

Diamond and CBN tools

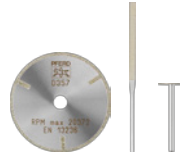
Diamond and CBN tools

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DUODISC® DIAMOND

Excellent for machining grey cast iron and nodular cast iron. 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 product diameter.
- Reduced product change times due to long service life.
- Minimal dust as the product does not wear away.



Customer-specific products made to order

PFERD specializes in the consultation and 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 product solutions for grey and nodular cast iron



Tools for auxiliary spindles

PFERD offers tools for auxiliary spindles in different shapes/geometries and dimensions as well as with different thread sizes.



Cut-off wheels and grinding discs

Diamond cut-off wheels and diamond grinding discs from PFERD can be purchased in diameters of up to 24 inches. Shapes and dimensions (hole, radius, reference circle, etc.) can be produced according to customer requirements.



Grinding points and grinding drums

The range of PFERD products 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.



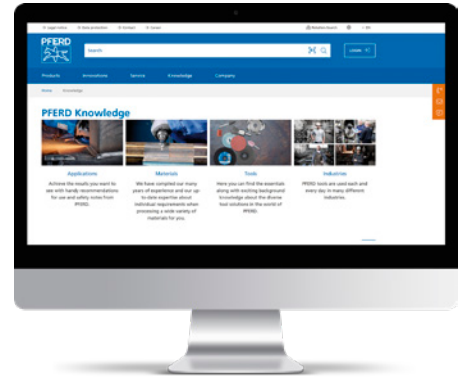
Diamond and CBN tools

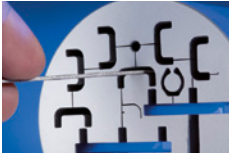













Highlights from the PFERD range



Find additional in-depth information online

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

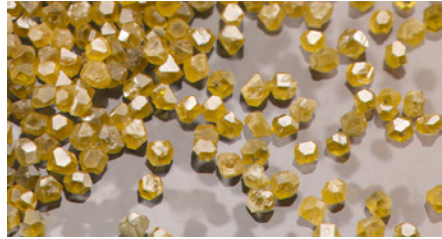


Use	Material	Application	Tools	
Filing 	Hardened steels, tungsten carbide, ceramics, glass, ferrite, nickel-based and titanium-based alloys	Precision filing	Diamond files	
		Machining concave and convex surfaces	Flexible diamond files Diamond sheets	
	Fiber-reinforced plastics (GRP/CRP)	Deburring, chamfering 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	
	Fiber-reinforced plastics (GRP/CRP) Grey and nodular cast iron	Internal grinding of bores	Electroplated diamond grinding points, cylindrical shape W	
		Deburring, chamfering and general grinding work	Diamond grinding disc CC-GRIND® SOLID DIAMOND	
Cutting 	Tungsten carbide, ceramics, glass, ferrite, nickel-based and titanium-based alloys Fiber-reinforced plastics (GRP/CRP)	Cutting	Diamond cut-off wheels, grit size D 64/D 151	
		Cut-off grinding, trimming, making cut-outs, and cutting straight contours to size	Diamond cut-off wheels, grit size D 357/D 427	



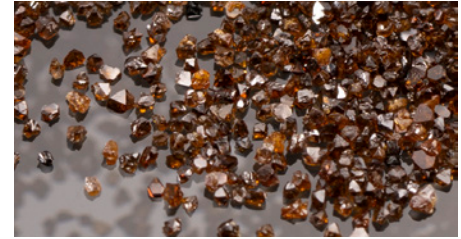
Materials

Diamond and CBN abrasives are used when materials cannot be machined with conventional abrasives such as aluminum 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 fiber 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

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Customer-specific product solutions

1. Process analysis and product 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 product, 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 economical individual tool solution for you. 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 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 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 PFERD tools for yourself!

Safety notes

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



Wear eye protection!



Wear hearing protection!



Wear gloves!



Wear a dust mask!



Follow the safety instructions!

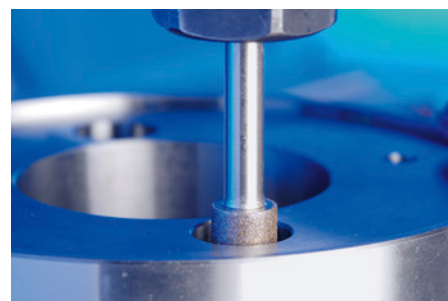


Recommended peripheral speeds

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 25,000 SFPM.



Peripheral speed [SFPM] ▶		1,500	2,000	2,500	3,000	3,500	4,000	5,000	6,000 ... 8,000	... 16,000	
Electroplated bond	Diamond		1,600–3,600 SFPM						6,000–16,000 SFPM for CRP/GRP as well as grey and nodular cast iron		
	Diamond					3,000–5,000 SFPM					
Resinoid bond	Diamond				3,000–4,000 SFPM						
	Diamond						4,000–6,000 SFPM				
Metal bond	Diamond		2,000–3,000 SFPM								
	Diamond				3,000–6,000 SFPM						



Diamond and CBN tools

Recommended rotational speed range



Product dia. [Inches]	Peripheral speed [SFPM]													
	1,500	2,250	3,000	3,750	4,500	5,250	6,000	6,750	7,500	8,250	9,000	9,750	10,500	11,250
	Rounded rotational speed [RPM]													
1/16	91,000	-	-	-	-	-	-	-	-	-	-	-	-	-
5/64	72,800	-	-	-	-	-	-	-	-	-	-	-	-	-
1/8	48,500	72,800	97,000	-	-	-	-	-	-	-	-	-	-	-
5/32	36,400	54,600	72,800	91,000	-	-	-	-	-	-	-	-	-	-
3/16	29,100	43,700	58,200	72,800	87,300	-	-	-	-	-	-	-	-	-
1/4	24,300	36,400	48,500	60,600	72,800	84,900	97,000	-	-	-	-	-	-	-
5/16	18,200	27,300	36,400	45,500	54,600	63,700	72,800	81,900	91,000	-	-	-	-	-
3/8	14,600	21,800	29,100	36,400	43,700	50,900	58,200	65,500	72,800	80,000	87,300	94,600	-	-
5/8	9,700	14,600	19,400	24,300	29,100	34,000	38,800	43,700	48,500	53,400	58,200	63,100	67,900	72,800
7/8	6,600	9,900	13,200	16,500	19,800	23,200	26,500	29,800	33,100	36,400	39,700	43,000	46,300	49,600
1-5/8	3,600	5,500	7,300	9,100	10,900	12,700	14,600	16,400	18,200	20,000	21,800	23,700	25,500	27,300
2	2,900	4,400	5,800	7,300	8,700	10,200	11,600	13,100	14,600	16,000	17,500	18,900	20,400	21,800
3	1,900	2,900	3,900	4,900	5,800	6,800	7,800	8,700	9,700	10,700	11,600	12,600	13,600	14,600
4	1,500	2,200	2,900	3,600	4,400	5,100	5,800	6,500	7,300	8,000	8,700	9,500	10,200	10,900
4-1/2	1,300	1,900	2,500	3,200	3,800	4,400	5,100	5,700	6,300	7,000	7,600	8,200	8,900	9,500
5	1,200	1,700	2,300	2,900	3,500	4,100	4,700	5,200	5,800	6,400	7,000	7,600	8,200	8,700

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

Example:

Diamond grinding point, diameter: 7/8"

Cutting speed: 4,500 SFPM

Rotational speed rounded: 19,800 RPM

Diamond needle files




Diamond needle files hand

Diamond needle files can be used in general tool making.

Special features:

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

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
Needle files							
7/32	1/16	5-1/2	2-3/4	D 91	1	15101061	04027
				D 126	1	15101062	04014
				D 181	1	15101063	04001




Diamond needle files hand with rounded edges

Diamond needle files can be used universally in tool making.

Special features:

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

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
7/32	1/16	5-1/2	2-3/4	D 91	1	15102061	04028
				D 126	1	15102062	04015




Diamond needle files flat

Diamond needle files can be used universally in tool making.

Special features:

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

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
7/32	1/16	5-1/2	2-3/4	D 91	1	15103061	04029
				D 126	1	15103062	04016
				D 181	1	15103063	04003




Diamond needle files three square

Diamond needle files can be used in general tool making.

Special features:

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

Width with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
9/64	5-1/2	2-3/4	D 91	1	15104061	04030
			D 126	1	15104062	04017
			D 181	1	15104063	04004




Diamond needle files square

Diamond needle files can be used in general tool making.

Special features:

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

Width with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
7/64	5-1/2	2-3/4	D 91	1	15105061	04031
			D 126	1	15105062	04018
			D 181	1	15105063	04005

Diamond and CBN tools – electroplated bond

Diamond needle files




Diamond needle files half-round

Diamond needle files can be used universally in tool making.

Special features:

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

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
7/32	1/16	5-1/2	2-3/4	D 91	1	15106061	04032
				D 126	1	15106062	04019
				D 181	1	15106063	04006




Diamond needle files round

Diamond needle files can be used in general tool making.

Special features:

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

Width with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
1/8	5-1/2	2-3/4	D 91	1	15107061	04033
			D 126	1	15107062	04020
			D 181	1	15107063	04007

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Diamond needle files knife

Diamond needle files can be used universally in tool making.

Special features:

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

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
13/64	1/16	5-1/2	2-3/4	D 91	1	15108061	04034
				D 126	1	15108062	04021
				D 181	1	15108063	04008




Diamond needle files feather edge

Diamond needle files can be used universally in tool making.

Special features:

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

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
13/64	7/64	5-1/2	2-3/4	D 91	1	15109061	04035
				D 126	1	15109062	04022




Diamond needle files crossing oval

Diamond needle files can be used universally in tool making.

Special features:

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

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
13/64	3/32	5-1/2	2-3/4	D 91	1	15110061	04036
				D 126	1	15110062	04023




Diamond needle files barrette

Diamond needle files can be used universally in tool making.

Special features:

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

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
13/64	5/64	5-1/2	2-3/4	D 91	1	15100061	04037
				D 126	1	15100062	04024



Diamond needle file sets


Diamond needle file sets are supplied in a durable plastic box which protects the tools from damage. The box allows for storage in the toolbox or workbench.

Contents:

This diamond needle file set contains one each of the following needle files: hand, three square, square, half-round and round.

Special features:

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

Grit size		Item no.	EDP no.
D 91	1	15842051	04038
D 126	1	15842052	04025
D 181	1	15842053	04012

Diamond and CBN tools – electroplated bond

Diamond riffler files



Diamond riffler file set

The diamond riffler file set comes 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, and round.

Special features:

- Durable plastic box to prevent damage.

Grit size		Item no.	EDP no.
D 126	1	15816242	04080

Diamond handy files

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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 due to the low working temperatures.
- Longer service life due to harder diamond grain.

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
13/32	7/64	8-1/2	4	D 126	1	15430202	51101




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 due to the low working temperatures.
- Longer service life due to harder diamond grain.

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
1/2	9/64	8-1/2	4	D 126	1	15431202	51102




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 due to the low working temperatures.
- Longer service life due to harder diamond grain.

Width with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
3/8	8-1/2	4	D 126	1	15432202	51104




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 due to the low working temperatures.
- Longer service life due to harder diamond grain.

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
7/32	7/32	8-1/2	4	D 126	1	15433202	51105



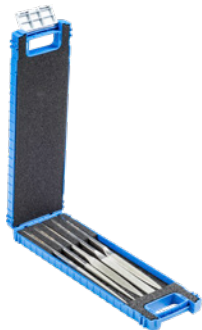
Diamond handy files round

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 due to the low working temperatures.
- Longer service life due to harder diamond grain.

Width with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
17/64	8-1/2	4	D 126	1	15434202	51107



Diamond handy file sets

Diamond handy file sets come in sturdy, practical plastic boxes that protect the files from damage. These are ideal for storing on a 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 due to the low working temperatures.
- Longer service life due to harder diamond grain.

Grit size		Item no.	EDP no.
D 126	1	15826272	51108

Diamond and CBN tools – electroplated bond

Diamond machinist files




Diamond machinist's files hand

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. Grit size D 251 also works well on fiber reinforced plastics (GRP/CRP). Diamond machinist's files are sold with ergonomic file handles.

Special features:

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

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
7/8	7/32	8	7-1/8	D 151	1	15401204	04060
				D 251	1	15401205	04065




Diamond machinist's files three square

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. Grit size D 251 also works well on fiber reinforced plastics (GRP/CRP). Diamond machinist's files are sold with ergonomic file handles.

Special features:

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

Width with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
9/16	8	7-1/8	D 151	1	15403204	04061




Diamond machinist's files square

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. Grit size D 251 also works well on fiber reinforced plastics (GRP/CRP). Diamond machinist's files are sold with ergonomic file handles.

Special features:

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

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
5/16	5/16	8	7-1/8	D 151	1	15404204	04062




Diamond machinist's files half-round pointed

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. Grit size D 251 also works well on fiber reinforced plastics (GRP/CRP). Diamond machinist's files are sold with ergonomic file handles.

Special features:

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

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
7/8	1/4	8	7-1/8	D 151	1	15405204	04063
				D 251	1	15405205	04068



Diamond machinist's files round

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. Grit size D 251 also works well on fiber reinforced plastics (GRP/CRP). Diamond machinist's files are sold with ergonomic file handles.

Special features:

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

Width with coating [Inch]	Total length [Inch]	Coating length [Inch]	Grit size		Item no.	EDP no.
5/16	8	7-1/8	D 151	1	15406204	04064

Flexible diamond files




Flexible diamond files

Flexible diamond files adapt perfectly to workpiece surfaces. Due to their flexibility, they can be used in convex and concave contours with small radii.



Special features:

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

Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating	Grit size		Item no.	EDP no.
1/64	9/16	6-1/2	one side	D 76	5	15600076	04090
				D 126	5	15600126	04091
				D 181	5	15600181	04092

Diamond sheets




Diamond sheets

These diamond sheets are ideal for 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 due to the low working temperatures.
- Longer service life due to harder diamond grain.


Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating	Grit size		Item no.	EDP no.
1/32	1-3/16	6-5/8	complete	D 64	1	15600030	04100
				D 126	1	15630126	04102

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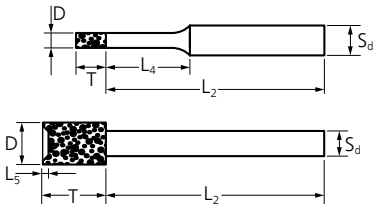
Diamond and CBN tools – electroplated bond

Diamond sheets



Width with coating [Inch]	Height with coating [Inch]	Total length [Inch]	Coating	Grit size		Item no.	EDP no.
3/64	1-3/8	14	complete	D 64	1	15635064	04103
				D 126	1	15600035	04101

Diamond grinding points



Cylindrical shape


The cylindrical shape is suitable for grinding bores, radii and contours in stationary or manual applications. Grinding points with a diameter of 5/16 inch or larger have a recess on the front surface.



Special features:

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

5

D [Inch]	T [Inch]	S _d [Inch]	L ₂ [Inch]	L ₄ [Inch]	Grit size		Item no.	EDP no.
1/32	5/32	1/8	1-27/64	23/64	D 126	1	36061211	53000
3/64	5/32	1/8	1-27/64	23/64	D 126	1	36061212	53001
1/16	5/32	1/8	1-27/64	3/8	D 126	1	36061213	53002
5/64	5/32	1/8	1-27/64	3/8	D 126	1	36061214	02010
1/8	5/32	1/8	1-27/64	3/4	D 126	1	36061215	03010
5/32	13/64	1/8	1-3/4	-	D 126	1	36061219	53006
3/16	13/64	1/8	1-3/4	-	D 126	1	36061220	53007
1/4	1/4	1/4	2-1/8	3/4	D 126	1	36061216	53003
5/16	5/16	1/4	2	-	D 126	1	36061221	53008
3/8	5/16	1/4	2	-	D 126	1	36061217	53004
9/16	3/8	1/4	2	-	D 126	1	36061218	53005



Shape D (continuous coating)

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



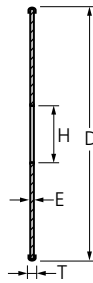
Shape G (with protective segments)

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 with grit sizes from D 64 to D 427 for cutting hard materials such as tungsten carbide or ceramics and fibre-reinforced plastics (GRP/CRP).



Special features:

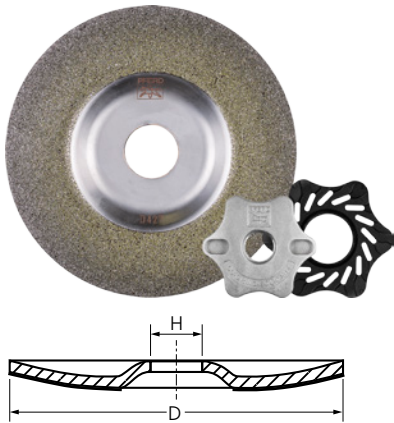
- Ideal for work on hardened steel.
- No chemical wear due to the low working temperatures.
- Longer service life due to harder diamond grain.

D [Inch]	T [Inch]	E [Inch]	H [Inch]	Shape	Protective seg. per side	Grit size		Item no.	EDP no.
Hard materials, e.g. glass, ceramic or tungsten carbide									
7/8	1/64	1/64	1/16	D	-	D 64	1	68402206	54001
1-9/16	1/32	1/4	3/8	D	-	D 151	1	68404015	54002
Fibre-reinforced plastics (GRP and CRP) as well as pre-sintered and green ceramic									
2	5/64	3/64	3/8	G	3	D 357	1	68405163	54003
3	5/64	3/64	3/8	G	3	D 357	1	68407103	54004
4	5/64	3/64	7/8	G	3	D 427	1	68410238	54005
4-1/2	5/64	3/64	7/8	G	3	D 427	1	68411238	54006



Diamond and CBN tools – electroplated bond

Diamond grinding discs CC-GRIND® SOLID DIAMOND




CC-GRIND® SOLID DIAMOND

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



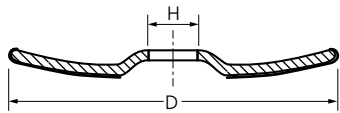
Special features:

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

D [Inch]	H [Inch]	Grit size	Max. RPM		Item no.	EDP no.
Integrated clamping flange set SFS CC-GRIND® SOLID/FLEX 115/125 M14						
4-1/2	7/8	D 852	13,300	1	36611585	61164

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Diamond grinding discs DUODISC® DIAMOND




DUODISC® DIAMOND

Excellent for 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 product diameter.
- Reduced product change times due to long service life.
- Minimal dust as the product does not wear away.

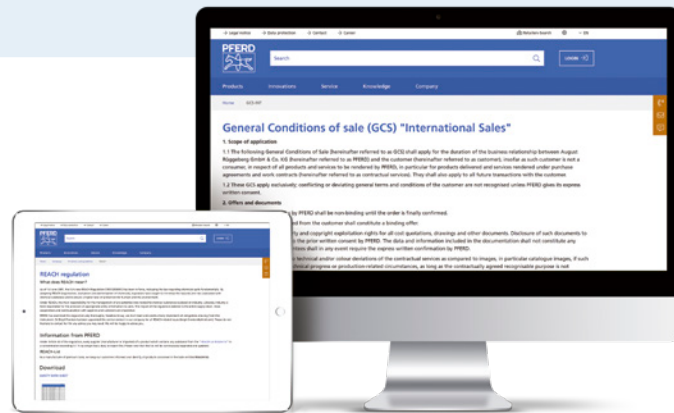
D [Inch]	H [Inch]	Grit size	Max. RPM		Item no.	EDP no.
5	7/8	D 852	12,200	1	36803644	61165

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Our general terms and conditions of sale apply, which you can view at www.pferd.com/conditions.



Scan the QR code for more information about our general terms and conditions of sale.



New in the PFERD product range

Our new products have **blue** item numbers in the Tool Manual. Discontinued products are in *italics* and identified accordingly in the corresponding product tables.



Stay up to date and discover our new products digitally and online.

REACH Regulation (EC) No. 1907/2006

By adopting REACH (registration, evaluation and authorisation of chemicals), legislators have sought to minimize the hazards and risks associated with chemical substances and to ensure a higher level of protection for humans and the environment.



Information about PFERD tools in the context of the EC REACH Regulation can be found on our website www.pferd.com/reach.

PFERD repair service

Our highly experienced team at our Marienheide plant in Germany ensures that repairs are carried out quickly and looks after the provision of spare parts. Please send any queries to: pferd.power.tools@pferd.com