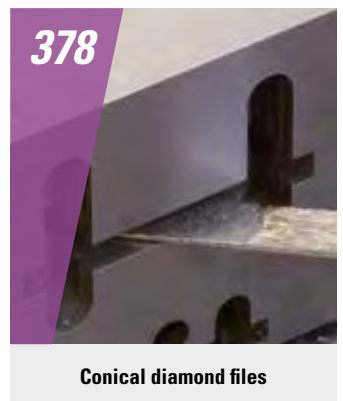
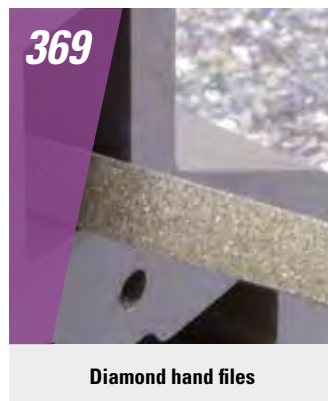
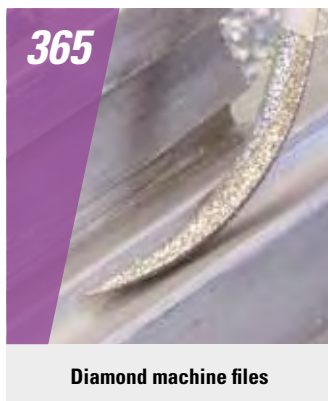
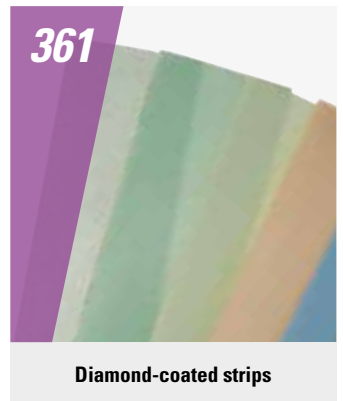
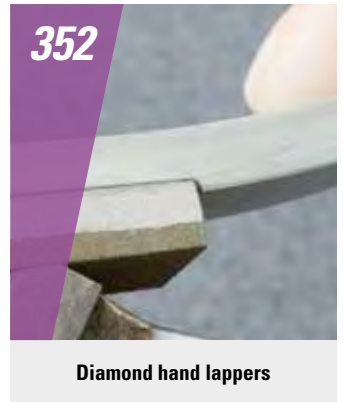
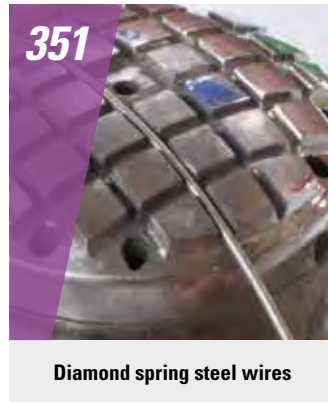


Diamond and CBN tools Overview

1
2
3
4
5
6
7



326 Diamond and CBN grinding points

Diamond grinding points
CBN grinding points
Diamond hollow drill

348 Diamond and CBN deburring tools

Diamond honing tools
Diamond/boron nitride reamers
Diamond spring steel wires
Diamond hand lappers

354 Diamond abrasive discs and sheets

Diamond cup wheels
Diamond grinding discs
Diamond cut-off discs
Diamond abrasive discs

357 Diamond dressers

Diamond single-stone dressers
Diamond multiple-stone dressers
Diamond multi-grit dressers

360 Diamond sheets and strips

Diamond abrasive sheets
Flexible diamond files
Diamond strips

364 Diamond files

Diamond machine files
Diamond hand files
Conical diamond machine files
Conical diamond hand files



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 (e. g. valve coverings for car engines), carbon products (e.g. brake discs, carbon brushes) and cast materials.

Cutting speed

Approximately 20 – 40 m/sec.

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

Diamond and CBN tools

Interesting facts

3

4

5

6

7

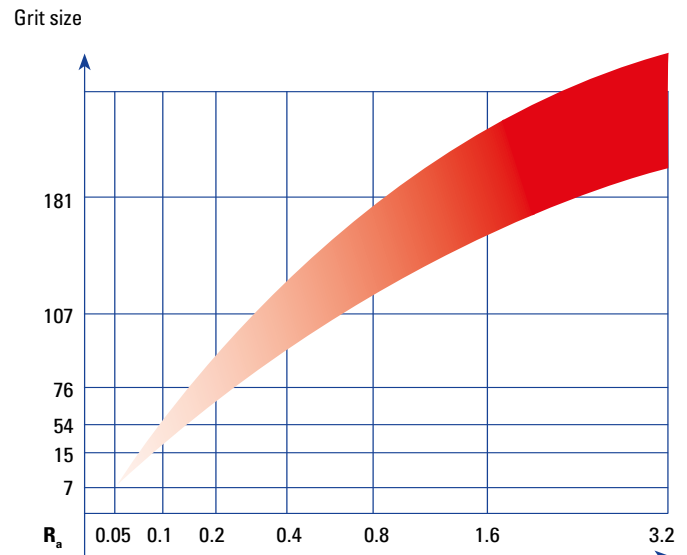


Max. speed depending on cutting speed and tool diameter

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.

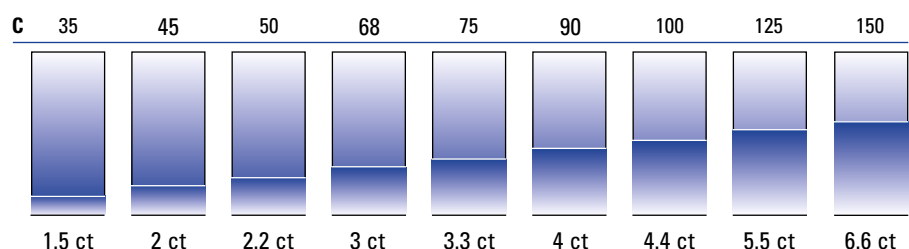
Diamonds consist of carbon and are excellent for grinding short-chipping materials. Owing to the fact that the carbon in diamond is incompatible with the carbon contained in steel, diamonds are unsuitable for steel processing.

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.

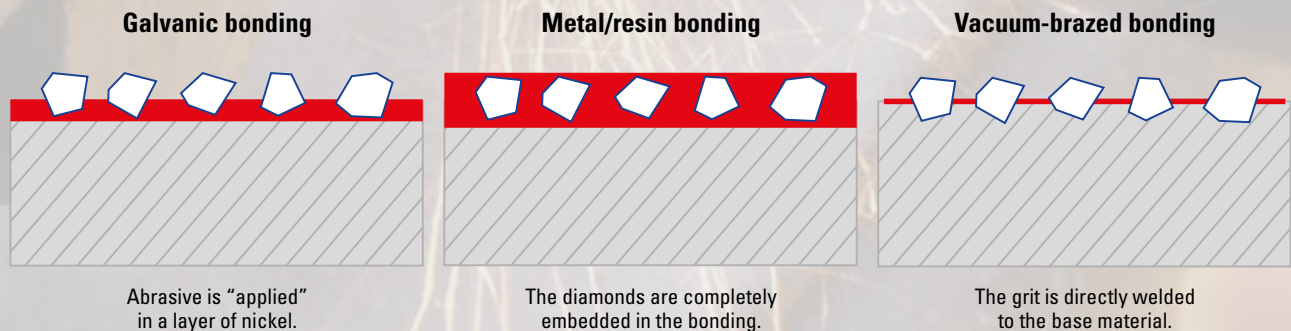
1 carat = 0.2 g



Diamond and CBN tools

- | | |
|---|--|
| 327 Diamond grinding points
shank Ø 1.6 mm | 345 CBN grinding points
shank Ø 6 mm |
| 329 Diamond grinding points
shank Ø 2.35 mm | 346 Diamond grinding points,
vacuum brazed |
| 330 Diamond flap wheels | 348 Diamond deburring tools |
| 331 Diamond cutting discs | 351 Diamond spring steel wires |
| 331 Diamond grinding points
shank Ø 3 mm | 352 Diamond hand lappers |
| 340 Diamond hollow drill | 354 Diamond grinding wheels
and discs |
| 341 Diamond grinding points
shank Ø 6 mm | 357 Diamond dressers |
| 343 CBN grinding points
shank Ø 3 mm | 360 Diamond abrasive sheets
and films |

Diamond and CBN tools 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:



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	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	0 560 585-S	
		Ø 1.6 x 19 mm	D 126	0 560 575-S	
	Ø 1.4 x 8 mm	Ø 1.6 x 19 mm	D 46	0 560 586-S	
	Ø 1.8 x 8 mm	Ø 1.6 x 19 mm	D 126	0 560 576-S	
rounded cylinder					
	Ø 1 x 4 mm	Ø 1.6 x 19 mm	D 126	0 560 557-S	
	Ø 1.4 x 8 mm	Ø 1.6 x 19 mm	D 46	0 560 587-S	
		Ø 1.6 x 19 mm	D 126	0 560 577-S	
sphere					
	Ø 0.9 mm	Ø 1.6 x 19 mm	D 46	0 560 580-S	
		Ø 1.6 x 19 mm	D 126	0 560 570-S	
	Ø 1.6 mm	Ø 1.6 x 19 mm	D 46	0 560 581-S	
		Ø 1.6 x 19 mm	D 126	0 560 571-S	
	Ø 1.8 mm	Ø 1.6 x 19 mm	D 46	0 560 590-S	
	Ø 2.1 mm	Ø 1.6 x 19 mm	D 46	0 560 582-S	
		Ø 1.6 x 19 mm	D 126	0 560 572-S	
pear					
	Ø 1 x 2 mm	Ø 1.6 x 19 mm	D 46	0 560 584-S	
		Ø 1.6 x 19 mm	D 126	0 560 574-S	
round cone					
	Ø 1.2 x 10 mm	Ø 1.6 x 19 mm	D 46	0 560 588-S	
		Ø 1.6 x 19 mm	D 126	0 560 578-S	
	Ø 1.6 x 10 mm	Ø 1.6 x 19 mm	D 46	0 560 589-S	
		Ø 1.6 x 19 mm	D 126	0 560 579-S	
pointed cone					
	Ø 1.2 x 8 mm	Ø 1.6 x 19 mm	D 46	0 560 595-S	
		Ø 1.6 x 19 mm	D 126	0 560 598-S	
	Ø 1.5 x 8 mm	Ø 1.6 x 19 mm	D 46	0 560 596-S	
		Ø 1.6 x 19 mm	D 126	0 560 597-S	

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
	1 per grit respectively of the points listed above	D 126	0 560 504-S

Precision diamond grinding points shank Ø 1.6 mm

i 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

i Which speed for which tool diameter?

Working Ø of the tool	Max. perm. speed	Recommended speed
0.7 – 1 mm	450,000 1/min	10,000 – 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





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		
	Ø 1.7 x 5 mm	Ø 1.4 x 6 mm			Ø 2.35 x 46 mm	D 151	0 560 739		
	Ø 1.9 x 5 mm	Ø 1.7 x 6 mm			Ø 2.35 x 46 mm	D 151	0 560 737		
	Ø 2.5 x 7 mm	Ø 2.2 x 13 mm			Ø 2.35 x 46 mm	D 151	0 560 735		
sphere									
	Ø 0.8 mm	Ø 0.5 x 5 mm			Ø 2.35 x 46 mm	D 107	0 560 761		
	Ø 1.3 mm	Ø 1 x 6 mm			Ø 2.35 x 46 mm	D 107	0 560 760		
	Ø 1.7 mm	Ø 1 x 6 mm			Ø 2.35 x 46 mm	D 151	0 560 759		
	Ø 1.9 mm	Ø 1.2 x 6 mm			Ø 2.35 x 46 mm	D 151	0 560 758		
	Ø 2.5 mm	Ø 1.6 x 6 mm			Ø 2.35 x 46 mm	D 151	0 560 757		
	Ø 3 mm	Ø 1.9 x 5 mm			Ø 2.35 x 42 mm	D 151	0 560 756		
	Ø 4.1 mm	Ø 1.9 x 6 mm			Ø 2.35 x 43 mm	D 151	0 560 755		
round cone									
	Ø 1.3 / 0.7 x 9 mm		4°		Ø 2.35 x 46 mm	D 151	0 560 786		
	Ø 1.6 / 0.8 x 9 mm		5°		Ø 2.35 x 46 mm	D 151	0 560 785		
	Ø 1.9 / 1.1 x 9 mm		5°		Ø 2.35 x 46 mm	D 151	0 560 784		
pointed cone									
	Ø 4.3 x 2.7 mm		80°		Ø 2.35 x 42 mm	D 151	0 560 781		
	Ø 5.1 x 9.5 mm		27°		Ø 2.35 x 48 mm	D 151	0 560 780		
	Ø 7.3 x 6 mm		60°		Ø 2.35 x 46 mm	D 151	0 560 779		





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		
	Ø 12.9 / 9.5 x 1.4 mm				Ø 2.35 x 46 mm	D 151	0 560 724		
	Ø 20 / 12.75 x 1 mm				Ø 2.35 x 45 mm	D 151	0 560 723		
rounded wheel									
	Ø 9.8 x 3.4 mm			1.5 mm	Ø 2.35 x 41 mm	D 151	0 560 732		
wheel with front screw									
	Ø 15 / 13 x 0.6 mm				Ø 2.35 x 45 mm	D 151	0 560 704		
	Ø 18 / 16 x 0.6 mm				Ø 2.35 x 45 mm	D 151	0 560 703		
	Ø 20 / 18 x 0.6 mm				Ø 2.35 x 45 mm	D 151	0 560 702		
	Ø 22 / 20 x 0.6 mm				Ø 2.35 x 45 mm	D 151	0 560 701		
tree with pointed end									
	Ø 1.3 x 4 mm			18 mm	Ø 2.35 x 46 mm	D 151	0 560 775		
	Ø 1.6 x 7.5 mm			45 mm	Ø 2.35 x 46 mm	D 151	0 560 774		
	Ø 2.4 x 7.5 mm			30 mm	Ø 2.35 x 46 mm	D 151	0 560 772		
	Ø 2.4 x 10 mm			30 mm	Ø 2.35 x 46 mm	D 151	0 560 771		

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		
	Ø 1.8 mm		Ø 2.35 x 44.5 mm	D 126	0 560 261HP		
	Ø 2.9 mm		Ø 2.35 x 44.5 mm	D 126	0 560 263HP		
	Ø 5.0 mm		Ø 2.35 x 44.5 mm	D 126	0 560 257HP		
round cone							
	Ø 3.4 / 2.6 x 9.2 mm		Ø 2.35 x 44.5 mm	D 126	0 560 276HP		
pointed cone							
	Ø 2.5 x 6.9 mm	20°	Ø 2.35 x 44.5 mm	D 126	0 560 281HP		
tree with pointed end							
	Ø 2.2 x 9 mm		Ø 2.35 x 44.5 mm	D 126	0 560 275HP		

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

	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.

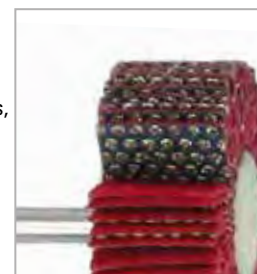
0 403 551

Diamond flap wheels for hard and brittle material


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
	Ø 15 x 10 mm	200	Ø 3 x 40 mm	0 560 006	
		600	Ø 3 x 40 mm	0 560 009	
	Ø 25 x 10 mm	100	Ø 3 x 40 mm	0 560 013	
		800	Ø 3 x 40 mm	0 560 020	



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		
	Ø 20 x 0.6 mm	2.5 mm	D 151	0 560 653		
	Ø 20 x 0.8 mm	2.5 mm	D 151	0 560 654		
	Ø 20 x 1 mm	2.5 mm	D 151	0 560 655		
	Ø 22 x 0.6 mm	2.5 mm	D 151	0 560 656		
	Ø 25 x 0.8 mm	2.5 mm	D 151	0 560 657		
	Ø 36 x 1 mm	2.5 mm	D 151	0 560 658		

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	
		Ø 3.0 x 37 mm	0 560 666	









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		
	Ø 1 x 4 mm	Ø 0.6 x 8 mm			Ø 3 x 46 mm	D 107	0 560 672		
	Ø 1.5 x 4 mm	Ø 1.2 x 10 mm			Ø 3 x 46 mm	D 107	0 560 673		
	 Ø 2 x 5 mm	Ø 1.6 x 14 mm			Ø 3 x 46 mm	D 151	0 560 674		
	 Ø 2 x 5 mm	Ø 1.6 x 14 mm			Ø 3 x 46 mm	D 64	0 560 674-1		
	Ø 2.5 x 5 mm	Ø 2.1 x 19 mm			Ø 3 x 46 mm	D 151	0 560 675		
	Ø 2.5 x 7 mm	Ø 2.1 x 19 mm			Ø 3 x 46 mm	D 151	0 560 628		
	 Ø 3 x 5 mm	Ø 2.6 x 21 mm			Ø 3 x 46 mm	D 64	0 560 676-1		
	 Ø 3 x 5 mm	Ø 2.6 x 21 mm			Ø 3 x 46 mm	D 151	0 560 676		
	Ø 3.5 x 5 mm				Ø 3 x 50 mm	D 151	0 560 677		
	Ø 4 x 5 mm				Ø 3 x 50 mm	D 151	0 560 678		
	Ø 5 x 6 mm				Ø 3 x 50 mm	D 151	0 560 680		
	Ø 6 x 10 mm				Ø 3 x 49 mm	D 151	0 560 603		
rounded cylinder									
	Ø 6 x 10 mm			3 mm	Ø 3 x 49 mm	D 151	0 560 614		

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		
	▣ Ø 1.7 mm	Ø 1 x 5 mm			Ø 3 x 46 mm	D 151	0 560 637		
	▣ Ø 2.1 mm	Ø 1.3 x 6 mm			Ø 3 x 46 mm	D 151	0 560 636		
	▣ Ø 2.5 mm	Ø 1.5 x 6 mm			Ø 3 x 46 mm	D 151	0 560 635		
	▣ Ø 3 mm	Ø 1.5 x 6 mm			Ø 3 x 46 mm	D 151	0 560 634		
	▣ Ø 3 mm	Ø 1.5 x 6 mm			Ø 3 x 46 mm	D 64	0 560 634-1		
	▣ Ø 4.1 mm	Ø 1.8 x 7 mm			Ø 3 x 46 mm	D 151	0 560 633		
	▣ Ø 5 mm				Ø 3 x 46 mm	D 151	0 560 651		
	▣ Ø 6 mm				Ø 3 x 46 mm	D 151	0 560 601		
	round cone								
	▣ Ø 1.3 / 0.7 x 9 mm		4°		Ø 3 x 46 mm	D 151	0 560 650		
	▣ Ø 1.6 / 0.8 x 9 mm		5°		Ø 3 x 46 mm	D 151	0 560 649		
	▣ Ø 1.9 / 1.1 x 9 mm		5°		Ø 3 x 46 mm	D 64	0 560 648-1		
	▣ Ø 1.9 / 1.1 x 9 mm		5°		Ø 3 x 46 mm	D 151	0 560 648		
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		
	▣ Ø 3.1 x 5 mm	Ø 1.8 x 7 mm	30°		Ø 3 x 46 mm	D 151	0 560 647		
	▣ Ø 7 x 10 mm		30°		Ø 3 x 49 mm	D 151	0 560 612		
	▣ Ø 8 x 3.9 mm		90°		Ø 3 x 43 mm	D 151	0 560 609		
	▣ Ø 8 x 6.6 mm		60°		Ø 3 x 46 mm	D 151	0 560 610		
	▣ Ø 8 x 8.5 mm		45°		Ø 3 x 47 mm	D 151	0 560 607		
cone									
	▣ Ø 1.6 / 0.9 x 10 mm		4°		Ø 3 x 46 mm	D 151	0 560 632		
	▣ Ø 2.1 / 1.4 x 10 mm		4°		Ø 3 x 46 mm	D 151	0 560 630		
	▣ Ø 2.1 / 1.4 x 10 mm		4°		Ø 3 x 46 mm	D 64	0 560 630-1		
	▣ Ø 2.6 / 1.75 x 7 mm		4°		Ø 3 x 46 mm	D 151	0 560 629		
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		
	▣ Ø 9.3 x 1.3 mm			75 mm	Ø 3 x 41 mm	D 151	0 560 645		
wheel									
	▣ Ø 7.3 x 0.8 mm				Ø 3 x 40 mm	D 151	0 560 625		
	▣ Ø 9 / 7 x 0.6 mm				Ø 3 x 40 mm	D 151	0 560 624		
	▣ Ø 17.2 / 14.6 x 2.4 mm				Ø 3 x 48 mm	D 151	0 560 622		
	▣ Ø 20 / 12.75 x 1 mm				Ø 3 x 48 mm	D 151	0 560 623		
rounded wheel									
	▣ Ø 5.8 x 2.3 mm			1 mm	Ø 3 x 41 mm	D 151	0 560 627		
	▣ Ø 9.8 x 3.4 mm			1.5 mm	Ø 3 x 42 mm	D 151	0 560 626		
wheel with front screw									
	▣ Ø 22 / 20 x 0.6 mm				Ø 3 x 48 mm	D 151	0 560 620		

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		
tree with pointed end									
	Ø 1.6 x 7.5 mm			45 mm	Ø 3 x 46 mm	D 151	0 560 644		
	↓ Ø 1.6 x 10 mm			45 mm	Ø 3 x 46 mm	D 64	0 560 643-1		
	↓ Ø 1.6 x 10 mm			45 mm	Ø 3 x 46 mm	D 151	0 560 643		
	↓ Ø 2.4 x 7.5 mm			30 mm	Ø 3 x 46 mm	D 151	0 560 642		
	↓ Ø 2.4 x 10 mm			30 mm	Ø 3 x 46 mm	D 64	0 560 641-1		
	↓ Ø 2.4 x 10 mm			30 mm	Ø 3 x 46 mm	D 151	0 560 641		
	↓ Ø 6 x 10 mm			17 mm	Ø 3 x 49 mm	D 151	0 560 602		
barrel									
	Ø 7 x 10 mm			10 mm	Ø 3 x 49 mm	D 151	0 560 616		
trapeze									
	↓ Ø 2.4 x 3 mm	Ø 1.5 x 7 mm	20°		Ø 3 x 46 mm	D 151	0 560 638		
	↓ Ø 2.4 x 3 mm	Ø 1.5 x 7 mm	20°		Ø 3 x 46 mm	D 64	0 560 638-1		
trapeze, outline coated									
	Ø 8 x 3 mm		90°		Ø 3 x 42 mm	D 151	0 560 604		
drop									
	Ø 6 x 10 mm		20°	3 mm	Ø 3 x 49 mm	D 151	0 560 615		








↓ *matching set*

	Grit size	Order No.	Price from
			1 set
DIPROFIL® diamond grinding point set, 10 pieces			
The set contains diamond grinding points sphere, cylinder, tree with pointed end, cone, pointed cone, rounded cone and trapezium shapes.	D 64	0 560 661	
	D 151	0 560 660	







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		
	Ø 1.9 x 5 mm		Ø 3 x 44.5 mm	D 126	0 560 272		
	Ø 2.5 x 5.2 mm		Ø 3 x 44.5 mm	D 126	0 560 273		
	Ø 3.5 x 5.8 mm		Ø 3 x 44.5 mm	D 126	0 560 274		
rounded cylinder							
	Ø 3 x 15 mm		Ø 3 x 40 mm	D 126	0 560 395		
	Ø 4 x 10 mm		Ø 3 x 40 mm	D 126	0 560 396		
	Ø 5 x 10 mm		Ø 3 x 40 mm	D 126	0 560 397		
sphere							
	Ø 0.5 mm		Ø 3 x 40 mm	D 30	0 560 126		
	Ø 0.6 mm		Ø 3 x 40 mm	D 54	0 560 127		
	Ø 0.7 mm		Ø 3 x 40 mm	D 54	0 560 128		
	Ø 0.8 mm		Ø 3 x 40 mm	D 91	0 560 129		
	Ø 0.9 mm		Ø 3 x 40 mm	D 91	0 560 130		
	Ø 1 mm		Ø 3 x 44.5 mm	D 126	0 560 260		
	Ø 1.8 mm		Ø 3 x 44.5 mm	D 126	0 560 261		
	Ø 2 mm		Ø 3 x 44.5 mm	D 126	0 560 262		
	Ø 2.9 mm		Ø 3 x 44.5 mm	D 126	0 560 263		
round cone							
	Ø 3.4 / 2.6 x 9.2 mm		Ø 3 x 44.5 mm	D 126	0 560 276		
	Ø 6.5 x 10 mm		Ø 3 x 44.5 mm	D 126	0 560 613		
pointed cone							
	Ø 2.5 x 6.9 mm	20°	Ø 3 x 44.5 mm	D 126	0 560 281		
	Ø 3 x 14 mm	12°	Ø 3 x 40 mm	D 126	0 560 618		
	Ø 5.1 x 4.3 mm		Ø 3 x 44.5 mm	D 126	0 560 282		
	Ø 6 x 3 mm	90°	Ø 3 x 40 mm	D 126	0 560 619		
cone							
	Ø 1.6 / 1 x 4.6 mm		Ø 3 x 44.5 mm	D 126	0 560 267		
lens							
	Ø 6.1 x 2.3 mm		Ø 3 x 44.5 mm	D 126	0 560 280		
wheel							
	Ø 5.3 x 0.8 mm		Ø 3 x 44.5 mm	D 126	0 560 277		
	Ø 5.4 x 2 mm		Ø 3 x 44.5 mm	D 126	0 560 278		
	Ø 6.4 x 2 mm		Ø 3 x 44.5 mm	D 126	0 560 279		
wheel with front screw							
	Ø 22 / 8 x 0.22 mm		Ø 3 x 44.5 mm	D 76	0 560 711		
	Ø 22 / 8 x 0.27 mm		Ø 3 x 44.5 mm	D 54	0 560 712		
	Ø 22 / 8 x 0.3 mm		Ø 3 x 44.5 mm	D 107	0 560 288		
	Ø 22 / 16 x 0.12 mm		Ø 3 x 44.5 mm	D 30	0 560 710		
	Ø 22 / 16 x 0.3 mm		Ø 3 x 44.5 mm	D 76	0 560 287		


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		
trapeze							
	Ø 1.5 / 1.3 x 1.8 mm	10.7°	Ø 3 x 44.5 mm	D 126	0 560 264		
	Ø 2.3 / 1.9 x 6.2 mm	5.3°	Ø 3 x 44.5 mm	D 126	0 560 266		
	Ø 2.6 / 2.1 x 2.3 mm	10.7°	Ø 3 x 44.5 mm	D 126	0 560 265		
trapeze, outline coated							
	Ø 6.2 / 3 x 3.1 mm	75°	Ø 3 x 44.5 mm	D 126	0 560 283		
	Ø 8.2 / 3 x 4 mm	75°	Ø 3 x 44.5 mm	D 126	0 560 284		
trapeze, front coated							
	Ø 6.4 / 3 x 2.3 mm	75°	Ø 3 x 44.5 mm	D 126	0 560 285		
	Ø 9.4 / 3 x 4.5 mm	75°	Ø 3 x 44.5 mm	D 126	0 560 286		

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	Shank dimensions	Order No.	Price from
						1 piece
Diamond point DIATIP						
conical pointed						
	50 mm	2.5°	Ø 3 x 66 mm	Ø 3.0 mm	0 560 998	

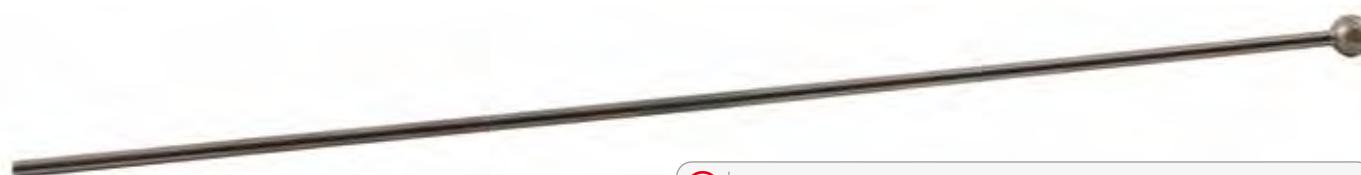


Diamond grinding points with carbide metal shank shank Ø 3 mm

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	
		Ø 3 x 78 mm	D 107	0 560 226	
		Ø 3 x 78 mm	D 151	0 560 227	
	Ø 6 x 6 mm	Ø 3 x 78 mm	D 76	0 560 228	
		Ø 3 x 78 mm	D 107	0 560 229	
		Ø 3 x 78 mm	D 151	0 560 230	
	Ø 8 x 6 mm	Ø 3 x 78 mm	D 76	0 560 234	
		Ø 3 x 78 mm	D 107	0 560 235	
		Ø 3 x 78 mm	D 151	0 560 236	
sphere					
	Ø 5 mm	Ø 3 x 77 mm	D 76	0 560 201	
		Ø 3 x 102 mm	D 76	0 560 201-2	
		Ø 3 x 77 mm	D 107	0 560 202	
		Ø 3 x 102 mm	D 107	0 560 202-2	
		Ø 3 x 77 mm	D 151	0 560 203	
		Ø 3 x 102 mm	D 151	0 560 203-2	
	Ø 6 mm	Ø 3 x 77 mm	D 76	0 560 204	
		Ø 3 x 102 mm	D 76	0 560 204-2	
		Ø 3 x 77 mm	D 107	0 560 205	
		Ø 3 x 102 mm	D 107	0 560 205-2	
		Ø 3 x 77 mm	D 151	0 560 206	
		Ø 3 x 102 mm	D 151	0 560 206-2	
	Ø 8 mm	Ø 3 x 77 mm	D 76	0 560 210	
		Ø 3 x 102 mm	D 76	0 560 210-2	
		Ø 3 x 77 mm	D 107	0 560 211	
		Ø 3 x 102 mm	D 107	0 560 211-2	
		Ø 3 x 77 mm	D 151	0 560 212	
		Ø 3 x 102 mm	D 151	0 560 212-2	



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		
	Ø 0.5 x 2 mm	Ø 0.4 x 5 mm	Ø 3 x 46 mm	D 46	0 560 305		
	Ø 0.5 x 3 mm	Ø 0.4 x 7 mm	Ø 3 x 50 mm	D 91	0 560 251		
	Ø 0.6 x 2 mm	Ø 0.5 x 5 mm	Ø 3 x 46 mm	D 64	0 560 306		
	Ø 0.6 x 3 mm	Ø 0.5 x 7 mm	Ø 3 x 50 mm	D 91	0 560 252		
	Ø 0.8 x 2 mm	Ø 0.6 x 7 mm	Ø 3 x 46 mm	D 91	0 560 309		
				D 126	0 560 308		
	Ø 0.8 x 4 mm	Ø 0.6 x 10 mm	Ø 3 x 50 mm	D 91	0 560 253		
	Ø 1 x 2 mm	Ø 0.7 x 7 mm	Ø 3 x 46 mm	D 91	0 560 311		
				D 126	0 560 310		
Ø 1 x 5 mm	Ø 0.7 x 10 mm	Ø 3 x 55 mm	D 91	0 560 802			
			D 126	0 560 801			
Ø 1.5 x 5 mm	Ø 1.2 x 12 mm	Ø 3 x 55 mm	D 91	0 560 316			
			D 126	0 560 315			
Ø 2 x 5 mm	Ø 1.7 x 12 mm	Ø 3 x 55 mm	D 91	0 560 321			
			D 126	0 560 320			
			D 181	0 560 319			
Ø 2.5 x 5 mm	Ø 2.2 x 16 mm	Ø 3 x 55 mm	D 91	0 560 326			
			D 126	0 560 325			
			D 181	0 560 324			
Ø 3 x 5 mm	Ø 2.7 x 16 mm	Ø 3 x 55 mm	D 91	0 560 331			
			D 126	0 560 330			
			D 181	0 560 329			
Ø 3.5 x 5 mm		Ø 3 x 55 mm	D 91	0 560 336			
			D 126	0 560 335			
			D 181	0 560 334			
Ø 4 x 5 mm		Ø 3 x 55 mm	D 91	0 560 341			
			D 126	0 560 340			
			D 181	0 560 339			
Ø 5 x 6 mm		Ø 3 x 55 mm	D 91	0 560 351			
			D 126	0 560 350			
			D 181	0 560 349			
Ø 6 x 6 mm		Ø 3 x 55 mm	D 91	0 560 355			
			D 126	0 560 354			
			D 181	0 560 353			

Diamond grinding points shank \varnothing 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 = \pm 0.2 mm

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

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!

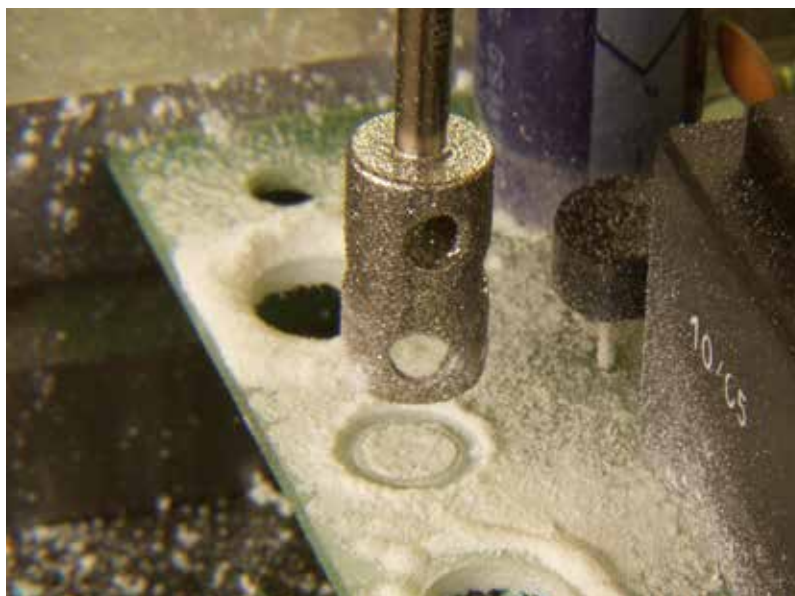
	Head dimensions	Collar dimensions	Shank Ø x total length	Grit size	Order No.	Price from	
						1 piece	5 pieces
Diamond grinding points, solid carbide metal, galvanic bonding, shank Ø 3 mm							
cylinder							
	Ø 0.4 x 2 mm	Ø 0.3 x 3 mm	Ø 3 x 40 mm	D 54	0 560 051		
	Ø 0.5 x 2 mm	Ø 0.4 x 5 mm	Ø 3 x 40 mm	D 64	0 560 052		
	Ø 0.6 x 3 mm	Ø 0.4 x 5 mm	Ø 3 x 40 mm	D 91	0 560 054		
		Ø 0.5 x 5 mm	Ø 3 x 40 mm	D 64	0 560 053		
	Ø 0.7 x 3 mm	Ø 0.5 x 5 mm	Ø 3 x 40 mm	D 91	0 560 056		
		Ø 0.6 x 5 mm	Ø 3 x 40 mm	D 64	0 560 055		
	Ø 0.8 x 3 mm	Ø 0.6 x 6 mm	Ø 3 x 40 mm	D 91	0 560 058		
		Ø 0.7 x 6 mm	Ø 3 x 40 mm	D 64	0 560 057		
	Ø 0.8 x 4 mm	Ø 0.6 x 9 mm	Ø 3 x 55 mm	D 91	0 564 058		
		Ø 0.7 x 9 mm	Ø 3 x 55 mm	D 64	0 564 057		
	Ø 0.9 x 3 mm	Ø 0.7 x 10 mm	Ø 3 x 40 mm	D 91	0 560 060		
		Ø 0.8 x 10 mm	Ø 3 x 40 mm	D 64	0 560 059		
	Ø 1 x 3 mm	Ø 0.7 x 6 mm	Ø 3 x 40 mm	D 151	0 560 063		
		Ø 0.7 x 10 mm	Ø 3 x 40 mm	D 107	0 560 062		
		Ø 0.8 x 10 mm	Ø 3 x 40 mm	D 76	0 560 061		
	Ø 1 x 4 mm	Ø 0.7 x 9 mm	Ø 3 x 55 mm	D 151	0 564 063		
		Ø 0.7 x 9 mm	Ø 3 x 55 mm	D 107	0 564 062		
		Ø 0.8 x 9 mm	Ø 3 x 55 mm	D 76	0 564 061		
	Ø 1.5 x 3 mm	Ø 1.2 x 15 mm	Ø 3 x 40 mm	D 151	0 560 078		
		Ø 1.2 x 15 mm	Ø 3 x 40 mm	D 107	0 560 077		
		Ø 1.3 x 15 mm	Ø 3 x 40 mm	D 76	0 560 076		
	Ø 1.5 x 4 mm	Ø 1.2 x 13 mm	Ø 3 x 55 mm	D 151	0 564 078		
		Ø 1.2 x 13 mm	Ø 3 x 55 mm	D 107	0 564 077		
		Ø 1.3 x 13 mm	Ø 3 x 55 mm	D 76	0 564 076		
	Ø 2 x 4 mm	Ø 1.7 x 16 mm	Ø 3 x 55 mm	D 151	0 564 093		
		Ø 1.7 x 16 mm	Ø 3 x 55 mm	D 107	0 564 092		
		Ø 1.8 x 16 mm	Ø 3 x 55 mm	D 76	0 564 091		
	Ø 2 x 5 mm	Ø 1.7 x 15 mm	Ø 3 x 40 mm	D 151	0 560 093		
		Ø 1.7 x 15 mm	Ø 3 x 40 mm	D 107	0 560 092		
		Ø 1.8 x 15 mm	Ø 3 x 40 mm	D 76	0 560 091		
	Ø 2.5 x 4 mm	Ø 2.2 x 16 mm	Ø 3 x 55 mm	D 151	0 564 108		
		Ø 2.2 x 16 mm	Ø 3 x 55 mm	D 107	0 564 107		
		Ø 2.3 x 16 mm	Ø 3 x 55 mm	D 76	0 564 106		
	Ø 2.5 x 5 mm	Ø 2.2 x 16 mm	Ø 3 x 40 mm	D 151	0 560 108		
		Ø 2.2 x 16 mm	Ø 3 x 40 mm	D 107	0 560 107		
		Ø 2.3 x 16 mm	Ø 3 x 40 mm	D 76	0 560 106		
	Ø 3 x 5 mm	Ø 2.7 x 17 mm	Ø 3 x 40 mm	D 151	0 560 123		
		Ø 2.7 x 17 mm	Ø 3 x 40 mm	D 107	0 560 122		
		Ø 2.8 x 17 mm	Ø 3 x 40 mm	D 76	0 560 121		
		Ø 2.7 x 20 mm	Ø 3 x 55 mm	D 151	0 564 123		
		Ø 2.7 x 20 mm	Ø 3 x 55 mm	D 107	0 564 122		
		Ø 2.8 x 20 mm	Ø 3 x 55 mm	D 76	0 564 121		

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		
	Ø 2 x 7 mm	0.8 mm	Ø 3 x 38	7 mm	Ø 1 x 4 mm	D 107	0 560 040		
	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		
	Ø 4 x 10 mm	2.5 mm	Ø 3 x 35	7 mm	Ø 2 x 4 mm	D 151	0 560 042		
	Ø 5 x 10 mm	3.6 mm	Ø 3 x 38	7 mm	Ø 2 x 4 mm	D 151	0 560 043		
	Ø 6 x 10 mm	4.7 mm	Ø 3 x 35	7 mm	Ø 2 x 4 mm	D 151	0 560 044		
	Ø 8 x 10 mm	6.1 mm	Ø 3 x 35	7 mm	Ø 3 x 4 mm	D 151	0 560 045		
	Ø 10 x 15 mm	8 mm	Ø 3 x 30	10 mm	Ø 3 x 4 mm	D 151	0 560 046		
	Ø 11 x 15 mm	9 mm	Ø 3 x 30	10 mm	Ø 4 x 4 mm	D 151	0 560 047		



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	

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	

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		
		Ø 3.7 x 20 mm		Ø 6 x 60 mm	D 126	0 560 389		
		Ø 3.7 x 20 mm		Ø 6 x 60 mm	D 181	0 560 390		
	Ø 5 x 7 mm	Ø 4.7 x 20 mm		Ø 6 x 60 mm	D 91	0 560 391		
		Ø 4.7 x 20 mm		Ø 6 x 60 mm	D 126	0 560 392		
	Ø 6 x 8 mm	Ø 5.7 x 20 mm		Ø 6 x 60 mm	D 91	0 560 358		
		Ø 5.7 x 20 mm		Ø 6 x 60 mm	D 126	0 560 357		
		Ø 5.7 x 20 mm		Ø 6 x 60 mm	D 181	0 560 356		
	Ø 6 x 20 mm			Ø 6 x 60 mm	D 91	0 560 820		
				Ø 6 x 60 mm	D 126	0 560 819		
				Ø 6 x 60 mm	D 181	0 560 818		
	Ø 8 x 6 mm			Ø 6 x 60 mm	D 91	0 560 823		
				Ø 6 x 60 mm	D 126	0 560 822		
				Ø 6 x 60 mm	D 181	0 560 821		
	Ø 10 x 6 mm			Ø 6 x 60 mm	D 91	0 560 366		
				Ø 6 x 60 mm	D 126	0 560 365		
				Ø 6 x 60 mm	D 181	0 560 364		
	Ø 10 x 10 mm			Ø 6 x 60 mm	D 91	0 560 829		
				Ø 6 x 60 mm	D 126	0 560 828		
				Ø 6 x 60 mm	D 181	0 560 827		
	Ø 12 x 6 mm			Ø 6 x 60 mm	D 91	0 560 371		
				Ø 6 x 60 mm	D 126	0 560 370		
	Ø 12 x 20 mm			Ø 6 x 60 mm	D 91	0 560 841		
				Ø 6 x 60 mm	D 126	0 560 840		
				Ø 6 x 60 mm	D 181	0 560 839		
	Ø 15 x 6 mm			Ø 6 x 60 mm	D 91	0 560 381		
				Ø 6 x 60 mm	D 126	0 560 380		
	Ø 15 x 10 mm			Ø 6 x 60 mm	D 126	0 560 846		
				Ø 6 x 60 mm	D 181	0 560 845		
	Ø 15 x 20 mm			Ø 6 x 60 mm	D 126	0 560 849		
				Ø 6 x 60 mm	D 181	0 560 848		
sphere								
	Ø 8 mm			Ø 6 x 60 mm	D 91	0 560 922		
				Ø 6 x 60 mm	D 126	0 560 921		
				Ø 6 x 60 mm	D 181	0 560 920		
	Ø 10 mm			Ø 6 x 60 mm	D 91	0 560 892		
				Ø 6 x 60 mm	D 126	0 560 891		
				Ø 6 x 60 mm	D 181	0 560 890		
	Ø 15 mm			Ø 6 x 60 mm	D 91	0 560 898		
				Ø 6 x 60 mm	D 126	0 560 897		
				Ø 6 x 60 mm	D 181	0 560 896		
	Ø 20 mm			Ø 6 x 60 mm	D 91	0 560 925		
				Ø 6 x 60 mm	D 126	0 560 924		
				Ø 6 x 60 mm	D 181	0 560 923		

Diamond grinding points shank \varnothing 6 mm

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

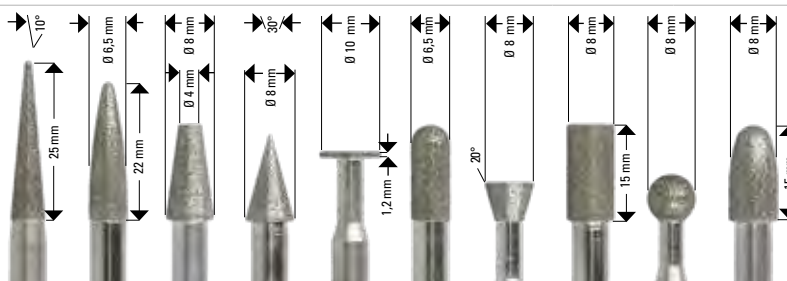
	Head dimensions	Collar dimensions	Angle	Shank \varnothing x total length	Grit size	Order No.	Price from	
							1 piece	5 pieces
pointed cone								
	\varnothing 6 x 12 mm		30°	\varnothing 6 x 52 mm	D 126	0 560 900		
	\varnothing 6 x 18 mm		20°	\varnothing 6 x 58 mm	D 126	0 560 972		
	\varnothing 6 x 33 mm		10°	\varnothing 6 x 100 mm	D 126	0 560 957		
	\varnothing 6 x 42 mm		8°	\varnothing 6 x 100 mm	D 126	0 560 799		
	\varnothing 6 x 55 mm		6°	\varnothing 6 x 100 mm	D 126	0 560 797		
	\varnothing 10 x 5 mm		90°	\varnothing 6 x 45 mm	D 91	0 560 931		
			90°	\varnothing 6 x 45 mm	D 126	0 560 930		
			90°	\varnothing 6 x 45 mm	D 181	0 560 929		
	\varnothing 10 x 9 mm		60°	\varnothing 6 x 50 mm	D 91	0 560 985		
			60°	\varnothing 6 x 50 mm	D 126	0 560 984		
	\varnothing 10 x 12 mm		45°	\varnothing 6 x 52 mm	D 91	0 560 976		
			45°	\varnothing 6 x 52 mm	D 126	0 560 975		
	\varnothing 15 x 14 mm		60°	\varnothing 6 x 54 mm	D 91	0 560 988		
			60°	\varnothing 6 x 54 mm	D 126	0 560 987		
	\varnothing 20 x 10 mm		90°	\varnothing 6 x 50 mm	D 91	0 560 934		
			90°	\varnothing 6 x 50 mm	D 126	0 560 933		
			90°	\varnothing 6 x 50 mm	D 181	0 560 932		
	\varnothing 20 x 18 mm		60°	\varnothing 6 x 58 mm	D 91	0 560 928		
			60°	\varnothing 6 x 58 mm	D 126	0 560 927		
	\varnothing 30 x 15 mm		90°	\varnothing 6 x 55 mm	D 91	0 560 937		
		90°	\varnothing 6 x 55 mm	D 126	0 560 936			
		90°	\varnothing 6 x 55 mm	D 181	0 560 935			
rounded cylinder								
	\varnothing 6 x 20 mm			\varnothing 6 x 60 mm	D 126	0 560 864		
				\varnothing 6 x 60 mm	D 181	0 560 863		
	\varnothing 10 x 15 mm			\varnothing 6 x 55 mm	D 126	0 560 867		
				\varnothing 6 x 55 mm	D 181	0 560 866		

	Order No.	Price from
		1 set
Diamond grinding point set (10 pieces), shank \varnothing 6 mm		0 403 551-6





The set contains 10 diamond grinding points in shapes:
pointed cone \varnothing 6 x 25 mm, 10°, tree with pointed end \varnothing 6.5 x 22 mm,
cone \varnothing 8/4 x 15 mm, pointed cone shapes \varnothing 8 x 15 mm, 30°,
wheel \varnothing 10 x 1.2 mm, Cylindrical with radius \varnothing 6.5 x 15 mm,
trapeze \varnothing 8 x 5.5 mm, 20°, cylinder \varnothing 8 x 15 mm, sphere \varnothing 8 mm,
rounded arch \varnothing 8 x 15 mm,
D126, total length 60 mm, content: 10 pieces

0 403 551-6



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		
	Ø 0.5 x 2 mm	Ø 0.4 x 5 mm	Ø 3 x 46 mm	B 46	0 565 305		
	Ø 0.6 x 2 mm	Ø 0.5 x 5 mm	Ø 3 x 46 mm	B 64	0 565 306		
	Ø 0.8 x 2 mm	Ø 0.6 x 7 mm	Ø 3 x 46 mm	B 91	0 565 309		
		Ø 0.4 x 7 mm	Ø 3 x 46 mm	B 126	0 565 308		
	Ø 1 x 2 mm	Ø 0.8 x 7 mm	Ø 3 x 46 mm	B 91	0 565 311		
		Ø 0.6 x 7 mm	Ø 3 x 46 mm	B 126	0 565 310		
	Ø 1 x 5 mm	Ø 0.6 x 10 mm	Ø 3 x 55 mm	B 126	0 565 801		
	Ø 1.5 x 5 mm	Ø 1.2 x 12 mm	Ø 3 x 46 mm	B 91	0 565 316		
		Ø 1.1 x 12 mm	Ø 3 x 46 mm	B 126	0 565 315		
	Ø 2 x 5 mm	Ø 1.7 x 12 mm	Ø 3 x 55 mm	B 91	0 565 321		
		Ø 1.6 x 12 mm	Ø 3 x 55 mm	B 126	0 565 320		
		Ø 1.5 x 12 mm	Ø 3 x 55 mm	B 181	0 565 319		
	Ø 2.5 x 5 mm	Ø 2.2 x 16 mm	Ø 3 x 55 mm	B 91	0 565 326		
		Ø 2.1 x 16 mm	Ø 3 x 55 mm	B 126	0 565 325		
Ø 2.0 x 16 mm		Ø 3 x 55 mm	B 181	0 565 324			
Ø 3 x 5 mm	Ø 2.7 x 16 mm	Ø 3 x 55 mm	B 91	0 565 331			
	Ø 2.6 x 16 mm	Ø 3 x 55 mm	B 126	0 565 330			
	Ø 2.5 x 16 mm	Ø 3 x 55 mm	B 181	0 565 329			
	Ø 3.5 x 5 mm		Ø 3 x 55 mm	B 91	0 565 336		
			Ø 3 x 55 mm	B 126	0 565 335		
			Ø 3 x 55 mm	B 181	0 565 334		
Ø 4 x 5 mm		Ø 3 x 55 mm	B 91	0 565 341			
		Ø 3 x 55 mm	B 126	0 565 340			
		Ø 3 x 55 mm	B 181	0 565 339			
Ø 5 x 6 mm		Ø 3 x 55 mm	B 91	0 565 351			
		Ø 3 x 55 mm	B 126	0 565 350			
		Ø 3 x 55 mm	B 181	0 565 349			
Ø 6 x 6 mm		Ø 3 x 55 mm	B 91	0 565 355			
		Ø 3 x 55 mm	B 126	0 565 354			
		Ø 3 x 55 mm	B 181	0 565 353			

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	

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	

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	



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

CBN grinding point set shank \varnothing 3 mm

	Order No.	Price from
		1 set
CBN grinding point set (30 pieces), shank \varnothing 3 mm		
The set contains CBN grinding points in cylinder, rounded cylinder, sphere, trapezium, rounded cone, tree with pointed end and pointed cone shapes.	0 403 553	



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		
	Ø 5 x 7 mm	Ø 4.7 x 20 mm	Ø 6 x 60 mm	B 126	0 565 392		
	Ø 6 x 7 mm	Ø 5.7 x 20 mm	Ø 6 x 60 mm	B 126	0 565 357		
	Ø 6 x 20 mm		Ø 6 x 60 mm	B 181	0 565 818		
	Ø 8 x 6 mm		Ø 6 x 60 mm	B 126	0 565 822		
	Ø 10 x 6 mm		Ø 6 x 60 mm	B 91	0 565 366		
			Ø 6 x 60 mm	B 126	0 565 365		
	Ø 10 x 10 mm		Ø 6 x 60 mm	B 126	0 565 828		
			Ø 6 x 60 mm	B 181	0 565 827		
	Ø 12 x 6 mm		Ø 6 x 60 mm	B 126	0 565 370		
	Ø 12 x 10 mm		Ø 6 x 60 mm	B 126	0 565 837		
		Ø 6 x 60 mm	B 181	0 565 836			
Ø 15 x 10 mm		Ø 6 x 60 mm	B 126	0 565 846			
		Ø 6 x 60 mm	B 181	0 565 845			

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	

The perfect complement

Gloves Ultra Lite PU Hyflex

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



Order No.	Price
0 960 702	

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	

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 (e.g. valve cover rings for car engines), coal products (e.g. 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	
sphere							
	☛ Ø 6 mm			Ø 3 x 55 mm	D 427	0 563 040	
	☛ Ø 7 mm			Ø 3 x 55 mm	D 427	0 563 041	
round cone							
	☛ Ø 4 / 1 x 10 mm	14°	0.5 mm	Ø 3 x 55 mm	D 427	0 563 033	
	☛ Ø 6 / 3 x 10 mm	20°	1.5 mm	Ø 3 x 55 mm	D 427	0 563 034	
	☛ Ø 7 / 3 x 7 mm	36°	1.5 mm	Ø 3 x 55 mm	D 427	0 563 032	
pointed cone							
	☛ Ø 6 x 4 mm	60°		Ø 3 x 55 mm	D 427	0 563 035	
	☛ Ø 6 x 10 mm	30°		Ø 3 x 55 mm	D 427	0 563 036	
round cylinder							
	☛ Ø 4 x 7 mm		2 mm	Ø 3 x 55 mm	D 427	0 563 038	
	☛ Ø 6 x 10 mm		3 mm	Ø 3 x 55 mm	D 427	0 563 039	

↓ matching set

	Grit size	Order No.	Price from 1 set
Set diamond grinding points, vacuum brazed, shank Ø 3 mm			



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)

D 427

0 563 003

Diamond grinding points, vacuum brazed shank Ø 6 mm

	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 6 mm							
round cone							
	Ø 6 / 1 x 19 mm	15°	0.5 mm	Ø 6 x 60 mm	D 427	0 563 042	
flame							
	Ø 8 x 14 mm			Ø 6 x 60 mm	D 427	0 563 043	
pointed cone							
	Ø 7 x 6 mm	60°		Ø 6 x 60 mm	D 427	0 563 045	
	Ø 9 x 4.5 mm	90°		Ø 6 x 60 mm	D 427	0 563 044	
cylinder							
	Ø 8 x 20 mm			Ø 6 x 60 mm	D 427	0 563 046	
	Ø 10 x 24 mm			Ø 6 x 60 mm	D 427	0 563 047	
round cylinder							
	Ø 6 x 31 mm		3 mm	Ø 6 x 60 mm	D 427	0 563 048	
sphere							
	Ø 6 mm			Ø 6 x 60 mm	D 427	0 563 049	
	Ø 8 mm			Ø 6 x 60 mm	D 427	0 563 050	
	Ø 12 mm			Ø 6 x 60 mm	D 427	0 563 051	

matching set

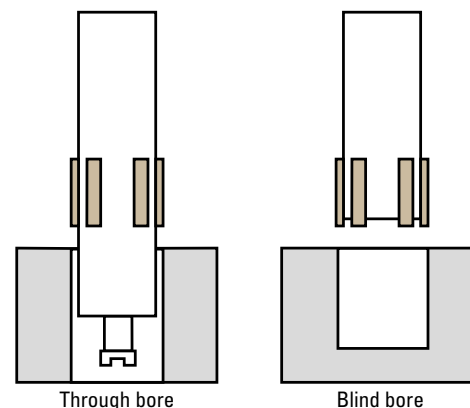
	Grit size	Order No.	Price from 1 set
Set diamond grinding points, vacuum brazed, shank Ø 6 mm			
	D 427	0 563 005	
	The set consists of the following ten diamond grinding points with a vacuum brazed bond in addition to a grit size of D 427, shank Ø 6 x 60 mm: <ul style="list-style-type: none"> • Rounded 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	0.3 mm	5	7 x 1.0 mm	D 85	0 562 701	
	3.5 mm	Ø 2.5 mm	60 mm	0.3 mm	6	7 x 1.0 mm	D 85	0 562 702	
	4 mm	Ø 3.5 mm	70 mm	0.3 mm	6	7 x 1.0 mm	D 85	0 562 703	
	4.5 mm	Ø 4 mm	70 mm	0.3 mm	6	7 x 1.0 mm	D 85	0 562 704	
	5 mm	Ø 4.5 mm	85 mm	0.5 mm	6	7 x 1.0 mm	D 85	0 562 705	
	5.5 mm	Ø 5 mm	85 mm	0.5 mm	6	7 x 1.0 mm	D 85	0 562 706	
	6 mm	Ø 5.5 mm	85 mm	0.5 mm	6	11 x 1.4 mm	D 85	0 562 707	
	6.5 mm	Ø 6 mm	100 mm	0.5 mm	6	11 x 1.4 mm	D 85	0 562 708	
	7 mm	Ø 6.5 mm	100 mm	0.5 mm	6	11 x 1.4 mm	D 85	0 562 709	
	7.5 mm	Ø 7 mm	100 mm	0.5 mm	6	11 x 1.4 mm	D 85	0 562 710	
	8 mm	Ø 7.5 mm	100 mm	0.5 mm	6	11 x 1.4 mm	D 85	0 562 711	
	8.5 mm	Ø 8 mm	120 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 712	
	9 mm	Ø 8.5 mm	120 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 713	
	9.5 mm	Ø 9 mm	120 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 714	
	10 mm	Ø 9.5 mm	120 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 715	
	10.5 mm	Ø 10 mm	140 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 716	
	11 mm	Ø 10.5 mm	140 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 717	
	11.5 mm	Ø 11 mm	140 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 718	
	12 mm	Ø 11.5 mm	140 mm	0.5 mm	6	16 x 2.0 mm	D 85	0 562 719	

Recommended cutting speed:

$V_c = 15 - 30$ m/min

Approximate stroke speed:

$V_a = 10$ 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!

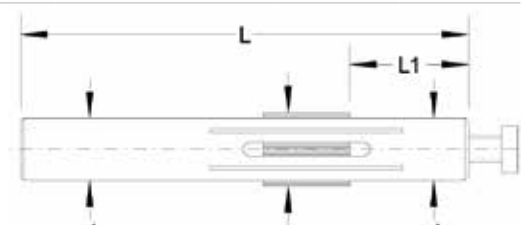
Consult **Stefan Spiegel**:
Tel. +49 (0) 22 04 / 8 39-0
s.spiegel@joke.de

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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	



Recommended cutting speed:
Approximate stroke speed:

$V_c = 15 - 30 \text{ m/min}$
 $V_a = 10 \text{ m/min}$



Diamond/CBN reamers with adjustable recess

Diamond/CBN reamers

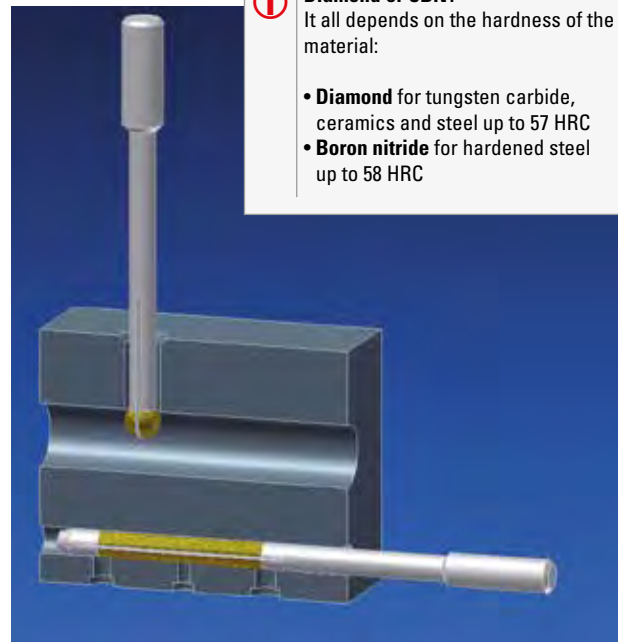
These tools appeal by their robust and user-friendly design and extraordinary durability. As the advancement of conventional lapping arbors, these reamers can be used without compound – so that no time-consuming cleaning is necessary. Design features fixed shank, cylindrical clamping, slotted front and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

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	
	Ø 3 x 20 mm	Ø 6 x 25 mm	80 mm	B 91	0 566 241	
	Ø 4 x 20 mm	Ø 6 x 25 mm	80 mm	B 126	0 566 242	
	Ø 5 x 30 mm	Ø 5 x 25 mm	100 mm	B 126	0 566 243	
	Ø 6 x 30 mm	Ø 6 x 25 mm	100 mm	B 126	0 566 244	
	Ø 8 x 40 mm	Ø 8 x 25 mm	140 mm	B 126	0 566 245	
	Ø 10 x 40 mm	Ø 10 x 25 mm	140 mm	B 126	0 566 246	
	Ø 12 x 40 mm	Ø 12 x 25 mm	140 mm	B 126	0 566 247	
Diamond reamers, galvanic bonding						
 diamond	Ø 2 x 10 mm	Ø 6 x 25 mm	80 mm	D 76	0 561 240	
	Ø 3 x 20 mm	Ø 6 x 25 mm	80 mm	D 91	0 561 241	
	Ø 4 x 20 mm	Ø 6 x 25 mm	80 mm	D 126	0 561 242	
	Ø 5 x 30 mm	Ø 5 x 25 mm	100 mm	D 126	0 561 243	
	Ø 6 x 30 mm	Ø 6 x 25 mm	100 mm	D 126	0 561 244	
	Ø 8 x 40 mm	Ø 8 x 25 mm	140 mm	D 126	0 561 245	
	Ø 10 x 40 mm	Ø 10 x 25 mm	140 mm	D 126	0 561 246	
	Ø 12 x 40 mm	Ø 12 x 25 mm	140 mm	D 126	0 561 247	

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

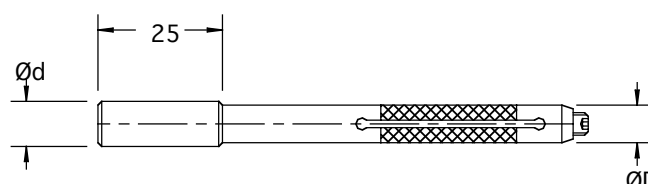
Maximum processing range:

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 grinding points

lightly springy

NEW!

Diamond grinding point, ball, lightly springy

- Manual and machine use (drills, machining centers, special-purpose machines, robots etc.)
- Wide-range of uses, even on hard materials, such as deburring and chamfering cross holes, deburring deep blind holes etc.

	Head dimensions	Collar dimensions	Shank Ø x total length	Grit size	Rotation speed max.	Order No.	Price from	
							1 piece	5 pieces
Diamond grinding point, ball, lightly springy								
	Ø 1.9 mm	Ø 1.5 x 45 mm	Ø 3 x 75 mm	D 76	10,000 1/min	0 564 212		
	Ø 2 mm	Ø 1.5 x 45 mm	Ø 3 x 75 mm	D 126	10,000 1/min	0 564 214		
	Ø 2.9 mm	Ø 1.5 x 45 mm	Ø 3 x 75 mm	D 76	8,000 1/min	0 564 222		
	Ø 3 mm	Ø 1.5 x 45 mm	Ø 3 x 75 mm	D 126	8,000 1/min	0 564 224		
	Ø 3.9 mm	Ø 1.5 x 45 mm	Ø 3 x 75 mm	D 76	8,000 1/min	0 564 232		
	Ø 4 mm	Ø 1.5 x 45 mm	Ø 3 x 75 mm	D 126	8,000 1/min	0 564 234		
	Ø 4.9 mm	Ø 1.5 x 45 mm	Ø 3 x 75 mm	D 76	6,000 1/min	0 564 242		
	Ø 5 mm	Ø 1.5 x 45 mm	Ø 3 x 75 mm	D 126	6,000 1/min	0 564 244		
	Ø 5.9 mm	Ø 1.5 x 45 mm	Ø 3 x 75 mm	D 76	6,000 1/min	0 564 252		
	Ø 6 mm	Ø 1.5 x 45 mm	Ø 3 x 75 mm	D 126	6,000 1/min	0 564 254		
	Ø 7.9 mm	Ø 1.5 x 45 mm	Ø 3 x 75 mm	D 76	6,000 1/min	0 564 262		
Ø 8 mm	Ø 1.5 x 45 mm	Ø 3 x 75 mm	D 126	6,000 1/min	0 564 264			

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**:

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

	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		
	Ø 0.5 mm	70 mm	130 mm	D 54	0 560 141		
	Ø 0.6 mm	70 mm	130 mm	D 91	0 560 142		
	Ø 0.7 mm	70 mm	130 mm	D 91	0 560 143		
	Ø 0.8 mm	70 mm	130 mm	D 91	0 560 144		
	Ø 0.9 mm	70 mm	130 mm	D 91	0 560 145		
	Ø 1.0 mm	70 mm	130 mm	D 91	0 560 146		
	Ø 1.1 mm	70 mm	130 mm	D 91	0 560 147		
	Ø 1.2 mm	70 mm	130 mm	D 91	0 560 148		
	Ø 1.3 mm	70 mm	130 mm	D 91	0 560 149		
	Ø 1.4 mm	70 mm	130 mm	D 91	0 560 150		
	Ø 1.5 mm	70 mm	130 mm	D 91	0 560 151		
	Ø 2.0 mm	70 mm	130 mm	D 91	0 560 156		

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 three 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.
- Galvanic bonding, open structure also suitable for plastics

	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		
		10 x 150 mm	10 x 2 x 30 mm	D 30 / # 400	0 562 403-1		
		10 x 150 mm	10 x 2 x 30 mm	D 15 / # 800	0 562 404-1		
	metal	10 x 150 mm	10 x 1 x 30 mm	D 76	0 562 411		
		10 x 150 mm	10 x 1 x 30 mm	D 46	0 562 413		
		10 x 150 mm	10 x 1 x 30 mm	D 15	0 562 414		
		galvanic	10 x 165 mm	12 x 1 x 50 mm	# 160	0 562 421	
	10 x 165 mm		12 x 1 x 50 mm	# 400	0 562 422		
	10 x 165 mm		12 x 1 x 50 mm	# 600	0 562 423		
			10 x 165 mm	12 x 1 x 50 mm	# 1200	0 562 424	





 *matching set*

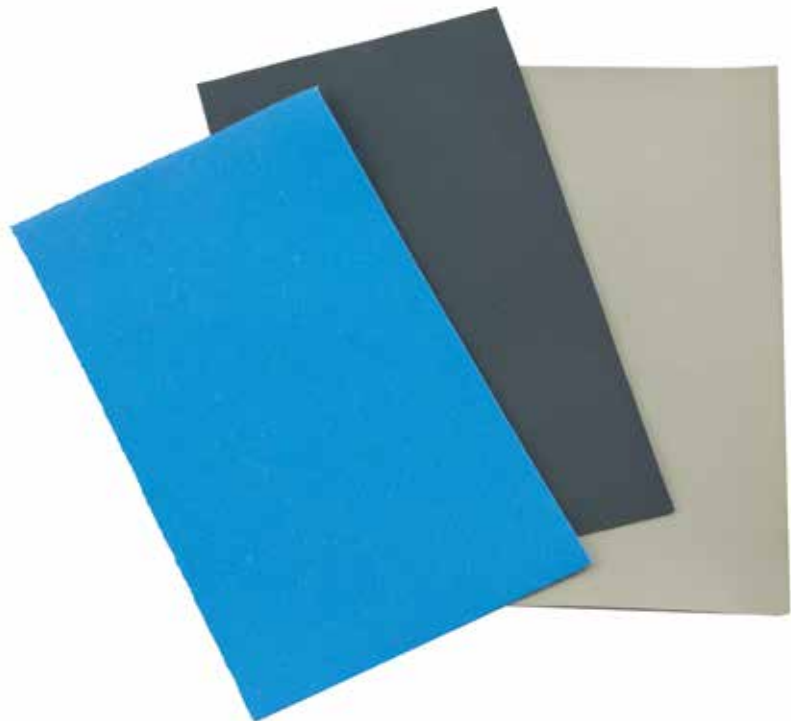
	Order No.	Price from
		1 pack
Diamond hand lapper set	0 562 420	




Polishing cloths super-flexible **NEW!**

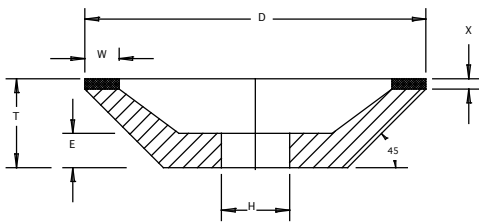
Super-flexible diamond-impregnated polishing cloth for polishing all surface contours.
Perfect for cutting and creating own tools.

	Dimensions	Type	Colour	Packing quantity	Order No.	Price from	
						1 set	1 pack
Set flexible diamond polishing cloths							
	280 x 150 mm	one cloth of any grain size		3 pieces	0 404 500		
Flexible diamond polishing cloths							
	280 x 150 mm	K 2400 / 10 µm	blue	3 pieces	0 404 501		
	280 x 150 mm	K 4000 / 5 µm	black	3 pieces	0 404 502		
	280 x 150 mm	K 12000 / 2 µm	grey	3 pieces	0 404 503		



Diamond cup grinding wheels resin bonding

Dimensions	Coating dimensions	Drilling dimension	Bottom dimension E	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
		5 x 2 mm	20 mm	10 mm	C 50	D 126	12 A2-45°	0 561 523
		5 x 2 mm	20 mm	10 mm	C 50	D 91	12 A2-45°	0 561 524
		5 x 2 mm	20 mm	10 mm	C 50	D 64	12 A2-45°	0 561 525
		10 x 2 mm	20 mm	10 mm	C 50	D 181	12 A2-45°	0 561 526
		10 x 2 mm	20 mm	10 mm	C 50	D 126	12 A2-45°	0 561 527
		10 x 2 mm	20 mm	10 mm	C 50	D 91	12 A2-45°	0 561 528
		10 x 2 mm	20 mm	10 mm	C 50	D 64	12 A2-45°	0 561 529



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

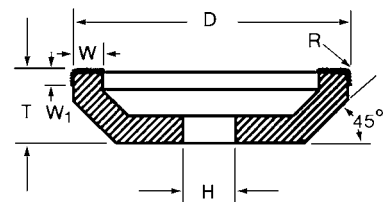
Stefan Spiegel:

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
		10 x 4 mm	20 mm	D 126	12 A2-45°	0 561 384
		10 x 4 mm	20 mm	D 181	12 A2-45°	0 561 383
Ø 100 x 26 mm	5 x 5 mm	20 mm	D 91	12 A2-45°	0 561 382	
	5 x 5 mm	20 mm	D 126	12 A2-45°	0 561 381	
	5 x 5 mm	20 mm	D 181	12 A2-45°	0 561 380	



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. For resin and metal bonded abrasive discs.</p> <p>0 560 699</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	Rotation speed max.	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 mm	30 µm	green	5,000 1/min	0 571 098		
	1.8 mm	0.25 mm	9 µm	blue	5,000 1/min	0 571 099		

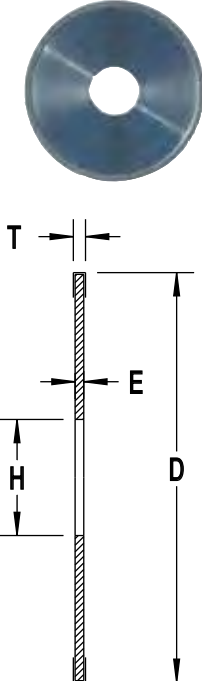
Accessories / spare parts

	for bore dimensions	Shank dimensions	Type	Max. disc size	Order No.	Price from	
						1 piece	10 pieces
CRATEX® grinding wheel holder							
	Ø 1.5 – 1.8 mm	Ø 2.35 x 40/28 mm	21	Ø 38 x 4.5 mm	0 545 275		
		Ø 3 x 42 mm	22	Ø 38 x 4.5 mm	0 545 276		
		Ø 3 x 40/30 mm	24	Ø 38 x 3 mm	0 545 278		

Cut-off disc receptacles with carbide metal shank

	for 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	
		Ø 9 mm	Ø 6 x 45 mm	TA3	0 561 940	
	5 mm	Ø 9 mm	Ø 3 x 45 mm	TA5	0 561 946	
		Ø 9 mm	Ø 6 x 45 mm	TA5	0 561 945	
	6 mm	Ø 12 mm	Ø 3 x 45 mm	TA6	0 561 942	
		Ø 12 mm	Ø 6 x 45 mm	TA6	0 561 943	
		Ø 12 mm	Ø 3 x 45 mm	TA8	0 561 947	
	8 mm	Ø 12 mm	Ø 6 x 45 mm	TA8	0 561 948	
		Ø 24 mm	Ø 6 x 45 mm	TA8-G	0 561 948-1	
		Ø 24 mm	Ø 6 x 45 mm	TA10	0 561 949	
	13 mm	Ø 24 mm	Ø 6 x 45 mm	TA13	0 561 944	

Diamond cut-off discs with closed rim

	Dimensions	Drilling dimension	Blade thickness	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		
	Ø 16 x 0.4 mm	3 mm	0.2 mm	D 76	TA3	0 561 624		
	Ø 16 x 0.5 mm	3 mm	0.2 mm	D 107	TA3	0 561 625		
	Ø 16 x 0.6 mm	3 mm	0.3 mm	D 107	TA3	0 561 626		
	Ø 16 x 0.7 mm	3 mm	0.4 mm	D 107	TA3	0 561 627		
	Ø 20 x 0.85 mm	5 mm	0.5 mm	D 126	TA5	0 561 641		
	Ø 20 x 0.95 mm	5 mm	0.5 mm	D 181	TA5	0 561 642		
	Ø 20 x 1.35 mm	5 mm	1.0 mm	D 126	TA5	0 561 643		
	Ø 20 x 1.45 mm	5 mm	1.0 mm	D 181	TA5	0 561 644		
	Ø 30 x 0.7 mm	6 mm	0.3 mm	D 126	TA6	0 561 651		
	Ø 30 x 0.8 mm	6 mm	0.3 mm	D 181	TA6	0 561 650		
	Ø 30 x 0.9 mm	6 mm	0.5 mm	D 126	TA6	0 561 653		
	Ø 30 x 1.0 mm	6 mm	0.5 mm	D 181	TA6	0 561 652		
	Ø 30 x 1.4 mm	6 mm	1.0 mm	D 126	TA6	0 561 655		
	Ø 30 x 1.5 mm	6 mm	1.0 mm	D 181	TA6	0 561 654		
	Ø 32 x 1.45 mm	8 mm	1.0 mm	D 181	TA8	0 561 617		
	Ø 32 x 1.75 mm	8 mm	1.0 mm	D 356	TA8	0 561 618		
	Ø 40 x 0.85 mm	10 mm	0.5 mm	D 126	TA10	0 561 656		
	Ø 40 x 1.35 mm	10 mm	1.0 mm	D 126	TA10	0 561 658		
	Ø 50 x 0.85 mm	13 mm	0.5 mm	D 126	TA13	0 561 661		
	Ø 50 x 1.35 mm	13 mm	1.0 mm	D 126	TA13	0 561 665		
	Ø 65 x 0.9 mm	8 mm	0.5 mm	D 126	TA8-G	0 561 670		
	Ø 65 x 1.0 mm	8 mm	0.5 mm	D 181	TA8-G	0 561 669		
	Ø 100 x 0.9 mm	22 mm	0.5 mm	D 126	-	0 561 691		
	Ø 100 x 1.0 mm	22 mm	0.5 mm	D 181	-	0 561 690		
	Ø 100 x 1.4 mm	22 mm	1.0 mm	D 126	-	0 561 694		
	Ø 100 x 1.5 mm	22 mm	1.0 mm	D 181	-	0 561 693		
Ø 125 x 1.4 mm	22 mm	1.0 mm	D 126	-	0 561 703			
Ø 125 x 1.5 mm	22 mm	1.0 mm	D 181	-	0 561 702			
Ø 150 x 1.4 mm	22 mm	1.0 mm	D 126	-	0 561 712			



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

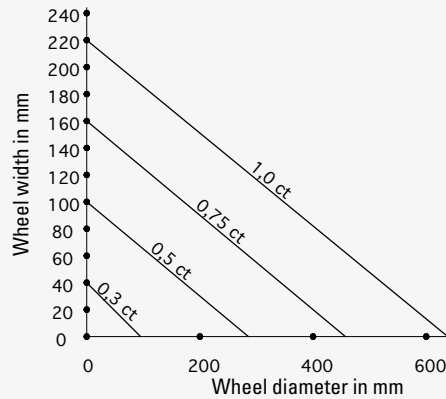
The single diamonds have at least three working points (quality 03). They have a block-shaped, firmly textured crystal shape with inclusions.

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



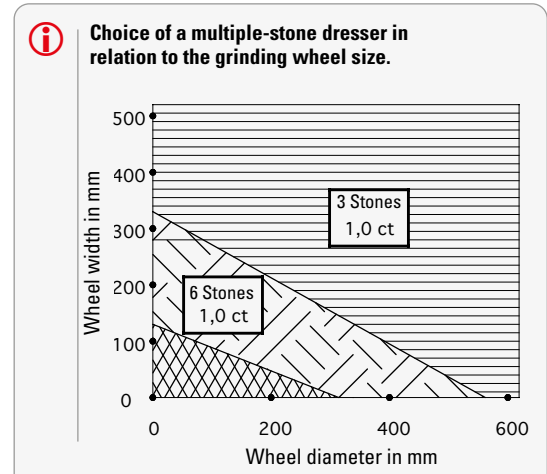
Design	Total length	Diamond weight	Order No.	Price from	
				1 piece	5 pieces
Diamond single-stone dressers					
	Ø 8 x 30 mm	30 mm	0.3 ct	0 562 124	
		30 mm	0.5 ct	0 562 130	
	Ø 8 x 80 mm	80 mm	0.3 ct	0 562 184	
		80 mm	0.5 ct	0 562 190	
		80 mm	1 ct	0 562 194	
	Ø 10 x 50 mm	50 mm	0.3 ct	0 562 154	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

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	
		31.5 mm	1 layer - 6 stones	1 ct		0 562 273
	MK 1	51 mm	1 layer - 3 stones	1 ct	0 562 271	
		51 mm	1 layer - 6 stones	1 ct		0 562 274
	Ø 8 x 90 mm	90 mm	1 layer - 3 stones	1 ct	0 562 272	
		90 mm	1 layer - 6 stones	1 ct		0 562 275

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.

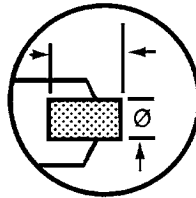
	Order No.	Price from	
		1 piece	5 pieces
Diamond multiple-grit manual dresser			
			
For dressing grinding points and grinding wheels, usable diamond area Ø 5 x 5 mm, total length 120 mm	0 540 990		

Diamond dressers

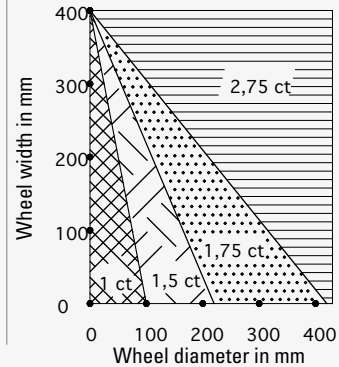
Diamond multi-grit dressers

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		
	40 mm	46-120	1 ct	D 851	0 562 301		
	60 mm	180-400	1.75 ct	D 213	0 562 315		
	60 mm	46-120	2.75 ct	D 851	0 562 312		
	100 mm	180-400	1 ct	D 213	0 562 365		
	100 mm	46-120	1.4 ct	D 851	0 562 362		
	150 mm	180-400	2.75 ct	D 213	0 562 386		
	150 mm	46-120	2.75 ct	D 851	0 562 382		

Diamond dresser, galvanic	Order No.	Price from
		1 piece
		0 560 999

For dressing and shaping grinding points, dimensions: 25 x 6 x 12, total length 116 mm


0 560 999



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 sheet joke Dia-Speed, self-adhesive					
 75 x 75 mm	metal	D 126	black	0 403 412	
	metal	D 76	red	0 403 413	
	metal	D 46	yellow	0 403 414	
	metal	D 20	white	0 403 415	
	resin	D 15	yellow	0 403 416	
	resin	D 7	blue	0 403 417	
	resin	D 3	orange	0 403 418	

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 file					
flat					
 13 x 1.8 mm	13 x 80 mm	170 mm	D 46	0 404 351	
	13 x 80 mm	170 mm	D 76	0 404 352	
	13 x 80 mm	170 mm	D 126	0 404 353	

↓ *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

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	
	D 76	0 401 872	

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.

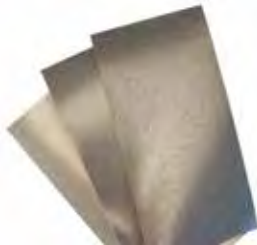
Dimensions	Grit size	Colour	Order No.	Price from	
				1 piece	5 pieces
Diamond-coated PET strips, self-adhesive					
 25 x 150 mm	60 µm	yellow	0 403 461		
	45 µm	green	0 403 462		
	30 µm	light green	0 403 463		
	15 µm	orange	0 403 464		
	9 µm	turquoise	0 403 465		
	6 µm	olive	0 403 466		
	3 µm	pink	0 403 467		

↓ *matching set*

Order No.	Price from	
	1 set	5 set
Set of Diamond-coated PET strips		
	The set contains one sheet of each grit size.	
0 403 468		

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		
	galvanic	#150 / D91	0 403 472		
	galvanic	#200 / D76	0 403 473		
	galvanic	#300 / D46	0 403 474		
	galvanic	#400 / D30	0 403 475		
	galvanic	#600 / D20	0 403 476		
	galvanic	#800 / D15	0 403 477		
	galvanic	#1200 / D10	0 403 478		
	galvanic	#1800 / D7	0 403 479		
50 x 100 mm	galvanic	#120 / D126	0 403 481		
	galvanic	#150 / D91	0 403 482		
	galvanic	#200 / D76	0 403 483		
	galvanic	#300 / D46	0 403 484		
	galvanic	#400 / D30	0 403 485		
	galvanic	#600 / D20	0 403 486		
	galvanic	#800 / D15	0 403 487		
	galvanic	#1200 / D10	0 403 488		
	galvanic	#1800 / D7	0 403 489		

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 / 8 39-0

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

365 Diamond machine files

369 Diamond hand files











377 Diamond slot files

378 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		
triangular								
	2.5 x 2.5 mm	25 mm	65 mm	D 107	JLB	0 403 274-1		
flat								
	3.2 x 1.4 mm	25 mm	65 mm	D 107	JLB	0 403 268-1		
	6 x 1.3 mm	25 mm	65 mm	D 107	JLB	0 403 269-1		
flat, angled								
	3.2 x 1.4 mm	25 mm	65 mm	D 107	JLB	0 403 278-1		
flat, bent								
	3.2 x 1.4 mm	25 mm	65 mm	D 107	JLB	0 403 275-1		
flat, cropped								
	3.2 x 1.4 mm	25 mm	65 mm	D 107	JLB	0 403 271-1		
round								
	Ø 3 mm	25 mm	65 mm	D 107	JLB	0 403 273-1		
round, bent								
	Ø 3 mm	25 mm	65 mm	D 107	JLB	0 403 272-1		
semicircular, offset								
	Ø 3 mm	25 mm	65 mm	D 107	JLB	0 403 277-1		






matching set

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



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								
triangular								
	2 x 2 mm	15 mm	50 mm	D 64	DJA T 2 S	0 402 416-1		
		15 mm	50 mm	D 91	DJA T 2 S	0 402 417-1		
		15 mm	50 mm	D 126	DJA T 2 S	0 402 418-1		
flat								
	2 x 1 mm	15 mm	50 mm	D 64	DJA 2 x 1 S	0 402 016-1		
		15 mm	50 mm	D 91	DJA 2 x 1 S	0 402 017-1		
		15 mm	50 mm	D 126	DJA 2 x 1 S	0 402 018-1		
		15 mm	50 mm	D 151	DJA 2 x 1 S	0 402 019-1		
	3 x 1 mm	15 mm	50 mm	D 64	DJA 3 x 1 S	0 402 026-1		
		15 mm	50 mm	D 91	DJA 3 x 1 S	0 402 027-1		
		15 mm	50 mm	D 126	DJA 3 x 1 S	0 402 028-1		
		15 mm	50 mm	D 151	DJA 3 x 1 S	0 402 029-1		
	4 x 1 mm	15 mm	50 mm	D 64	DJA 4 x 1 S	0 402 036-1		
		15 mm	50 mm	D 91	DJA 4 x 1 S	0 402 037-1		
		15 mm	50 mm	D 126	DJA 4 x 1 S	0 402 038-1		
		15 mm	50 mm	D 151	DJA 4 x 1 S	0 402 039-1		
5 x 2 mm	15 mm	50 mm	D 64	DJA 5 x 2 S	0 402 046-1			
	15 mm	50 mm	D 91	DJA 5 x 2 S	0 402 047-1			
	15 mm	50 mm	D 126	DJA 5 x 2 S	0 402 048-1			
	15 mm	50 mm	D 151	DJA 5 x 2 S	0 402 049-1			
flat, safe-sided file								
	2 x 1 mm	15 mm	50 mm	D 64	DJA 2 x 1	0 402 011-1		
		15 mm	50 mm	D 151	DJA 2 x 1	0 402 012-1		
	3 x 1 mm	15 mm	50 mm	D 64	DJA 3 x 1	0 402 021-1		
		15 mm	50 mm	D 151	DJA 3 x 1	0 402 022-1		
	5 x 2 mm	15 mm	50 mm	D 64	DJA 5 x 2	0 402 041-1		
		15 mm	50 mm	D 151	DJA 5 x 2	0 402 042-1		
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		
		15 mm	50 mm	D 151	DJA 0,5 x 4	0 402 112-1		
	1 x 4 mm	15 mm	50 mm	D 64	DJA 1 x 4	0 402 131-1		
		15 mm	50 mm	D 151	DJA 1 x 4	0 402 132-1		
round								
	Ø 1 mm	15 mm	50 mm	D 64	DJA 1	0 402 211-1		
		15 mm	50 mm	D 91	DJA 1	0 402 216-1		
		15 mm	50 mm	D 126	DJA 1	0 402 217-1		
	Ø 2 mm	15 mm	50 mm	D 64	DJA 2	0 402 221-1		
		15 mm	50 mm	D 91	DJA 2	0 402 226-1		
		15 mm	50 mm	D 126	DJA 2	0 402 227-1		
	Ø 3 mm	15 mm	50 mm	D 64	DJA 3	0 402 231-1		
		15 mm	50 mm	D 91	DJA 3	0 402 236-1		
		15 mm	50 mm	D 126	DJA 3	0 402 237-1		



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 mm	85 mm	D 30	DJE 1	0 402 610		
		45 mm	Ø 3 mm	85 mm	D 91	DJE 1	0 402 616		
		45 mm	Ø 3 mm	85 mm	D 126	DJE 1	0 402 612		
		45 mm	Ø 3 mm	85 mm	D 181	DJE 1	0 402 613		
round									
	Ø 3 mm	45 mm	Ø 3 mm	85 mm	D 30	DJE 2	0 402 620		
		45 mm	Ø 3 mm	85 mm	D 91	DJE 2	0 402 626		
		45 mm	Ø 3 mm	85 mm	D 126	DJE 2	0 402 622		
		45 mm	Ø 3 mm	85 mm	D 181	DJE 2	0 402 623		



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



flat




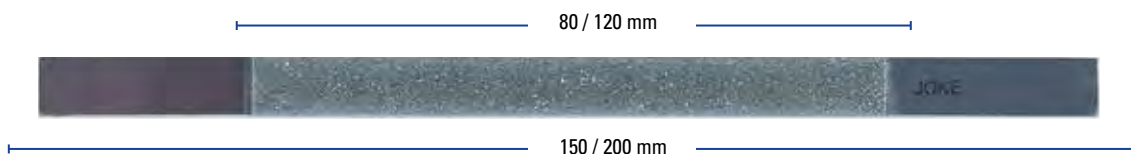
flat, safe-sided file



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		
		80 mm	150 mm	D 126	DLM 13	0 404 032		
	11 x 3.8 mm	120 mm	200 mm	D 91	DLM 16	0 404 041		
		120 mm	200 mm	D 126	DLM 16	0 404 042		




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	Shank 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	Ø 5 mm	180 mm	D 91	DLGB	0 403 510		
		90 mm	Ø 5 mm	180 mm	D 126	DLGB	0 403 511		
		90 mm	Ø 5 mm	180 mm	D 181	DLGB	0 403 512		

 *matching set*

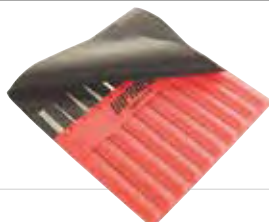
	Grit size	Order No.	Price from	
			1 set	5 set
Diamond machine file set DLGB, 5 pieces				
		The sets consist of the following files respectively:		
		1 x flat 10 x 2.5 mm	D 91	0 403 500
		1 x round Ø 5.5 mm	D 126	0 403 501
		1 x triangular 6 mm	D 181	0 403 502
		1 x square 4.5 mm		
	1 x semi-circular 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		
		70 mm	140 mm	D 76	DBH-1	0 403 012-1		
		70 mm	140 mm	D 126	DBH-1	0 403 013-1		
flat, rounded								
	6 x 1.5 mm	70 mm	140 mm	D 46	DBH-10	0 403 121-1		
		70 mm	140 mm	D 76	DBH-10	0 403 122-1		
		70 mm	140 mm	D 126	DBH-10	0 403 123-1		
triangular								
	3.5 mm	70 mm	140 mm	D 46	DBH-5	0 403 031-1		
		70 mm	140 mm	D 76	DBH-5	0 403 032-1		
		70 mm	140 mm	D 126	DBH-5	0 403 033-1		
square								
	2.5 x 2.5 mm	70 mm	140 mm	D 46	DBH-6	0 403 041-1		
		70 mm	140 mm	D 76	DBH-6	0 403 042-1		
		70 mm	140 mm	D 126	DBH-6	0 403 043-1		
halfround								
	5 x 2 mm	70 mm	140 mm	D 46	DBH-3	0 403 051-1		
		70 mm	140 mm	D 76	DBH-3	0 403 052-1		
		70 mm	140 mm	D 126	DBH-3	0 403 053-1		
round								
	Ø 3 mm	70 mm	140 mm	D 46	DBH-2	0 403 061-1		
		70 mm	140 mm	D 76	DBH-2	0 403 062-1		
		70 mm	140 mm	D 126	DBH-2	0 403 063-1		
knife								
	1.7 x 6 mm	70 mm	140 mm	D 46	DBH-9	0 403 071-1		
		70 mm	140 mm	D 76	DBH-9	0 403 072-1		
		70 mm	140 mm	D 126	DBH-9	0 403 073-1		
crossing								
	5 x 2 mm	70 mm	140 mm	D 46	DBH-4	0 403 091-1		
		70 mm	140 mm	D 76	DBH-4	0 403 092-1		
		70 mm	140 mm	D 126	DBH-4	0 403 093-1		
beret								
	6 x 2 mm	70 mm	140 mm	D 46	DBH-7	0 403 101-1		
		70 mm	140 mm	D 76	DBH-7	0 403 102-1		
		70 mm	140 mm	D 126	DBH-7	0 403 103-1		

matching set

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



Diamond hand files DLH shank Ø 3 mm, total length 140 mm

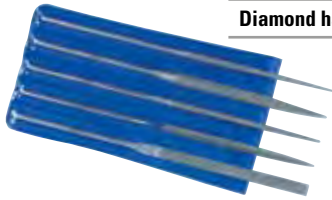
	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond hand files DLH, shank Ø 3 mm, galvanic bonding								
crossing								
	5 x 2.3 mm	70 mm	140 mm	D 126	DLH 92	0 403 092		
triangular								
	■ 3.5 mm	70 mm	140 mm	D 91	DLH 32	0 403 031		
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

Accessories / spare parts

	Order No.	Price from
		10 pieces 1 piece 5 pieces
Universal handle		
 for receiving deburring tools, needle files, etc. Flexible collet with a clamping range of between 2.2 and 4.5 mm.	0 413 939	
Plastic handle, red		
 with clamping lever for files up to 150 mm length, tension area Ø 2.5 – 4 mm	0 400 894-0	
Plastic handle		
 suitable for Ø 3 mm shanks	0 400 892	

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

matching set



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

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	
square		2.5 x 2.5 mm	20 mm	140 mm	D 107	DLD-2	0 403 281	
flat		3 x 1.5 mm	20 mm	140 mm	D 107	DLD-3	0 403 282	
triangular		3 x 3 mm	20 mm	140 mm	D 107	DLD-4	0 403 283	
halfround		5 x 2 mm	20 mm	140 mm	D 107	DLD-5	0 403 284	
flat, angled		3.2 x 1.5 mm	20 mm	140 mm	D 107	DLD-6	0 403 285	
crossing		4 x 2.2 mm	20 mm	140 mm	D 107	DLD-7	0 403 286	
round, bent		Ø 2.5 mm	15 mm	140 mm	D 107	DLD-8	0 403 287	
knife		5 x 1.5 mm	20 mm	140 mm	D 107	DLD-9	0 403 288	
round		Ø 2.5 mm	20 mm	140 mm	D 107	DLD-10	0 403 289	






matching set




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

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		
		40 mm	140 mm	D 30	DLK 1	0 402 813		
		40 mm	140 mm	D 54	DLK 1	0 402 814		
		40 mm	140 mm	D 91	DLK 1	0 402 811		
		40 mm	140 mm	D 126	DLK 1	0 402 812		
triangular								
	3.2 x 3.2 mm	40 mm	140 mm	D 15	DLK 2	0 402 827		
		40 mm	140 mm	D 30	DLK 2	0 402 823		
		40 mm	140 mm	D 54	DLK 2	0 402 824		
		40 mm	140 mm	D 91	DLK 2	0 402 821		
		40 mm	140 mm	D 126	DLK 2	0 402 822		
square								
	1.8 x 1.8 mm	40 mm	140 mm	D 15	DLK 3	0 402 836		
		40 mm	140 mm	D 30	DLK 3	0 402 833		
		40 mm	140 mm	D 54	DLK 3	0 402 834		
		40 mm	140 mm	D 91	DLK 3	0 402 831		
		40 mm	140 mm	D 126	DLK 3	0 402 832		
halfround								
	4.1 x 1.8 mm	40 mm	140 mm	D 15	DLK 4	0 402 847		
		40 mm	140 mm	D 30	DLK 4	0 402 843		
		40 mm	140 mm	D 54	DLK 4	0 402 844		
		40 mm	140 mm	D 91	DLK 4	0 402 841		
		40 mm	140 mm	D 126	DLK 4	0 402 842		
round								
	Ø 1.6 mm	40 mm	140 mm	D 15	DLK 5	0 402 856		
		40 mm	140 mm	D 30	DLK 5	0 402 853		
		40 mm	140 mm	D 54	DLK 5	0 402 854		
		40 mm	140 mm	D 91	DLK 5	0 402 851		
		40 mm	140 mm	D 126	DLK 5	0 402 852		

 *matching set*

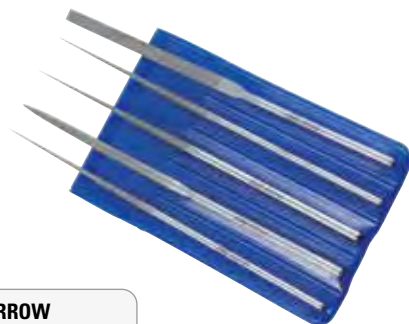
	Grit size	Order No.	Price from	
			1 set	5 set
Diamond hand files set DLK, 5 pieces				
	D 15	0 402 803-1		
	D 30	0 402 803		
	D 91	0 402 801		
	D 54	0 402 804		
	D 126	0 402 802		

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			
		70 mm	140 mm	D 91	DXS	0 403 182			
		70 mm	140 mm	D 126	DXS	0 403 183			
triangular									
	2.7 mm	70 mm	140 mm	D 54	DXS	0 403 184			
		70 mm	140 mm	D 91	DXS	0 403 185			
		70 mm	140 mm	D 126	DXS	0 403 186			
square									
	2.9 mm	70 mm	140 mm	D 54	DXS	0 403 187			
		70 mm	140 mm	D 91	DXS	0 403 188			
		70 mm	140 mm	D 126	DXS	0 403 189			
halfround									
	3.8 x 1.5 mm	70 mm	140 mm	D 54	DXS	0 403 190			
		70 mm	140 mm	D 91	DXS	0 403 191			
		70 mm	140 mm	D 126	DXS	0 403 192			
round									
	Ø 2.8 mm	70 mm	140 mm	D 54	DXS	0 403 193			
		70 mm	140 mm	D 91	DXS	0 403 194			
		70 mm	140 mm	D 126	DXS	0 403 195			

matching set






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


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



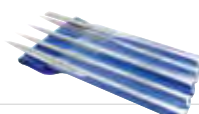
	Dimensions	Coating dimensions	Total length	Grit size	Type	Order No.	Price from	
							1 piece	5 pieces
Diamond hand files DLG, shank Ø 6 x 6 mm, galvanic bonding								
triangular								
	10 mm	110 mm	215 mm	D 91	DLG	0 402 921		
		110 mm	215 mm	D 126	DLG	0 402 922		
		110 mm	215 mm	D 181	DLG	0 402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

Accessories / spare parts






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



matching set


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

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		
flat								
	5 x 20 mm	160 mm	200 mm	D 126	DWF-K	0 404 401-1		
square								
	8 mm	160 mm	200 mm	D 126	DWF-K	0 404 421-1		
round								
	Ø 8 mm	160 mm	200 mm	D 126	DWF-K	0 404 441-1		
halfround								
	Ø 6 x 21 mm	160 mm	200 mm	D 126	DWF-K	0 404 431-1		










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		
		180 mm	220 mm	D 181	DWF	0 404 402		



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	
		2 x 25 mm	150 mm	D 126	DLR 16	0 403 212	
		2 x 25 mm	150 mm	D 181	DLR 16	0 403 213	
triangular							
	2.9 mm	2 x 25 mm	150 mm	D 91	DLR 22	0 403 241	
		2 x 25 mm	150 mm	D 126	DLR 22	0 403 242	
		2 x 25 mm	150 mm	D 181	DLR 22	0 403 243	
flat							
	2.5 x 1.8 mm	2 x 25 mm	150 mm	D 91	DLR 18	0 403 221	
		2 x 25 mm	150 mm	D 126	DLR 18	0 403 222	
		2 x 25 mm	150 mm	D 181	DLR 18	0 403 223	
square							
	2.6 x 2.6 mm	2 x 25 mm	150 mm	D 91	DLR 20	0 403 231	
		2 x 25 mm	150 mm	D 126	DLR 20	0 403 232	
		2 x 25 mm	150 mm	D 181	DLR 20	0 403 233	
square, flat							
	2 x 2 mm	2 x 25 mm	150 mm	D 91	DLR 20-1	0 403 231-1	
		2 x 25 mm	150 mm	D 126	DLR 20-1	0 403 232-1	
		2 x 25 mm	150 mm	D 181	DLR 20-1	0 403 233-1	
round							
	Ø 2.2 mm	2 x 25 mm	150 mm	D 91	DLR 26	0 403 261	
		2 x 25 mm	150 mm	D 126	DLR 26	0 403 262	
		2 x 25 mm	150 mm	D 181	DLR 26	0 403 263	
round, bent							
	Ø 2.5 mm	2 x 25 mm	150 mm	D 91	DLR 23	0 403 251	
		2 x 25 mm	150 mm	D 126	DLR 23	0 403 252	
		2 x 25 mm	150 mm	D 181	DLR 23	0 403 253	

Accessories / spare parts

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

Diamond slot files DSF total length 140-180 mm

 1
2
3
4
5
6
7

	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		
	4 x 0.3 mm	50 mm	140 mm	D 64	DSF	0 402 141		
	4 x 0.4 mm	50 mm	140 mm	D 64	DSF	0 402 142		
		50 mm	140 mm	D 91	DSF	0 402 143		
4 x 0.5 mm	50 mm	140 mm	D 64	DSF	0 402 144			
	50 mm	140 mm	D 91	DSF	0 402 145			
	8 x 0.2 mm	50 mm	160 mm	D 64	DSF	0 402 150		
	8 x 0.3 mm	50 mm	160 mm	D 64	DSF	0 402 151		
	8 x 0.4 mm	50 mm	160 mm	D 64	DSF	0 402 152		
		50 mm	160 mm	D 91	DSF	0 402 153		
8 x 0.5 mm	50 mm	160 mm	D 64	DSF	0 402 154			
	50 mm	160 mm	D 91	DSF	0 402 155			
	13 x 0.2 mm	80 mm	180 mm	D 64	DSF	0 402 160		
	13 x 0.3 mm	80 mm	180 mm	D 64	DSF	0 402 161		
	13 x 0.4 mm	80 mm	180 mm	D 64	DSF	0 402 162		
		80 mm	180 mm	D 126	DSF	0 402 163		
13 x 0.5 mm	80 mm	180 mm	D 64	DSF	0 402 164			
	80 mm	180 mm	D 126	DSF	0 402 165			



Looking for another size?

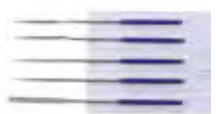
No problem! Other widths, grit sizes and thicknesses of between 0.1 and 1 mm are available at short notice!

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

Diamond hand file sets shank Ø 3 mm




Consisting of 1 piece each:

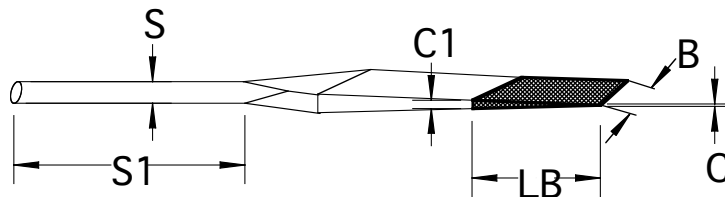
• **flat file** (6 x 1.4 mm) • **half-round file** (6 x 1.9 mm) • **round file** (Ø 3.4 mm) • **square file** (2.9 mm) • **three-square file** (3.9 mm)

	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 piece	0 403 010	
	70 mm	Ø 3 mm	140 mm	D 151	5 piece	0 403 009	


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		
		0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 30	0 402 565		
		0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 76	0 402 566		
		0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 107	0 402 542		
	4 x 30 mm	0.3 / 1.4 mm	Ø 3 x 40 mm	90 mm	D 46	0 402 543		
		0.3 / 1.4 mm	Ø 3 x 40 mm	90 mm	D 30	0 402 568		
		0.3 / 1.4 mm	Ø 3 x 40 mm	90 mm	D 76	0 402 569		
		0.3 / 1.4 mm	Ø 3 x 40 mm	90 mm	D 107	0 402 544		
	6 x 30 mm	0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 46	0 402 545		
		0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 30	0 402 575		
		0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 76	0 402 576		
		0.3 / 1.6 mm	Ø 3 x 35 mm	90 mm	D 107	0 402 546		

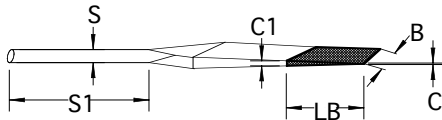


matching set

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

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		
		0.5 / 0.9 mm	\varnothing 3 x 20 mm	72 mm	# 400	0 403 725		
		0.5 / 0.9 mm	\varnothing 3 x 20 mm	72 mm	# 600	0 403 726		
	6 x 15 mm	0.5 / 1.3 mm	\varnothing 3 x 20 mm	56 mm	# 200	0 403 721		
		0.5 / 1.3 mm	\varnothing 3 x 20 mm	56 mm	# 400	0 403 722		
		0.5 / 1.3 mm	\varnothing 3 x 20 mm	56 mm	# 600	0 403 723		
	6 x 15 mm	0.5 / 0.9 mm	\varnothing 3 x 18 mm	72 mm	# 200	0 403 730		
		0.5 / 0.9 mm	\varnothing 3 x 18 mm	72 mm	# 400	0 403 731		
		0.5 / 0.9 mm	\varnothing 3 x 18 mm	72 mm	# 600	0 403 732		
		0.5 / 1.3 mm	\varnothing 3 x 18 mm	56 mm	# 200	0 403 727		
		0.5 / 1.3 mm	\varnothing 3 x 18 mm	56 mm	# 400	0 403 728		
		0.5 / 1.3 mm	\varnothing 3 x 18 mm	56 mm	# 600	0 403 729		




 *matching set*

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



Conical diamond machine files DLC

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

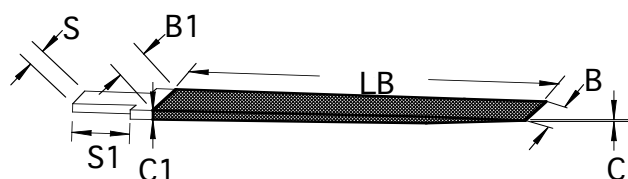
	Coating dimensions	Coating thickness	Shank dimensions	Total length	Grit size	Order No.	Price from	
							1 piece	5 pieces
Conical diamond machine files DLC, shank 4 x 1 x 15 mm								
	2 / 3 x 40 mm	0.5 / 1 mm	4 x 1 x 15 mm	73 mm	# 200	0 403 671		
		0.5 / 1 mm	4 x 1 x 15 mm	73 mm	# 400	0 403 672		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

Accessories / spare parts

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

matching set

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



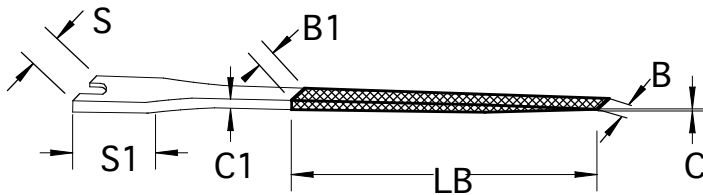
Conical diamond machine files DLFL shank $\varnothing 8 \times 1 \times 20$ mm, total length 60 / 70 / 90 mm

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		
	0.5 / 1 mm	8 x 1 x 20 mm	60 mm	# 400	0 403 643		
	0.5 / 1 mm	8 x 1 x 20 mm	60 mm	# 600	0 403 644		
4/4 x 25 mm	0.5 / 1 mm	8 x 1 x 20 mm	60 mm	# 200	0 403 646		
	0.5 / 1 mm	8 x 1 x 20 mm	60 mm	# 400	0 403 647		
	0.5 / 1 mm	8 x 1 x 20 mm	60 mm	# 600	0 403 648		
6/6 x 40 mm	0.5 / 1 mm	8 x 1 x 20 mm	70 mm	# 200	0 403 650		
	0.5 / 1 mm	8 x 1 x 20 mm	70 mm	# 400	0 403 651		
	0.5 / 1 mm	8 x 1 x 20 mm	70 mm	# 600	0 403 652		
8/8 x 60 mm	0.5 / 1 mm	8 x 1 x 20 mm	90 mm	# 200	0 403 658		
	0.5 / 1 mm	8 x 1 x 20 mm	90 mm	# 400	0 403 659		
	0.5 / 1 mm	8 x 1 x 20 mm	90 mm	# 600	0 403 660		






Accessories / spare parts

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






Conical diamond hand files DJM

shank Ø 3 mm, total length 130 mm

	Coating dimensions	Coating thickness	Shank dimensions	Total length	Grit size	Type	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	DJM	0 402 593		
		0.5 / 1.6 mm	Ø 3 x 75 mm	130 mm	D 54	DJM	0 402 592		
		0.5 / 1.6 mm	Ø 3 x 75 mm	130 mm	D 91	DJM	0 402 591		
	4 x 30 mm	0.5 / 1.6 mm	Ø 3 x 75 mm	130 mm	D 30	DJM	0 402 596		
		0.5 / 1.6 mm	Ø 3 x 75 mm	130 mm	D 54	DJM	0 402 595		
		0.5 / 1.6 mm	Ø 3 x 75 mm	130 mm	D 91	DJM	0 402 594		
	6 x 30 mm	0.5 / 1.3 mm	Ø 3 x 75 mm	130 mm	D 30	DJM	0 402 599		
		0.5 / 1.3 mm	Ø 3 x 75 mm	130 mm	D 54	DJM	0 402 598		
		0.5 / 1.3 mm	Ø 3 x 75 mm	130 mm	D 91	DJM	0 402 597		

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	
	Ø 5 x 55 mm	black	0 403 007	
	Ø 5 x 55 mm	blue	0 403 008	

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	

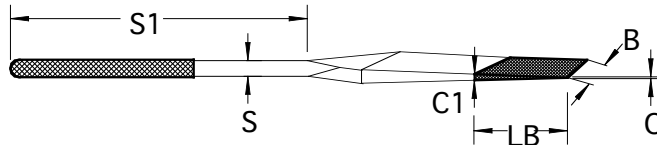


Conical diamond hand files DLP shank Ø 3 mm, total length 130 mm

Coating dimensions	Coating thickness	Shank dimensions	Total length	Grit size	Type	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	DLP	0 403 549-2		
	0.2 / 3 mm	Ø 3 x 90 mm	130 mm	# 400	DLP	0 403 549-1		
	0.2 / 3 mm	Ø 3 x 90 mm	130 mm	# 600	DLP	0 403 549		
2 x 30 mm	0.5 / 1.9 mm	Ø 3 x 78 mm	130 mm	# 200	DLP	0 403 540		
	0.5 / 1.9 mm	Ø 3 x 78 mm	130 mm	# 400	DLP	0 403 541		
	0.5 / 1.9 mm	Ø 3 x 78 mm	130 mm	# 600	DLP	0 403 542		
4 x 30 mm	0.5 / 1.3 mm	Ø 3 x 74 mm	130 mm	# 200	DLP	0 403 543		
	0.5 / 1.3 mm	Ø 3 x 74 mm	130 mm	# 400	DLP	0 403 544		
	0.5 / 1.3 mm	Ø 3 x 74 mm	130 mm	# 600	DLP	0 403 545		
6 x 30 mm	0.5 / 1.3 mm	Ø 3 x 74 mm	130 mm	# 200	DLP	0 403 546		
	0.5 / 1.3 mm	Ø 3 x 74 mm	130 mm	# 400	DLP	0 403 547		
	0.5 / 1.3 mm	Ø 3 x 74 mm	130 mm	# 600	DLP	0 403 548		



conical round files



matching set

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



Accessories / spare parts

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



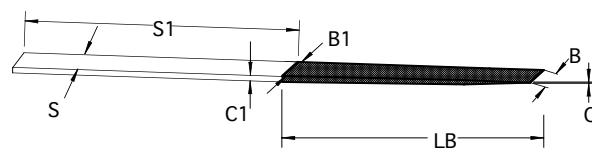
Conical diamond hand files DLV

shank 4 / 6 / 8 mm, total length 170 mm

















	Coating dimensions	Coating thickness	Shank dimensions	Total length	Grit size	Type	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	DLV	0 403 741		
		0.5 / 2 mm	4 x 120 mm	170 mm	# 400	DLV	0 403 742		
		0.5 / 2 mm	4 x 120 mm	170 mm	# 600	DLV	0 403 743		
	3 / 4 x 50 mm	0.5 / 2 mm	4 x 120 mm	170 mm	# 230	DLV	0 403 744		
		0.5 / 2 mm	4 x 120 mm	170 mm	# 400	DLV	0 403 745		
		0.5 / 2 mm	4 x 120 mm	170 mm	# 600	DLV	0 403 746		
	6 / 6 x 50 mm	0.5 / 2.5 mm	6 x 120 mm	170 mm	# 230	DLV	0 403 747		
		0.5 / 2.5 mm	6 x 120 mm	170 mm	# 400	DLV	0 403 748		
		0.5 / 2.5 mm	6 x 120 mm	170 mm	# 600	DLV	0 403 749		
8 / 8 x 50 mm	0.5 / 2.5 mm	8 x 120 mm	170 mm	# 230	DLV	0 403 750			
	0.5 / 2.5 mm	8 x 120 mm	170 mm	# 400	DLV	0 403 751			
	0.5 / 2.5 mm	8 x 120 mm	170 mm	# 600	DLV	0 403 752			

matching set



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



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	Type	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	DLS	0 403 151-30		
	2 / 3 x 50 mm	0.5 / 2 mm	4 x 120 mm	170 mm	D 46	DLS	0 403 151-3		
	2 / 3 x 50 mm	0.5 / 2 mm	4 x 120 mm	170 mm	D 76	DLS	0 403 151		
	2 / 3 x 50 mm	0.5 / 2 mm	4 x 120 mm	170 mm	D 107	DLS	0 403 151-2		
	3 / 4 x 50 mm	0.5 / 2 mm	4 x 120 mm	170 mm	D 30	DLS	0 403 152-30		
	3 / 4 x 50 mm	0.5 / 2 mm	4 x 120 mm	170 mm	D 46	DLS	0 403 152		
	3 / 4 x 50 mm	0.5 / 2 mm	4 x 120 mm	170 mm	D 76	DLS	0 403 153		
	3 / 4 x 50 mm	0.5 / 2 mm	4 x 120 mm	170 mm	D 107	DLS	0 403 154		
	6 / 6 x 50 mm	0.5 / 2.4 mm	6 x 120 mm	170 mm	D 30	DLS	0 403 155-30		
	6 / 6 x 50 mm	0.5 / 2.4 mm	6 x 120 mm	170 mm	D 46	DLS	0 403 155		
	6 / 6 x 50 mm	0.5 / 2.4 mm	6 x 120 mm	170 mm	D 76	DLS	0 403 156		
	6 / 6 x 50 mm	0.5 / 2.4 mm	6 x 120 mm	170 mm	D 107	DLS	0 403 157		
	8 / 8 x 50 mm	0.5 / 2.4 mm	8 x 120 mm	170 mm	D 30	DLS	0 403 158-30		
	8 / 8 x 50 mm	0.5 / 2.4 mm	8 x 120 mm	170 mm	D 46	DLS	0 403 158		
	8 / 8 x 50 mm	0.5 / 2.4 mm	8 x 120 mm	170 mm	D 76	DLS	0 403 159		
	8 / 8 x 50 mm	0.5 / 2.4 mm	8 x 120 mm	170 mm	D 107	DLS	0 403 160		

↓ 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	
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	