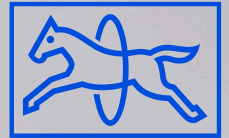


PFERD



TOOLS



5



Diamond and CBN tools

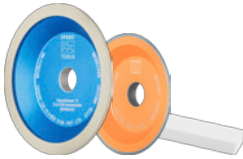
Diamond and CBN tools

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Diamond and CBN tools

Highlights from the PFERD TOOLS range



DUODISC DIAMOND

Exceptionally well-suited to machining grey cast iron and nodular cast iron (GG and GGG or GJL and GJS). Ideal for roughing and deburring work in fettling shops. The coating geometry enables small feeders and risers to be separated. Scan the QR code to find out more about DUODISC DIAMOND.



Advantages:

- Constant tool diameter.
- Reduced tool change times thanks to long tool life.
- Dust is minimized as the tool does not wear away.

Multi Power Carbide Wheel

The Multi Carbide Wheel is a general-purpose cut-off wheel and the perfect solution for demanding cutting tasks in the construction industry and in DIY applications. With sharp tungsten carbide grains, this cut-off wheel ensures excellent cutting quality and short cutting times on all kinds of materials such as wood with nails, plastics, non-ferrous metals and drywall construction materials.



Scan the QR code to find out more about the general-purpose cut-off wheel.

- Ideal choice when changing materials.
- Optimum cutting speed due to consistent diameter and high ease of cutting.
- Long service life thanks to special bonding of the tungsten carbide grain with the steel body.

Diamond tools for the construction industry

PFERD TOOLS diamond tools are the ideal solution for demanding projects which involve working on hard materials such as concrete, asphalt, granite or tiles. The broad product range offers the right tool for any application, ensuring the best results and improving the cost-effectiveness of your building projects.



Scan the QR code to find out more about diamond tools for the construction industry.

Advantages:

- Optimum results.
- Maximum efficiency and safety.
- Comprehensive product range for a wide range of uses.

More expert information online

Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.



5



Diamond and CBN tools

Customer-specific products made to order



PFERD TOOLS specializes in consulting for and the production of customer-specific electroplated diamond and CBN tools.

Almost all tool blank geometries can be coated with various grit sizes. The electroplated bond also enables economic production of small batch sizes. Because of the diverse possibilities, our production can respond to individual customer requirements with a high degree of flexibility.

Our technical advisers will be happy to visit you on-site to develop individual and economical tool solutions for your applications.

Get the best possible advice for super-hard solutions! Scan the QR code to find out more about customer-specific products made to order.



Customer-specific tool solutions for grey and nodular cast iron



Tools for auxiliary spindles

PFERD TOOLS offers tools for auxiliary spindles in different shapes/geometries and dimensions as well as with M12 and M16 threads.

Cut-off wheels and grinding discs

Diamond cut-off wheels and diamond grinding discs from PFERD TOOLS can be purchased in diameters of up to 600 mm. Shapes and dimensions (hole, radius, reference circle, etc.) can be produced according to customer requirements.

Grinding points and grinding drums

The range of products from PFERD TOOLS that can be produced according to customer requirements includes diamond grinding drums and diamond grinding points. These can be customized with different shapes, dimensions and shanks.

1. Process analysis and tool development

Contact us at www.pferd.com and arrange an appointment with our experienced sales representatives and technical advisers.

If you already have precise ideas about the desired tool, you can provide us with a technical drawing or a dimensioned sketch and information on the desired abrasives and grit sizes.

Our employees **will analyze your application with you on-site** and develop the most economic individual tool solution for you. You will then immediately receive a quote. Three production variants are possible:

2. Production

■ Complete production

From design and construction, through manufacture of the tool blank (steel, stainless steel or brass) and its coating with diamond or CBN grit, to the balancing of the finished tool, PFERD TOOLS offers you all the production steps from a single source. This guarantees you the highest level of quality, flexibility and on-time delivery.

■ Coating

Steel, stainless steel or brass blanks provided by the customer can also be coated with diamond or CBN grit. Close cooperation at an early stage is recommended.

■ Recoating

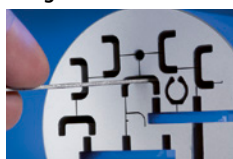
PFERD TOOLS offers recoating of blunt tools with steel or stainless steel blanks as an economical alternative to replacement production. Tools with brass blanks cannot be recoated.

3. Use

Our flexible production and global logistics network ensure that you receive your new tool on time.

If desired, your personal sales representative and a technical adviser will set up all the process parameters together with you.

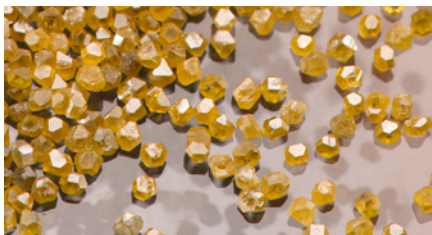
See the quality, performance and economic value of products from PFERD TOOLS for yourself!

Use	Material	Application	Tools
Filing 	Hardened steels, tungsten carbide, ceramics, glass, ferrite, nickel-based and titanium-based alloys	Precision filing	Diamond files
		Precision filing with air-powered filing machines	Diamond files for air-powered filing machines
		Machining concave and convex surfaces	Flexible diamond files Diamond sheets
	Fibre-reinforced plastics (GRP/CRP)	Deburring, chamfering and breaking of edges	Diamond machinist's files, grit size D 251
Grinding   	Tungsten carbide, ceramics, glass, ferrite (magnetic material), nickel-based and titanium-based alloys	Grinding of bores, radii, contours, profiles and shoulders, as well as deburring and chamfering	Electroplated diamond grinding points
			Diamond grinding disc CC-GRIND SOLID DIAMOND
		Internal grinding of bores	Electroplated diamond grinding points, cylindrical shape ZY
			Electroplated diamond grinding discs
	Tungsten carbide	Sharpening of tungsten carbide tools	Resinoid-bonded diamond grinding discs
	Hardened steels from approx. 54 HRC	Grinding of bores, radii, contours, profiles and shoulders, as well as deburring and chamfering	Electroplated CBN grinding points
			Electroplated CBN grinding points, cylindrical shape ZY
		Internal grinding of bores	Electroplated CBN grinding discs
	HSS (High Speed Steel)	Sharpening of HSS tools	Resinoid-bonded CBN grinding discs
	Fibre-reinforced plastics (GRP/CRP)	Deburring, chamfering and general grinding work	Electroplated diamond grinding points, cylindrical shape with radius end WR, grit size D 357
			Diamond grinding disc CC-GRIND SOLID DIAMOND
Cutting 	Tungsten carbide, ceramics, glass, ferrite, nickel-based and titanium-based alloys	Cutting	Diamond cut-off wheels, grit size D 64/D 151
			Diamond cut-off wheels, grit size D 357/D 427
	Fibre-reinforced plastics (GRP/CRP)	Cut-off grinding, trimming, making cut-outs, and cutting straight contours to size	Diamond cut-off wheels, grit size D 357/D 427
			Diamond sabre saw blades
	Grey and nodular cast iron	Separation of open risers, burrs, feeders, sprues, parting lines etc.	Diamond cut-off wheels, grit size D 852
			Diamond cut-off wheels, grit size D 852

Diamond and CBN tools

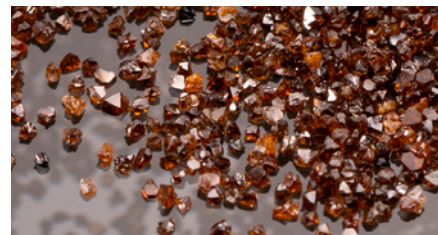
Materials

Diamond and CBN abrasives are used when materials cannot be machined with conventional abrasives such as aluminium oxide or silicon carbide. They also provide a more economical solution for many applications. Due to high chemical wear, rotating diamond tools are not suitable for work on steel. CBN tools are used for these applications. The two abrasives complement each other ideally. In the adjacent overview, you will find various materials associated with the abrasives.



Diamond

- Duroplastics, in particular with glass or carbon fibre reinforcement (GRP and CRP)
- Ferrite (magnetic material)
- Glass
- Graphite and synthetic carbon
- Grey and nodular cast iron
- Tungsten carbide
- Nickel or titanium-based superalloys
- Technical ceramics
- Wear-resistant coatings (powder metal alloys and hardfacing alloys)



CBN

- Case-hardened steels
- Roller-bearing and ball-bearing steels
- Tool steels
- Other hardened steel materials with a hardness from approx. 54 HRC

Safety notes and recommended cutting speeds

5

Safety notes

The operator is responsible for the grinding application, including correct tool drive use, correct handling and use of the grinding tools.



Wear eye protection!



Wear hearing protection!



Wear gloves!



Wear a dust mask!



Follow the safety instructions!

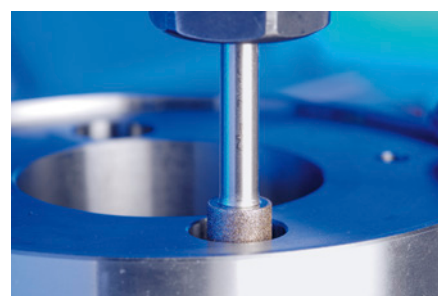


Recommended cutting speeds

The recommended cutting speed ranges depend on the application and must not exceed the maximum permissible peripheral speed. Because of the wide range of tasks and application fields of electroplated diamond and CBN tools, as well as the large influence of the employed tool drive, it is not possible to specify a generally valid cutting speed. The recommended cutting speed ranges serve as reference values.

Generally, the following applies:

- In dry grinding, do not use diamond tools at too high a cutting speed in order to avoid thermal damage to the abrasive.
- If possible, do not use CBN tools under the cutting speeds specified below. The optimum cutting speed has a direct effect on the economic efficiency of the tools in use.
- All parameters must always be coordinated with each other within the grinding process. If the cutting speed is changed, the feed, infeed and coolant supply, among others, must be adjusted accordingly.
- Electroplated diamond and CBN tools can be used in dedicated stationary applications up to a peripheral speed of 125 m/s.



Diamond and CBN tools

Safety notes and recommended cutting speeds

		Cutting speed [m/s] ▶	5	10	15	20	25	30	35	40	45	...	80
Electroplated bond	Diamond	Dry grinding			8–18 m/s					30–80 m/s for CRP/GRP as well as grey and nodular cast iron			
		Wet grinding				15–25 m/s							
	CBN	Dry grinding				15–25 m/s							
		Wet grinding					20–40 m/s						
Resinoid bond	Diamond	Dry grinding			15–20 m/s								
		Wet grinding				20–30 m/s							
	CBN	Dry grinding				18–30 m/s							
		Wet grinding					25–40 m/s						
Metal bond	Diamond	Dry grinding		10–15 m/s									
		Wet grinding			15–30 m/s								
	CBN	Wet grinding					25–30 m/s						



Diamond and CBN tools

Recommended rotational speed range



Tool dia. [mm]	Cutting speed [m/s]											
	8	12	15	18	20	25	30	40	50	80	100	125
	Rotational speed rounded off [RPM]											
1	153,000	-	-	-	-	-	-	-	-	-	-	-
2	76,400	115,000	143,000	172,000	191,000	-	-	-	-	-	-	-
3	50,900	76,400	95,500	115,000	127,000	159,000	191,000	-	-	-	-	-
4	38,200	57,300	71,600	85,900	95,500	119,000	143,000	-	-	-	-	-
5	30,600	45,800	57,300	68,800	76,400	95,500	115,000	153,000	-	-	-	-
6	25,500	38,200	47,700	57,300	63,700	79,600	95,500	127,000	159,000	-	-	-
7	21,800	32,700	40,900	49,100	54,600	68,200	81,900	109,000	136,000	-	-	-
8	19,100	28,600	35,800	43,000	47,700	59,700	71,600	95,500	119,000	191,000	-	-
9	17,000	25,500	31,800	38,200	42,400	53,100	63,700	84,900	106,000	170,000	-	-
10	15,300	22,900	28,600	34,400	38,200	47,700	57,300	76,400	95,500	153,000	191,000	-
12	12,700	19,100	23,900	28,600	31,800	39,800	47,700	63,700	79,600	127,000	159,000	199,000
14	10,900	16,400	20,500	24,600	27,300	34,100	40,900	54,600	68,200	109,000	136,000	171,000
15	10,200	15,300	19,100	22,900	25,500	31,800	38,200	50,900	63,700	102,000	127,000	159,000
16	9,500	14,300	17,900	21,500	23,900	29,800	35,800	47,700	59,700	95,500	119,000	149,000
18	8,500	12,700	15,900	19,100	21,200	26,500	31,800	42,400	53,100	84,900	106,000	133,000
20	7,600	11,500	14,300	17,200	19,100	23,900	28,600	38,200	47,700	76,400	95,500	119,000
22	6,900	10,400	13,000	15,600	17,400	21,700	26,000	34,700	43,400	69,400	86,800	109,000
25	6,100	9,200	11,500	13,800	15,300	19,100	22,900	30,600	38,200	61,100	76,400	95,500
30	5,100	7,600	9,500	11,500	12,700	15,900	19,100	25,500	31,800	50,900	63,700	79,600
40	3,800	5,700	7,200	8,600	9,500	11,900	14,300	19,100	23,900	38,200	47,700	59,700
50	3,100	4,600	5,700	6,900	7,600	9,500	11,500	15,300	19,100	30,600	38,200	47,700
75	2,000	3,100	3,800	4,600	5,100	6,400	7,600	10,200	12,700	20,400	25,500	31,800
100	1,530	2,300	2,900	3,400	3,800	4,800	5,700	7,600	9,500	15,300	19,100	23,900
125	1,220	1,830	2,300	2,800	3,100	3,800	4,600	6,100	7,600	12,200	15,300	19,100
150	1,020	1,530	1,910	2,300	2,500	3,200	3,800	5,100	6,400	10,200	12,700	15,900
175	870	1,310	1,640	1,960	2,200	2,700	3,300	4,400	5,500	8,700	10,900	13,600
200	760	1,150	1,430	1,720	1,910	2,400	2,900	3,800	4,800	7,600	9,500	11,900
230	660	1,000	1,250	1,490	1,660	2,100	2,500	3,300	4,200	6,600	8,300	10,400
250	610	920	1,150	1,380	1,530	1,910	2,300	3,100	3,800	6,100	7,600	9,500
300	510	760	950	1,150	1,270	1,590	1,910	2,500	3,200	5,100	6,400	8,000
350	440	650	820	980	1,090	1,360	1,640	2,200	2,700	4,400	5,500	6,800
400	380	570	720	860	950	1,190	1,430	1,910	2,400	3,800	4,800	6,000
450	340	510	640	760	850	1,060	1,270	1,700	2,100	3,400	4,200	5,300
500	310	460	570	690	760	950	1,150	1,530	1,910	3,100	3,800	4,800
600	250	380	480	570	640	800	950	1,270	1,590	2,500	3,200	4,000

Refer to the table for the recommended rotational speed based on the diameter and cutting speed of your tool.

Example:

Diamond grinding point, diameter: 20 mm

Cutting speed: 25 m/s

Rotational speed rounded: 23,900 RPM



Diamond escapement files, half-round

Diamond escapement files are used on very small shapes in tool making and in precision mechanics. They have a forged shank which allows use without an additional handle.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Half-round	4.2	1.5	140	40	D 25	1	15308143	DF 3608 D 25
					D 46	1	15308140	DF 3608 D 46
					D 91	1	15308141	DF 3608 D 91
					D 126	1	15308142	DF 3608 D 126



Diamond escapement files, barrette

Diamond escapement files are used on very small shapes in tool making and in precision mechanics. They have a forged shank which allows use without an additional handle.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Barrette shape	4	1.2	140	40	D 25	1	15310143	DF 3610 D 25
					D 46	1	15310140	DF 3610 D 46
					D 91	1	15310141	DF 3610 D 91
					D 126	1	15310142	DF 3610 D 126



Diamond escapement files, three square

Diamond escapement files are used on very small shapes in tool making and in precision mechanics. They have a forged shank which allows use without an additional handle.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Three square	3	140	40	D 25	1	15314143	DF 3614 D 25
				D 46	1	15314140	DF 3614 D 46
				D 91	1	15314141	DF 3614 D 91
				D 126	1	15314142	DF 3614 D 126





Diamond escapement files, hand

Diamond escapement files are used on very small shapes in tool making and in precision mechanics. They have a forged shank which allows use without an additional handle.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Hand	4	1.2	140	40	D 25	1	15317143	DF 3617 D 25
					D 46	1	15317140	DF 3617 D 46
					D 91	1	15317141	DF 3617 D 91
					D 126	1	15317142	DF 3617 D 126



Diamond escapement files, square

Diamond escapement files are used on very small shapes in tool making and in precision mechanics. They have a forged shank which allows use without an additional handle.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Square	2	2	140	40	D 25	1	15319143	DF 3619 D 25
					D 46	1	15319140	DF 3619 D 46
					D 91	1	15319141	DF 3619 D 91
					D 126	1	15319142	DF 3619 D 126



Diamond escapement files, round

Diamond escapement files are used on very small shapes in tool making and in precision mechanics. They have a forged shank which allows use without an additional handle.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Round	1.8	140	40	D 25	1	15321143	DF 3621 D 25
				D 46	1	15321140	DF 3621 D 46
				D 91	1	15321141	DF 3621 D 91
				D 126	1	15321142	DF 3621 D 126



Diamond escapement file sets

Diamond escapement file sets are supplied in a sturdy, practical plastic box which protects the tools from damage. This is ideal for keeping in the tool trolley or workbench.

Contents:

Contains one each of the following escapement files: half-round, three square, hand, square and round.

- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Special features:

- Ideal for work on hardened steel.

Grit size		Item no.	Designation
D 25	1	15830903	DF 3090 D 25
D 46	1	15830900	DF 3090 D 46
D 91	1	15830901	DF 3090 D 91
D 126	1	15830902	DF 3090 D 126

Diamond needle files



Diamond needle files, hand

Diamond needle files can be used generally in tool making.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Hand, ultra-slim	5.3	1.3	140	70	D 126	1	15102082	DF 4112S D 126
Hand	5.5	1.6	140	70	D 91	1	15101061	DF 4112 D 91
					D 126	1	15101062	DF 4112 D 126
					D 181	1	15101063	DF 4112 D 181



Diamond needle files, hand with rounded edges

Diamond needle files can be used generally in tool making.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Hand with round edges	5.5	1.6	140	70	D 91	1	15102061	DF 4112R D 91
					D 126	1	15102062	DF 4112R D 126
					D 181	1	15102063	DF 4112R D 181





Diamond needle files, flat

Diamond needle files can be used generally in tool making.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Flat	5.5	1.6	140	70	D 91	1	15103061	DF 4122 D 91
					D 126	1	15103062	DF 4122 D 126
					D 181	1	15103063	DF 4122 D 181



Diamond needle files, three square

Diamond needle files can be used generally in tool making.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Three square, ultra-slim	2.8	140	70	D 126	1	15104082	DF 4132S D 126
Three square	3.5	140	70	D 91	1	15104061	DF 4132 D 91
				D 126	1	15104062	DF 4132 D 126
				D 181	1	15104063	DF 4132 D 181



Diamond needle files, square

Diamond needle files can be used generally in tool making.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Square, ultra-slim	2.3	140	70	D 126	1	15105082	DF 4142S D 126
Square	2.6	140	70	D 91	1	15105061	DF 4142 D 91
				D 126	1	15105062	DF 4142 D 126
				D 181	1	15105063	DF 4142 D 181



Diamond needle files, half-round

Diamond needle files can be used generally in tool making.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Half-round	5.5	1.6	140	70	D 91	1	15106061	DF 4152 D 91
					D 126	1	15106062	DF 4152 D 126
					D 181	1	15106063	DF 4152 D 181



Diamond needle files, round

Diamond needle files can be used generally in tool making.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Round, ultra-slim	2.8	140	70	D 126	1	15107082	DF 4162S D 126
Round	3.2	140	70	D 91	1	15107061	DF 4162 D 91
				D 126	1	15107062	DF 4162 D 126
				D 181	1	15107063	DF 4162 D 181



Diamond needle files, knife

Diamond needle files can be used generally in tool making.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Knife shape	5	1.8	140	70	D 91	1	15108061	DF 4172 D 91
					D 126	1	15108062	DF 4172 D 126
					D 181	1	15108063	DF 4172 D 181



Diamond needle files, feather edge

Diamond needle files can be used generally in tool making.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Feather edge	5	2.4	140	70	D 91	1	15109061	DF 4182 D 91
					D 126	1	15109062	DF 4182 D 126



Diamond needle files, crossing oval

Diamond needle files can be used generally in tool making.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Crossing oval shape	5	2.2	140	70	D 91	1	15110061	DF 4192 D 91
					D 126	1	15110062	DF 4192 D 126





Diamond needle files, barrette

Diamond needle files can be used generally in tool making.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Barrette shape	5	2	140	70	D 91	1	15100061	DF 4102 D 91
					D 126	1	15100062	DF 4102 D 126



Diamond needle file sets

Diamond needle file sets are supplied in a sturdy, practical plastic box which protects the tools from damage. This is ideal for keeping in the tool trolley or workbench.

Contents:

Contains one each of the following needle files: hand, three square, square, half-round and round.

- Longer tool life due to harder diamond grain.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

Grit size		Item no.	Designation
D 91	1	15842051	DF 4205 D 91
D 126	1	15842052	DF 4205 D 126
D 181	1	15842053	DF 4205 D 181



Diamond needle file sets

Diamond needle file sets are supplied in a sturdy, practical plastic box which protects the tools from damage. This is ideal for keeping in the tool trolley or workbench.

Contents:

Contains one each of the following needle files: hand, hand with round edges, flat, three square, square, half-round, round, knife, feather edge, crossing oval and barrette.

- Longer tool life due to harder diamond grain.

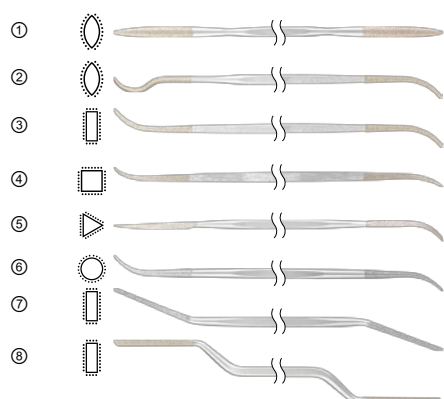
Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

Grit size		Item no.	Designation
D 91	1	15842111	DF 4211 D 91
D 126	1	15842112	DF 4211 D 126
D 181	1	15842113	DF 4211 D 181

Diamond and CBN tools – electroplated bond

Diamond riffler files



Diamond riffler files

Diamond riffler files are used for work in hard-to-reach areas and on complex geometries. The coating length is 25 mm on both sides of the files.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Image	Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Double-sided coating length [mm]	Grit size		Item no.	Designation
①	Crossing oval shape	3.2	2	150	25	D 91	1	15215070	DF 15 D 91
						D 126	1	15215100	DF 15 D 126
②	Crossing oval shape	3.7	2	150	25	D 91	1	15216070	DF 16 D 91
						D 126	1	15216100	DF 16 D 126
③	Hand	3.1	3	150	25	D 91	1	15218070	DF 18 D 91
						D 126	1	15218100	DF 18 D 126
④	Square	2.5	2.5	150	25	D 91	1	15220070	DF 20 D 91
						D 126	1	15220100	DF 20 D 126
⑤	Three square	3	-	150	25	D 91	1	15222070	DF 22 D 91
						D 126	1	15222100	DF 22 D 126
⑥	Round	3	-	150	25	D 91	1	15224070	DF 24 D 91
						D 126	1	15224100	DF 24 D 126
⑦	Hand	3.8	1.6	150	25	D 91	1	15209141	DF 914 D 91
						D 126	1	15209142	DF 914 D 126
⑧	Hand	4	2	150	25	D 91	1	15209181	DF 918 D 91
						D 126	1	15209182	DF 918 D 126



Diamond riffler file set

The diamond riffler file set is supplied in a sturdy, practical plastic box which protects the tools from damage. This is ideal for keeping in the tool trolley or workbench.



Contents:

Contains one each of the following riffler files: crossing oval, hand, square, three square, round.

Special features:

- Sturdy plastic box to prevent damage.

Grit size		Item no.	Designation
D 126	1	15816242	DF 1624 D 126



Diamond handy files, hand

Diamond handy files have a forged shank which allows for use without an additional handle.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Hand	10.3	2.8	215	100	D 126	1	15430202	DF 2601 D 126
					D 181	1	15430203	DF 2601 D 181



Diamond handy files, half-round

Diamond handy files have a forged shank which allows for use without an additional handle.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Half-round	12.5	3.8	215	100	D 126	1	15431202	DF 2602 D 126
					D 181	1	15431203	DF 2602 D 181



Diamond handy files, three square

Diamond handy files have a forged shank which allows for use without an additional handle.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Three square	10	215	100	D 126	1	15432202	DF 2607 D 126
				D 181	1	15432203	DF 2607 D 181



Diamond handy files, square

Diamond handy files have a forged shank which allows for use without an additional handle.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Square	5.5	5.5	215	100	D 126	1	15433202	DF 2608 D 126
					D 181	1	15433203	DF 2608 D 181



Diamond and CBN tools – electroplated bond

Diamond handy files



Diamond handy files, round

Diamond handy files have a forged shank which allows for use without an additional handle.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Round	6.7	215	100	D 126	1	15434202	DF 2610 D 126
				D 181	1	15434203	DF 2610 D 181



Diamond handy file sets

Diamond handy file sets are supplied in a sturdy, practical plastic box which protects the tools from damage. This is ideal for keeping in the tool trolley or workbench.

Contents:

Contains one each of the following handy files: hand, half-round, three square, square and round.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Grit size		Item no.	Designation
D 126	1	15826272	DF 2627 D 126
D 181	1	15826273	DF 2627 D 181

Conical diamond files



Conical diamond files

The conical diamond files are used in tool-making for particularly narrow, deep-set contours. The forged shank allows for use without an additional handle.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Width A [mm]	Thickness B [mm]	Thickness B ₁ [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
4	2	0.5	170	50	D 46	1	15917040	DF-K 170-4-2-0,5 D 46
					D 91	1	15917041	DF-K 170-4-2-0,5 D 91
					D 126	1	15917042	DF-K 170-4-2-0,5 D 126
6	2.4	0.5	170	50	D 46	1	15917060	DF-K 170-6-2,4-0,5 D 46
					D 91	1	15917061	DF-K 170-6-2,4-0,5 D 91
					D 126	1	15917062	DF-K 170-6-2,4-0,5 D 126
8	2.4	0.5	170	50	D 46	1	15917080	DF-K 170-8-2,4-0,5 D 46
					D 91	1	15917081	DF-K 170-8-2,4-0,5 D 91
					D 126	1	15917082	DF-K 170-8-2,4-0,5 D 126
10	2.5	0.5	170	50	D 46	1	15917100	DF-K 170-10-2,5-0,5 D 46
					D 91	1	15917101	DF-K 170-10-2,5-0,5 D 91
					D 126	1	15917102	DF-K 170-10-2,5-0,5 D 126





Diamond machinist's files, hand

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. They are supplied with ergonomic file handles.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Hand	10	3.2	100	85	D 126	1	15400126	DF 1112/100 D 126
					D 151	1	15400151	DF 1112/100 D 151
					D 251	1	15400251	DF 1112/100 D 251
	11.2	4.2	125	110	D 126	1	15401126	DF 1112/125 D 126
					D 151	1	15401151	DF 1112/125 D 151
	13	5	150	135	D 126	1	15401192	DF 1112/150 D 126
					D 151	1	15401195	DF 1112/150 D 151
					D 251	1	15401199	DF 1112/150 D 251
	22.5	5.5	200	180	D 151	1	15401204	DF 1112/200 D 151
					D 251	1	15401205	DF 1112/200 D 251



Diamond machinist's files, three square

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. They are supplied with ergonomic file handles.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Three square	7	100	85	D 126	1	15403126	DF 1132/100 D 126
				D 151	1	15403151	DF 1132/100 D 151
	14	200	180	D 151	1	15403204	DF 1132/200 D 151
				D 251	1	15403205	DF 1132/200 D 251



Diamond machinist's files, square

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. They are supplied with ergonomic file handles.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Square	7.5	7.5	200	180	D 151	1	15404204	DF 1142/200 D 151



Diamond machinist's files, half-round pointed

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. They are supplied with ergonomic file handles.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Half-round pointed	12	4	100	85	D 126	1	15405126	DF 1152/100 D 126
					D 151	1	15405151	DF 1152/100 D 151
	22	6.5	200	180	D 151	1	15405204	DF 1152/200 D 151
					D 251	1	15405205	DF 1152/200 D 251



Diamond machinist's files, round

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. They are supplied with ergonomic file handles.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Round	8	200	180	D 151	1	15406204	DF 1162/200 D 151

Flexible diamond files



Flexible diamond files

The flexible diamond files perfectly adapt to the workpiece surface. Due to its flexibility, they can be used in convex and concave contours with small radii.



Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating	Grit size		Item no.	Designation
0.5	14	165	one side	D 76	5	15600076	DF-FLEX 14-165 D 76
				D 126	5	15600126	DF-FLEX 14-165 D 126
				D 181	5	15600181	DF-FLEX 14-165 D 181





Diamond sheets

The diamond sheets are exceptionally well-suited to work on larger surfaces. Convex and concave contours can be worked on with relatively little effort.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating	Grit size		Item no.	Designation
0.7	30	170	complete	D 64	1	15600030	DBL 30-0,7-170 D 64
				D 126	1	15630126	DBL 30-0,7-170 D 126
1.3	35	350	complete	D 64	1	15635064	DBL 35-1,3-350 D 64
				D 126	1	15600035	DBL 35-1,3-350 D 126

Diamond files for manual filing tools



Diamond files for manual filing tools

Diamond files for manual filing tools are suitable for use in machines, as well as for hand filing. The shank diameter of the diamond files is 3 mm.

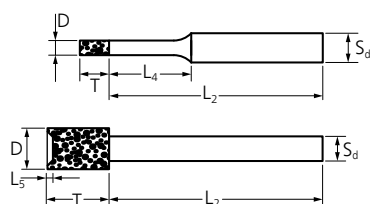
Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Image	Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Double-sided coating length [mm]	Coating	Grit size		Item no.	Designation
②	Hand	2	1	50	15	both sides	D 126	1	15653102	DF 5310 D 126
		3	1	50	15	both sides	D 126	1	15653112	DF 5311 D 126
		4	1	50	15	both sides	D 126	1	15653122	DF 5312 D 126
		5	2	50	15	both sides	D 126	1	15653132	DF 5313 D 126
				60	25	both sides	D 126	1	15653142	DF 5314 D 126
③	Hand	0.5	4	50	15	face-down	D 126	1	15653162	DF 5316 D 126
⑤	Round	1	-	50	15	complete	D 126	1	15653312	DF 5331 D 126
		2	-	50	15	complete	D 126	1	15653352	DF 5335 D 126
				60	25	complete	D 126	1	15653372	DF 5337 D 126
		3	-	50	15	complete	D 126	1	15653392	DF 5339 D 126
				60	25	complete	D 126	1	15653432	DF 5343 D 126
		4	-	50	15	complete	D 126	1	15653452	DF 5345 D 126
				60	25	complete	D 126	1	15653472	DF 5347 D 126
⑦	Crossing oval shape	3.5	2	50	15	complete	D 126	1	15653562	DF 5356 D 126
		6	3	60	25	complete	D 126	1	15653622	DF 5362 D 126
⑥	Three square	2	-	50	15	complete	D 126	1	15653652	DF 5365 D 126
		3.5	-	50	15	complete	D 126	1	15653672	DF 5367 D 126
				60	25	complete	D 126	1	15653712	DF 5371 D 126
		4.5	-	60	25	complete	D 126	1	15653752	DF 5375 D 126
④	Square	1.5	1.5	50	15	complete	D 126	1	15653902	DF 5390 D 126
		3	3	50	15	complete	D 126	1	15653912	DF 5391 D 126
		4	4	50	15	complete	D 126	1	15653922	DF 5392 D 126
⑨	Flat conical	3.3	1	55	16	complete	D 126	1	15601032	DF 0103 D 126
		6.3	1	55	16	complete	D 126	1	15601062	DF 0106/55 D 126
				73	16	complete	D 126	1	15601064	DF 0106/73 D 126

Diamond and CBN tools – electroplated bond

Diamond grinding points



Cylindrical shape ZY

The cylindrical shape ZY is suitable for grinding bores, radii and contours in stationary or manual applications.



Special features:

- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

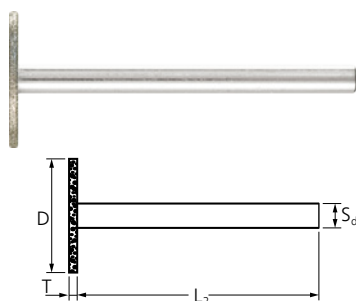
D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	L ₄ [mm]	Grit size		Item no.	Designation
0.5	2	3	38	5	D 64	5	36000506	DZY-A 0,5-2/3 D 64
0.8	2	3	38	5	D 64	5	36000806	DZY-A 0,8-2/3 D 64
1	4	3	36	9	D 64	5	36001006	DZY-A 1,0-4/3 D 64
					D 91	5	36001009	DZY-A 1,0-4/3 D 91
					D 126	5	36001010	DZY-A 1,0-4/3 D 126
1.2	4	3	36	9	D 64	5	36001206	DZY-A 1,2-4/3 D 64
					D 91	5	36001209	DZY-A 1,2-4/3 D 91
					D 126	5	36001210	DZY-A 1,2-4/3 D 126
1.4	4	3	36	9	D 64	5	36001406	DZY-A 1,4-4/3 D 64
					D 91	5	36001409	DZY-A 1,4-4/3 D 91
					D 126	5	36001410	DZY-A 1,4-4/3 D 126
1.6	4	3	36	10	D 91	5	36001609	DZY-A 1,6-4/3 D 91
					D 126	5	36001610	DZY-A 1,6-4/3 D 126
1.8	4	3	36	10	D 91	5	36001809	DZY-A 1,8-4/3 D 91
					D 126	5	36001810	DZY-A 1,8-4/3 D 126
2	4	3	36	10	D 64	5	36002006	DZY-A 2,0-4/3 D 64
					D 91	5	36002009	DZY-A 2,0-4/3 D 91
					D 126	5	36002010	DZY-A 2,0-4/3 D 126
2.4	4	3	36	14	D 91	5	36002409	DZY-A 2,4-4/3 D 91
					D 126	5	36002410	DZY-A 2,4-4/3 D 126
2.6	4	3	36	14	D 91	5	36002609	DZY-A 2,6-4/3 D 91
					D 126	5	36002610	DZY-A 2,6-4/3 D 126
3	4	3	36	19	D 64	5	36003006	DZY-A 3,0-4/3 D 64
					D 91	5	36003009	DZY-A 3,0-4/3 D 91
					D 126	5	36003010	DZY-A 3,0-4/3 D 126
3.5	5	3	45	-	D 91	5	36003509	DZY-N 3,5-5/3 D 91
					D 126	5	36003510	DZY-N 3,5-5/3 D 126
4	5	3	45	-	D 91	5	36004009	DZY-N 4,0-5/3 D 91
					D 126	5	36004010	DZY-N 4,0-5/3 D 126
4.5	5	3	45	-	D 91	5	36004509	DZY-N 4,5-5/3 D 91
					D 126	5	36004510	DZY-N 4,5-5/3 D 126
5	5	3	45	-	D 91	5	36005009	DZY-N 5,0-5/3 D 91
					D 126	5	36005010	DZY-N 5,0-5/3 D 126
5.5	6	3	44	-	D 91	5	36005509	DZY-N 5,5-6/3 D 91
					D 126	5	36005510	DZY-N 5,5-6/3 D 126
					D 181	5	36005518	DZY-N 5,5-6/3 D 181
6	6	6	54	19	D 91	1	36006009	DZY-A 6,0-6/6 D 91
					D 126	1	36006010	DZY-A 6,0-6/6 D 126
					D 181	1	36006018	DZY-A 6,0-6/6 D 181
7	8	6	52	-	D 126	1	36007010	DZY-N 7,0-8/6 D 126
8	8	6	52	-	D 91	1	36008009	DZY-N 8,0-8/6 D 91

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D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	L ₄ [mm]	Grit size		Item no.	Designation
8	8	6	52	-	D 126	1	36008010	DZY-N 8,0-8/6 D 126
					D 181	1	36008018	DZY-N 8,0-8/6 D 181
9	8	6	52	-	D 126	1	36009010	DZY-N 9,0-8/6 D 126
10	8	6	52	-	D 91	1	36010009	DZY-N 10,0-8/6 D 91
					D 126	1	36010010	DZY-N 10,0-8/6 D 126
					D 181	1	36010018	DZY-N 10,0-8/6 D 181
12	8	6	52	-	D 91	1	36012009	DZY-N 12,0-8/6 D 91
					D 126	1	36012010	DZY-N 12,0-8/6 D 126
					D 181	1	36012018	DZY-N 12,0-8/6 D 181
15	10	6	50	-	D 126	1	36015010	DZY-N 15,0-10/6 D 126
18	10	6	50	-	D 126	1	36018010	DZY-N 18,0-10/6 D 126
20	10	6	50	-	D 126	1	36020010	DZY-N 20,0-10/6 D 126
15	10	10	110	-	D 126	1	36015110	DZY-N 15,0-10/10 D 126
25	10	12	110	-	D 126	1	36025110	DZY-N 25,0-10/12 D 126



Special shape ZY

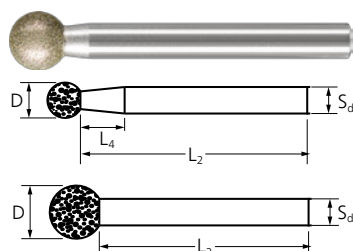
The special shape ZY is suitable for grinding slits and grooves in hard-to-reach areas.



Special features:

- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	Grit size		Item no.	Designation
8	0.5	3	35	D 64	1	36050806	DZY-N 8,0-0,5/3 D 64
14	0.5	3	35	D 64	1	36051406	DZY-N 14,0-0,5/3 D 64
	1	3	35	D 64	1	36051416	DZY-N 14,0-1,0/3 D 64
	1	3	35	D 91	1	36051419	DZY-N 14,0-1,0/3 D 91



Ball shape KU

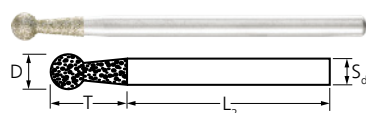
The ball shape KU is often used in manual applications. This shape is well-suited for engraving, contour grinding and deburring tasks.



Special features:

- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	S _d [mm]	L ₂ [mm]	L ₄ [mm]	Grit size		Item no.	Designation
1	3	44	10	D 64	5	36201006	DKU-A 1,0/3 D 64
				D 91	5	36201009	DKU-A 1,0/3 D 91
				D 126	5	36201010	DKU-A 1,0/3 D 126
				D 181	5	36201018	DKU-A 1,0/3 D 181
2	3	43	8	D 64	5	36202006	DKU-A 2,0/3 D 64
				D 91	5	36202009	DKU-A 2,0/3 D 91
				D 126	5	36202010	DKU-A 2,0/3 D 126
				D 181	5	36202018	DKU-A 2,0/3 D 181
3	3	42	6	D 64	5	36203006	DKU-A 3,0/3 D 64
				D 91	5	36203009	DKU-A 3,0/3 D 91
				D 126	5	36203010	DKU-A 3,0/3 D 126
				D 181	5	36203018	DKU-A 3,0/3 D 181
4	3	41	5	D 91	5	36204009	DKU-A 4,0/3 D 91
				D 126	5	36204010	DKU-A 4,0/3 D 126
				D 181	5	36204018	DKU-A 4,0/3 D 181
5	3	40	2	D 91	5	36205009	DKU-A 5,0/3 D 91
				D 126	5	36205010	DKU-A 5,0/3 D 126
				D 181	5	36205018	DKU-A 5,0/3 D 181
6	3	39	-	D 91	1	36206009	DKU-N 6,0/3 D 91
				D 126	1	36206010	DKU-N 6,0/3 D 126
				D 181	1	36206018	DKU-N 6,0/3 D 181
8	6	52	10	D 126	1	36208010	DKU-A 8,0/6 D 126
10	6	50	5	D 126	1	36210010	DKU-A 10,0/6 D 126
12	6	48	-	D 126	1	36212010	DKU-N 12,0/6 D 126



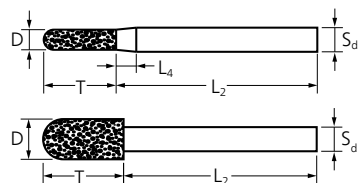
Special shape KU

Often used for deburring plastic profiles in manual applications. This shape is also coated with abrasive grain under the ball-shaped part of the grinding point on the stepped shank. The special shape provides optimum results when machining profiles.

Special features:

- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	Grit size		Item no.	Designation
3	10	3	40	D 181	1	36223018	DKU 3,0-10/3 D 181
4	10	3	40	D 181	1	36224018	DKU 4,0-10/3 D 181



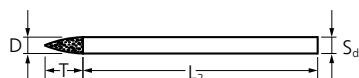
Cylindrical shape with radius end WR

The cylindrical shape with radius end WR is best suited to manual applications and can be used for a wide variety of deburring and grinding tasks.

Special features:

- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	L ₄ [mm]	Grit size		Item no.	Designation
5	18	6	50	5	D 126	1	36425026	DWR-A 5,0-18/6 D 126
					D 357	1	36425035	DWR-A 5,0-18/6 D 357
6	18	6	50	5	D 126	1	36426026	DWR-A 6,0-18/6 D 126
					D 357	1	36426035	DWR-A 6,0-18/6 D 357
10	20	6	50	-	D 126	1	36431026	DWR-N 10,0-20/6 D 126
					D 357	1	36431057	DWR-N 10,0-20/6 D 357



Pointed tree shape SPG

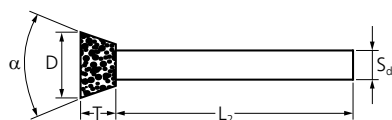
The pointed tree shape SPG is exceptionally well-suited to machining small holes or bores as well as for engraving work.



Special features:

- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	Grit size		Item no.	Designation
3	7	3	43	D 126	1	36443010	DSPG 3,0-7/3 D 126
	13	3	37	D 126	1	36443020	DSPG 3,0-13/3 D 126
6	18	6	50	D 126	1	36443030	DSPG 6,0-18/6 D 126



Cup shape KT

The cup shape KT is ideal for work on profiles, planar surfaces and ledges, without the cylindrical surface being damaged.

Special features:

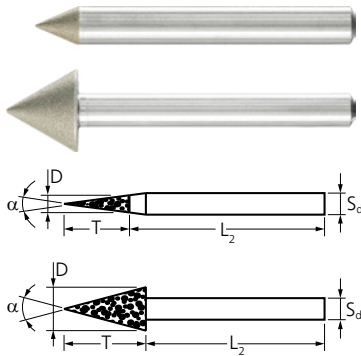
- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.

- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	α [°]	S _d [mm]	L ₂ [mm]	Grit size		Item no.	Designation
3	7	8	3	43	D 126	1	36453010	DKT 3,0-8°/3 D 126
10	5	30	6	50	D 126	1	36461010	DKT 10,0-30°/6 D 126

Diamond and CBN tools – electroplated bond

Diamond grinding points



Conical pointed shape SK

The conical pointed shape SK is exceptionally well-suited to deburring bores, regrounding centring holes and chamfering.



Special features:

- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	α [°]	S _d [mm]	L ₂ [mm]	Grit size		Item no.	Designation
6	45	7	6	50	D 64	1	36476007	DSK 6,0-7°/6 D 64
					D 126	1	36476026	DSK 6,0-7°/6 D 126
		12	6	50	D 64	1	36476012	DSK 6,0-12°/6 D 64
					D 126	1	36476120	DSK 6,0-12°/6 D 126
	21	15	6	50	D 64	1	36476015	DSK 6,0-15°/6 D 64
					D 126	1	36476150	DSK 6,0-15°/6 D 126
		30	6	50	D 64	1	36476006	DSK 6,0-30°/6 D 64
					D 126	1	36476030	DSK 6,0-30°/6 D 126
	5	60	6	50	D 64	1	36476060	DSK 6,0-60°/6 D 64
					D 126	1	36470126	DSK 6,0-60°/6 D 126
	9	60	6	50	D 64	1	36476104	DSK 10,0-60°/6 D 64
					D 126	1	36476106	DSK 10,0-60°/6 D 126
10	5	90	6	50	D 64	1	36476124	DSK 10,0-90°/6 D 64
					D 126	1	36476126	DSK 10,0-90°/6 D 126
15	13	60	6	50	D 64	1	36476144	DSK 15,0-60°/6 D 64
					D 126	1	36476146	DSK 15,0-60°/6 D 126
	7.5	90	6	50	D 64	1	36476164	DSK 15,0-90°/6 D 64
					D 126	1	36476166	DSK 15,0-90°/6 D 126



Diamond grinding point set

The set contains ten diamond grinding points with grit size D 126 in the most common shapes and dimensions. The sturdy plastic box protects the tools against dirt and damage.

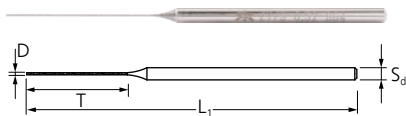
Contents:

Contains one each of the following diamond grinding points: DZY-A 1,0-4/3 D 126, DZY-A 2,0-4/3 D 126, DZY-N 4,0-5/3 D 126, DZY-N 5,0-5/3 D 126, DZY-N 14,0-1,1/3 D 126, DKU-A 2,0/3 D 126, DKU-A 4,0/3 D 126, DKU-N 6,0/3 D 126, DSPG 3,0-7/3 D 126 and DKT 3,0-8°/3 D 126.

Special features:

- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

S _d [mm]	Grit size		Item no.	Designation
3	D 126	1	36476067	D-Set/3 D126



Cylindrical shape ZY/S

Very well suited to removing contamination from small holes in hard-to-reach places. The coating area is flexible thanks to the special tool geometry. Suitable for both manual applications and hand-guided rotating applications.

Special features:

- Excellent for grinding out and cleaning small holes.
- To achieve the best results, insert the diamond needle into the hole first and then slowly increase the rotational speed.
- High lateral loads should be avoided to ensure the needles have a long service life.

D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	L ₁ [mm]	Grit size		Item no.	Designation
0.42	20	3	60	80	D 46	5	36061222	DZY-A 0.42-20/3 D46
0.52	30	3	50	80	D 64	5	36061223	DZY-A 0.52-30/3 D64
0.62	30	3	50	80	D 64	5	36061224	DZY-A 0.62-30/3 D64
0.72	30	3	50	80	D 64	5	36061225	DZY-A 0.72-30/3 D64

Diamond needle set

The set contains eight diamond needles, split into four pairs. The sturdy plastic box protects the tools against dirt and damage.

Contents:

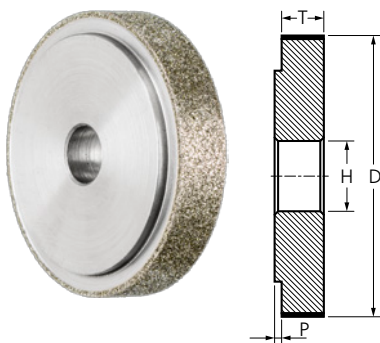
The set comprises two each of the following:
DZY/S 0,42-20/3, D46, DZY/S 0,52-30/3, D64,
DZY/S 0,62-30/3, D64, DZY/S 0,72-30/3 D64.

Special features:

- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

S _d [mm]	Grit size		Item no.	Designation
3	fine	1	36476059	D-Set/3 D46/64

Diamond grinding discs



Grinding discs 1A1

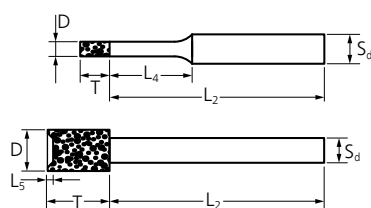
Diamond grinding discs are intended for use on stationary machines. They have an additional centring shoulder which allows them to be accurately mounted and aligned on the machine spindle. Combined with a stable mandrel, these tools are ideal for work in deep-set or long bores.



Special features:

- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	H [mm]	P [mm]	Grit size		Item no.	Designation
18	10	8	2	D 151	1	36618015	D1A1 18-10-8 D 151
20	10	8	2	D 151	1	36622015	D1A1 20-10-8 D 151
30	10	10	2	D 151	1	36623015	D1A1 30-10-10 D 151
40	10	10	2	D 151	1	36624015	D1A1 40-10-10 D 151
50	10	10	2	D 151	1	36625015	D1A1 50-10-10 D 151



Cylindrical shape ZY

The cylindrical shape ZY is suitable for grinding bores, radii and contours in stationary or manual applications.

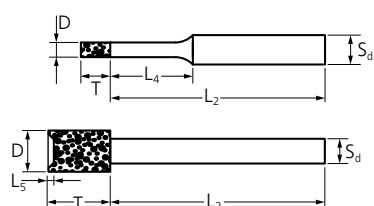


Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	L ₄ [mm]	Grit size		Item no.	Designation
0.5	2	3	38	5	B 64	5	36100506	BZY-A 0,5-2/3 B 64
0.8	2	3	38	5	B 64	5	36100806	BZY-A 0,8-2/3 B 64
1	4	3	36	9	B 64	5	36101006	BZY-A 1,0-4/3 B 64
					B 126	5	36101010	BZY-A 1,0-4/3 B 126
1.2	4	3	36	9	B 64	5	36101206	BZY-A 1,2-4/3 B 64
					B 126	5	36101210	BZY-A 1,2-4/3 B 126
1.4	4	3	36	9	B 126	5	36101410	BZY-A 1,4-4/3 B 126
1.6	4	3	36	10	B 64	5	36101606	BZY-A 1,6-4/3 B 64
					B 126	5	36101610	BZY-A 1,6-4/3 B 126
1.8	4	3	36	10	B 126	5	36101810	BZY-A 1,8-4/3 B 126
2	4	3	36	10	B 64	5	36102006	BZY-A 2,0-4/3 B 64
					B 126	5	36102010	BZY-A 2,0-4/3 B 126
2.2	4	3	36	14	B 126	5	36102210	BZY-A 2,2-4/3 B 126
2.4	4	3	36	14	B 64	5	36102406	BZY-A 2,4-4/3 B 64
					B 126	5	36102410	BZY-A 2,4-4/3 B 126
2.6	4	3	36	14	B 64	5	36102606	BZY-A 2,6-4/3 B 64
					B 126	5	36102610	BZY-A 2,6-4/3 B 126
2.8	4	3	36	14	B 126	5	36102810	BZY-A 2,8-4/3 B 126
3	4	3	36	19	B 64	5	36103006	BZY-A 3,0-4/3 B 64
					B 126	5	36103010	BZY-A 3,0-4/3 B 126
3.5	5	3	45	-	B 64	5	36103506	BZY-N 3,5-5/3 B 64
					B 126	5	36103510	BZY-N 3,5-5/3 B 126
4	5	3	45	-	B 64	5	36104006	BZY-N 4,0-5/3 B 64
					B 126	5	36104010	BZY-N 4,0-5/3 B 126
4.5	5	3	45	-	B 126	5	36104510	BZY-N 4,5-5/3 B 126
5	5	3	45	-	B 64	5	36105006	BZY-N 5,0-5/3 B 64
					B 126	5	36105010	BZY-N 5,0-5/3 B 126
5.5	6	3	44	-	B 126	5	36105510	BZY-N 5,5-6/3 B 126
6	6	6	54	19	B 126	1	36106010	BZY-A 6,0-6/6 B 126
7	8	6	52	-	B 126	1	36107010	BZY-N 7,0-8/6 B 126
8	8	6	52	-	B 126	1	36108010	BZY-N 8,0-8/6 B 126
9	8	6	52	-	B 126	1	36109010	BZY-N 9,0-8/6 B 126
10	8	6	52	-	B 126	1	36110010	BZY-N 10,0-8/6 B 126
12	8	6	52	-	B 126	1	36112010	BZY-N 12,0-8/6 B 126
13	10	6	50	-	B 126	1	36113010	BZY-N 13,0-10/6 B 126
14	10	6	50	-	B 126	1	36114010	BZY-N 14,0-10/6 B 126
15	10	6	50	-	B 126	1	36115010	BZY-N 15,0-10/6 B 126
18	10	6	50	-	B 126	1	36118010	BZY-N 18,0-10/6 B 126
20	10	6	50	-	B 126	1	36120010	BZY-N 20,0-10/6 B 126
15	10	10	110	-	B 126	1	36115110	BZY-N 15,0-10/10 B 126





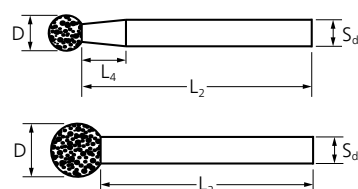
Cylindrical points with tungsten carbide shank

Cylindrical mounted points with tungsten carbide shanks are used for internal grinding on stationary machines. In internal grinding applications, tools with a tungsten carbide shank offer higher stock removal rates, superior surfaces and more precise shape and position tolerances.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	L ₄ [mm]	Grit size		Item no.	Designation
4	5	3	43	-	B 151	1	36154515	BZY-N 4,0-5/3 HM B 151
6	6	6	98	19	B 151	1	36136615	BZY-A 6,0-6/6 HM B 151
8	8	6	98	-	B 151	1	36158815	BZY-N 8,0-8/6 HM B 151
12	8	6	98	-	B 151	1	36161151	BZY-N 12,0-8/6 HM B 151



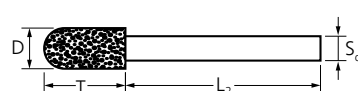
Ball shape KU

Spherical shape CBN grinding points are often used for engraving, contours and deburring work.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

D [mm]	S _d [mm]	L ₂ [mm]	L ₄ [mm]	Grit size		Item no.	Designation
1	3	44	10	B 126	5	36301010	BKU-A 1,0/3 B 126
2	3	43	8	B 126	5	36302010	BKU-A 2,0/3 B 126
3	3	42	6	B 64	5	36303006	BKU-A 3,0/3 B 64
				B 126	5	36303010	BKU-A 3,0/3 B 126
4	3	41	5	B 126	5	36304010	BKU-A 4,0/3 B 126
5	3	40	2	B 126	5	36305010	BKU-A 5,0/3 B 126
6	3	39	-	B 126	1	36306010	BKU-N 6,0/3 B 126
8	6	52	10	B 126	1	36308010	BKU-A 8,0/6 B 126
10	6	50	5	B 126	1	36310010	BKU-A 10,0/6 B 126
12	6	48	-	B 126	1	36312010	BKU-N 12,0/6 B 126



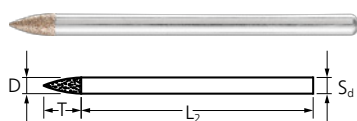
Cylindrical shape with radius end WR

The cylindrical shape with radius end WR is best suited to manual applications and can be used for a wide variety of deburring and grinding tasks.

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	Grit size		Item no.	Designation
5	10	3	40	B 126	1	36525010	BWR-N 5,0-10/3 B 126
6	10	3	40	B 126	1	36526010	BWR-N 6,0-10/3 B 126



Pointed tree shape SPG

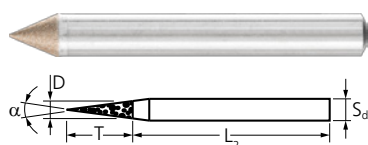
The pointed tree shape SPG is exceptionally well-suited to machining small holes or bores as well as for engraving work.

Special features:

- Ideal for work on hardened steel.

- No chemical wear thanks to the low working temperatures.

D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	Grit size		Item no.	Designation
3	7	3	43	B 126	1	36543010	BSPG 3,0-7/3 B 126
6	18	6	50	B 126	1	36546010	BSPG 6,0-18/6 B 126



Conical pointed shape SK

The conical pointed shape SK is exceptionally well-suited to deburring bores, regrounding centring holes and chamfering.

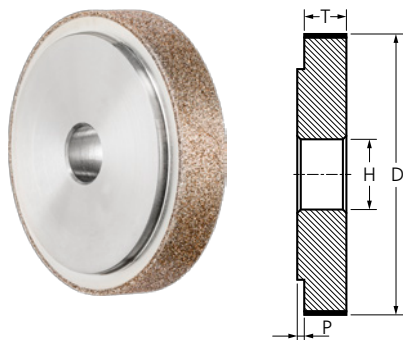
Special features:

- Ideal for work on hardened steel.

- No chemical wear thanks to the low working temperatures.

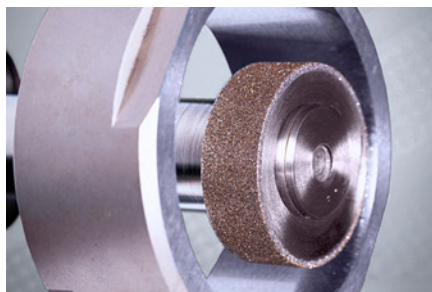
D [mm]	T [mm]	α [°]	S _d [mm]	L ₂ [mm]	Grit size		Item no.	Designation
6	7	45	6	50	B 64	1	36576045	BSK 6,0-45°/6 B 64
	5	60	6	50	B 64	1	36576060	BSK 6,0-60°/6 B 64

CBN grinding discs



Grinding discs 1A1

CBN grinding discs are intended for use on stationary machines. They have an additional centring shoulder which allows them to be accurately mounted and aligned on the machine spindle. Combined with a stable mandrel, these tools are ideal for work in deep-set or long bores.



Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

D [mm]	T [mm]	H [mm]	P [mm]	Grit size		Item no.	Designation
20	10	8	2	B 151	1	36722015	B1A1 20-10-8 B 151
30	10	10	2	B 151	1	36723015	B1A1 30-10-10 B 151
40	10	10	2	B 151	1	36724015	B1A1 40-10-10 B 151
50	10	10	2	B 151	1	36725015	B1A1 50-10-10 B 151



Diamond and CBN tools – electroplated bond

Diamond cut-off wheels



Shape D (continuous coating)

The continuous coating is particularly suitable for very fine separating cuts.



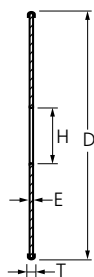
Shape G (with protective segments)

The continuous coating with protective segments facilitates optimum free-cutting.



Shape S 2 (segmented)

The segmentation allows particularly good chip removal.



Diamond cut-off wheels

Electroplated diamond cut-off wheels are used for cutting hard materials such as tungsten carbide or ceramics and fibre-reinforced plastics (GRP/CRP).



Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

5



D [mm]	T [mm]	E [mm]	H [mm]	Shape	Protective seg. per side	Grit size		Item no.	Designation
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Hard materials, e.g. glass, ceramic or tungsten carbide

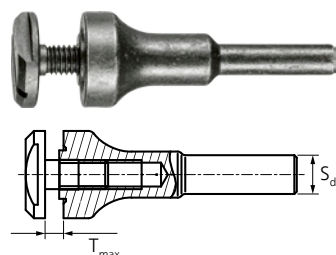
22	0.5	0.3	1.7	D	no	D 64	1	68402206	D1A1R 22-0,5-1,7 D 64 GAD
30	1	0.6	10	D	no	D 151	1	68403015	D1A1R 30-1-10 D 151 GAD
40	1	0.6	10	D	no	D 151	1	68404015	D1A1R 40-1-10 D 151 GAD
50	1.4	1	10	D	no	D 151	1	68405025	D1A1R 50-1,4-10 D 151 GAD
			6	D	no	D 151	1	68405015	D1A1R 50-1,4-6 D 151 GAD
125	1.4	1	20	D	no	D 151	1	68412115	D1A1R 125-1,4-20 D 151 GAD

Fibre-reinforced plastics (GRP and CRP) as well as pre-sintered and green ceramic

50	2	1	10	D	no	D 357	1	68405164	D1A1R 50-2-10 D 357 GAD
				G	3	D 357	1	68405163	D1A1R 50-2-10 D 357 GAG
			6	D	no	D 357	1	68405064	D1A1R 50-2-6 D 357 GAD
				G	3	D 357	1	68405063	D1A1R 50-2-6 D 357 GAG
75	2	1	10	D	no	D 357	1	68407503	D1A1R 75-2-10 D 357 GAD
				G	3	D 357	1	68407103	D1A1R 75-2-10 D 357 GAG
100	2	1	22.23	D	no	D 427	1	68410237	D1A1R 100-2-22,23 D 427 GAD
				G	3	D 427	1	68410238	D1A1R 100-2-22,23 D 427 GAG
115	2	1	22.23	D	no	D 427	1	68411237	D1A1R 115-2-22,23 D 427 GAD
				G	3	D 427	1	68411238	D1A1R 115-2-22,23 D 427 GAG
125	2	1	22.23	D	no	D 427	1	68412237	D1A1R 125-2-22,23 D 427 GAD
				G	3	D 427	1	68412238	D1A1R 125-2-22,23 D 427 GAG
178	2	1	22.23	D	no	D 427	1	68417838	D1A1R 178-2-22,23 D 427 GAD
230	2.5	1.5	22.23	S2	no	D 427	1	68423227	D1A1RSS 230-2,5-22,23 D 427 GAS2
250	2.5	1.5	22.23	S2	no	D 427	1	68425037	D1A1RSS 250-2,5-22,23 D 427 GAS2
300	2.5	1.5	30	S2	no	D 427	1	68430037	D1A1RSS 300-2,5-30,0 D 427 GAS2
350	2.8	1.8	30	S2	no	D 427	1	68435037	D1A1RSS 350-2,8-30,0 D 427 GAS2
400	3.8	2.8	30	S2	no	D 427	1	68440137	D1A1RSS 400-3,8-30,0 D 427 GAS2

Diamond and CBN tools – electroplated bond

Diamond cut-off wheels

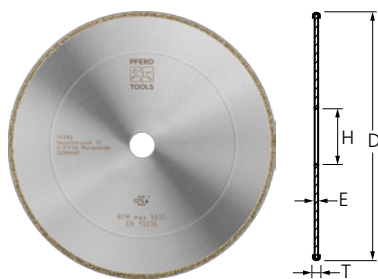


Arbor for diamond cut-off wheels

Accessory for mounting diamond cut-off wheels up to and including a diameter of 75 mm.

S_d [mm]	Suitable for hole diameter [mm]	T_{max} [mm]	Max. RPM [mm]		Item no.	Designation
3	1.7	1	28,000	1	68400317	BO 3/1,7 1
6	10	3	30,000	1	33512040	BO 6/10 3
8	10	3	30,000	1	33513900	BO 8/10 3

Diamond cut-off wheels and grinding points for foundries



Diamond cut-off wheels for grey and nodular cast iron

Electroplated diamond cut-off wheels with grit size D 852 are exceptionally well-suited to machining grey cast iron and nodular cast iron (GG and GGG or GJL and GJS) as well as for use in robots. They have a very long tool life.



Special features:

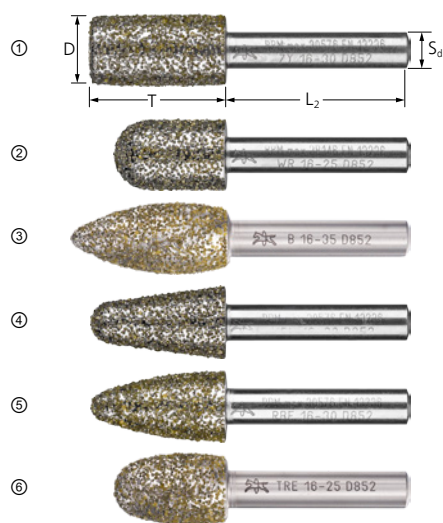
- Ideal for work on deep areas because of the constant tool diameter.
- Easy and quick elimination of metal contamination.
- Minimized dust formation due to the monolayer coating and coarse chips.

D [mm]	T [mm]	E [mm]	H [mm]	Shape	Protective seg. per side	Grit size		Item no.	Designation
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Grey and nodular cast iron (GG and GGG or GJL and GJS)

230	3.8	1.8	22.23	D	no	D 852	1	68423228	D1A1R 230-3,8-22,23 D 852 GAD
400	4.5	2.5	40	D	no	D 852	1	68440037	D1A1R 400-4,5-40,0 D 852 GAD





Diamond grinding points for grey and nodular cast iron

Diamond grinding points with grit size D 852 are exceptionally well-suited to machining grey cast iron and nodular cast iron (GG and GGG or GJL and GJS). They have an outstanding tool life.



- Easy and quick elimination of metal contamination thanks to diamond as a super-hard abrasive.
- Lower dust load due to the dimensional stability of the grinding tool (no tool wear).

Special features:

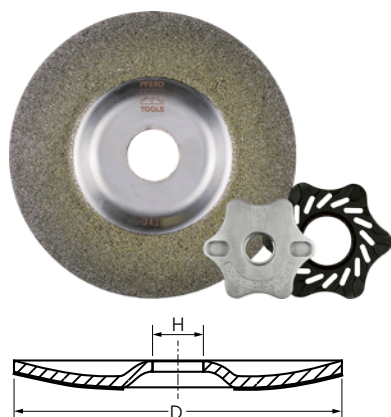
- Fast, aggressive grinding with maximum stock removal rate.

Image	D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	Grit size		Item no.	Designation
Cylindrical shape ZY								
①	16	30	8	40	D 852	1	36015019	DZY-N 16-30/8 D 852
	20	30	8	40	D 852	1	36015020	DZY-N 20-30/8 D 852
	24	30	8	40	D 852	1	36015022	DZY-N 24-30/8 D 852
	45	6.5	8	40	D 852	1	36803965	DZY-N 45-6,5/8 D 852
Cylindrical shape with radius end WR								
②	10	20	6	40	D 852	1	36476061	DWR-N 10-20/6 D 852
	12	25	6	40	D 852	1	36476062	DWR-N 12-25/6 D 852
	16	25	8	40	D 852	1	36476063	DWR-N 16-25/8 D 852
	20	30	8	40	D 852	1	36476068	DWR-N 20-30/8 D 852
	24	30	8	40	D 852	1	36476069	DWR-N 24-30/8 D 852
Flame-shaped B								
③	16	35	8	40	D 852	1	36803966	DB-N 16-35/8 D 852
Conical shape KEL								
④	12	25	6	40	D 852	1	36476071	DKEL-N 12-25/6 D 852
	16	30	8	40	D 852	1	36476064	DKEL-N 16-30/8 D 852
	20	30	8	40	D 852	1	36476070	DKEL-N 20-30/8 D 852
	24	30	8	40	D 852	1	36476072	DKEL-N 24-30/8 D 852
Tree shape with radius end RBF								
⑤	12	25	6	40	D 852	1	36476065	DRBF-N 12-25/6 D 852
	16	30	8	40	D 852	1	36476066	DRBF-N 16-30/8 D 852
	20	30	8	40	D 852	1	36476073	DRBF-N 20-30/8 D 852
Oval shape TRE								
⑥	16	25	8	40	D 852	1	36803967	DTRE-N 16-25/8 D852

Diamond and CBN tools – electroplated bond

Diamond grinding discs CC-GRIND SOLID DIAMOND

**PFERD
TOOLS**



CC-GRIND SOLID DIAMOND

The CC-GRIND SOLID DIAMOND has been specially developed for applications on hard materials which cannot be machined with conventional tools made of aluminium oxide or silicon carbide.

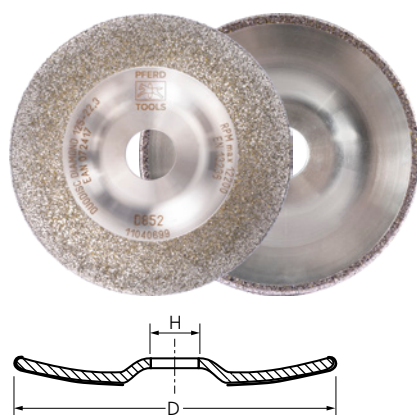


Special features:

- Fast, aggressive grinding with maximum stock removal rate.
- Easy and quick elimination of metal contamination thanks to diamond as a super-hard abrasive.
- Lower dust load due to the dimensional stability of the grinding tool (no tool wear).

D [mm]	H [mm]	Grit size	Max. RPM		Item no.	Designation
Integrated clamping flange set SFS CC-GRIND SOLID/FLEX 115/125 M14						
115	22.23	D 427	13,300	1	36611542	CC-GRIND SOLID DIAMOND 115-22.23 D 427
		D 852	13,300	1	36611585	CC-GRIND SOLID DIAMOND 115-22.23 D 852
125	22.23	D 427	12,200	1	36612542	CC-GRIND SOLID DIAMOND 125-22.23 D 427
		D 852	12,200	1	36612585	CC-GRIND SOLID DIAMOND 125-22.23 D 852

Diamond grinding discs DUODISC DIAMOND



DUODISC DIAMOND

Exceptionally well-suited to machining grey cast iron and nodular cast iron (GG and GGG or GJL and GJS). Ideal for roughing and deburring work in fettling shops. The coating geometry enables small feeders and risers to be separated.

Special features:

- Constant tool diameter.
- Reduced tool change times thanks to long tool life.
- Dust is minimized as the tool does not wear away.

D [mm]	H [mm]	Grit size	Max. RPM		Item no.	Designation
125	22.23	D 852	12,200	1	36803644	DUODISC DIAMOND 125-22.23 D852
150	22.23	D 852	10,200	1	36803860	DUODISC DIAMOND 150-22.23 D852



Diamond and CBN tools – electroplated bond

Diamond sabre saw blades



Diamond sabre saw blades

Diamond sabre saw blades are suitable for work on fibre-reinforced plastics (GRP/CRP). Flexible cutting line for producing a wide range of geometries, plus a long tool life. Suitable for cutting out holes and for cutting.



Total length [mm]	Total width [mm]	Coating length [mm]	Grit size		Item no.	Designation
75	2	50	D 357	1	15600571	DIA-SSB 50/75 D 357
100	2	75	D 357	1	15600791	DIA-SSB 75/100 D 357



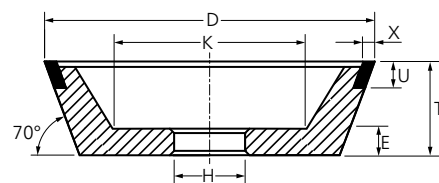
Diamond and CBN tools – resinoid bond

Customer-specific tool solutions



In addition to the standard resinoid-bonded diamond and CBN grinding tools available from stock, customer-specific tool solutions are also possible. In your request, please specify the material to be worked, the application and the tool drive.

In the following tables, all the available shapes and dimensions are shown. For dimensions separated by slashes, please select the desired dimension.

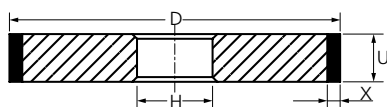


Explanation of the abbreviations

α	= Mount angle
D [mm]	= Outer diameter
E [mm]	= Bottom thickness
H [mm]	= Bore diameter
J [mm]	= Smaller diameter
K [mm]	= Internal diameter
L ₂ [mm]	= Shank length
L ₄ [mm]	= Reduced diameter length
R [mm]	= Radius
S ₁ [mm]	= Reduced diameter
S _a [mm]	= Shank diameter
T [mm]	= Total width
U [mm]	= Coating width
W [mm]	= Mounted point width
X [mm]	= Usable abrasive coating thickness



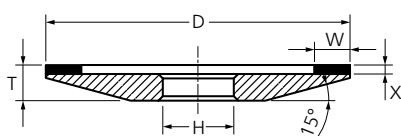
Shape 1A1



D [mm]	U [mm]	X [mm]	H [mm]
50	4 / 6 / 8 / 10 / 12	3 / 4 / 5 / 6	Please specify
75	6 / 8 / 10 / 12	3 / 4 / 5 / 6	
100	6 / 8 / 10 / 12	3 / 4 / 5 / 6	
125	8 / 10 / 12 / 15	3 / 4 / 5 / 6	
150	8 / 10 / 12 / 15 / 20	3 / 4 / 5 / 6	
175	10 / 12 / 15 / 20	3 / 4 / 5	
200	12 / 15 / 20 / 25 / 30	3 / 4 / 5 / 6	
225	12 / 15 / 20	3 / 4 / 5	
250	15 / 20 / 25 / 30 / 40 / 50	3 / 4 / 5	
300	15 / 20 / 25 / 30 / 40 / 50	3 / 4 / 5 / 6	
350	20 / 25 / 30 / 40 / 50	3 / 4 / 5 / 6	
400	25 / 30 / 40 / 50	3 / 4 / 5 / 6	
450	25 / 30 / 40 / 50	3 / 4 / 5 / 6	
500	30 / 40 / 50	3 / 4 / 5 / 6	
600	35 / 40	3 / 5	

Ordering example: 1A1 200-20-4-127 D 126 PHN C 75

Shape 4A2

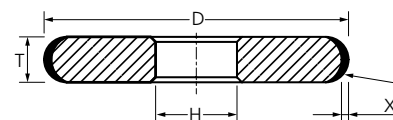


D [mm]	W [mm]	X [mm]	H [mm]	T - X [mm]
50	3 / 5	2 / 3 / 4	Please specify	5
75	3 / 5			5
100	3 / 4 / 5 / 6 / 8 / 10			6
125	3 / 4 / 5 / 6 / 8 / 10			7
150	3 / 4 / 5 / 6 / 8 / 10 / 12.5			9

Ordering example: 4A2 100-4-2-20 D 64 PHT C 50

Other dimensions on request!

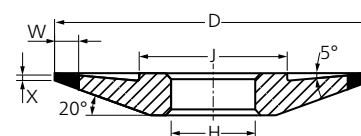
Shape 1FF1



D [mm]	T [mm]	X [mm]	R [mm]	H [mm]
50	6	2	3	Please specify
	8		4	
	10		5	
75	6		3	
	8		4	
	10		5	
100	6		3	
	8		4	
	10		5	
125	6		3	
	8		4	
	10		5	
150	6		3	
	8		4	
	10		5	
	12		6	

Ordering example: 1FF1 150-8/4R-2-32 D 126 PHN C 75

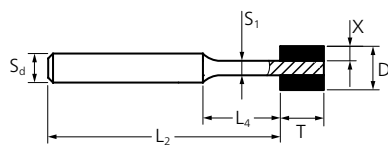
Shape 4BT9



D [mm]	W [mm]	X [mm]	H [mm]	T [mm]	J [mm]
75	6	1	Please specify	8	36
100	6 / 10	1		10	50
125	6 / 10	1		12	65
150	6 / 10	1		15	80

Ordering example: 4BT9 100-6-1-20 D 126 PHN C 75

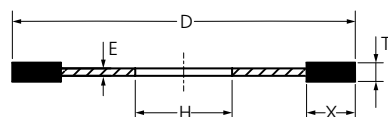
Shape 1A1W



D [mm]	T [mm]	X [mm]	S _d [mm]	L ₂ [mm]	S ₁ [mm]	L ₄ [mm]
3	6	0.75	3	60	1.5	8
4	6	1	3	60	2	8
5	6	1.5	3	60	2	8
6	6	1.5	6	60	3	8
6	8	1.5	6	60	3	10
7	6	2	6	60	3	8
8	6	2	6	60	4	8
8	10	2	6	60	4	12
9	6	2	6	60	5	8

Ordering example: 1A1W 8-6-2-6-60-4-8 D 91 PHNT C 100

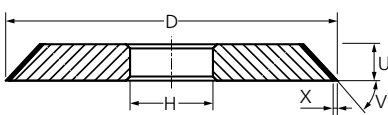
Shape 1A1R



D [mm]	T [mm]	X [mm]	H [mm]	E [mm]
75	1	5	H ≥ 20 mm	0,8
100	1	5	Please specify	0,8
125	1	5		0,8
150	1	7		0,8
175	1.2	7		0,9
200	1.2	7		0,9

Ordering example: 1A1R 150-1-7-20 D 151 PHT C 75

Shape 1V1

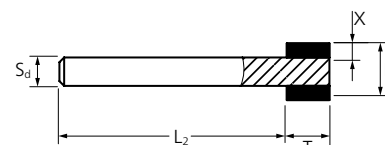


D [mm]	U [mm]	X [mm]	V	H [mm]
50	6 / 8	3 / 4	20° to 89°	Please specify
75	6 / 8 / 10			
100	8 / 10			
125	8 / 10			
150	8 / 10			
175	10	Please specify	Please specify	Please specify
200	12 / 15			
250	15 / 20			
300	15 / 20			

Ordering example: 1V1 150-8-3/60°-32 B 126 PHN C 75

Other dimensions on request!

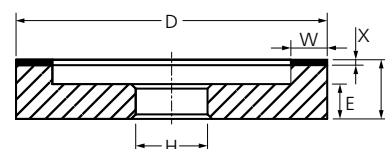
Shape 1A1W



D [mm]	T [mm]	X [mm]	S _d [mm]	L ₂ [mm]
10	6	2	6	60
	10	2	6	60
12	6	2	6	60
	10	2	6	60
15	6	2	6	60
	10	2	6	60
18	6	2	6	60
	10	2	6	60
20	6	2	6	60
	10	2	6	60

Ordering example: 1A1W 15-10-2-6-60 D 91 PHNT C 100

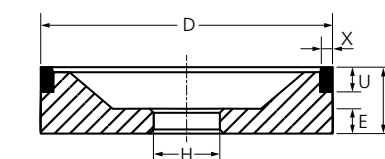
Shape 6A2



D [mm]	W [mm]	X [mm]	H [mm]	T - X [mm]	E [mm]
50	3 / 5	2 / 3 / 4	Please specify	20	10
75	3 / 5 / 10			20	10
100	5 / 8 / 10 / 12.5 / 15			20	10
125	4 / 6 / 8 / 10 / 12.5 / 15 / 20 / 25			23	10
150	6 / 8 / 10 / 12.5 / 15 / 20 / 25			23	10

Ordering example: 6A2 125-10-2-20 D 126 PHT C 50

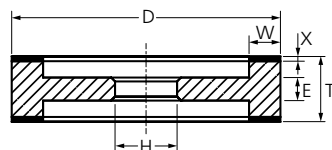
Shape 6A9



D [mm]	X [mm]	U [mm]	H [mm]	T [mm]	E [mm]
75	1.5	6 / 10	Please specify	25	10
	2	6 / 10		25	10
	3	6 / 10		25	10
100	1.5	6 / 10	Please specify	30	10
	2	6 / 10		30	10
	3	6 / 10		30	10
125	1.5	6 / 10	Please specify	30	10
	2	6 / 10		30	10
	3	6 / 10		30	10
150	1.5	6 / 10	Please specify	35	10
	2	6 / 10		35	10
	3	6 / 10		35	10

Ordering example: 6A9 100-2-10-20 D 126 PHN C 100

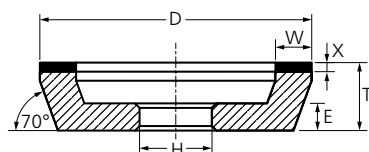
Shape 9A3



D [mm]	W [mm]	X [mm]	T [mm]	H [mm]	E [mm]
100	6 / 8 / 10	2 / 3	22	Please specify	10
125	6 / 8 / 10		22		10
150	4 / 6 / 8 / 10 / 15		25 / 35		14
175	3 / 4 / 6 / 8 / 10 / 15		25 / 35		14
200	8 / 10 / 15		30		18

Ordering example: 9A3 150-8-2-25-20 D 64 PHN C 75

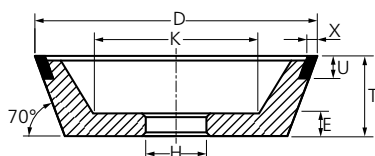
Shape 11A2



D [mm]	W [mm]	X [mm]	H [mm]	T - X [mm]	E [mm]
50	3 / 6	2 / 3 / 4	Please specify	20	8
75	3 / 6 / 10			20	10
100	4 / 6 / 8 / 10			20	10
125	5 / 6 / 8 / 10 / 12.5 / 15			23	10
150	6 / 8 / 10 / 12.5 / 15			23	10
175	6 / 10 / 12.5 / 15			25	12

Ordering example: 11A2 125-10-2-20 D 126 PHT C 50

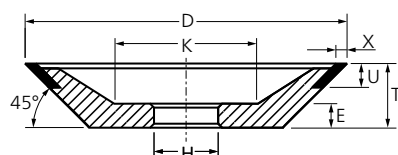
Shape 11V9



D [mm]	X [mm]	U [mm]	H [mm]	T [mm]	E [mm]	K [mm]
50	2	10	Please specify	30	10	22
75	1.5 / 2 / 3	10		30	10	41
100	1.5 / 2 / 3	10		35	10	60
125	1.5 / 2 / 3	10		40	10	75
150	1.5 / 2 / 3	10		50	10	89

Ordering example: 11V9 100-2-10-20 D 126 PHT C 75

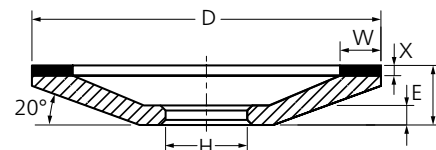
Shape 12V9



D [mm]	X [mm]	U [mm]	H [mm]	T [mm]	E [mm]	K [mm]
50	2	6	Please specify	20	10	24
75	2 / 3	10		20	10	41
100	1.5 / 2 / 3	10		20	10	62
125	1.5 / 2 / 3	10		25	10	76
150	2 / 3	10		25	10	97

Ordering example: 12V9 100-2-10-20 D 126 PHT C 75

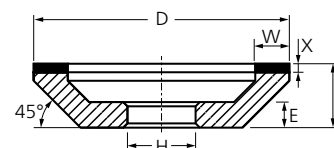
Shape 12A2/20°



D [mm]	W [mm]	X [mm]	H [mm]	T - X [mm]	E [mm]
75	3 / 5 / 6 / 8 / 10	2 / 3 / 4	Please specify	8	5
100	3 / 5 / 6 / 8 / 10			10	6
125	5 / 6 / 8 / 10			14	8
150	5 / 6 / 8 / 10			16	9
175	6 / 10			18	10
200	6 / 10			20	11
250	6 / 10			23	13

Ordering example: 12A2/20° 125-10-2-20 D 126 PHT C 50

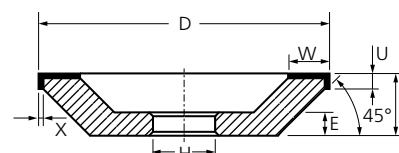
Shape 12A2/45°



D [mm]	W [mm]	X [mm]	H [mm]	T - X [mm]	E [mm]
50	3 / 6	2 / 3 / 4	Please specify	15	8
75	3 / 6 / 10			20	9
100	4 / 6 / 8 / 10			23	10
125	5 / 6 / 8 / 10 / 12.5 / 15			23	10
150	6 / 8 / 10 / 12.5 / 15			23	10
175	6 / 10 / 12.5 / 15			25	12

Ordering example: 12A2/45° 125-10-2-20 D 126 PHT C 50

Shape 12C9

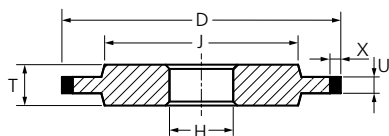


D [mm]	W [mm]	U [mm]	X [mm]	H [mm]	T [mm]	E [mm]
100	6 / 10	4	2	Please specify	26	10
	10	4	3		27	10
125	6 / 10	4	2		26	10
	10	4	3		27	10
	12.5	5	2		26	10
150	10	4	2		26	10
	10	4	3		27	10
	12.5 / 15	5	2		26	10

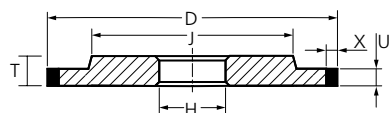
Ordering example: 12C9 100-10-4-2-20 D 64 PHN C 75

Other dimensions on request!

Shape 14A1



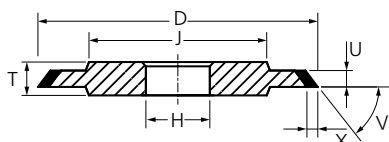
Shape 3A1



D [mm]	U [mm]	X [mm]	H [mm]	T [mm]	J [mm]
75	1 / 2	3 / 6	Please specify	6	50
	3 / 4 / 5	3 / 4 / 6		6	50
100	1 / 2	3 / 6		6	80
	3 / 4 / 5	3 / 4 / 6		6	70
125	1 / 2	3 / 6		7	105
	3 / 4 / 5 / 6	3 / 4 / 6		7	100
150	1 / 2	3 / 6		8	130
	3 / 4 / 5 / 6	3 / 4 / 6		8	120
175	1 / 2	3 / 6		10	150
	3 / 4 / 5 / 6 / 8	3 / 4 / 6		10	140
200	1 / 2	6		12	175
	3 / 4 / 5 / 6 / 8 / 10	3 / 4 / 5 / 6		12	160
225	6 / 8 / 10	3 / 4 / 5		12	180
250	6 / 8 / 10 / 12	3 / 4 / 5		15	200
300	8 / 10 / 12	3 / 4 / 5 / 6		15	250
350	10 / 12 / 15	3 / 4 / 5 / 6		20	300
400	10 / 12 / 15 / 20	3 / 4 / 5 / 6		25	350
450	10 / 12 / 15 / 20	3 / 4 / 5 / 6		25	400
500	15 / 20 / 25	3 / 4 / 5 / 6		30	450
600	15 / 20 / 25 / 30	3 / 5		35	550

Ordering example: 14A1 150-6-3-32 D 107 PHN C 100

Shape 14V1

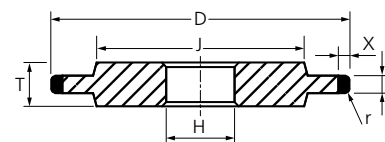


D [mm]	U [mm]	X [mm]	V	C [mm]	T [mm]	J [mm]
50	3 / 4 / 5	2 / 3 / 4	20° to 89°	Please specify	6	30
75	3 / 4 / 5				6	45
100	4 / 6		Please specify		8	70
125	4 / 6				8	100
150	4 / 6				8	120
175	4 / 6 / 8				10	140
200	4 / 6 / 8 / 10				12	160
250	4 / 6 / 8 / 10 / 12				15	200
300	4 / 6 / 8 / 10 / 12				15	250

Ordering example: 14V1 150-6-3/60°-32 B 126 PHN C 75

Other dimensions on request!

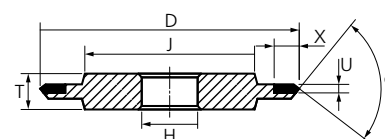
Shape 14F1



D [mm]	U [mm]	X [mm]	R [mm]	H [mm]	T [mm]	J [mm]
40	2	3 / 4 / 5 / 6	1	Please specify	6	25
	3		1.5		6	25
	4		2		6	25
50	2		1		6	30
	3		1.5		6	30
	4		2		6	30
75	2		1		6	50
	3		1.5		6	50
	4		2		6	50
100	2		1		6	70
	3		1.5		6	70
	4		2		6	70
125	2		1		8	100
	3		1.5		8	100
	4		2		8	100
150	2		1		8	120
	3		1.5		8	120
	4		2		8	120

Ordering example: 14F1 150-2/1R-6-32 D 107 PHN C 125

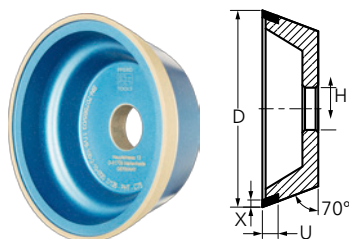
Shape 14E9



D [mm]	U [mm]	X [mm]	α	H [mm]	T [mm]	J [mm]
50	1 / 2	6	35° / 45° / 60° / 90°	Please specify	6	32
75	1 / 2	6	35° / 45° / 60° / 90°		6	50
100	1 / 2	6	35° / 45° / 60° / 90°		6	70
125	1 / 2	6	35° / 45° / 60° / 90°		8	100
150	1 / 2	6	35° / 45° / 60° / 90°		8	120

Ordering example: 14E9 150-2-6-60°-32 D 107 PHN C 125





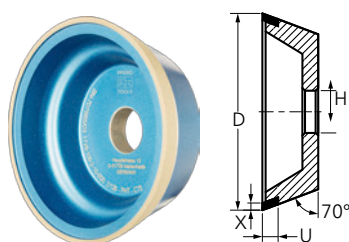
Shape 11V9, bond PHT

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:

- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
11V9	100	2	10	20	PHT	D 126	1	68611021	11V9 100-2-10-20 D 126 PHT C75



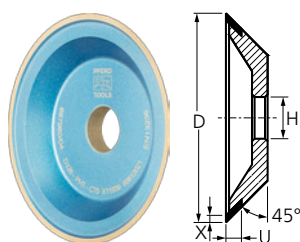
Shape 11V9, bond PHST

Phenolic resin bond for dry grinding. The PHT bond allows cool grinding, even without coolant. The PHST bond can withstand higher loads, i.e. it allows a higher infeed per stroke, but has a slightly shorter grinding time and tool life.

Special features:

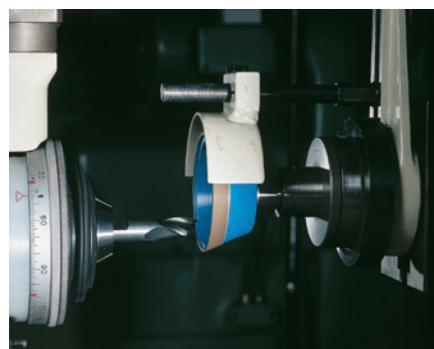
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
11V9	100	3	10	20	PHST	D 126	1	68611032	11V9 100-3-10-20 D 126 PHST C75



Shape 12V9

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.



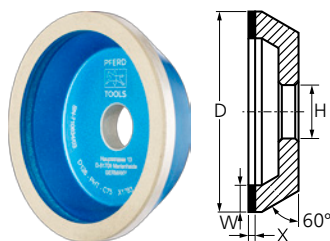
Special features:

- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
12V9	100	2	10	20	PHT	D 126	1	68612021	12V9 100-2-10-20 D 126 PHT C75

Diamond and CBN tools – resinoid bond

Diamond grinding tools



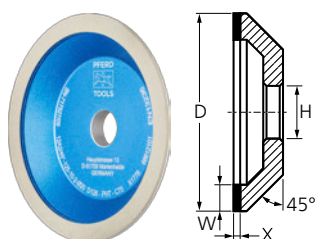
Shape 11A2/60°

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:

- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	W [mm]	X [mm]	H [mm]	Bond	Grit size		Item no.	Designation
11A2/60°	100	8	2	20	PHT	D 126	1	68613081	11A2/60° 100-8-2-20 D 126 PHT C75
						D 64	1	68613086	11A2/60° 100-8-2-20 D 64 PHT C75



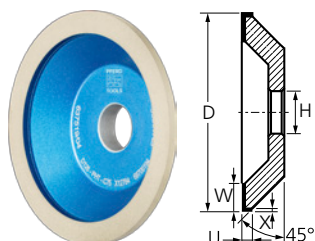
Shape 12A2/45°

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:

- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	W [mm]	X [mm]	H [mm]	Bond	Grit size		Item no.	Designation
12A2/45°	125	10	2	20	PHT	D 126	1	68612101	12A2/45° 125-10-2-20 D 126 PHT C75
						D 64	1	68612106	12A2/45° 125-10-2-20 D 64 PHT C50



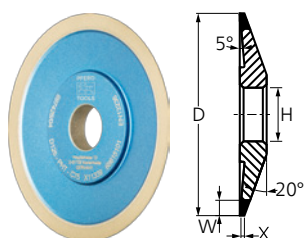
Shape 12C9

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:

- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	W [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
12C9	100	10	3	4	20	PHT	D 126	1	68612023	12C9 100-10-4-3-20 D 126 PHT C75



Shape 4BT9

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:

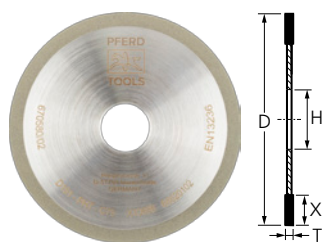
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	W [mm]	X [mm]	H [mm]	Bond	Grit size		Item no.	Designation
4BT9	100	6	1	20	PHT	D 126	1	68615101	4BT9 100-6-1-20 D 126 PHT C75



Diamond and CBN tools – resinoid bond

Diamond grinding tools



Shape 1A1R

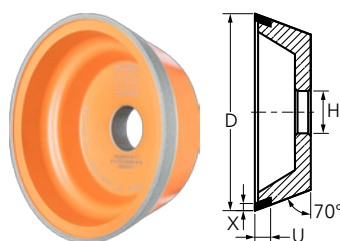
Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:

- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	T [mm]	X [mm]	H [mm]	Bond	Grit size		Item no.	Designation
1A1R	100	1	5	20	PHT	D 151	1	68620102	1A1R 100-1-5-20 D 151 PHT C75
	150	1	7	20	PHT	D 151	1	68620152	1A1R 150-1-7-20 D 151 PHT C75

CBN grinding tools



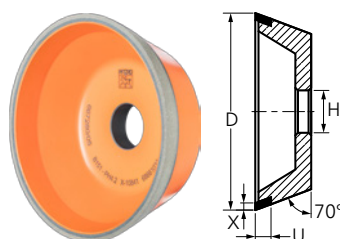
Shape 11V9

PH 4.1 is a phenolic resin bond for maximum stock removal rates. Very long tool life and suitable for dry and wet grinding. Only for 11V9 and 12V9 up to dia. 150 mm.

Special features:

- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
11V9	100	2	10	20	PH 4.1	B 126	1	68664101	11V9 100-2-10-20 B 126 PH 4.1 C75



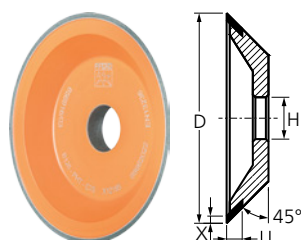
Shape 11V9, bond PH 4.2

The PH 4.2 bond is a high-performance bond for cool dry grinding at low infeed rates. Only for 11V9 and 12V9 up to dia. 150 mm.

Special features:

- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
11V9	100	2	10	20	PH 4.2	B 151	1	68661032	11V9 100-2-10-20 B 151 PH 4.2



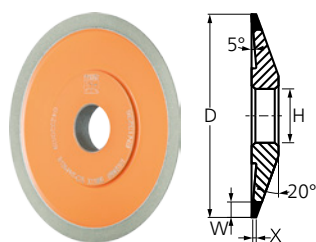
Shape 12V9

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:

- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
12V9	100	2	10	20	PHT	B 126	1	68662022	12V9 100-2-10-20 B 126 PHT C75



Shape 4BT9

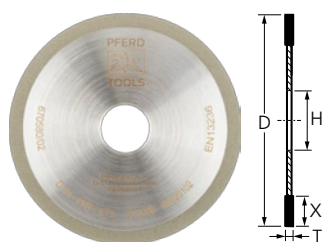
Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.



Special features:

- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	W [mm]	X [mm]	H [mm]	Bond	Grit size		Item no.	Designation
4BT9	100	6	1	20	PHT	B 126	1	68665101	4BT9 100-6-1-20 B 126 PHT C75



Shape 1A1R

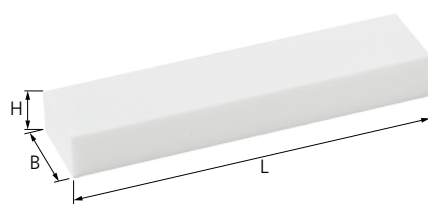
Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:

- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	T [mm]	X [mm]	H [mm]	Bond	Grit size		Item no.	Designation
1A1R	100	1	5	20	PHT	B 151	1	68670102	1A1R 100-1-5-20 B 151 PHT C100

Sharpening block for diamond and CBN tools



Sharpening block

Used to restore the sharpness of resinoid-bonded diamond and CBN grinding discs. The sharpening block is first soaked in coolant and then fed in. The grinding process restores the sharpness very quickly.

L [mm]	B [mm]	H [mm]		Item no.	Designation
100	24	13	5	68402413	SBL 1002413

Diamond tools for the construction industry

General information

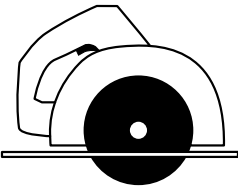


In the demanding world of the construction industry, precision, efficiency and durability are crucial. When it comes to working on hard materials such as concrete, asphalt, granite or tiles, conventional tools will quickly reach their limits. This is where PFERD TOOLS diamond tools come in – the ideal solution for demanding projects. PFERD TOOLS diamond tools achieve clean, precise cuts and perfect surface results – even in the most difficult of applications.

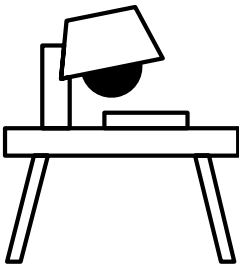
The extensive range of diamond tools for the construction industry comprises cut-off wheels along with dry drill bits and grinding discs in various types, tailored to the application and/or the material to be processed. You can rely on the tried-and-tested PFERD TOOLS quality to make your construction projects safer, more efficient and more successful.



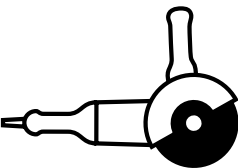
Suitable tool drives



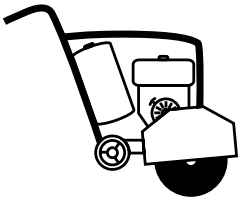
Manual circular saw



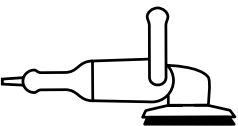
Circular bench saw



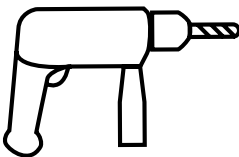
Angle grinder



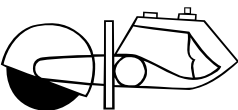
Joint cutter



Concrete grinder



Power drill



Petrol cutter

5



Diamond tools for the construction industry

General information



Safety notes

- Observe any usage restrictions, warnings and safety notes:



Wear eye protection!



Wear hearing protection!



Wear a dust mask!



Wear gloves!



Follow the safety instructions!



Not permitted for face grinding!



Do not use if damaged!



Organization for the Safety of Abrasives (oSa)

Together with other renowned manufacturers, PFERD TOOLS has voluntarily undertaken to produce quality tools conforming to the most exacting safety standards. Member companies of oSa (the Organization for the Safety of Abrasives) are committed to continuous product safety and quality monitoring. Products from PFERD TOOLS carry the oSa mark. Scan the QR code for further information.



Safety standard:

- PFERD TOOLS diamond tools conform to the highest safety requirements in accordance with EN 13236 "Safety requirements for superabrasive products".

POS packaging

PFERD TOOLS offers diamond tools for the construction industry in promotional individual packaging. The addition of "POS" in the designation indicates all diamond tools in POS packaging.

Advantages:

- Functional European standard hole mounting for optimum product presentation on the sales wall.
- Product is easily recognizable through the viewing window.



Diamond cut-off wheels for the construction industry

PFERD TOOLS diamond cut-off wheels are manufactured in compliance with the highest quality and safety standards. They guarantee optimum cutting results and allow efficient processing of different materials, e.g. concrete, exposed aggregate concrete, clinker brick, hard stone, granite and other abrasive building materials. The product range offers the best tool for any application.



Explanation of item designation

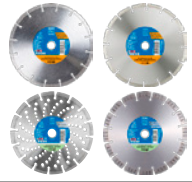
- ① **Description and shape of the tool:** (see figures on right)
- ② **Outer diameter:** Outer dia. D in [mm]
- ③ **Wheel thickness:** Wheel thickness T in [mm]
- ④ **Bore diameter:** Bore dia. H in [mm]
- ⑤ **PFERD TOOLS product line:** Universal Line PSF

DS 230 x 2,8 x 22,3 PSF

① ② ③ ④ ⑤

The PFERD TOOLS item designation corresponds to the designation in accordance with EN 13236.

The quick way to find the perfect tool

Application	Material	Tools	
Aggressive, fast cutting	- Concrete (medium-hard, reinforced, hard) - Aerated concrete - Pumice - Brick - Soft clinker brick - Sand-lime brick	Cut-off wheels of the type DS - Start Line START - Universal Line PSF - Performance Line SG - Special Line SGP	
	Asphalt	Cut-off wheels of the type DS AS Performance Line SG	
Easy cutting with high cutting quality	- Fresh concrete - Screed - Firebrick	Cut-off wheels of the type DG Performance Line SG	
	- Sandstone - Clay brick - Slate - Granite - Marble	Cut-off wheels of the type DG - Start Line START - Universal Line PSF - Performance Line SG	
Cutting without edge breakage	- Glazed tiles - Ceramic tiles - Porcelain stoneware - Slate - Marble	Cut-off wheels of the type DG FL - Universal Line PSF - Performance Line SG	

Shapes

PFERD TOOLS diamond cut-off wheels are available in four types tailored to different materials to ensure the best results each time.



Shape DS
■ Segmented type for fast cutting



Shape DG
■ Type with continuous rim for easy cutting (TURBO)



Shape DS AS
■ Segmented type for fast cutting of asphalt



Shape DG FL
■ Type with continuous rim for very fine cutting, e.g. tiles and glazed tiles

Diamond tools for the construction industry

Segmented diamond cut-off wheels for fast cutting



DS START type

General-purpose segmented-rim tool for aggressive, fast cutting with high cutting performance and a good tool life.

Special features:

- High diamond qualities.
- Good cutting characteristics and short cutting times.
- Good ease of cutting and high economic efficiency.

D [mm]	T [mm]	H [mm]	H _R [mm]	X [mm]	Max. RPM		Item no.	Designation
100	1.6	20	16	7	15,300	1	68300037	DS 100x1.6x16/20 START
110	1.6	20	-	7	13,800	1	68300052	DS 110x1.6x20 START
115	1.6	22.23	-	7	13,300	1	68300044	DS 115x1.6x22.23 START
125	1.6	22.23	-	7	12,200	1	68300045	DS 125x1.6x22.23 START
178	2	22.23	-	7	8,600	1	68300038	DS 178x2.0x22.23 START
230	2.3	22.23	-	7	6,600	1	68300039	DS 230x2.3x22.23 START
300	2.8	25.4	20	8	6,400	1	68300053	DS 300x2.8x20/25.4 START
350	3.2	25.4	-	8	5,400	1	68300047	DS 350x3.2x25.4 START
400	3.2	25.4	-	10	4,800	1	68300054	DS 400x3.2x25.4 START
450	3.2	25.4	-	10	4,200	1	68300055	DS 450x3.2x25.4 START



DS PSF type

General-purpose segmented-edge tool for aggressive, fast cutting with high cutting performance and an ideal tool life. With laser-welded segments.

Special features:

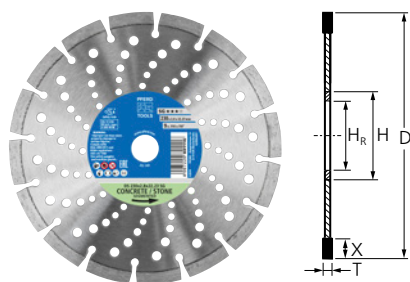
- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
115	2.2	22.23	10	13,300	1	68011221	DS 115 x 2,2 x 22,23 PSF
125	2.2	22.23	10	12,200	1	68012221	DS 125 x 2,2 x 22,23 PSF
150	2.2	22.23	10	10,200	1	68300102	DS 150x2.2x22.23 PSF
178	2.4	22.23	10	8,600	1	68017221	DS 178 x 2,4 x 22,23 PSF
230	2.4	22.23	10	6,600	1	68023223	DS 230 x 2,4 x 22,23 PSF



Diamond tools for the construction industry

Segmented diamond cut-off wheels for fast cutting



DS SG type

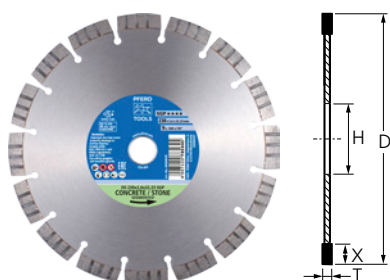
High-performance segmented-edge tool for aggressive, fast cutting of hard materials with very high cutting performance and outstanding tool life. With laser-welded segments.



Special features:

- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	H _R [mm]	X [mm]	Max. RPM		Item no.	Designation
115	2.4	22.23	-	12	13,300	1	68000041	DS 115 x 2,4 x 22,23 SG
125	2.4	22.23	-	12	12,200	1	68000042	DS 125 x 2,4 x 22,23 SG
150	2.4	22.23	-	12	10,200	1	68000059	DS 150x2.2x22.23 SG
178	2.6	22.23	-	12	8,600	1	68000043	DS 178 x 2,6 x 22,23 SG
230	2.8	22.23	-	12	6,600	1	68000044	DS 230 x 2,8 x 22,23 SG
300	2.8	20	-	10	6,400	1	68000045	DS 300 x 2,8 x 20,0 SG
		25.4	20	12	6,400	1	68000046	DS 300 x 2,8 x 25,4 SG
350	2.8	20	-	10	5,400	1	68000047	DS 350 x 2,8 x 20,0 SG
		25.4	20	12	5,400	1	68000048	DS 350 x 2,8 x 25,4 SG
400	3.2	25.4	20	12	4,800	1	68000049	DS 400 x 3,2 x 25,4 SG



DS SGP type

High-performance segmented-edge tool for aggressive, fast cutting of hard materials with ultimate cutting performance and outstanding tool life. With laser-welded segments.

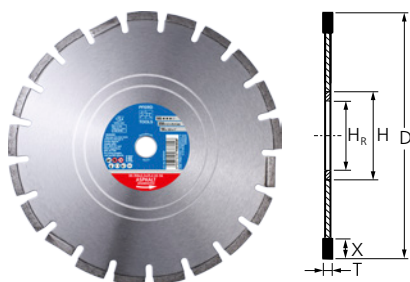
Special features:

- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
115	2.2	22.23	12	13,300	1	68000036	DS 115 x 2.2 x 22.23 SGP
125	2.2	22.23	12	12,200	1	68000037	DS 125 x 2.2 x 22.23 SGP
178	2.4	22.23	12	8,500	1	68000038	DS 178 x 2.4 x 22.23 SGP
230	2.6	22.23	12	6,600	1	68000039	DS 230 x 2.4 x 22.23 SGP
300	2.8	25.4	12	6,400	1	68000040	DS 300 x 3 x 25.4 SGP
350	3.2	25.4	12	5,500	1	68000056	DS 350 x 3 x 25.4 SGP
400	3.2	25.4	12	4,800	1	68000057	DS 400 x 3.5 x 25.4 SGP

Diamond tools for the construction industry

Segmented diamond cut-off wheels for fast cutting



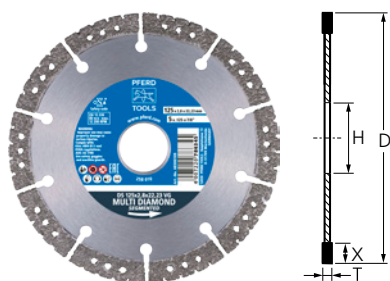
DS AS SG type

High-performance segmented-edge tool for aggressive, fast cutting of asphalt with very high cutting performance and outstanding tool life.

Special features:

- High diamond qualities.
- Good cutting characteristics and short cutting times.
- Good ease of cutting and high economic efficiency.

D [mm]	T [mm]	H [mm]	H _R [mm]	X [mm]	Max. RPM		Item no.	Designation
300	2.8	25.4	20	10	6,400	1	68300104	DS 300 x 2.8 x 25.4 AS SG
350	3.2	25.4	-	10	5,400	1	68300105	DS 350 x 3.2 x 25.4 AS SG
400	3.2	25.4	-	10	4,800	1	68300106	DS 400 x 3.6 x 25.4 AS SG
450	3.6	25.4	-	10	4,200	1	68300107	DS 450 x 3.6 x 25.4 AS SG



DS type, vacuum-brazed

Segmented, vacuum-brazed diamond cut-off wheels are exceptionally well suited to general machining work on a wide range of materials. The vacuum brazing process ensures that the diamond coating adheres firmly to the main body. This optimizes the cutting performance and service life.

Special features:

- Constant cutting speed due to consistent tool diameter.
- Long service life thanks to vacuum brazing process.
- Minimized dust formation due to the monolayer coating and coarse chips.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
115	2.8	22.23	10	13,300	1	68300108	DS 115x2,8x22,23 VG
125	2.8	22.23	10	12,200	1	68300109	DS 125x2,8x22,23 VG
180	3.1	22.23	10	8,500	1	68300110	DS 180x3,1x22,23 VG
230	3.1	22.23	10	6,600	1	68300111	DS 230x3,1x22,23 VG



Diamond cut-off wheel set

The set comprises one each of cut-off wheels types DS, DG and DG FL with a diameter of 115 mm.

Special features:

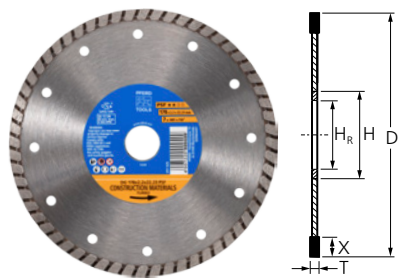
- High diamond qualities.
- Good cutting characteristics and short cutting times.
- Good ease of cutting and high economic efficiency.

D [mm]	H [mm]		Item no.	Designation
115	22.23	1	68300062	SET 115x1.6/1.9x22.23 START



Diamond tools for the construction industry

Diamond cut-off wheels with continuous edge for easy cutting (TURBO)



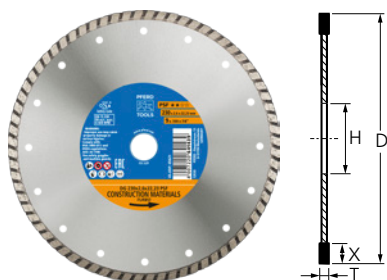
DG START type

General-purpose continuous-rim tool for easy cutting (TURBO) with high cutting performance and a good tool life.

Special features:

- High diamond qualities.
- Good cutting characteristics and short cutting times.
- Good ease of cutting and high economic efficiency.

D [mm]	T [mm]	H [mm]	H _R [mm]	X [mm]	Max. RPM		Item no.	Designation
100	1.9	20	16	7	15,300	1	68300036	DG 100x1.9x16/20 START
110	2.2	20	-	7	13,800	1	68300056	DG 110x2.2x20 START
115	1.9	22.23	-	7	13,300	1	68300042	DG 115x1.9x22.23 START
125	1.9	22.23	-	7	12,200	1	68300043	DG 125x1.9x22.23 START
178	2.2	22.23	-	7	8,600	1	68300048	DG 178 x 2.2 x 22.23 START
230	2.6	22.23	-	7	6,600	1	68300050	DG 230x2.6x22.23 START



DG PSF type

General-purpose continuous-edge tool for easy cutting (TURBO) with high cutting performance and an ideal tool life.



Special features:

- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
115	2.1	22.23	7	13,300	1	68011222	DG 115 x 2,1 x 22,23 PSF
125	2.1	22.23	7	12,200	1	68012222	DG 125 x 2,1 x 22,23 PSF
178	2.4	22.23	7	8,600	1	68017222	DG 178 x 2,4 x 22,23 PSF
230	2.6	22.23	7	6,600	1	68023222	DG 230 x 2,6 x 22,23 PSF



DG SG type

High-performance continuous-edge tool for easy cutting (TURBO) with very high cutting performance and outstanding tool life.

Special features:

- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
115	2.2	22.23	12	13,300	1	68000021	DG 115 x 2,2 x 22,23 SG
125	2.2	22.23	12	12,200	1	68000022	DG 125 x 2,2 x 22,23 SG
150	2.2	22.23	12	10,200	1	68000058	DG 150x2,2x22,23 SG
178	2.5	22.23	12	8,600	1	68000023	DG 178 x 2,5 x 22,23 SG
230	2.8	22.23	12	6,600	1	68000024	DG 230 x 2,8 x 22,23 SG

Diamond tools for the construction industry

Diamond cut-off wheels with continuous edge for very fine cutting



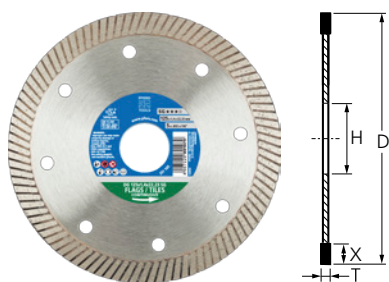
DG FL PSF type

General-purpose continuous-edge tool for cutting without edge breakages on workpieces with high-quality surfaces. High cutting performance and ideal tool life.

Special features:

- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	H _R [mm]	X [mm]	Max. RPM		Item no.	Designation
100	1.6	20	16	7	15,300	1	68300035	DG 100 x 1,6 x 16/20 FL PSF
110	1.6	20	-	7	13,800	1	68300057	DG 110 x 1,6 x 20 FL PSF
178	2.2	22.23	-	7	8,500	1	68300049	DG 178 x 2,2 x 22,23 FL PSF
76	1.3	10	-	7	11,000	1	68000025	DG 76x1.6x10 FL PSF
115	1.6	22.23	-	7	13,300	1	68000011	DG 115 x 1,6 x 22,23 FL PSF
125	1.6	22.23	-	7	12,200	1	68000012	DG 125 x 1,6 x 22,23 FL PSF
150	2.2	22.23	-	7	10,200	1	68000026	DG 150x2.2x22.23 FL PSF
230	2.2	22.23	-	7	6,600	1	68300051	DG 230 x 2,2 x 22,23 FL PSF (ZA)



DG FL SG type

High-performance continuous-edge tool for cutting without edge breakages on workpieces with high-quality surfaces. Very high cutting performance and outstanding tool life.



Special features:

- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
115	1.4	22.23	10	13,300	1	68000031	DG 115 x 1,4 x 22,23 FL SG
125	1.4	22.23	10	12,200	1	68000032	DG 125 x 1,4 x 22,23 FL SG
150	1.6	22.23	10	10,200	1	68000027	DG 150x1.6x22.23 FL SG
178	2	22.23	10	8,500	1	68000028	DG 178x2.0x22.23 FL SG
200	2	25.4	10	7,650	1	68000030	DG 200x2.0x25.4 FL SG
230	2	22.23	10	6,600	1	68000029	DG 230x2.0x22.23 FL SG
250	2	25.4	10	6,100	1	68000033	DG 250x2.0x25.4 FL SG
300	2.4	25.4	10	6,400	1	68000034	DG 300x2.4x25.4 FL SG
350	2.4	25.4	10	5,500	1	68000035	DG 350x2.4x25.4 FL SG





Sharpening block DSB

The sharpening block is used to resharpen metal-bonded diamond cut-off wheels (e.g. after cutting lubricating materials).

L [mm]	B [mm]	H [mm]	Grit size		Item no.	Designation
200	50	25	80	1	68075025	DSB 2005025

Grinding discs



Diamond grinding disc

Diamond grinding discs are efficient tools for smoothing uneven surfaces, e.g. removing tile adhesive and grinding concrete in preparation for tiling. They are also used for chamfering and edge breaking on stone.



Special features:

- High diamond qualities.
- Excellent cutting characteristics and short grinding times.
- Very long tool life and high economic efficiency.

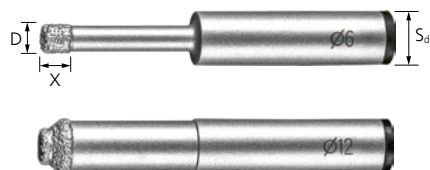
D [mm]	H [mm]	X [mm]	Diam. arbor hole with adapter [mm]	Number, rows	Max. RPM		Item no.	Designation
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Single row

100	22.23	6	16	1	15,280	1	68300063	DCW 1R 100x6x16/22.23
115	22.23	6	-	1	13,300	1	68300064	DCW 1R 115x6x22.23
125	22.23	6	-	1	12,200	1	68300065	DCW 1R 125x6x22.23

Two rows

100	22.23	6	16	2	15,280	1	68300066	DCW 2R 100x6x16/22.23
115	22.23	6	-	2	13,300	1	68300067	DCW 2R 115x6x22.23
125	22.23	6	-	2	12,200	1	68300068	DCW 2R 125x6x22.23



Dry diamond drill bit DPD for power drills

Vacuum-brazed dry diamond drill bits for power drills are ideal for drilling holes into tiles and glazed tiles. The wax filling provides a self-cooling effect.



Special features:

- Self-cooling effect thanks to wax filling in the drill bit.
- Convenient working and high cutting quality – no edge breakage on workpieces with high-quality surfaces.
- Very secure hold and no slipping in the drill chuck thanks to the hexagonal shank.

D [mm]	Max. workpiece thickness [mm]	X [mm]	Hex-D _s [mm]		Item no.	Designation
5	32	10	8	1	68300112	DPD 5 FL HEX
6	32	10	8	1	68300113	DPD 6 FL HEX
8	32	10	8	1	68300114	DPD 8 FL HEX
10	38	10	8	1	68300115	DPD 10 FL HEX
12	38	10	8	1	68300116	DPD 12 FL HEX



Dry diamond drill bit DPD for angle grinders

Vacuum-brazed dry diamond drill bits for angle grinders are ideal for drilling holes into tiles and glazed tiles. The wax filling provides a self-cooling effect.

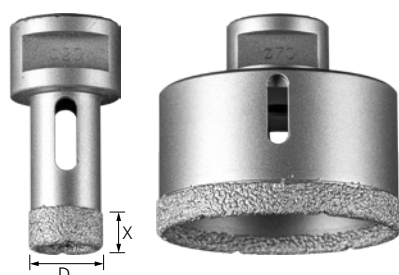
Special features:

- Self-cooling effect thanks to wax filling in the drill bit.
- Suitable for all common angle grinders with M14 thread.
- Convenient working and high cutting quality – no edge breakage on workpieces with high-quality surfaces.

D [mm]	Max. workpiece thickness [mm]	X [mm]		Item no.	Designation
5	35	10	1	68300117	DPD 5 FL M14
6	35	10	1	68300118	DPD 6 FL M14
8	35	10	1	68300119	DPD 8 FL M14
10	35	10	1	68300120	DPD 10 FL M14
12	35	10	1	68300121	DPD 12 FL M14

Diamond tools for the construction industry

Diamond for the construction industry Performance Line PSF



Dry diamond drill bit DCD for angle grinders

Vacuum-brazed dry diamond drill bits DCD are suitable for drilling holes and round recesses in tiles and glazed tiles for water connections, sockets and light switches, for example. With M14 thread for use on 115/125 mm angle grinders.



Special features:

- Very long tool life.
- Convenient working and high cutting quality – no edge breakage on workpieces with high-quality surfaces.
- Special coating design protects the drill bit and workpiece from overheating.

D [mm]	Max. work-piece thickness [mm]	X [mm]	Thread	Max. RPM		Item no.	Designation
20	40	12	M14	13,300	1	68300122	DCD 20XM14 FL
22	40	12	M14	13,300	1	68300123	DCD 22XM14 FL
25	40	12	M14	13,300	1	68300124	DCD 25XM14 FL
27	40	12	M14	13,300	1	68300125	DCD 27XM14 FL
30	40	12	M14	13,300	1	68300126	DCD 30XM14 FL
32	40	12	M14	13,300	1	68300127	DCD 32XM14 FL
35	40	12	M14	13,300	1	68300128	DCD 35XM14 FL
38	40	12	M14	13,300	1	68300129	DCD 38XM14 FL
40	40	12	M14	13,300	1	68300130	DCD 40XM14 FL
45	40	12	M14	13,300	1	68300131	DCD 45XM14 FL
51	40	12	M14	13,300	1	68300132	DCD 51XM14 FL
55	40	12	M14	13,300	1	68300133	DCD 55XM14 FL
60	40	12	M14	13,300	1	68300134	DCD 60XM14 FL
65	40	12	M14	13,300	1	68300135	DCD 65XM14 FL
68	40	12	M14	13,300	1	68300136	DCD 68XM14 FL
70	40	12	M14	13,300	1	68300137	DCD 70XM14 FL

Drilling aid for dry diamond drill bits DPD



Diamond drilling aid DPD

Mobile drilling aid with suction cup for centring dry diamond drill bits on tiles and other smooth surfaces.



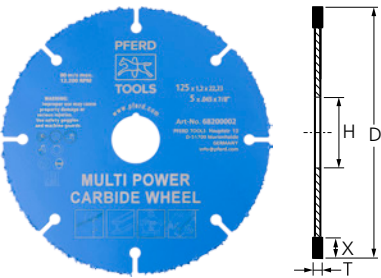
Special features:

- Enables optimal alignment of the tile drill bit.
- Thanks to the holder, drilling tools do not slip.
- Creates precise holes with clean cut edges.

Suitable for		Item no.	Designation
Dry diamond drill bit DPD dia. 5–12 mm	1	68300096	DPD 5-12 mm

Diamond tools for the construction industry

Carbide cut-off wheel for general-purpose cutting



DS Multi Power Carbide type

General-purpose cut-off wheel for effective cutting of many different materials, such as wood with embedded nails, plastics (e.g. pipes), non-ferrous metals and drywall construction materials. The cutting edge made of sharp tungsten carbide grains achieves clean, precise cuts.

- Special features:**
- Ideal choice when changing materials.
 - Optimum cutting speed due to consistent diameter and high ease of cutting.
 - Long service life thanks to special bonding of the tungsten carbide grain with the steel body.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
125	1.2	22.23	2	12,200	1	68200002	POS MULTI POWER CARBIDE WHEEL DS 125X1,2X22,23