm	200 mm	1 mm	3	26 x 4.0 mm	D 85	0 562 647	308.00 €	
15.5 mm	15.0 x 42.0 mm	Ø 15 mm	200 mm	1 mm	3	26 x 4.0 mm	D 85	0 562 648	310.00 €	
16 mm	15.5 x 42.0 mm	Ø 15 mm	200 mm	1 mm	3	26 x 4.0 mm	D 85	0 562 649	311.00 €	
17 mm	16.5 x 42.0 mm	Ø 16.5 mm	200 mm	1 mm	5	26 x 4.0 mm	D 85	0 562 650	315.00 €	
18 mm	17.5 x 42.0 mm	Ø 17.5 mm	200 mm	1 mm	5	26 x 4.0 mm	D 85	0 562 651	319.00 €	
19 mm	18.5 x 42.0 mm	Ø 18.5 mm	200 mm	1 mm	5	26 x 4.0 mm	D 85	0 562 652	322.00 €	
20 mm	19.5 x 42.0 mm	Ø 19.5 mm	200 mm	1 mm	5	26 x 4.0 mm	D 85	0 562 653	326.00 €	

Recommended cutting speed:

$V_c = 15 - 30$ m/min

Approximate stroke speed:

$V_a = 10$ m/min

Diamond/CBN reamers with adjustable recess

Diamond/CBN reamers

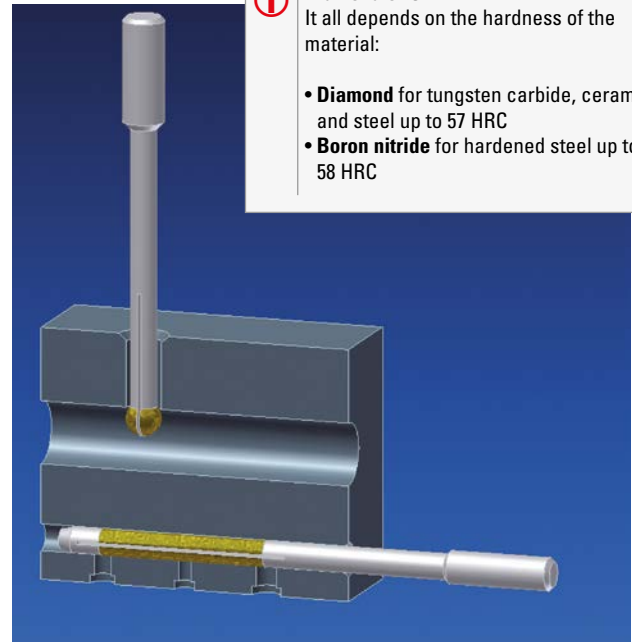
These tools appeal by their robust and user-friendly design and extraordinary durability. As the advancement of conventional lapping arbors, these reamers can be used without compound – so that no time-consuming cleaning is necessary. Design features fixed shank, cylindrical clamping, slotted front and continuous adjustability by means of a locking screw.



Main applications

- Finishing-machining of hardened press bores for tool and mould making
- Reworking on hard ejector bores and sleeves for the plastics industry
- Fine machining and finishing for large-scale production on transfer lines and machining centres

i Diamond or CBN?
It all depends on the hardness of the material:

- **Diamond** for tungsten carbide, ceramics and steel up to 57 HRC
- **Boron nitride** for hardened steel up to 58 HRC



Design	Nominal size	Shank dimensions	Total length	Grit size	Order No.	Price from 1 piece
CBN reamers, galvanic bonding						
 CBN	Ø 2 x 10 mm	Ø 6 x 25 mm	80 mm	B 76	0 566 240	136.95 €
	Ø 3 x 20 mm	Ø 6 x 25 mm	80 mm	B 91	0 566 241	144.50 €
	Ø 4 x 20 mm	Ø 6 x 25 mm	80 mm	B 126	0 566 242	153.00 €
	Ø 5 x 30 mm	Ø 5 x 25 mm	100 mm	B 126	0 566 243	161.00 €
	Ø 6 x 30 mm	Ø 6 x 25 mm	100 mm	B 126	0 566 244	175.00 €
	Ø 8 x 40 mm	Ø 8 x 25 mm	140 mm	B 126	0 566 245	200.00 €
	Ø 10 x 40 mm	Ø 10 x 25 mm	140 mm	B 126	0 566 246	231.00 €
	Ø 12 x 40 mm	Ø 12 x 25 mm	140 mm	B 126	0 566 247	261.00 €
Diamond reamers, galvanic bonding						
 diamond	Ø 2 x 10 mm	Ø 6 x 25 mm	80 mm	D 76	0 561 240	142.50 €
	Ø 3 x 20 mm	Ø 6 x 25 mm	80 mm	D 91	0 561 241	151.00 €
	Ø 4 x 20 mm	Ø 6 x 25 mm	80 mm	D 126	0 561 242	159.00 €
	Ø 5 x 30 mm	Ø 5 x 25 mm	100 mm	D 126	0 561 243	168.00 €
	Ø 6 x 30 mm	Ø 6 x 25 mm	100 mm	D 126	0 561 244	182.00 €
	Ø 8 x 40 mm	Ø 8 x 25 mm	140 mm	D 126	0 561 245	208.00 €
	Ø 10 x 40 mm	Ø 10 x 25 mm	140 mm	D 126	0 561 246	241.00 €
	Ø 12 x 40 mm	Ø 12 x 25 mm	140 mm	D 126	0 561 247	271.00 €

i Recommended cutting speed: V = 12 – 15 m/min.

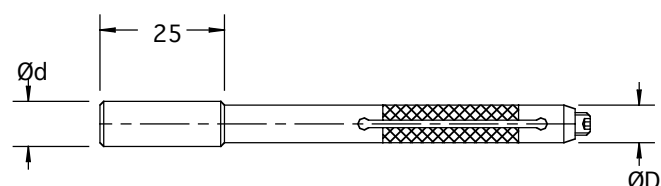
maximum processing range:

nominal dimensions Ø D + 0.2 mm
- 0.05 mm

optimum processing range:

nominal dimensions Ø D ± 0.03 mm

Special dimensions available on request!



Diamond spring steel wires

Diamond spring steel wires

Flexible application for example for dividing outline parts, reworking of bores or slots in hard materials.



Wire as desired

All wires are 0.6 mm and are available in grit sizes D30, D54, D64, D91, D107 and D126 at short notice.

If desired, wires can also be delivered in 200, 250 and 320 mm length. Custom-made coating length, wire with or without tip.

Consult **Stefan Spiegel**:

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	Dimensions	Coating dimensions	Total length	Grit size	Order No.	Price from	
						1 piece	5 pieces
Diamond spring steel wires, galvanic bonding							
	Ø 0.4 mm	70 mm	130 mm	D 30	0 560 140	19.20 €	17.85 €
	Ø 0.5 mm	70 mm	130 mm	D 54	0 560 141	19.20 €	17.85 €
	Ø 0.6 mm	70 mm	130 mm	D 91	0 560 142	19.20 €	17.85 €
	Ø 0.7 mm	70 mm	130 mm	D 91	0 560 143	19.20 €	17.85 €
	Ø 0.8 mm	70 mm	130 mm	D 91	0 560 144	19.20 €	17.85 €
	Ø 0.9 mm	70 mm	130 mm	D 91	0 560 145	19.20 €	17.85 €
	Ø 1.0 mm	70 mm	130 mm	D 91	0 560 146	19.20 €	17.85 €
	Ø 1.1 mm	70 mm	130 mm	D 91	0 560 147	19.20 €	17.85 €
	Ø 1.2 mm	70 mm	130 mm	D 91	0 560 148	19.20 €	17.85 €
	Ø 1.3 mm	70 mm	130 mm	D 91	0 560 149	19.20 €	17.85 €
	Ø 1.4 mm	70 mm	130 mm	D 91	0 560 150	19.20 €	17.85 €
	Ø 1.5 mm	70 mm	130 mm	D 91	0 560 151	19.20 €	17.85 €
Ø 2.0 mm	70 mm	130 mm	D 91	0 560 156	19.20 €	17.85 €	

Diamond hand lappers Synthetic and metal bond

Diamond hand lappers

Hand lappers are suitable for sharpening, eliminating built-up edges, removal of microcracks, chamfering and breaking of tool cuts. Preferably for carbide metal tools and also suitable for processing of hardened or ground tools. With aluminium handles.


The hand lappers are available in two types of bond:

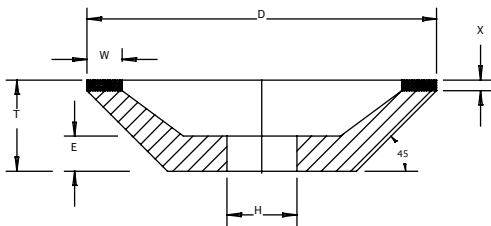
- synthetic bond for fine reworking, e.g. on turning tools, knife heads and cutters.
- the metal bond is highly wear-resistant and suitable for robust applications, for example on turnover boards, turntables, cutters, etc.



	Bonding	Dimensions	Coating dimensions	Grit size	Order No.	Price from	
						1 piece	5 pieces
Diamond hand lappers with aluminium handles							
	synthetic	10 x 150 mm	10 x 2 x 30 mm	D 76 / # 200	0 562 401-1	62.25 €	49.85 €
		10 x 150 mm	10 x 2 x 30 mm	D 30 / # 400	0 562 403-1	62.25 €	49.85 €
		10 x 150 mm	10 x 2 x 30 mm	D 15 / # 800	0 562 404-1	62.25 €	49.85 €
	metal	10 x 150 mm	10 x 1 x 30 mm	D 76	0 562 411	64.80 €	54.85 €
		10 x 150 mm	10 x 1 x 30 mm	D 46	0 562 413	64.80 €	54.85 €
		10 x 150 mm	10 x 1 x 30 mm	D 15	0 562 414	64.80 €	54.85 €

Diamond cup grinding wheels resin bonding

Dimensions	Coating dimensions	Drilling dimension	Bottom dimension	Concentration	Grit size	Type	Order No.	Price from 1 piece	
Diamond cup grinding wheel, resin bonding									
	Ø 100 x 26 mm	5 x 2 mm	20 mm	10 mm	C 50	D 181	12 A2-45°	0 561 522	215.00 €
		5 x 2 mm	20 mm	10 mm	C 50	D 126	12 A2-45°	0 561 523	215.00 €
		5 x 2 mm	20 mm	10 mm	C 50	D 91	12 A2-45°	0 561 524	215.00 €
		5 x 2 mm	20 mm	10 mm	C 50	D 64	12 A2-45°	0 561 525	215.00 €
		10 x 2 mm	20 mm	10 mm	C 50	D 181	12 A2-45°	0 561 526	236.00 €
		10 x 2 mm	20 mm	10 mm	C 50	D 126	12 A2-45°	0 561 527	236.00 €
		10 x 2 mm	20 mm	10 mm	C 50	D 91	12 A2-45°	0 561 528	236.00 €
		10 x 2 mm	20 mm	10 mm	C 50	D 64	12 A2-45°	0 561 529	236.00 €



Other grinding wheels on request!


We can also offer you grinding wheels with boron nitride coating or other shapes, dimensions and grit sizes. Please discuss your requirements with

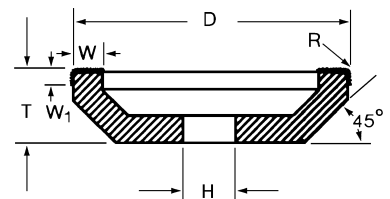
Stefan Spiegel:

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


s.spiegel@joke.de

Diamond cup grinding wheels galvanic bonding

Dimensions	Coating dimensions	Drilling dimension	Grit size	Type	Order No.	Price from 1 piece	
Diamond cup grinding wheel, galvanic bonding							
	Ø 100 x 25 mm	10 x 4 mm	20 mm	D 91	12 A2-45°	0 561 385	173.00 €
		10 x 4 mm	20 mm	D 126	12 A2-45°	0 561 384	177.00 €
		10 x 4 mm	20 mm	D 181	12 A2-45°	0 561 383	177.00 €
Ø 100 x 26 mm	5 x 5 mm	20 mm	D 91	12 A2-45°	0 561 382	177.00 €	
	5 x 5 mm	20 mm	D 126	12 A2-45°	0 561 381	177.00 €	
	5 x 5 mm	20 mm	D 181	12 A2-45°	0 561 380	177.00 €	



Cleaning stone




Order No.	Price from 1 piece
Cleaning stone	
	<p>In order to keep the cutting surface of the abrasive discs clean and sharp, they should be regularly dressed with a cleaning stone. Available for resin and metal bonded abrasive discs.</p> <p>0 560 699</p> <p>6.85 €</p>

Plastic/diamond cut-off discs joke Dia Disc






Thin, highly flexible plastic discs filled with natural diamonds. The discs can be used on both sides for polishing zirconium, glass, titanium, stone and all steels. Ideal for narrow slots. Can be used with fluid or diamond paste. **Max. speed: 5,000 rpm**

	Dimensions	Drilling dimension	Blade thickness	Grit size	Colour	Order No.	Price from	
							1 piece	5 pieces
Plastic/diamond cut-off discs joke Dia-Disc								
	Ø 22 x 0.25 mm	1.8 mm	0,25	30 µm	green	0 571 098	23.20 €	20.40 €
		1.8 mm	0,25	9 µm	blue		0 571 099	23.20 €
								


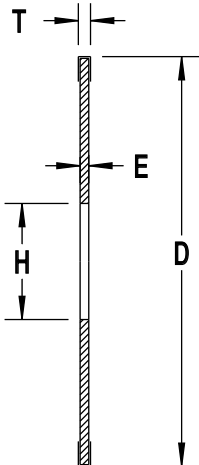
Accessories / spare parts

	Shank dimensions	Bore dimensions	Type	Max. disc size	Order No.	Price from	
						1 piece	10 pieces
CRATEX® grinding wheel holder							
	Ø 2.35 x 40/28 mm	Ø 1.5 - 1.8 mm	21	Ø 38 x 4,5 mm	0 545 275	1.16 €	0.97 €
	Ø 3 x 40 mm	Ø 1.5 - 1.8 mm	22	Ø 38 x 4,5 mm	0 545 276	1.16 €	0.97 €
	Ø 3 x 40/30 mm	Ø 1.5 - 1.8 mm	24	Ø 38 x 3,0 mm	0 545 278	1.16 €	0.97 €

Cut-off disc receptacles with carbide metal shank

	Bore dimensions	Head dimensions	Shank dimensions	Type	Order No.	Price from
						1 piece
Cut-off disc receptacles with carbide metal shank						
	3 mm	Ø 9 mm	Ø 3 x 45 mm	TA3	0 561 941	55.05 €
		Ø 9 mm	Ø 6 x 45 mm	TA3	0 561 940	52.20 €
	5 mm	Ø 9 mm	Ø 3 x 45 mm	TA5	0 561 946	55.05 €
		Ø 9 mm	Ø 6 x 45 mm	TA5	0 561 945	52.20 €
	6 mm	Ø 12 mm	Ø 3 x 45 mm	TA6	0 561 942	59.25 €
		Ø 12 mm	Ø 6 x 45 mm	TA6	0 561 943	60.80 €
		Ø 12 mm	Ø 3 x 45 mm	TA8	0 561 947	59.25 €
	8 mm	Ø 12 mm	Ø 6 x 45 mm	TA8	0 561 948	60.80 €
		Ø 24 mm	Ø 6 x 45 mm	TA8-G	0 561 948-1	64.80 €
		Ø 24 mm	Ø 6 x 45 mm	TA10	0 561 949	64.80 €
	13 mm	Ø 24 mm	Ø 6 x 45 mm	TA13	0 561 944	64.80 €

Diamond cut-off discs with closed rim

	Dimensions (D)	Drilling dimension (H)	Blade thickness (E)	Grit size	Matching receptacles	Order No.	Price from	
							1 piece	5 pieces
Diamond cut-off discs, galvanic bonding								
 	Ø 16 x 0.3 mm	3 mm	0.1 mm	D 76	TA3	0 561 623	20.20 €	17.15 €
	Ø 16 x 0.4 mm	3 mm	0.2 mm	D 76	TA3	0 561 624	20.20 €	17.15 €
	Ø 16 x 0.5 mm	3 mm	0.2 mm	D 107	TA3	0 561 625	20.20 €	17.15 €
	Ø 16 x 0.6 mm	3 mm	0.3 mm	D 107	TA3	0 561 626	20.20 €	17.15 €
	Ø 16 x 0.7 mm	3 mm	0.4 mm	D 107	TA3	0 561 627	20.20 €	17.15 €
	Ø 20 x 0.85 mm	5 mm	0.5 mm	D 126	TA5	0 561 641	41.35 €	32.50 €
	Ø 20 x 0.95 mm	5 mm	0.5 mm	D 181	TA5	0 561 642	41.35 €	32.50 €
	Ø 20 x 1.35 mm	5 mm	1.0 mm	D 126	TA5	0 561 643	41.35 €	32.50 €
	Ø 20 x 1.45 mm	5 mm	1.0 mm	D 181	TA5	0 561 644	41.35 €	32.50 €
	Ø 30 x 0.7 mm	6 mm	0.3 mm	D 126	TA6	0 561 651	40.00 €	30.25 €
	Ø 30 x 0.8 mm	6 mm	0.3 mm	D 181	TA6	0 561 650	40.00 €	30.25 €
	Ø 30 x 0.9 mm	6 mm	0.5 mm	D 126	TA6	0 561 653	40.00 €	30.25 €
	Ø 30 x 1.0 mm	6 mm	0.5 mm	D 181	TA6	0 561 652	40.00 €	30.25 €
	Ø 30 x 1.4 mm	6 mm	1.0 mm	D 126	TA6	0 561 655	40.00 €	30.25 €
	Ø 30 x 1.5 mm	6 mm	1.0 mm	D 181	TA6	0 561 654	40.00 €	30.25 €
	Ø 32 x 1.45 mm	8 mm	1.0 mm	D 181	TA8	0 561 617	40.00 €	30.25 €
	Ø 32 x 1.75 mm	8 mm	1.0 mm	D 356	TA8	0 561 618	40.00 €	30.25 €
	Ø 40 x 0.85 mm	10 mm	0.5 mm	D 126	TA10	0 561 656	62.25 €	48.50 €
	Ø 40 x 1.35 mm	10 mm	1.0 mm	D 126	TA10	0 561 658	62.25 €	48.50 €
	Ø 50 x 0.85 mm	13 mm	0.5 mm	D 126	TA13	0 561 661	72.30 €	56.30 €
	Ø 50 x 1.35 mm	13 mm	1.0 mm	D 126	TA13	0 561 665	72.30 €	56.30 €
	Ø 65 x 0.9 mm	8 mm	0.5 mm	D 126	TA8-G	0 561 670	104.15 €	81.60 €
	Ø 65 x 1.0 mm	8 mm	0.5 mm	D 181	TA8-G	0 561 669	104.15 €	81.60 €
	Ø 100 x 0.9 mm	22 mm	0.5 mm	D 126	-	0 561 691	95.05 €	74.25 €
	Ø 100 x 1.0 mm	22 mm	0.5 mm	D 181	-	0 561 690	95.05 €	74.25 €
	Ø 100 x 1.4 mm	22 mm	1.0 mm	D 126	-	0 561 694	95.05 €	74.25 €
	Ø 100 x 1.5 mm	22 mm	1.0 mm	D 181	-	0 561 693	95.05 €	74.25 €
Ø 125 x 1.4 mm	22 mm	1.0 mm	D 126	-	0 561 703	114.10 €	89.00 €	
Ø 125 x 1.5 mm	22 mm	1.0 mm	D 181	-	0 561 702	116.25 €	90.65 €	
Ø 150 x 1.4 mm	22 mm	1.0 mm	D 126	-	0 561 712	114.10 €	89.00 €	



Other dimensions and grit sizes on request!

Please consult **Stefan Spiegel**:

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Diamond dressers

Diamond single-stone dressers

Diamond single-stone dressers

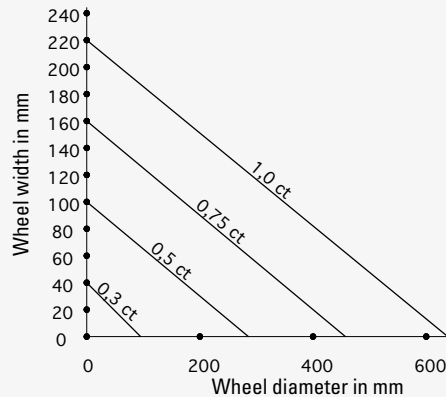
The single diamonds have at least three working points (quality 03). They have a block-shaped, firmly textured crystal shape with inclusions.

The following aspects should be noted when dressing:

- Dressing sideways forward feed 0.05 - 0.2 mm / revolution
- Adequate continuous cooling
- Always protect the diamond against blows and impacts
- Max. feed motion 0.03 mm
- Place something under the centre of the disc at an angle of inclination of 5 - 15°



Choice of single-stone dresser in relation to the grinding wheel size



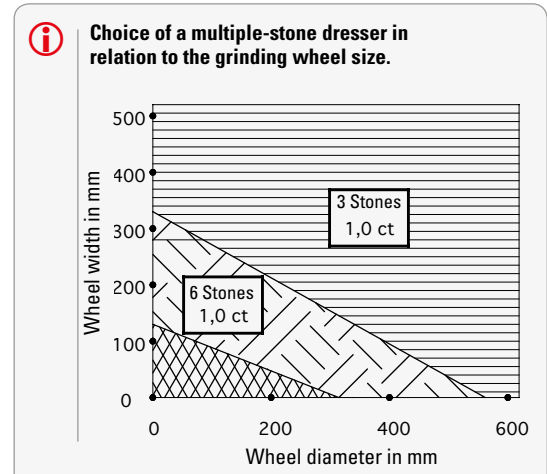
Design	Total length	Diamond weight	Order No.	Price from		
				1 piece	5 pieces	
Diamond single-stone dressers						
	Ø 8 x 30 mm	30 mm	0.3 ct	0 562 124	62.15 €	54.95 €
		30 mm	0.5 ct	0 562 130	95.05 €	84.40 €
	Ø 8 x 80 mm	80 mm	0.3 ct	0 562 184	62.15 €	54.95 €
		80 mm	0.5 ct	0 562 190	95.05 €	84.40 €
		80 mm	1 ct	0 562 194	164.00 €	144.05 €
	Ø 10 x 50 mm	50 mm	0.3 ct	0 562 154	62.15 €	54.95 €
		50 mm	0.5 ct	0 562 160	95.05 €	84.40 €
		50 mm	0.75 ct	0 562 167	119.25 €	105.80 €
	MK 0	31.5 mm	0.5 ct	0 562 010	95.05 €	84.40 €
		31.5 mm	0.75 ct	0 562 017	119.25 €	105.80 €
		31.5 mm	1 ct	0 562 018	168.00 €	147.40 €
	MK 1	49 mm	0.5 ct	0 562 040	95.05 €	84.40 €
		49 mm	0.75 ct	0 562 047	119.25 €	105.80 €
		49 mm	1 ct	0 562 048	168.00 €	147.40 €

Diamond dressers

Diamond multiple-stone dressers

Diamond multiple-stone dressers

Multi stone dressers are normally used for large, very wide grinding wheels. Since a large diamond surface is used in the multiple-stone dresser, the load is optimally distributed.




Design	Total length	Diamond distribution	Diamond weight	Order No.	Price from	
					1 piece	5 pieces
Diamond multiple-stone dressers						
 MK 0	31.5 mm	1 layer - 3 stones	1 ct	0 562 270	135.30 €	123.00 €
	31.5 mm	1 layer - 6 stones	1 ct	0 562 273	135.30 €	123.00 €
 MK 1	51 mm	1 layer - 3 stones	1 ct	0 562 271	135.30 €	123.00 €
	51 mm	1 layer - 6 stones	1 ct	0 562 274	135.30 €	123.00 €
 Ø 8 x 90 mm	90 mm	1 layer - 3 stones	1 ct	0 562 272	135.30 €	123.00 €
	90 mm	1 layer - 6 stones	1 ct	0 562 275	135.30 €	123.00 €

Diamond multi-grit dressers

Diamond multi-grit dressers

Multi-grit dressers can be used until completely worn out. The diamond disc is interspersed throughout with diamond grit. Due to the low planing forces, these dressers are predominately used for narrow, sharp-edged and pointed wheels.

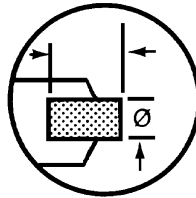
	Order No.	Price from	
		1 piece	5 pieces
Diamond multiple-grit manual dresser			
 For dressing grinding points and grinding wheels, usable diamond area Ø 5 x 5 mm, total length 120 mm	0 540 990	63.80 €	55.50 €

Diamond dressers

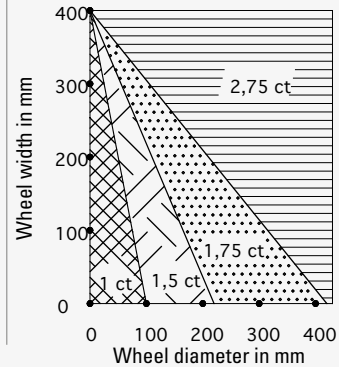
Diamond multi-grit dressers

Diamond multi-grit dressers

Multi-grit dressers can be used until completely worn out. The diamond disc is interspersed throughout with diamond grit. Due to the low planing forces, these dressers are predominately used for narrow, sharp-edged and pointed wheels.



i Choice of single-stone dresser in relation to the grinding wheel size




Design	Total length	Grit size of grinding wheel to be dressed	Diamond weight	Grit size	Order No.	Price from	
						1 piece	5 pieces
Diamond multi-grit dressers							
	40 mm	180-400	1 ct	D 213	0 562 305	65.95 €	57.00 €
	40 mm	46-120	1 ct	D 851	0 562 301	65.95 €	57.00 €
	60 mm	180-400	1.75 ct	D 213	0 562 315	78.25 €	68.00 €
	60 mm	46-120	2.75 ct	D 851	0 562 312	78.25 €	68.00 €
	100 mm	180-400	1 ct	D 213	0 562 365	65.95 €	57.00 €
	100 mm	46-120	1.4 ct	D 851	0 562 362	65.95 €	57.00 €
	150 mm	180-400	2.75 ct	D 213	0 562 386	89.20 €	77.10 €
	150 mm	46-120	2.75 ct	D 851	0 562 382	89.20 €	77.10 €

Diamond dresser, galvanic	For dressing and shaping grinding points, dimensions: 25 x 6 x 12, total length: 116 mm	Order No.	Price from
		0 560 999	1 piece
			66.45 €

Diamond abrasive sheets


joke Dia-Speed

Thickness 0.7 – 1.1 mm. Highly flexible, diamond-coated abrasive sheets. Only to be used wet in order to avoid overheating and separation of the diamond layer. Furthermore, coolants improve the chip clearance and consequently result in better surface finishing with less wear. Thanks to the high abrasive power of the diamonds, Dia-Speed abrasive sheets can also be used with low contact pressure. Applications: carbide metal, ceramic, glass, hardened steels, stone.


	Dimensions	Bonding	Grit size	Colour	Order No.	Price from 1 piece
Diamond abrasive sheets joke Dia-Speed, self-adhesive						
	75 x 75 mm	metal	D 126	black	0 403 412	32.80 €
		metal	D 76	red	0 403 413	25.75 €
		metal	D 46	yellow	0 403 414	24.75 €
		metal	D 20	white	0 403 415	24.75 €
		resin	D 15	yellow	0 403 416	13.85 €
		resin	D 7	blue	0 403 417	13.85 €
		resin	D 3	orange	0 403 418	13.85 €

Flexible diamond files

Flexible diamond files with galvanic coating, applied in spots. PCB material serves as a base. For processing hard materials with short chips.


	Dimensions	Coating dimensions	Total length	Grit size	Order No.	Price from 1 piece
Flexible diamond files						
flat						
	13 x 1.8 mm	13 x 80 mm	170 mm	D 46	0 404 351	16.55 €
		13 x 80 mm	170 mm	D 76	0 404 352	16.55 €
		13 x 80 mm	170 mm	D 126	0 404 353	16.55 €

 *matching set*

	Order No.	Price from 1 set
Flexible diamond file set (3 pieces)		
	The set contains one file of each grit size.	0 404 350 44.30 €

Diamond strips

Flexible strips with galvanic coating and synthetic backing. High stock removal with a fine grinding pattern.

	Dimensions	Grit size	Order No.	Price from 1 piece
Diamond strips				
	80 x 30 mm	D 46	0 401 871	31.25 €
		D 76	0 401 872	31.25 €

Diamond-coated PET strips PET and metal

Strip thickness 75 µm. Highly flexible abrasive film for use in tool and mould building. Particularly suited to high gloss polishing. The sheets are waterproofed and are characterised by very high tensile strength and heat resistance. Can be cut to any desired dimension. Applications: carbide metal, ceramic, glass, hardened steels, jewellery, stone.

	Dimensions	Grit size	Colour	Order No.	Price from	
					1 piece	5 pieces
Diamond-coated PET strips, self-adhesive						
	25 x 150 mm	60 µm	dark yellow	0 403 461	12.10 €	10.90 €
		40 µm	light yellow	0 403 462	11.55 €	10.55 €
		30 µm	light green	0 403 463	10.35 €	9.70 €
		15 µm	light orange	0 403 464	9.70 €	8.50 €
		9 µm	blue	0 403 465	9.70 €	8.50 €
		6 µm	cream	0 403 466	9.70 €	8.50 €
		3 µm	pink	0 403 467	9.70 €	8.50 €

matching set

	Order No.	Price from	
		1 set	5 sets
Diamond-coated PET strip set			
The set contains one sheet of each grit size.	0 403 468	66.35 €	59.70 €

Diamond-coated PET strips PET and metal

Strip thickness 0.25 – 0.4 mm. Diamond-coated metal foils with a galvanic bond that achieve very high stock removal. The foils are flexible and can be cut to size with scissors. Applications: carbide metal, ceramic, glass, hardened steels, fibreglass, jewellery, stone.

	Dimensions	Bonding	Grit size	Order No.	Price from	
					1 piece	5 pieces
Diamond-coated metal foils, self-adhesive						
	10 x 100 mm	galvanic	#120 / D126	0 403 471	14.40 €	12.55 €
		galvanic	#150 / D91	0 403 472	12.30 €	10.90 €
		galvanic	#200 / D76	0 403 473	10.75 €	9.80 €
		galvanic	#300 / D46	0 403 474	10.10 €	8.80 €
		galvanic	#400 / D30	0 403 475	9.25 €	8.20 €
		galvanic	#600 / D20	0 403 476	7.90 €	7.20 €
		galvanic	#800 / D15	0 403 477	7.90 €	7.20 €
		galvanic	#1200 / D10	0 403 478	7.90 €	7.20 €
		galvanic	#1800 / D7	0 403 479	7.90 €	7.20 €
	50 x 100 mm	galvanic	#120 / D126	0 403 481	54.05 €	46.85 €
		galvanic	#150 / D91	0 403 482	46.25 €	40.00 €
		galvanic	#200 / D76	0 403 483	41.25 €	35.90 €
		galvanic	#300 / D46	0 403 484	38.85 €	33.65 €
		galvanic	#400 / D30	0 403 485	36.10 €	31.30 €
		galvanic	#600 / D20	0 403 486	31.40 €	27.10 €
		galvanic	#800 / D15	0 403 487	31.40 €	27.10 €
		galvanic	#1200 / D10	0 403 488	31.40 €	27.10 €
		galvanic	#1800 / D7	0 403 489	31.40 €	27.10 €

For service beyond the call of duty.

- **You have an aim, but not yet a solution.**

- We can develop the complete tool on your behalf – starting with the design drafting stage, including manufacture of the blank, to coating.

- **You already know your requirements, but are still not aware of the best possible, most economical solution.**

- You provide us with your drawing (or even just a sketch) and we will deal with the rest, right down to the ready-to-use tool.

- **You already have a blank of the tool, or even a worn tool.**

- We will rework the tool on your behalf and apply the necessary coating.

Notes on manufacture of the carriers (blanks)

Material:

Blanks should preferably be made of low alloyed or unalloyed chromium-free steels, e.g. C 60, C 45, ST 37, which guarantees optimum bonding between the galvanic layer and blank. Prerequisite: fine turning, milling or grinding are adequate machining operations for surfaces to be coated.

Selection of the grit size:

It is advisable to select the grit size as coarse as the desired surface quality allows. We recommend 126 as a medium grit for general grinding of metals and hard materials. Grits > 356 should preferably not be used.

Coarser diamond grits in the range of D 181 to D 602 can be used in plastic and rubber finishing. Fine and extremely fine grits can be used for special applications.

Recoating of worn tools:

Tools with galvanic bonding, like any other tools, are subject to natural wear and tear. Since the service life of a tool considerably affects the productivity of the working process and the price of the product to be manufactured, extending tool service life is a decisive factor.

This is why our tools can be recoated several times. This is of value primarily when on the one hand, the proportion of expenditure for design and/or manufacture of the carrier has incurred a considerable percentage of the costs or when appropriately high numbers of the same tools exist.

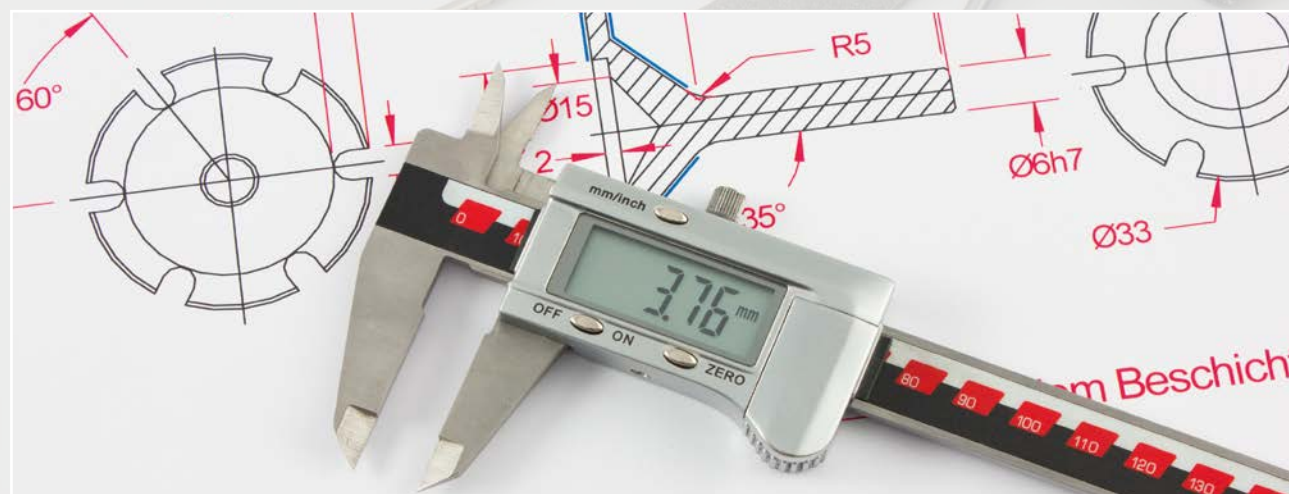
The prerequisite in this case is merely that the carrier remains free of defects in terms of true running and geometrical shape. Dressing of a damaged carrier after the coating is lost is worthwhile only in exceptional cases, since in most cases, the requisite expenditure for repairs approximates that of a newly manufactured product.

Thickness of the abrasive coating:

For a tolerated dimension in the coated area, account must be taken of the coating thickness when manufacturing the blank. Please contact our Product Manager **Stefan Spiegel** on all issues regarding **(special) diamond tools**:

Tel. +49 (0) 22 04 / 839-0

Mail s.spiegel@joke.de



Diamond and CBN special tools

Diamond and boron nitride (CBN) special tools with galvanic coating

Diamond and CBN belong to the group of „super-hard“ cutting materials owing to their hardness and resistance to wear. Galvanic bonded tools are used both in wet and dry grinding. In the case of the galvanic bonded abrasives, the diamond or CBN grit is applied to the base in a nickel layer. The grits are between 40 and 60 % embedded as standard and a high chip space volume and aggressive stock removal results from the high grit projection. The embedding depth can be further reduced for processing rubber in order to achieve a cooler cut.

The range of grit sizes for manufacturing special tools ranges from D 15 (ultrafine) to D 601 (very coarse).

Whether a diamond or CBN coating is used depends on the material to be processed. Diamond is employed for carbide metal, rubber, fibreglass reinforced plastic (FRP), carbon fibre reinforced plastic (CFR), ferrite, glass and porcelain, whereas CBN is used for HSS and annealed and hardened steels.



Diamond files

355 Diamond machine files

359 Diamond hand files



















367 Diamond slot files

368 Conical diamond files

Diamond files are the universal tools for mould builders and toolmakers. They are rapid and precise in stock removal and hard-wearing and are therefore economical to use. Optimally usable on case hardening and tenacious unhardened steels, for example during elimination of hardness distortion or burr formation on cutting, moulding and punching tools. Diamond-coated files are also used for processing of carbide metal, ceramic, glass fibre-reinforced plastics, carbon fibre-reinforced plastics, carbide metal green products, ferrites and many more.

Owing to the diamond grits projecting from the bond, optimum results can already be obtained with light contact pressure. Grit sizes of D30 (very fine) to D252 (very coarse) are available. You have a choice between diamond files for use in hand-filing machines or for manual use. The range is rounded off by conically shaped diamond files, likewise for machine and manual use. Now completely new in the range: the joke diamond slot files allow work in even the narrowest gaps.

Diamond machine ruffle files JLB shank Ø 3 mm, total length 65 mm

	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond machine ruffle files JLB, shank Ø 3 mm, galvanic bonding								
crossing								
	 4 x 2 mm	25 mm	65 mm	D 107	JLB	0 403 276-1	13.45 €	11.30 €
three-square								
	 2.5 x 2.5 mm	25 mm	65 mm	D 107	JLB	0 403 274-1	13.45 €	11.30 €
flat								
	 3.2 x 1.4 mm	25 mm	65 mm	D 107	JLB	0 403 268-1	13.45 €	11.30 €
	 6 x 1.3 mm	25 mm	65 mm	D 107	JLB	0 403 269-1	13.45 €	11.30 €
flat, angled								
	 3.2 x 1.4 mm	25 mm	65 mm	D 107	JLB	0 403 278-1	13.45 €	11.30 €
flat, bent								
	 3.2 x 1.4 mm	25 mm	65 mm	D 107	JLB	0 403 275-1	13.45 €	11.30 €
flat, cropped								
	 3.2 x 1.4 mm	25 mm	65 mm	D 107	JLB	0 403 271-1	13.45 €	11.30 €
semicircular, offset								
	 5 x 2 mm	25 mm	65 mm	D 107	JLB	0 403 277-1	13.45 €	11.30 €
round								
	 Ø 3 mm	25 mm	65 mm	D 107	JLB	0 403 273-1	13.45 €	11.30 €
round, bent								
	 Ø 3 mm	25 mm	65 mm	D 107	JLB	0 403 272-1	13.45 €	11.30 €






matching set

	Grit size	Order No.	Price from
			1 set
Diamond machine file set JLB, 10 pieces			
	D 107	0 403 270-1	95.65 €



Diamond machine files DJA

shank Ø 3 mm, total length 50 mm



	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond machine files DJA, shank Ø 3 mm, galvanic bonding								
three-square								
	2 x 2 mm	15 mm	50 mm	D 64	DJA T 2 S	0 402 416-1	13.15 €	11.90 €
		15 mm	50 mm	D 91	DJA T 2 S	0 402 417-1	13.15 €	11.90 €
		15 mm	50 mm	D 126	DJA T 2 S	0 402 418-1	13.15 €	11.90 €
flat								
	2 x 1 mm	15 mm	50 mm	D 64	DJA 2 x 1 S	0 402 016-1	13.15 €	11.90 €
		15 mm	50 mm	D 91	DJA 2 x 1 S	0 402 017-1	13.15 €	11.90 €
		15 mm	50 mm	D 126	DJA 2 x 1 S	0 402 018-1	13.15 €	11.90 €
		15 mm	50 mm	D 151	DJA 2 x 1 S	0 402 019-1	13.15 €	11.90 €
	3 x 1 mm	15 mm	50 mm	D 64	DJA 3 x 1 S	0 402 026-1	13.15 €	11.90 €
		15 mm	50 mm	D 91	DJA 3 x 1 S	0 402 027-1	13.15 €	11.90 €
		15 mm	50 mm	D 126	DJA 3 x 1 S	0 402 028-1	13.15 €	11.90 €
		15 mm	50 mm	D 151	DJA 3 x 1 S	0 402 029-1	13.15 €	11.90 €
	4 x 1 mm	15 mm	50 mm	D 64	DJA 4 x 1 S	0 402 036-1	13.15 €	11.90 €
		15 mm	50 mm	D 91	DJA 4 x 1 S	0 402 037-1	13.15 €	11.90 €
		15 mm	50 mm	D 126	DJA 4 x 1 S	0 402 038-1	13.15 €	11.90 €
		15 mm	50 mm	D 151	DJA 4 x 1 S	0 402 039-1	13.15 €	11.90 €
5 x 2 mm	15 mm	50 mm	D 64	DJA 5 x 2 S	0 402 046-1	13.15 €	11.90 €	
	15 mm	50 mm	D 91	DJA 5 x 2 S	0 402 047-1	13.15 €	11.90 €	
	15 mm	50 mm	D 126	DJA 5 x 2 S	0 402 048-1	13.15 €	11.90 €	
	15 mm	50 mm	D 151	DJA 5 x 2 S	0 402 049-1	13.15 €	11.90 €	
flat, safe-sided file								
	2 x 1 mm	15 mm	50 mm	D 64	DJA 2 x 1	0 402 011-1	13.15 €	11.90 €
		15 mm	50 mm	D 151	DJA 2 x 1	0 402 012-1	13.15 €	11.90 €
	3 x 1 mm	15 mm	50 mm	D 64	DJA 3 x 1	0 402 021-1	13.15 €	11.90 €
		15 mm	50 mm	D 151	DJA 3 x 1	0 402 022-1	13.15 €	11.90 €
5 x 2 mm	15 mm	50 mm	D 64	DJA 5 x 2	0 402 041-1	13.15 €	11.90 €	
	15 mm	50 mm	D 151	DJA 5 x 2	0 402 042-1	13.15 €	11.90 €	
flat, safe-sided file, edge-cutting								
	0.5 x 4 mm	15 mm	50 mm	D 64	DJA 0,5 x 4	0 402 111-1	13.15 €	11.90 €
		15 mm	50 mm	D 151	DJA 0,5 x 4	0 402 112-1	13.15 €	11.90 €
	1 x 4 mm	15 mm	50 mm	D 64	DJA 1 x 4	0 402 131-1	13.15 €	11.90 €
		15 mm	50 mm	D 151	DJA 1 x 4	0 402 132-1	13.15 €	11.90 €
round								
	Ø 1 mm	15 mm	50 mm	D 64	DJA 1	0 402 211-1	12.10 €	10.90 €
		15 mm	50 mm	D 91	DJA 1	0 402 216-1	12.10 €	10.90 €
		15 mm	50 mm	D 126	DJA 1	0 402 217-1	12.10 €	10.90 €
	Ø 2 mm	15 mm	50 mm	D 64	DJA 2	0 402 221-1	12.10 €	10.90 €
		15 mm	50 mm	D 91	DJA 2	0 402 226-1	12.10 €	10.90 €
		15 mm	50 mm	D 126	DJA 2	0 402 227-1	12.10 €	10.90 €
	Ø 3 mm	15 mm	50 mm	D 64	DJA 3	0 402 231-1	12.10 €	10.90 €
		15 mm	50 mm	D 91	DJA 3	0 402 236-1	12.10 €	10.90 €
		15 mm	50 mm	D 126	DJA 3	0 402 237-1	12.10 €	10.90 €



Other shapes, dimensions and grit sizes available at short notice!

Please consult **Stefan Spiegel**:
Tel. +49 (0) 22 04 / 8 39-0 • s.spiegel@joke.de

Diamond machine files DJE shank Ø 3 mm, total length 85 mm

	Dimensions	Coating dimensions	Shank dimensions	Total length	Grit size	Type	Order No.	Price from	
								1 piece	5 pieces
Diamond machine files DJE, shank Ø 3 mm, galvanic bonding									
flat, safe-sided file									
	5 x 1.5 mm	45 mm	Ø 3	85 mm	D 30	DJE 1	0 402 610	15.30 €	13.60 €
		45 mm	Ø 3	85 mm	D 91	DJE 1	0 402 616	15.30 €	13.60 €
		45 mm	Ø 3	85 mm	D 126	DJE 1	0 402 612	15.30 €	13.60 €
		45 mm	Ø 3	85 mm	D 181	DJE 1	0 402 613	15.30 €	13.60 €
round									
	Ø 3 mm	45 mm	Ø 3	85 mm	D 30	DJE 2	0 402 620	15.30 €	13.60 €
		45 mm	Ø 3	85 mm	D 91	DJE 2	0 402 626	15.30 €	13.60 €
		45 mm	Ø 3	85 mm	D 126	DJE 2	0 402 622	15.30 €	13.60 €
		45 mm	Ø 3	85 mm	D 181	DJE 2	0 402 623	15.30 €	13.60 €



Diamond machine files DJA and DJE are partially coated, especially convenient if adjacent surfaces are not to be processed!



flat




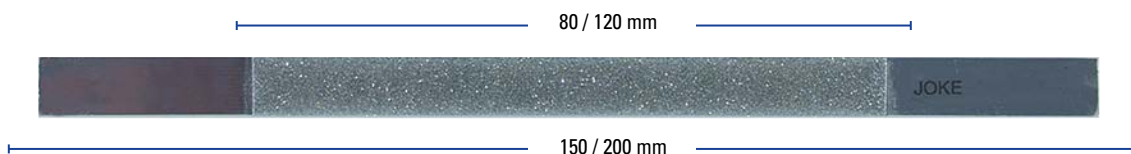
flat, safe-sided file



flat, file, only edges coated

Diamond machine files DLM total length 150 / 200 mm


	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond machine files DLM, galvanic bonding								
flat								
	9 x 3.2 mm	80 mm	150 mm	D 91	DLM 13	0 404 031	32.60 €	29.85 €
		80 mm	150 mm	D 126	DLM 13	0 404 032	32.60 €	29.85 €
	11 x 3.8 mm	120 mm	200 mm	D 91	DLM 16	0 404 041	55.50 €	50.45 €
		120 mm	200 mm	D 126	DLM 16	0 404 042	55.50 €	50.45 €




Other shapes, dimensions and grit sizes available at short notice!

Diamond machine files DLGB










shank Ø 5 mm, total length 180 mm

	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond machine files DLGB, shank Ø 5 mm, galvanic bonding								
flat								
	10 x 2.5 mm	90 mm	180 mm	D 91	DLGB	0 403 510	45.00 €	40.60 €
		90 mm	180 mm	D 126	DLGB	0 403 511	45.00 €	40.60 €
		90 mm	180 mm	D 181	DLGB	0 403 512	45.00 €	40.60 €


 *matching set*

	Grit size	Order No.	Price from			
			1 set	5 set		
Diamond machine file set DLGB, 5 pieces						
	The sets consist of the following files respectively:		D 91	0 403 500	167.00 €	147.60 €
	1 x flat 10 x 2.5 mm		D 126	0 403 501	167.00 €	147.60 €
	1 x round Ø 5.5 mm		D 181	0 403 502	167.00 €	147.60 €
	1 x triangular 6 mm					
	1 x square 4.5 mm					
1 x semi-circular 8.5 x 3 mm						

Diamond hand files DIPROFIL® DBH shank Ø 3 mm, total length 140 mm

















	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond hand files DIPROFIL® DBH, shank Ø 3 mm, galvanic bonding								
flat								
	6 x 1.5 mm	70 mm	140 mm	D 46	DBH-1	0 403 011-1	20.20 €	17.55 €
		70 mm	140 mm	D 76	DBH-1	0 403 012-1	20.20 €	17.55 €
		70 mm	140 mm	D 126	DBH-1	0 403 013-1	20.20 €	17.55 €
flat, rounded								
	6 x 1.5 mm	70 mm	140 mm	D 46	DBH-10	0 403 121-1	20.20 €	17.55 €
		70 mm	140 mm	D 76	DBH-10	0 403 122-1	20.20 €	17.55 €
		70 mm	140 mm	D 126	DBH-10	0 403 123-1	20.20 €	17.55 €
triangular								
	3.5 mm	70 mm	140 mm	D 46	DBH-5	0 403 031-1	20.20 €	17.55 €
		70 mm	140 mm	D 76	DBH-5	0 403 032-1	20.20 €	17.55 €
		70 mm	140 mm	D 126	DBH-5	0 403 033-1	20.20 €	17.55 €
square								
	2.5 x 2.5 mm	70 mm	140 mm	D 46	DBH-6	0 403 041-1	20.20 €	17.55 €
		70 mm	140 mm	D 76	DBH-6	0 403 042-1	20.20 €	17.55 €
		70 mm	140 mm	D 126	DBH-6	0 403 043-1	20.20 €	17.55 €
halfround								
	5 x 2 mm	70 mm	140 mm	D 46	DBH-3	0 403 051-1	20.20 €	17.55 €
		70 mm	140 mm	D 76	DBH-3	0 403 052-1	20.20 €	17.55 €
		70 mm	140 mm	D 126	DBH-3	0 403 053-1	20.20 €	17.55 €
round								
	Ø 3 mm	70 mm	140 mm	D 46	DBH-2	0 403 061-1	20.20 €	17.55 €
		70 mm	140 mm	D 76	DBH-2	0 403 062-1	20.20 €	17.55 €
		70 mm	140 mm	D 126	DBH-2	0 403 063-1	20.20 €	17.55 €
knife								
	1.7 x 6 mm	70 mm	140 mm	D 46	DBH-9	0 403 071-1	20.20 €	17.55 €
		70 mm	140 mm	D 76	DBH-9	0 403 072-1	20.20 €	17.55 €
		70 mm	140 mm	D 126	DBH-9	0 403 073-1	20.20 €	17.55 €
crossing								
	5 x 2 mm	70 mm	140 mm	D 46	DBH-4	0 403 091-1	20.20 €	17.55 €
		70 mm	140 mm	D 76	DBH-4	0 403 092-1	20.20 €	17.55 €
		70 mm	140 mm	D 126	DBH-4	0 403 093-1	20.20 €	17.55 €
beret								
	6 x 2 mm	70 mm	140 mm	D 46	DBH-7	0 403 101-1	20.20 €	17.55 €
		70 mm	140 mm	D 76	DBH-7	0 403 102-1	20.20 €	17.55 €
		70 mm	140 mm	D 126	DBH-7	0 403 103-1	20.20 €	17.55 €

matching set


	Grit size	Order No.	Price from
			1 set
Diamond hand files set DIPROFIL® DBH, 10 pieces			
	D 46	0 403 001-1	129.90 €
	D 76	0 403 002-1	129.90 €
	D 126	0 403 003-1	129.90 €

Diamond hand files DLH











shank Ø 3 mm, total length 140 mm

	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond hand files DLH, shank Ø 3 mm, galvanic bonding								
crossing								
	5 x 2.3 mm	70 mm	140 mm	D 126	DLH 92	0 403 092	17.35 €	15.00 €
triangular								
	3.5 mm	70 mm	140 mm	D 91	DLH 32	0 403 031	17.25 €	15.10 €
		70 mm	140 mm	D 126	DLH 32	0 403 032	17.25 €	15.10 €
		70 mm	140 mm	D 181	DLH 32	0 403 033	17.25 €	15.10 €
flat								
	5 x 1.5 mm	70 mm	140 mm	D 91	DLH 12	0 403 011	17.25 €	15.10 €
		70 mm	140 mm	D 126	DLH 12	0 403 012	17.25 €	15.10 €
		70 mm	140 mm	D 181	DLH 12	0 403 013	17.25 €	15.10 €
halfround								
	5.5 x 2 mm	70 mm	140 mm	D 91	DLH 52	0 403 051	17.25 €	15.10 €
		70 mm	140 mm	D 126	DLH 52	0 403 052	17.25 €	15.10 €
		70 mm	140 mm	D 181	DLH 52	0 403 053	17.25 €	15.10 €
square								
	2.5 x 2.5 mm	70 mm	140 mm	D 91	DLH 42	0 403 041	17.25 €	15.10 €
		70 mm	140 mm	D 126	DLH 42	0 403 042	17.25 €	15.10 €
		70 mm	140 mm	D 181	DLH 42	0 403 043	17.25 €	15.10 €
round								
	Ø 3 mm	70 mm	140 mm	D 91	DLH 62	0 403 061	17.25 €	15.10 €
		70 mm	140 mm	D 126	DLH 62	0 403 062	17.25 €	15.10 €
		70 mm	140 mm	D 181	DLH 62	0 403 063	17.25 €	15.10 €

 *matching set*

	Grit size	Order No.	Price from
			1 set
Diamond hand files set DLH, 5 pieces			
	D 91	0 403 001	74.85 €
	D 126	0 403 002	74.85 €
	D 181	0 403 003	74.85 €

Diamond hand files DIPROFIL® DLD shank Ø 3 mm, total length 140 mm






	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond hand files DIPROFIL® DLD, shank Ø 3 mm, galvanic bonding								
flat								
	2 x 1.2 mm	20 mm	140 mm	D 107	DLD-1	0 403 280	14.80 €	12.45 €
square								
	2.5 x 2.5 mm	20 mm	140 mm	D 107	DLD-2	0 403 281	14.80 €	12.45 €
flat								
	3 x 1.5 mm	20 mm	140 mm	D 107	DLD-3	0 403 282	14.80 €	12.45 €
triangular								
	3 x 3 mm	20 mm	140 mm	D 107	DLD-4	0 403 283	14.80 €	12.45 €
halfround								
	5 x 2 mm	20 mm	140 mm	D 107	DLD-5	0 403 284	14.80 €	12.45 €
flat, angled								
	3.2 x 1.5 mm	20 mm	140 mm	D 107	DLD-6	0 403 285	14.80 €	12.45 €
crossing								
	4 x 2.2 mm	20 mm	140 mm	D 107	DLD-7	0 403 286	14.80 €	12.45 €
round, bent								
	Ø 2.5 mm	15 mm	140 mm	D 107	DLD-8	0 403 287	14.80 €	12.45 €
knife								
	5 x 1.5 mm	20 mm	140 mm	D 107	DLD-9	0 403 288	14.80 €	12.45 €
round								
	Ø 2.5 mm	20 mm	140 mm	D 107	DLD-10	0 403 289	14.80 €	12.45 €

 *matching set*


	Grit size	Order No.	Price from
			1 set
Diamond hand files set DIPROFIL® DLD, 10 pieces			
	D 107	0 403 290	102.95 €

Diamond hand files DLK






shank 2.2 x 2.2 mm, total length 140 mm

Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from		
						1 piece	5 pieces	
Diamond hand files DLK, shank Ø 2.2 x 2.2 mm, galvanic bonding								
flat								
	4 x 1.3 mm	40 mm	140 mm	D 15	DLK 1	0 402 888	16.05 €	13.10 €
		40 mm	140 mm	D 30	DLK 1	0 402 813	16.05 €	13.10 €
		40 mm	140 mm	D 54	DLK 1	0 402 814	16.05 €	13.10 €
		40 mm	140 mm	D 91	DLK 1	0 402 811	16.05 €	13.10 €
		40 mm	140 mm	D 126	DLK 1	0 402 812	16.05 €	13.10 €
triangular								
	3.2 x 3.2 mm	40 mm	140 mm	D 15	DLK 2	0 402 827	16.05 €	13.10 €
		40 mm	140 mm	D 30	DLK 2	0 402 823	16.05 €	13.10 €
		40 mm	140 mm	D 54	DLK 2	0 402 824	16.05 €	13.10 €
		40 mm	140 mm	D 91	DLK 2	0 402 821	16.05 €	13.10 €
		40 mm	140 mm	D 126	DLK 2	0 402 822	16.05 €	13.10 €
square								
	1.8 x 1.8 mm	40 mm	140 mm	D 15	DLK 3	0 402 836	16.05 €	13.10 €
		40 mm	140 mm	D 30	DLK 3	0 402 833	16.05 €	13.10 €
		40 mm	140 mm	D 54	DLK 3	0 402 834	16.05 €	13.10 €
		40 mm	140 mm	D 91	DLK 3	0 402 831	16.05 €	13.10 €
		40 mm	140 mm	D 126	DLK 3	0 402 832	16.05 €	13.10 €
halfround								
	4.1 x 1.8 mm	40 mm	140 mm	D 15	DLK 4	0 402 847	16.05 €	13.10 €
		40 mm	140 mm	D 30	DLK 4	0 402 843	16.05 €	13.10 €
		40 mm	140 mm	D 54	DLK 4	0 402 844	16.05 €	13.10 €
		40 mm	140 mm	D 91	DLK 4	0 402 841	16.05 €	13.10 €
		40 mm	140 mm	D 126	DLK 4	0 402 842	16.05 €	13.10 €
round								
	Ø 1.6 mm	40 mm	140 mm	D 15	DLK 5	0 402 856	16.05 €	13.10 €
		40 mm	140 mm	D 30	DLK 5	0 402 853	16.05 €	13.10 €
		40 mm	140 mm	D 54	DLK 5	0 402 854	16.05 €	13.10 €
		40 mm	140 mm	D 91	DLK 5	0 402 851	16.05 €	13.10 €
		40 mm	140 mm	D 126	DLK 5	0 402 852	16.05 €	13.10 €


 *matching set*

	Grit size	Order No.	Price from	
			1 set	5 set
Diamond hand files set DLK, 5 pieces				
	D 15	0 402 803-1	74.65 €	60.60 €
	D 30	0 402 803	74.65 €	60.60 €
	D 91	0 402 801	74.65 €	60.60 €
	D 54	0 402 804	74.65 €	60.60 €
	D 126	0 402 802	74.65 €	60.60 €

Diamond hand files DXS shank Ø 2-3 mm, total length 140 mm

	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from		
							1 piece	5 pieces	10 pieces
Diamond hand files DXS, shank-Ø 2-3 mm, galvanic bonding									
flat									
	5.1 x 0.9 mm	70 mm	140 mm	D 54	DXS	0 403 181	24.30 €	22.05 €	21.05 €
		70 mm	140 mm	D 91	DXS	0 403 182	24.30 €	22.05 €	21.05 €
		70 mm	140 mm	D 126	DXS	0 403 183	24.30 €	22.05 €	21.05 €
triangular									
	2.7 mm	70 mm	140 mm	D 54	DXS	0 403 184	24.30 €	22.05 €	21.05 €
		70 mm	140 mm	D 91	DXS	0 403 185	24.30 €	22.05 €	21.05 €
		70 mm	140 mm	D 126	DXS	0 403 186	24.30 €	22.05 €	21.05 €
square									
	2.9 mm	70 mm	140 mm	D 54	DXS	0 403 187	24.30 €	22.05 €	21.05 €
		70 mm	140 mm	D 91	DXS	0 403 188	24.30 €	22.05 €	21.05 €
		70 mm	140 mm	D 126	DXS	0 403 189	24.30 €	22.05 €	21.05 €
halfround									
	3.8 x 1.5 mm	70 mm	140 mm	D 54	DXS	0 403 190	24.30 €	22.05 €	21.05 €
		70 mm	140 mm	D 91	DXS	0 403 191	24.30 €	22.05 €	21.05 €
		70 mm	140 mm	D 126	DXS	0 403 192	24.30 €	22.05 €	21.05 €
round									
	Ø 2.8 mm	70 mm	140 mm	D 54	DXS	0 403 193	24.30 €	22.05 €	21.05 €
		70 mm	140 mm	D 91	DXS	0 403 194	24.30 €	22.05 €	21.05 €
		70 mm	140 mm	D 126	DXS	0 403 195	24.30 €	22.05 €	21.05 €

matching set






	Grit size	Order No.	Price from 1 set
Diamond hand files set DXS, 5 pieces			
	D 54	0 403 196	98.40 €
	D 91	0 403 197	98.40 €
	D 126	0 403 198	98.40 €


DXS = EXTRA NARROW

Flat files are ideal for working on components where access is difficult. When there is barely space for a sheet in between, these extra flat files with diamond coating are ideal. They allow you to reach slots or corners that you would previously never dared to imagine.

Diamond hand files DLG

shank 6 x 6 mm, total length 215 mm


	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond hand files DLG, shank Ø 6 x 6 mm, galvanic bonding								
triangular								
	10 mm	110 mm	215 mm	D 91	DLG	0 402 921	61.00 €	52.80 €
		110 mm	215 mm	D 126	DLG	0 402 922	61.00 €	52.80 €
		110 mm	215 mm	D 181	DLG	0 402 923	61.00 €	52.80 €
flat								
	10 x 3 mm	110 mm	215 mm	D 91	DLG	0 402 911	55.15 €	47.80 €
		110 mm	215 mm	D 126	DLG	0 402 912	55.15 €	47.80 €
		110 mm	215 mm	D 181	DLG	0 402 913	55.15 €	47.80 €
halfround								
	12.5 x 4 mm	110 mm	215 mm	D 91	DLG	0 402 941	53.30 €	46.05 €
		110 mm	215 mm	D 126	DLG	0 402 942	53.30 €	46.05 €
		110 mm	215 mm	D 181	DLG	0 402 943	53.30 €	46.05 €
square								
	6.1 mm	110 mm	215 mm	D 91	DLG	0 402 931	43.30 €	37.35 €
		110 mm	215 mm	D 126	DLG	0 402 932	43.30 €	37.35 €
		110 mm	215 mm	D 181	DLG	0 402 933	43.30 €	37.35 €
round								
	Ø 6.8 mm	110 mm	215 mm	D 91	DLG	0 402 951	35.40 €	30.65 €
		110 mm	215 mm	D 126	DLG	0 402 952	35.40 €	30.65 €
		110 mm	215 mm	D 181	DLG	0 402 953	35.40 €	30.65 €

Accessories / spare parts






	Order No.	Price from
File holder, with spring-loaded rotary knob tensioning, for DLG diamond files		1 piece
	0 402 908	15.50 €



matching set


	Grit size	Order No.	Price from
Diamond hand files set DLG, 5 pieces			1 set
	D 91	0 402 901	218.00 €
	D 126	0 402 902	218.00 €
	D 181	0 402 903	218.00 €

Diamond workshop files DWF-K coating length 160 mm, total length 200 mm

	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond workshop files DWF-K, galvanic bonding								
triangular								
	14 mm	160 mm	200 mm	D 126	DWF-K	0 404 411-1	124.55 €	106.75 €
flat								
	5 x 20 mm	160 mm	200 mm	D 126	DWF-K	0 404 401-1	108.70 €	93.20 €
halfround								
	Ø 6 x 21 mm	160 mm	200 mm	D 126	DWF-K	0 404 431-1	137.60 €	117.90 €
square								
	8 mm	160 mm	200 mm	D 126	DWF-K	0 404 421-1	120.75 €	103.45 €
round								
	Ø 8 mm	160 mm	200 mm	D 126	DWF-K	0 404 441-1	103.75 €	89.00 €










Diamond workshop files DWF coating length 180 mm, total length 220 mm


	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond workshop files DWF, galvanic bonding								
flat								
	5 x 20 mm	180 mm	220 mm	D 126	DWF	0 404 401	223.00 €	180.00 €
		180 mm	220 mm	D 181	DWF	0 404 402	223.00 €	180.00 €








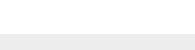
Diamond ruffle hand files, ruffle files DLR total length 150 mm

	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond ruffle hand files DLR, galvanic bonding								
crossing								
	3.8 x 1.7 mm	2 x 25 mm	150 mm	D 91	DLR 16	0 403 211	22.35 €	20.20 €
		2 x 25 mm	150 mm	D 126	DLR 16	0 403 212	22.35 €	20.20 €
		2 x 25 mm	150 mm	D 181	DLR 16	0 403 213	22.35 €	20.20 €
triangular								
	2.9 mm	2 x 25 mm	150 mm	D 91	DLR 22	0 403 241	22.35 €	20.20 €
		2 x 25 mm	150 mm	D 126	DLR 22	0 403 242	22.35 €	20.20 €
		2 x 25 mm	150 mm	D 181	DLR 22	0 403 243	22.35 €	20.20 €
flat								
	2.5 x 1.8 mm	2 x 25 mm	150 mm	D 91	DLR 18	0 403 221	22.35 €	20.20 €
		2 x 25 mm	150 mm	D 126	DLR 18	0 403 222	22.35 €	20.20 €
		2 x 25 mm	150 mm	D 181	DLR 18	0 403 223	22.35 €	20.20 €
square								
	2.6 x 2.6 mm	2 x 25 mm	150 mm	D 91	DLR 20	0 403 231	22.35 €	20.20 €
		2 x 25 mm	150 mm	D 126	DLR 20	0 403 232	22.35 €	20.20 €
		2 x 25 mm	150 mm	D 181	DLR 20	0 403 233	22.35 €	20.20 €
square, flat								
	2 x 2 mm	2 x 25 mm	150 mm	D 91	DLR 20-1	0 403 231-1	22.35 €	20.20 €
		2 x 25 mm	150 mm	D 126	DLR 20-1	0 403 232-1	22.35 €	20.20 €
		2 x 25 mm	150 mm	D 181	DLR 20-1	0 403 233-1	22.35 €	20.20 €
round								
	Ø 2.2 mm	2 x 25 mm	150 mm	D 91	DLR 26	0 403 261	25.85 €	23.50 €
		2 x 25 mm	150 mm	D 126	DLR 26	0 403 262	25.85 €	23.50 €
		2 x 25 mm	150 mm	D 181	DLR 26	0 403 263	25.85 €	23.50 €
round, bent								
	Ø 2.5 mm	2 x 25 mm	150 mm	D 91	DLR 23	0 403 251	22.35 €	20.20 €
		2 x 25 mm	150 mm	D 126	DLR 23	0 403 252	22.35 €	20.20 €
		2 x 25 mm	150 mm	D 181	DLR 23	0 403 253	22.35 €	20.20 €

Accessories / spare parts

	Order No.	Price from
		1 piece
File holder for ruffle files up to 150 mm length		
	0 400 890	7.30 €

Diamond slot files DSF total length 140-180 mm

	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond slot file DSF, with wooden haft, galvanic bonding								
flat								
	4 x 0.2 mm	50 mm	140 mm	D 64	DSF	0 402 140	17.65 €	16.00 €
	4 x 0.3 mm	50 mm	140 mm	D 64	DSF	0 402 141	17.65 €	16.00 €
	4 x 0.4 mm	50 mm	140 mm	D 64	DSF	0 402 142	17.65 €	16.00 €
	4 x 0.5 mm	50 mm	140 mm	D 91	DSF	0 402 143	17.65 €	16.00 €
		50 mm	140 mm	D 64	DSF	0 402 144	17.65 €	16.00 €
	50 mm	140 mm	D 91	DSF	0 402 145	17.65 €	16.00 €	
	8 x 0.2 mm	50 mm	160 mm	D 64	DSF	0 402 150	17.65 €	16.00 €
	8 x 0.3 mm	50 mm	160 mm	D 64	DSF	0 402 151	17.65 €	16.00 €
	8 x 0.4 mm	50 mm	160 mm	D 64	DSF	0 402 152	17.65 €	16.00 €
	8 x 0.5 mm	50 mm	160 mm	D 91	DSF	0 402 153	17.65 €	16.00 €
		50 mm	160 mm	D 64	DSF	0 402 154	17.65 €	16.00 €
	50 mm	160 mm	D 91	DSF	0 402 155	17.65 €	16.00 €	
	13 x 0.2 mm	80 mm	180 mm	D 64	DSF	0 402 160	31.80 €	28.85 €
	13 x 0.3 mm	80 mm	180 mm	D 64	DSF	0 402 161	31.80 €	28.85 €
	13 x 0.4 mm	80 mm	180 mm	D 64	DSF	0 402 162	31.80 €	28.85 €
	13 x 0.5 mm	80 mm	180 mm	D 126	DSF	0 402 163	31.80 €	28.85 €
		80 mm	180 mm	D 64	DSF	0 402 164	31.80 €	28.85 €
	80 mm	180 mm	D 126	DSF	0 402 165	31.80 €	28.85 €	




Looking for another size?

No problem! Other widths, grit sizes and thicknesses of between 0.1 and 1 mm are available at short notice!

Please consult **Stefan Spiegel**: Tel. +49 (0) 22 04 / 8 39 66
Mail: s.spiegel@joke.de

Diamond hand file sets shank Ø 3 mm

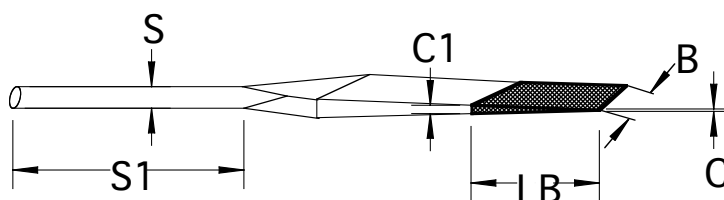
	Coating dimensions	Shank dimensions	Total length	Grit size	Packing quantity	Order No.	Price from
							1 set
Diamond hand files set shank Ø 3 mm, 5 pieces							
	50 mm	Ø 3 mm	180 mm	D 126	5 pieces	0 403 010	43.70 €
	70 mm	Ø 3 mm	140 mm	D 151	5 pieces	0 403 009	43.70 €

consisting of 1 piece each:
flat file 6 x 1.4 mm
half-round file 6 x 1.9 mm
round file Ø 3.4 mm
square file 2.9 mm
three-square file 3.9 mm


Conical diamond machine files DIPROFIL® DLM

shank Ø 3 mm, total length 90 mm

	Coating dimensions	Coating thickness	Shank dimensions	Total length	Grit size	Order No.	Price from	
							1 piece	10 pieces
Conical diamond machine files DIPROFIL® DLM								
	2.5 x 30 mm	0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 46	0 402 541	14.90 €	13.05 €
		0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 30	0 402 565	14.90 €	13.05 €
		0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 76	0 402 566	14.90 €	13.05 €
		0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 107	0 402 542	14.90 €	13.05 €
	4 x 30 mm	0.3 / 1.4 mm	Ø 3 x 40 mm	90 mm	D 46	0 402 543	14.90 €	13.05 €
		0.3 / 1.4 mm	Ø 3 x 40 mm	90 mm	D 30	0 402 568	14.90 €	13.05 €
		0.3 / 1.4 mm	Ø 3 x 40 mm	90 mm	D 76	0 402 569	14.90 €	13.05 €
		0.3 / 1.4 mm	Ø 3 x 40 mm	90 mm	D 107	0 402 544	14.90 €	13.05 €
	6 x 30 mm	0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 46	0 402 545	15.70 €	13.95 €
		0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 30	0 402 575	15.70 €	13.95 €
		0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 76	0 402 576	15.70 €	13.95 €
		0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 107	0 402 546	15.70 €	13.95 €

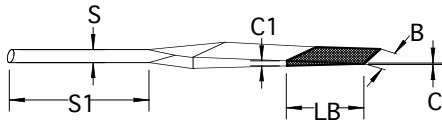


matching set

	Grit size	Order No.	Price from
			1 set
Conical diamond machine file set DIPROFIL® DLM, 6 pieces			
	D 30 / D 46	0 402 570	78.15 €
	D 46 / D 107	0 402 540	80.10 €
	D 76 / D 107	0 402 580	78.15 €

Conical diamond machine files DLSF shank \varnothing 3 mm, total length 56 / 72 mm

	Coating dimensions	Coating thickness	Shank dimensions	Total length	Grit size	Order No.	Price from	
							1 piece	10 pieces
Conical diamond machine files DLSF, shank \varnothing 3 mm								
	3 x 15 mm	0.5 / 0.9 mm	\varnothing 3 x 20 mm	72 mm	# 200	0 403 724	9.15 €	8.00 €
		0.5 / 0.9 mm	\varnothing 3 x 20 mm	72 mm	# 400	0 403 725	9.15 €	8.00 €
		0.5 / 0.9 mm	\varnothing 3 x 20 mm	72 mm	# 600	0 403 726	9.15 €	8.00 €
		0.5 / 1.3 mm	\varnothing 3 x 20 mm	56 mm	# 200	0 403 721	9.15 €	8.00 €
		0.5 / 1.3 mm	\varnothing 3 x 20 mm	56 mm	# 400	0 403 722	9.15 €	8.00 €
		0.5 / 1.3 mm	\varnothing 3 x 20 mm	56 mm	# 600	0 403 723	9.15 €	8.00 €
	6 x 15 mm	0.5 / 0.9 mm	\varnothing 3 x 18 mm	72 mm	# 200	0 403 730	9.15 €	8.00 €
		0.5 / 0.9 mm	\varnothing 3 x 18 mm	72 mm	# 400	0 403 731	9.15 €	8.00 €
		0.5 / 0.9 mm	\varnothing 3 x 18 mm	72 mm	# 600	0 403 732	9.15 €	8.00 €
		0.5 / 1.3 mm	\varnothing 3 x 18 mm	56 mm	# 200	0 403 727	9.15 €	8.00 €
		0.5 / 1.3 mm	\varnothing 3 x 18 mm	56 mm	# 400	0 403 728	9.15 €	8.00 €
		0.5 / 1.3 mm	\varnothing 3 x 18 mm	56 mm	# 600	0 403 729	9.15 €	8.00 €




matching set

	Order No.	Price from
		1 set
Conical diamond machine files DLSF, 12 pieces	0 403 720	88.20 €



Conical diamond machine files DLC


shank \varnothing 4 x 1 x 15 mm, total length 73 mm

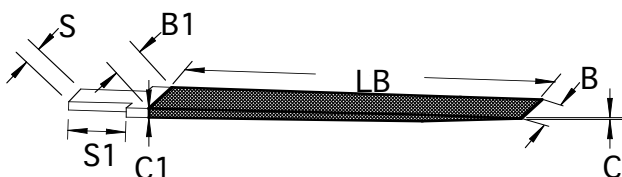
	Coating dimensions	Coating thickness	Shank dimensions	Total length	Grit size	Order No.	Price from	
							1 piece	5 pieces
Conical diamond machine files DLC, shank 4 x 1 x 15 mm								
	2 / 3 x 40 mm	0.5 / 1 mm	4 x 1 x 15 mm	73 mm	# 200	0 403 671	4.88 €	4.46 €
		0.5 / 1 mm	4 x 1 x 15 mm	73 mm	# 400	0 403 672	4.88 €	4.46 €
	3 / 4 x 40 mm	0.5 / 1 mm	4 x 1 x 15 mm	73 mm	# 600	0 403 673	4.88 €	4.46 €
		0.5 / 1 mm	4 x 1 x 15 mm	73 mm	# 120	0 403 674	4.88 €	4.46 €
		0.5 / 1 mm	4 x 1 x 15 mm	73 mm	# 200	0 403 675	4.88 €	4.46 €
		0.5 / 1 mm	4 x 1 x 15 mm	73 mm	# 400	0 403 676	4.88 €	4.46 €
6 / 6 x 40 mm	0.5 / 1 mm	4 x 1 x 15 mm	73 mm	# 600	0 403 677	4.88 €	4.46 €	
	0.5 / 1 mm	4 x 1 x 15 mm	73 mm	# 200	0 403 678	5.85 €	4.93 €	
	0.5 / 1 mm	4 x 1 x 15 mm	73 mm	# 400	0 403 679	5.85 €	4.93 €	
	0.5 / 1 mm	4 x 1 x 15 mm	73 mm	# 600	0 403 680	5.85 €	4.93 €	

Accessories / spare parts

	Order No.	Price from
File holder for conical diamond files DLP and DLC		1 piece
	0 403 690	12.30 €

matching set

	Order No.	Price from
Conical diamond machine file set DLC, 10 pieces		1 set
	0 403 670	41.95 €

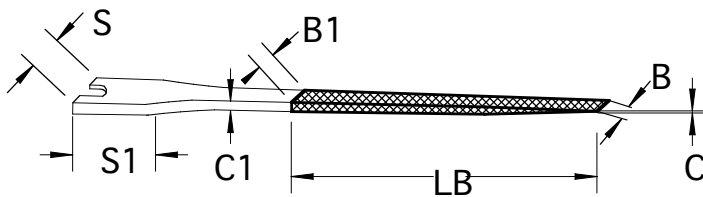


Conical diamond machine files DLFL shank $\varnothing 8 \times 1 \times 20$ mm, total length 60 / 70 / 90 mm

	Coating dimensions	Coating thickness	Shank dimensions	Total length	Grit size	Order No.	Price from	
							1 piece	5 pieces
Conical diamond machine files DLFL, shank 8 x 1 x 20 mm								
	2/4 x 25 mm	0.5 / 1 mm	8 x 1 x 20 mm	60 mm	# 200	0 403 642	4.25 €	3.64 €
		0.5 / 1 mm	8 x 1 x 20 mm	60 mm	# 400	0 403 643	4.25 €	3.64 €
		0.5 / 1 mm	8 x 1 x 20 mm	60 mm	# 600	0 403 644	4.25 €	3.64 €
	4/4 x 25 mm	0.5 / 1 mm	8 x 1 x 20 mm	60 mm	# 200	0 403 646	4.25 €	3.64 €
		0.5 / 1 mm	8 x 1 x 20 mm	60 mm	# 400	0 403 647	4.25 €	3.64 €
		0.5 / 1 mm	8 x 1 x 20 mm	60 mm	# 600	0 403 648	4.25 €	3.64 €
	6/6 x 40 mm	0.5 / 1 mm	8 x 1 x 20 mm	70 mm	# 200	0 403 650	4.95 €	4.38 €
		0.5 / 1 mm	8 x 1 x 20 mm	70 mm	# 400	0 403 651	4.95 €	4.38 €
		0.5 / 1 mm	8 x 1 x 20 mm	70 mm	# 600	0 403 652	4.95 €	4.38 €
8/8 x 60 mm	0.5 / 1 mm	8 x 1 x 20 mm	90 mm	# 200	0 403 658	6.95 €	6.25 €	
	0.5 / 1 mm	8 x 1 x 20 mm	90 mm	# 400	0 403 659	6.95 €	6.25 €	
	0.5 / 1 mm	8 x 1 x 20 mm	90 mm	# 600	0 403 660	6.95 €	6.25 €	




Accessories / spare parts

	Dimensions	Order No.	Price from
			1 piece
File holder for conical diamond files			
	$\varnothing 11 \times 120$ mm	0 403 640	10.55 €






Conical diamond hand files DJM

shank Ø 3 mm, total length 130 mm

	Coating dimensions	Coating thickness	Shank dimensions	Total length	Grit size	Order No.	Price from	
							1 piece	10 pieces
Conical diamond hand files DJM, shank Ø 3 mm								
	2,5 x 30 mm	0.5 / 1.6 mm	Ø 3 x 75 mm	130 mm	D 30	0 402 593	12.95 €	12.20 €
		0.5 / 1.6 mm	Ø 3 x 75 mm	130 mm	D 54	0 402 592	12.95 €	12.20 €
		0.5 / 1.6 mm	Ø 3 x 75 mm	130 mm	D 91	0 402 591	12.95 €	12.20 €
	4 x 30 mm	0.5 / 1.6 mm	Ø 3 x 75 mm	130 mm	D 30	0 402 596	12.95 €	12.20 €
		0.5 / 1.6 mm	Ø 3 x 75 mm	130 mm	D 54	0 402 595	12.95 €	12.20 €
		0.5 / 1.6 mm	Ø 3 x 75 mm	130 mm	D 91	0 402 594	12.95 €	12.20 €
	6 x 30 mm	0.5 / 1.3 mm	Ø 3 x 75 mm	130 mm	D 30	0 402 599	12.95 €	12.20 €
		0.5 / 1.3 mm	Ø 3 x 75 mm	130 mm	D 54	0 402 598	12.95 €	12.20 €
		0.5 / 1.3 mm	Ø 3 x 75 mm	130 mm	D 91	0 402 597	12.95 €	12.20 €


Accessories / spare parts

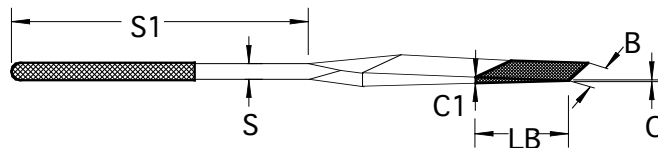
	Dimensions	Colour	Order No.	Price from
				1 piece
plastic covering for hand files				
	Ø 5 x 55 mm	yellow	0 403 006	0.21 €
		black	0 403 007	0.21 €
		blue	0 403 008	0.21 €

matching set

	Order No.	Price from
		1 set
Conical diamond hand file set DJM, 10 pieces		
		
The set contains 9 diamond hand files DJM and a mini diamond file DLK, grit size D 54, Baret	0 402 590	108.35 €

Conical diamond hand files DLP shank Ø 3 mm, total length 130 mm

	Coating dimensions	Coating thickness	Shank dimensions	Total length	Grit size	Order No.	Price from	
							1 piece	10 pieces
Conical diamond hand files DLP, with plastic covering, shank Ø 3 mm								
	Ø 0.2 / 3 x 50 mm	0.2 / 3 mm	Ø 3 x 90 mm	130 mm	# 200	0 403 549-2	8.50 €	6.95 €
		0.2 / 3 mm	Ø 3 x 90 mm	130 mm	# 400	0 403 549-1	8.50 €	6.95 €
		0.2 / 3 mm	Ø 3 x 80 mm	130 mm	# 600	0 403 549	8.30 €	6.95 €
	2 x 30 mm	0.5 / 1.9 mm	Ø 3 x 78 mm	130 mm	# 200	0 403 540	6.65 €	4.79 €
		0.5 / 1.9 mm	Ø 3 x 78 mm	130 mm	# 400	0 403 541	6.65 €	4.79 €
		0.5 / 1.9 mm	Ø 3 x 78 mm	130 mm	# 600	0 403 542	6.65 €	4.79 €
	4 x 30 mm	0.5 / 1.3 mm	Ø 3 x 74 mm	130 mm	# 200	0 403 543	7.15 €	5.65 €
		0.5 / 1.3 mm	Ø 3 x 74 mm	130 mm	# 400	0 403 544	7.15 €	5.65 €
		0.5 / 1.3 mm	Ø 3 x 74 mm	130 mm	# 600	0 403 545	7.15 €	5.65 €
	6 x 30 mm	0.5 / 1.3 mm	Ø 3 x 74 mm	130 mm	# 200	0 403 546	8.20 €	6.60 €
0.5 / 1.3 mm		Ø 3 x 74 mm	130 mm	# 400	0 403 547	8.20 €	6.60 €	
0.5 / 1.3 mm		Ø 3 x 74 mm	130 mm	# 600	0 403 548	8.20 €	6.60 €	



↓ matching set

	Order No.	Price from
		1 set
Conical diamond hand file set DLP, 10 pieces	0 403 550	56.50 €




⚙ Accessories / spare parts

	Order No.	Price from
		1 piece
File holder for conical diamond files DLP and DLC	0 403 690	12.30 €

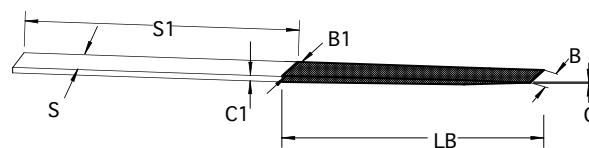


Conical diamond hand files DLV shank 4 / 6 / 8 mm, total length 170 mm

	Coating dimensions	Coating thickness	Shank dimensions	Total length	Grit size	Order No.	Price from	
							1 piece	10 pieces
Conical diamond hand files DLV, shank 4 / 6 / 8 x 120 mm								
	2 / 3 x 50 mm	0.5 / 2 mm	4 x 120 mm	170 mm	# 230	0 403 741	9.15 €	8.00 €
		0.5 / 2 mm	4 x 120 mm	170 mm	# 400	0 403 742	9.15 €	8.00 €
		0.5 / 2 mm	4 x 120 mm	170 mm	# 600	0 403 743	9.15 €	8.00 €
	3 / 4 x 50 mm	0.5 / 2 mm	4 x 120 mm	170 mm	# 230	0 403 744	9.45 €	8.20 €
		0.5 / 2 mm	4 x 120 mm	170 mm	# 400	0 403 745	9.45 €	8.20 €
		0.5 / 2 mm	4 x 120 mm	170 mm	# 600	0 403 746	9.45 €	8.20 €
	6 / 6 x 50 mm	0.5 / 2.5 mm	6 x 120 mm	170 mm	# 230	0 403 747	10.20 €	8.80 €
		0.5 / 2.5 mm	6 x 120 mm	170 mm	# 400	0 403 748	10.20 €	8.80 €
		0.5 / 2.5 mm	6 x 120 mm	170 mm	# 600	0 403 749	10.20 €	8.80 €
8 / 8 x 50 mm	0.5 / 2.5 mm	8 x 120 mm	170 mm	# 230	0 403 750	11.15 €	10.10 €	
	0.5 / 2.5 mm	8 x 120 mm	170 mm	# 400	0 403 751	11.15 €	10.10 €	
	0.5 / 2.5 mm	8 x 120 mm	170 mm	# 600	0 403 752	11.15 €	10.10 €	

 *matching set*

	Order No.	Price from
		1 set
Conical diamond hand file set DLV, 12 pieces	0 403 740	96.40 €



Conical diamond hand files DIPROFIL® DLS shank Ø 4 / 6 / 8 mm, total length 170 mm

	Coating dimensions	Coating thickness	Shank dimensions	Total length	Grit size	Order No.	Price from	
							1 piece	10 pieces
Conical diamond hand files DIPROFIL® DLS, shank 4 / 6 / 8 mm								
	2 / 3 x 50 mm	0.5 / 2 mm	4 x 120 mm	170 mm	D 30	0 403 151-30	17.55 €	15.50 €
		0.5 / 2 mm	4 x 120 mm	170 mm	D 46	0 403 151-3	16.75 €	15.10 €
	0.5 / 2 mm	4 x 120 mm	170 mm	D 76	0 403 151	16.65 €	15.40 €	
		4 x 120 mm	170 mm	D 107	0 403 151-2	16.20 €	15.10 €	
	3 / 4 x 50 mm	0.5 / 2 mm	4 x 120 mm	170 mm	D 30	0 403 152-30	17.35 €	15.50 €
		0.5 / 2 mm	4 x 120 mm	170 mm	D 46	0 403 152	17.25 €	15.80 €
	0.5 / 2 mm	4 x 120 mm	170 mm	D 76	0 403 153	17.25 €	15.80 €	
		4 x 120 mm	170 mm	D 107	0 403 154	17.25 €	15.80 €	
	6 / 6 x 50 mm	0.5 / 2.4 mm	6 x 120 mm	170 mm	D 30	0 403 155-30	19.40 €	17.25 €
		0.5 / 2.4 mm	6 x 120 mm	170 mm	D 46	0 403 155	19.40 €	17.55 €
	0.5 / 2.4 mm	6 x 120 mm	170 mm	D 76	0 403 156	19.40 €	17.55 €	
		6 x 120 mm	170 mm	D 107	0 403 157	19.40 €	17.55 €	
	8 / 8 x 50 mm	0.5 / 2.4 mm	8 x 120 mm	170 mm	D 30	0 403 158-30	20.20 €	17.55 €
		0.5 / 2.4 mm	8 x 120 mm	170 mm	D 46	0 403 158	20.65 €	19.10 €
	0.5 / 2.4 mm	8 x 120 mm	170 mm	D 76	0 403 159	20.65 €	19.10 €	
		8 x 120 mm	170 mm	D 107	0 403 160	20.65 €	19.10 €	

matching set

		Grit size	Order No.	Price from
		1 set		
Conical diamond hand file set DIPROFIL® DLS, 10 pieces				
	The set contains 10 conical diamond hand files: grit size 46: 0 403 152, 0 403 155, 0 403 158 grit size 76: 0 403 151, 0 403 153, 0 403 156, 0 403 159 grit size 107: 0 403 154, 0 403 157, 0 403 160	D 46, D 76, D 107	0 403 150	177.00 €
Conical diamond hand file set DIPROFIL® DLS-F, 10 pieces				
	The set contains 10 conical diamond hand files: grit size 30: 0 403 151-30, 0 403 152-30, 0 403 155-30, 0 403 158-30 grit size 46: 0 403 151-3, 0 403 152, 0 403 155, 0 403 158 grit size 76: 0 403 151, 0 403 153	D 30, D 46, D 76	0 403 150-1	173.00 €