

Diamond and CBN tools electroplated bond

Diamond cut-off wheels

Electroplated diamond cut-off wheels with grit size D 852 are exceptionally well-suited to machine grey cast iron and nodular cast iron (GG and GGG or GJL and GJS).

Advantages:

- Very long tool life
- Ideal for work on deep-lying areas because of the constant tool diameter
- Easy and quick elimination of burning-in
- Minimized dust formation due to wearresistant coating and coarse chips

Ordering example: EAN 4007220**956021** D1A1R 230-3.8-22.23 D 852 GAD

PFERDERGONOMICS®:



Description	EAN 4007220	D [mm]	Cutting width T [mm]	Blade thickness E [mm]	Centre hole dia. H [mm]	Grit size	Shape	Protec- tive segments per side		
Grey and nodular cast iron (GG and GGG or GJL and GJS)										
D1A1R 230-3,8-22,23 D 852 GAD	956021	230	3.8	1.8	22.23	D 852	D	none	1	
D1A1R 400-4,5-40,0 D 852 GAD	947449	400	4.5	2.5	40	D 852	D	none	1	



The use of the clamping flange set SFS 76 reduces noise development during manual grinding. It can be used with the diamond cutoff wheel D1A1R 230-3.8-22.23 D 852 GAD on angle

grinders with M14 thread.

Ordering data and more detailed information about the clamping flange set can be found in Catalogue 206.





PFERDVIDEO

You will receive more information here or at www.pferd.com

Customer-specific tool solutions for grey and nodular cast iron













More information about customer-specific tool solutions can be found on page 10.

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Diamond cut-off wheels





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Diamond cut-off wheels



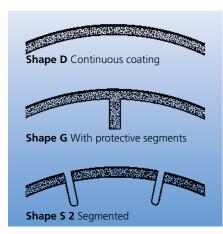
Electroplated diamond cut-off wheels are characterized by their particularly efficient cutting performance because of their large chip spaces. They are used with grit sizes from D 64 to D 427 for cutting hard materials such as tungsten carbide or ceramics and fibrereinforced plastics (GRP/CRP).

PFERDERGONOMICS®:





Description	EAN 4007220	D [mm]	Cutting width T [mm]	Blade thickness E [mm]	Centre hole dia. H [mm]	Grit size	Shape	Protec- tive segments per side	
Hard materials, e.g. glass, ceramics	or tungster	carbide							
D1A1R 22-0,5-1,7 D 64 GAD	355190	22	0.5	0.3	1.7	D 64	D	none	1
D1A1R 30-1-10 D 151 GAD	355206	30	1.0	0.6	10	D 151	D	none	1
D1A1R 40-1-10 D 151 GAD	355213	40	1.0	0.6	10	D 151	D	none	1
D1A1R 50-1,4-6 D 151 GAD	355220	50	1.4	1.0	6	D 151	D	none	1
D1A1R 50-1,4-10 D 151 GAD	666043	50	1.4	1.0	10	D 151	D	none	1
D1A1R 125-1,4-20 D 151 GAD	355237	125	1.4	1.0	20	D 151	D	none	1
Fibre-reinforced plastics (GRP and C	RP) as well	as pre-sinte	ered and gr	een cerami	С				
D1A1R 50-2-6 D 357 GAD	308790	50	2.0	1.0	6	D 357	D	none	1
D1A1R 50-2-6 D 357 GAG	168530	50	2.0	1.0	6	D 357	G	3	1
D1A1R 50-2-10 D 357 GAD	666067	50	2.0	1.0	10	D 357	D	none	1
D1A1R 50-2-10 D 357 GAG	666050	50	2.0	1.0	10	D 357	G	3	1
D1A1R 75-2-10 D 357 GAD	956038	75	2.0	1.0	10	D 357	D	3	1
D1A1R 75-2-10 D 357 GAG	393420	75	2.0	1.0	10	D 357	G	3	1
D1A1R 100-2-22,23 D 427 GAD	805992	100	2.0	1.0	22.23	D 427	D	none	1
D1A1R 100-2-22,23 D 427 GAG	806005	100	2.0	1.0	22.23	D 427	G	3	1
D1A1R 115-2-22,23 D 427 GAD	806012	115	2.0	1.0	22.23	D 427	D	none	1
D1A1R 115-2-22,23 D 427 GAG	806029	115	2.0	1.0	22.23	D 427	G	3	1
D1A1R 125-2-22,23 D 427 GAD	806036	125	2.0	1.0	22.23	D 427	D	none	1
D1A1R 125-2-22,23 D 427 GAG	806043	125	2.0	1.0	22.23	D 427	G	3	1
D1A1R 178-2-22,23 D 427 GAD	806050	178	2.0	1.0	22.23	D 427	D	none	1
D1A1RSS 230-2,5-22,23 D 427 GAS2	806074	230	2.5	1.5	22.23	D 427	S2	none	1
D1A1RSS 250-2,5-22,23 D 427 GAS2	806081	250	2.5	1.5	22.23	D 427	S2	none	1
D1A1RSS 300-2,5-30,0 D 427 GAS2	806098	300	2.5	1.5	30	D 427	S2	none	1
D1A1RSS 350-2,8-30,0 D 427 GAS2	806104	350	2.8	1.8	30	D 427	S2	none	1
D1A1RSS 400-3,8-30,0 D 427 GAS2	806111	400	3.8	2.8	30	D 427	S2	none	1



Advice on tool selection:

- When cutting glass, ceramic or tungsten carbide, use fine grit sizes D 64 or D 151.
- When cutting pre-sintered ceramic, use coarse grit sizes D 357 or D 427.
- For cutting, trimming or cutting-to-length of fibre-reinforced plastics (GRP/CRP), use coarse grit sizes D 357 or D 427. Fine grit sizes D 64 and D 151 can also be used for small geometries.
- For tools to use when cutting-off grey and nodular cast iron, see page 29.
- Through its protective segments, shape G cut-off wheels offer a better free-cutting performance than shape D.

Recommendations for use:

- Please observe the recommended cutting speeds on page 8.
- Matching arbors for tools up to and including a diameter of 75 mm can be found on page 31.

Other dimensions and CBN cut-off wheels are available on request. Further information on customer-specific tool solutions can be found on page 10.

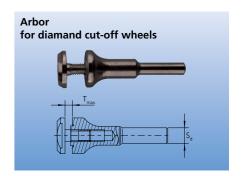


Accessories for mounting diamond cut-off wheels up to a diameter of 75 mm.

Safety notes:

For safety reasons, it is imperative to remain within the stated rotational speed limit

Ordering example: EAN 4007220**443606** BO 3/1.7 1



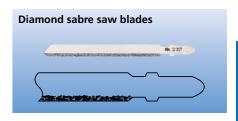
Description	EAN 4007220	Shank dia. S _d [mm]	Suitable for centre hole [mm]	Max. tool width T _{max.} [mm]	Max. speed [RPM]	
BO 3/1,7 1	443606	3	1.7	1.0	28,000	1
BO 6/10 3	956045	6	10	3.0	30,000	1
BO 8/10 3	806401	8	10	3.0	30,000	1

Diamond sabre saw blades



Diamond sabre saw blades are exceptionally well suited to work on fibre-reinforced plastics (GRP/CRP), e.g. for making cut-outs in tank and pressure vessel construction or for cutting prefabricated slabs.

They are characterized, in particular, by their flexible guidability for producing a wide range of geometries and by their long tool life. Suitable for all Bosch-socket sabre saws.



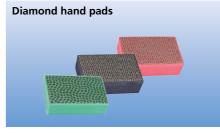
Description	EAN 4007220	Coating length [mm]	Grit size	Overall length [mm]	Total width [mm]	
DIA-SSB 50/75 D 357	535950	50	D 357	75	2	1
DIA-SSB 75/100 D 357	535967	75	D 357	100	2	1

Additional diamond tools in the PFERD product range

COMBIDISC® diamond abrasive discs

COMBIDISC® is a comprehensive range for surface finishing. COMBIDISC® diamond abrasive discs are ideally suited for work on wear-resistant coatings and hard facings out of tungsten carbide, chromium carbide, titanium carbide, etc.

Further information and ordering data can be found in Catalogue 204.



Diamond hand pads are ideally suited for grinding work on wear-resistant coatings and hard facings out of tungsten carbide, chromium carbide, titanium carbide, etc.

Further information and ordering data can be found in Catalogue 204.



For the many cutting tasks in construction and crafts, PFERD offers diamond cut-off wheels for concrete, exposed aggregate concrete, clinker brick, hard stone, granite or other building materials.

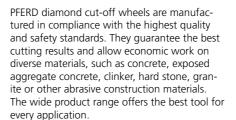
Further information and ordering data can be found in Catalogue 206.



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Product line

colour coding



PFERD diamond cut-off wheels are characterized by:

- First-rate diamond qualities
- Excellent cutting characteristics and short cutting times
- Long tool life
- Excellent cutting ease
- High economic value

PFERD quality is certified according to ISO 9001.

PFERD description DG 230 x 2.8 x 22.23 SG 0 0 0 0

• Description and shape of the tool = Diamond, segmented type = Diamond, continuous rim type for flags and tiles

Outer diameter

Outer dia. D in [mm]

Wheel thickness Wheel thickness T in [mm]

Ocentre hole diameter

Centre hole dia. H in [mm] **9** PFERD product line

Universal Line PSF Performance Line SG

The PFERD description corresponds to the designation conforming to EN 13236.

PFERD Material group oSa safety standard. colour coding operating speed rotational speed [RPM] Australian safety PFERD product line PFERD description Direction of rotation

Colour coding of the two product lines and materials to be worked

PFERD diamond cut-off wheels for diverse cutting applications in construction work, crafts and industry are available in two product lines with diverse special features:

	Universal Line PSF							
General use in construction, crafts and industry								
Materia	ll = Colour	Page						
•	Construction site materials = orange	66						
•	Flags/tiles = dark green	66						

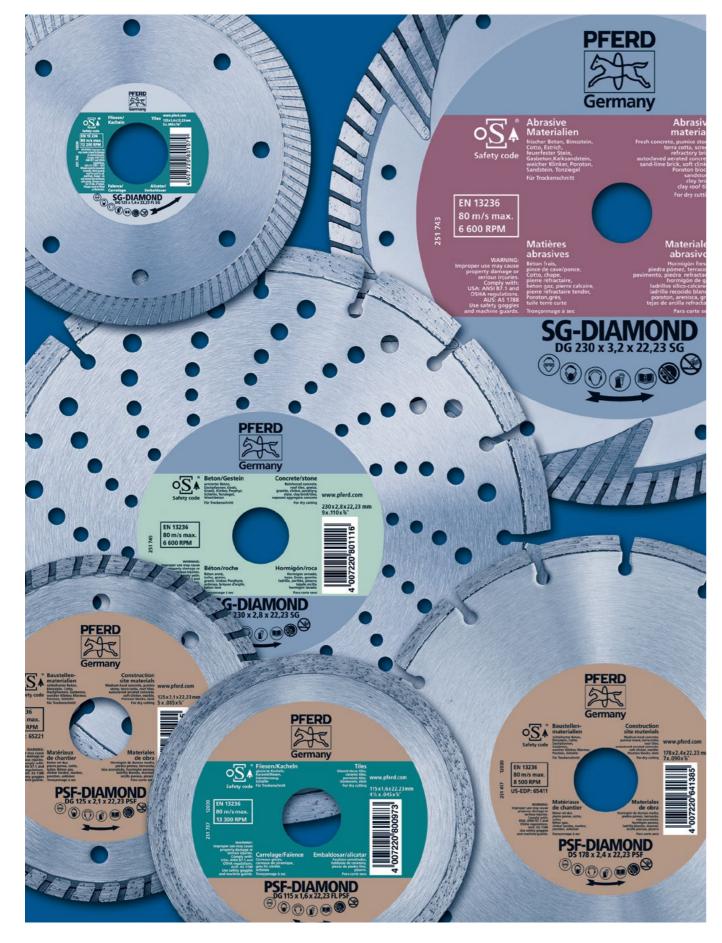
Material group

Performance Line SG								
0								
Widest range of tools for professional use in construction, crafts and industry								
Material = Colour Page								
Abrasive materials = signal red	68							
Concrete/stone = light green	67							
Flags/tiles = dark green	68							

The fast way to the best tool

Starting with the application • and material •, the overview shows the various types of tools in the PFERD range and helps you to find the best tool. For information on tool drives, please refer to the respective catalogue page.

0	Construction site materials: Medium-hard concrete pumice, cotto, roofing tiles, aerated concrete clinker, marble, poroto slate	e, J , soft on,	Abrasive materials: Fresh concrete, pumice, cotto, screed, fire-resistant stone, aerated concrete, lime malm brick, soft clinker, poroton, sandstone, clay tile	aggregate concrete	ard cks, tiles, , por- exposed	Flags/tiles: Glazed tiles, ceram stoneware, slate	·
Application	Туре	Page	Type Page	Туре	Page	Туре	Page
Aggressive, fast cutting	DS PSF	66	-	DS SG	67	-	
Easy cutting with high- quality cut	DG PSF	66	DG SG 68	-		DG FL PSF DG FL SG	68 68





Multipurpose segmented-edge tool for aggressive, fast cutting with high cutting performance and long tool life.

Abrasive: Diamond D

Materials to be worked:

Construction site materials

Applications:

Aggressive, fast cutting of solid material

Recommendations for use:

■ Suitable for use on angle grinders of all output categories

Description	EAN 4007220	D [mm]	H [mm]	H [inch]	Width T [mm]	Segment height X [mm]	Max. perm. speed [RPM]	
DS 115 x 2,2 x 22,23 PSF	641361	115	22.23	7/8	2.2	7	13,300	1
DS 125 x 2,2 x 22,23 PSF	641378	125	22.23	7/8	2.2	7	12,200	1
DS 178 x 2,4 x 22,23 PSF	641385	178	22.23	7/8	2.4	7	8,500	1
DS 230 x 2,4 x 22,23 PSF	641392	230	22.23	7/8	2.4	7	6,600	1

Construction site materials Type DG



Multipurpose continuous-edge tool for easy cutting with high cutting performance and long tool life.

Abrasive: Diamond D

Materials to be worked:

Construction site materials

Applications:

Easy cutting of solid material with high cutting

Recommendations for use:

■ Suitable for use on angle grinders of all output categories



Description	EAN 4007220	D [mm]	H [mm]	H [inch]	Width T [mm]	Segment height X [mm]	Max. perm. speed [RPM]	
DG 115 x 2,1 x 22,23 PSF	641408	115	22.23	7/8	2.1	7	13,300	1
DG 125 x 2,1 x 22,23 PSF	641415	125	22.23	7/8	2.1	7	12,200	1
DG 178 x 2,4 x 22,23 PSF	641422	178	22.23	7/8	2.4	7	8,500	1
DG 230 x 2,6 x 22,23 PSF	641439	230	22.23	7/8	2.6	7	6,600	1

Flags/tiles Type DG FL



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

Abrasive: Diamond D

Materials to be worked:

Flags, tiles

Applications:

Easy cutting of flags and tiles with high cutting quality

Recommendations for use:

■ Suitable for use on angle grinders of all output categories

Description	EAN 4007220	D [mm]	H [mm]	H [inch]	Width T [mm]	Segment height X [mm]	Max. perm. speed [RPM]	
DG 115 x 1,6 x 22,23 FL PSF	800973	115	22.23	7/8	1.6	7	13,300	1
DG 125 x 1.6 x 22 23 FL PSF	800980	125	22.23	7/2	1.6	7	12 200	1

High-performance segmented-edge tool for aggressive, fast cutting of hard materials with

high cutting performance and very long tool

Abrasive: Diamond D

Materials to be worked:

Reinforced concrete, roofing tiles, gneiss, granite, clinker, porphyry, slate, clay tile, exposed aggregate concrete, hard concrete, concrete blocks, concrete pipes

Applications:

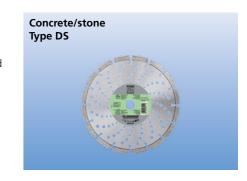
Aggressive, fast cutting of solid material

Recommendations for use:

- The maximum operating speed for diamond cut-off wheels DS with dia. 300 to 400 mm is 100 m/s
- Suitable for use on angle grinders of all output categories

Ordering note:

All diamond cut-off wheels with centre hole dia. 25.4 mm are supplied with reducing ring to 22.23 mm for use on angle grinders.



Description	EAN 4007220	D [mm]	H [mm]	H [inch]	Width T [mm]	Segment height X [mm]	Max. perm. speed [RPM]	
DS 115 x 2,4 x 22,23 SG	801086	115	22.23	7/8	2.4	10	13,300	1
DS 125 x 2,4 x 22,23 SG	801093	125	22.23	7/8	2.4	10	12,200	1
DS 178 x 2,6 x 22,23 SG	801109	178	22.23	7/8	2.6	10	8,500	1
DS 230 x 2,8 x 22,23 SG	801116	230	22.23	7/8	2.8	10	6,600	1
DS 300 x 2,8 x 20,0 SG	801123	300	20.0	-	2.8	10	6,400	1
DS 300 x 2,8 x 25,4 SG	801147	300	25.4 (22.23)	1 (7/8)	2.8	10	6,400	1
DS 350 x 2,8 x 20,0 SG	801154	350	20.0	-	2.8	10	5,400	1
DS 350 x 2,8 x 25,4 SG	801161	350	25.4 (22.23)	1 (7/8)	2.8	10	5,400	1
DS 400 x 3,2 x 25,4 SG	801178	400	25.4 (22.23)	1 (7/8)	3.2	10	4,800	1

Sharpening block

Special accessories for resharpening or reconditioning cutting segments. Type with soft polyurethane bond.

Abrasive: Silicon carbide C

Recommendations for use:

■ PFERD diamond cut-off wheels can be resharpened or reconditioned, as required, by cutting off thin slices with the sharpening block



Description	EAN 4007220	Grit size	Dimensions [mm]	
DSB 2005025	168332	80	200 x 25 x 50.0	1





Diamond cut-off wheels

Performance Line SG





High-performance continuous-edge tool for easy cutting with high cutting performance and very long tool life.

Abrasive: Diamond D

Materials to be worked:

Fresh concrete, pumice, cotto, screed, fireresistant stone, aerated concrete, lime malm brick, soft clinker, poroton, sandstone, clay tile

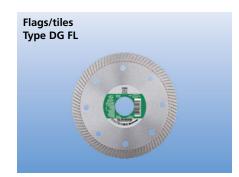
Applications:

Easy cutting of solid material with high cutting quality

Recommendations for use:

■ Suitable for use on angle grinders of all output levels

Description	EAN 4007220	D [mm]	H [mm]	H [inch]	Width T [mm]	Segment height X [mm]	Max. perm. speed [RPM]	
DG 115 x 2,2 x 22,23 SG	801000	115	22.23	7/8	2.2	8	13,300	1
DG 125 x 2,2 x 22,23 SG	801024	125	22.23	7/8	2.2	8	12,200	1
DG 178 x 2,5 x 22,23 SG	801031	178	22.23	7/8	2.5	8	8,500	1
DG 230 x 2,8 x 22,23 SG	801048	230	22.23	7/8	2.8	8	6,600	1



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

Abrasive: Diamond D

Materials to be worked:

Glazed tiles, ceramic tiles, stoneware, slate

Applications

Easy cutting of flags and tiles with high cutting quality

Recommend	dations 1	for use:
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■ Suitable for use on angle grinders of all output levels

Description	EAN 4007220	D [mm]	H [mm]	H [inch]	Width T [mm]	Segment height X [mm]	Max. perm. speed [RPM]	
DG 115 x 1,4 x 22,23 FL SG	801055	115	22.23	7/8	1.4	8	13,300	1
DG 125 x 1,4 x 22,23 FL SG	801079	125	22.23	7/8	1.4	8	12,200	1

