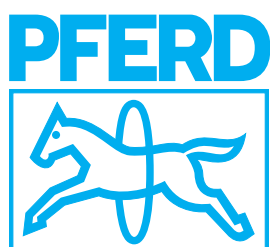


# New Product Line

## Diamond Cut-Off Wheels



- New structured product line with colour-coded system.
- Short cutting time, high tool life and economical.
- New Universal-Line PSF, the cost-effective alternative.



## Product Lines, Label Code, Ordering Code, Colour Coding System

### PFERD Ordering Code

DS 230 x 22,23 H SG  
**1 2 3 4 5**

#### 1 Diamond Cut-Off Wheel Type and Shape

DS = Segmented type  
 DG = Continuous rim type

#### 2 Dimension

Dia. (D<sub>1</sub>) in mm

#### 3 Centre Hole Dia.

Dia. (D<sub>2</sub>) in mm

#### 4 Application characteristics

H = for harder materials  
 S = for softer materials  
 - = general use

#### 5 PFERD Product Lines

Universal Line PSF  
 Performance Line SG  
 Special/High-Performance Line SGP



## PFERD Diamond Cut-Off Wheels

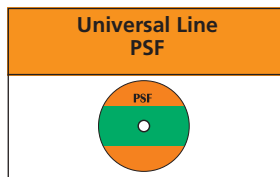
PFERD diamond cut-off wheels for diverse cutting applications in industry and crafts are now available in three new product lines distinguished by our proven colour code.

Diamond cut-off wheels made by PFERD stand for optimum cutting results and maximum safety. Whether it's concrete, clinker, hard stone, granite or other abrasive construction materials - in our range you will find the ideal tool for any cutting application.

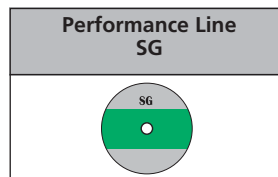
PFERD diamond cut-off wheels are distinguished by

- High-grade diamond coating
- Excellent stock removal
- Short cutting action, long tool life.
- Fast cutting action and maximum efficiency.

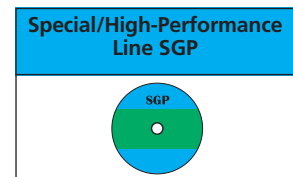
## Colour Coding of the Three Product Lines



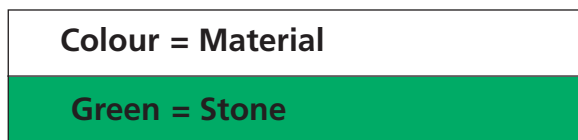
For general-purpose use in industry, crafts and DIY use.



Our Performance Line SG tools meet professional-use standards in industry and crafts.



Special/High-Performance Line SGP products provide optimum quality and performance.



## Recommendations for Product Selection, Universal Line PSF

Stone, brick, terracotta, light concrete		
Power Tool	Application	Tool
High Power	Soft Materials	PSF - DS PSF - DG
Low Power		

### Stone type DS (segmented edge)



Multipurpose segmented-edge tool, suitable for angle grinders of all output levels. PFERD product providing aggressive cutting action and long tool life.



Abrasive: Diamond grain

#### Workpiece materials

Stone, brick, terracotta, light concrete

#### Application

Cutting of solid material

Order No.	EAN 4007220	Previous order No.	D <sub>1</sub> mm	D <sub>2</sub> mm	No. of segments	Segment length	Segment width	Segment height	Max. speed RPM			
DS 115 x 22,23 PSF	<a href="#">N!</a>	641361	new	115	22,23	9	31	2,2	7	13.300	1	0,170
DS 125 x 22,23 PSF	<a href="#">N!</a>	641378	new	125	22,23	10	31	2,2	7	12.000	1	0,190
DS 178 x 22,23 PSF	<a href="#">N!</a>	641385	new	178	22,23	14	33	2,4	7	8.500	1	0,435
DS 230 x 22,23 PSF	<a href="#">N!</a>	641392	new	230	22,23	16	33	2,4	7	6.600	1	0,630

### Stone type DG (continuous edge)



Multipurpose continuous-edge tool, suitable for angle grinders of all output categories. PFERD product providing aggressive cutting action and long tool life.

Abrasive: Diamond grain



#### Workpiece materials

Stone, brick, terracotta, light concrete

#### Application

Cutting of solid material



Order No.	EAN 4007220	Previous order No.	D <sub>1</sub> mm	D <sub>2</sub> mm	No. of segments	Segment length	Segment width	Segment height	Max. speed RPM		
DG 115 x 22,23 PSF	<a href="#">N!</a>	641408	new	115	22,23	Single layer of diamonds			13.300	1	0,170
DG 125 x 22,23 PSF	<a href="#">N!</a>	641415	new	125	22,23	Single layer of diamonds			12.000	1	0,190
DG 178 x 22,23 PSF	<a href="#">N!</a>	641422	new	178	22,23	Single layer of diamonds			8.500	1	0,435
DG 230 x 22,23 PSF	<a href="#">N!</a>	641439	new	230	22,23	Single layer of diamonds			6.600	1	0,630

## Recommendations for Product Selection, Performance Line SG

Concrete, clinker, brick, tiles		
Power Tool	Application	Tool
High Power	Hard Materials	SG - DS - H
	Soft Materials	SG - DS - S
Low Power	Tiles	SG - DG - FL

### Concrete type DS H (segmented edge)



High-performance segmented-edge tool for cutting hard material, suitable for use in angle grinders of all output levels. PFERD product providing aggressive cutting action and very long tool life.

Abrasive: Diamond grain

#### Workpiece materials



Concrete, hard clinker, fired brick

#### Application

Cutting of solid material

#### Recommendation for use

The maximum permissible operating speed for DS 300 and DS 350 diamond blades is 100 m/s.

Order No.	EAN 4007220	Previous order No.	D <sub>1</sub> mm	D <sub>2</sub> mm	No. of segments	Segment length	Segment width	Segment height	Max. speed RPM		
DS 115 x 22,23 H SG	313091	D 115 x 22,2 U	115	22,23	8	35,0	2,2	6,0	13.300	1	0,170
DS 125 x 22,23 H SG	313107	D 125 x 22,2 U	125	22,23	9	35,0	2,2	6,0	12.000	1	0,190
DS 178 x 22,23 H SG	313114	D 178 x 22,2 U	178	22,23	13	35,0	2,2	6,0	8.500	1	0,435
DS 230 x 22,23 H SG	313121	D 230 x 22,2 U	230	22,23	17	35,0	2,6	5,0	6.600	1	0,630
DS 300 x 20,0 H SG	313138	D 300 x 20,0 U	300	20,0	21	35,0	2,6	5,0	6.400	1	0,822
DS 300 x 22,23 H SG	313145	D 300 x 22,2 U	300	22,23	21	35,0	2,6	5,0	6.400	1	0,822
DS 300 x 25,4 H SG	313152	D 300 x 25,4 U	300	25,4	21	35,0	2,6	5,0	6.400	1	0,822
DS 350 x 20,0 H SG	313169	D 350 x 20,0 U	350	20,0	25	35,0	2,8	5,0	5.500	1	0,959
DS 350 x 22,23 H SG	313176	D 350 x 22,2 U	350	22,23	25	35,0	2,8	5,0	5.500	1	0,959
DS 350 x 25,4 H SG	313183	D 350 x 25,4 U	350	25,4	25	35,0	2,8	5,0	5.500	1	0,959

# Diamond Cut-Off Wheels

## Performance Line SG

### Concrete type DS S (segmented edge)





High-performance segmented-edge tool for cutting soft materials, suitable for use in angle grinders of all output categories. PFERD product characterized by aggressive cutting action and very long tool life.

Abrasive: Diamond grain

**Workpiece materials**  
Concrete, soft clinker, brick

**Application**  
Cutting of solid material

Order No.	EAN 4007220	Previous order No.	D <sub>1</sub> mm	D <sub>2</sub> mm	No. of seg- ments	Seg- ment length	Seg- ment width	Seg- ment height	Max. speed RPM		
DS 115 x 22,23 S SG	303931	D 115 x 22,2 E	115	22,23	8	35,0	2,2	6,0	13.000	1	0,110
DS 125 x 22,23 S SG	303948	D 125 x 22,2 E	125	22,23	9	35,0	2,2	6,0	12.000	1	0,140
DS 178 x 22,23 S SG	303955	D 178 x 22,2 E	178	22,23	12	35,0	2,2	6,0	8.500	1	0,310
DS 230 x 22,23 S SG	291283	D 230 x 22,2 E	230	22,23	15	35,0	2,2	6,0	6.600	1	0,620

### Ceramic tiles type DG FL (continuous edge)



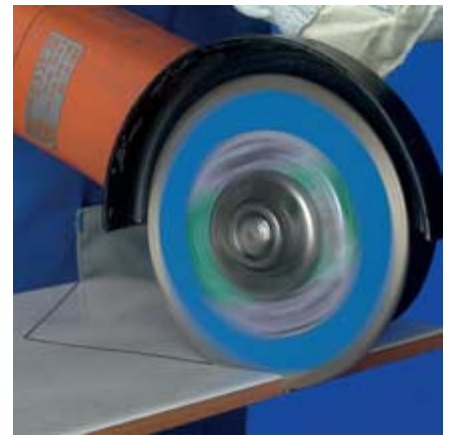
High-performance continuous-edge tool, suitable for angle grinders of all output levels. PFERD product providing aggressive cutting action and long tool life.



Abrasive: Diamond grain

**Workpiece materials**  
Ceramic tiles

**Application**  
Cutting of ceramic tiles

**Recommendation for use**  
Special-purpose continuous-edge (DG) blade for ceramic tiles ensures superior operating performance and achieves precision cuts without edge breakout.



Order No.	EAN 4007220	Previous order No.	D <sub>1</sub> mm	D <sub>2</sub> mm	No. of seg- ments	Seg- ment length	Seg- ment width	Seg- ment height	Max. speed RPM		
DG 110 x 22,23 FL SG	225264	D 110 x 22,2 FL	110	22,2	Single layer of diamonds				13.000	1	0,170

## Recommendations for Product Selection, Special/High-Performance Line SGP, Sharpening Block

Concrete (including exposed aggregate & steel-reinforced types), hard clinker, porphyry, granite		
Power Tool	Application	Tool
High Power	Hard Materials	SGP - DS - H
Low Power	Reinforced Materials	

### Concrete type DS H (segmented edge)



Special-purpose segmented-edge performance tool for cutting solid material. PFERD product characterized by aggressive cutting action and outstanding tool life.

Abrasive: Diamond grain

#### Workpiece materials

Concrete (including exposed aggregate and steel-reinforced), hard clinker, porphyry, granite



#### Application

Cutting of solid material

#### Recommendation for use

When used on reinforced materials (e.g., steel-reinforced concrete), segmented-edge (DS) blades achieve best results on a high-powered angle grinder.



Order No.	EAN 4007220	Previous order No.	D <sub>1</sub> mm	D <sub>2</sub> mm	No. of segments	Segment length	Segment width	Segment height	Max. speed RPM		
DS 115 x 22,23 H SGP	168370	D 115 x 22,2 W	115	22,23	8	35,0	2,6	5,0	13.300	1	0,170
DS 125 x 22,23 H SGP	168400	D 125 x 22,2 W	125	22,23	9	35,0	2,6	5,0	12.000	1	0,190
DS 178 x 22,23 H SGP	168448	D 178 x 22,2 W	178	22,23	18	20,0	2,8	5,0	8.500	1	0,435
DS 230 x 22,23 H SGP	168493	D 230 x 22,2 W	230	22,23	24	20,0	2,8	5,0	6.600	1	0,630

### Sharpening block





Special accessory for sharpening or reconditioning the segments of diamond cutting blades. PFERD product distinguished by its soft polyurethane bond.

Abrasive: Silicon carbide

#### Recommendation for use

PFERD diamond cutting blades can be sharpened or reconditioned, as required, by cutting off thin slices from this cutting block.

Order No.	EAN 4007220	Grit size	Dimensions mm		
DSB 2005025	168332	CN 80 PUR	200 x 50 x 25	1	0,315

# Diamond Cut-Off Wheels

## Application Notes, Detailed Recommendations for Use

### Recommendations for Use:

1. Always observe the directional arrow shown on each PFERD cut-off blade.
2. Never work without a protective machine hood.
3. Wear protective goggles.
4. Keep workpiece adequately supported throughout the cutting process.
5. Do not apply pressure when cutting; the machine weight provides sufficient advance. Do not tilt the rotating blade.
6. Avoid overheating. Allow blade to cool down by running the machine in idle mode.
7. Cut deeply. Always try to cut through the entire workpiece depth with a single cut. Move blade gently up and down while cutting (oscillation).

PFERD diamond cut-off blades are used **dry**. When working on especially tough materials such as concrete with high gravel content (exposed aggregate type), the cutting blade is liable to overheat. This condition is clearly indicated by rotating sparks appearing around the circumference of the blade (see picture below).

To prevent damage to the blade, stop cutting at once when this effect occurs.

Allow blade to cool down in idle mode for a brief period. If the sparks recur afterwards, re-sharpen the blade segments using our PFERD sharpening block (see page 6).



### Detailed Recommendations for Use

Available Diameters [mm]	115, 125 178, 230	115, 125 178, 230 300, 350	115, 125 178, 230	110	115, 125 178, 230	115, 125 178, 230
PFERD-Product Lines	SGP		SG		PSF	
Types	DS H SGP	DS H SG	DS S SG	DG FL SG	DS PSF	DG PSF
Materials						
Asphalt	–	○	–	–	–	–
Concrete	●	●	●	–	○	○
Concrete, reinforced	●	●	–	–	–	–
Conc. bricks, conc. tiles	●	●	○	–	○	●
Pumice stones	●	●	●	–	●	●
Terracotta	●	●	●	–	●	●
Roof tiles	○	●	●	–	○	●
Cast plaster floor	–	○	–	–	–	○
Aerated concrete	○	○	○	–	○	○
Gl.-fib.reinf.plast. GFP	○	○	○	–	○	○
Gneiss	○	○	○	–	○	○
Granite	●	●	–	–	–	–
Tiles, glazed	○	○	–	●	–	○
Sandy limestone	○	○	○	–	○	○
Ceramic tiles	○	○	–	●	–	○
Clinker bricks, hard	●	●	○	○	○	○
Clinker bricks, soft	○	○	○	○	○	○
Marble	○	○	○	○	○	●
Porous clay	○	○	○	–	○	○
Porphyry	●	–	–	–	–	–
Sandstone	–	●	●	–	○	○
Slate	●	○	○	●	○	●
Clay brick	○	●	●	○	○	●
Exposed aggreg. conc.	●	●	–	–	–	–

● = highly suitable ○ = suitable – = unsuitable

## The complete PFERD Range

### Catalogue 201



Machinist's Files,  
Sharpening Files,  
Rasps and  
Precision Files

### Catalogue 205



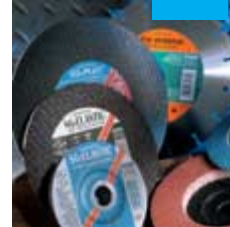
Superabrasives Diamond  
and CBN Files,  
Grinding Tools  
and Cut-Off Wheels

### Catalogue 202



Tungsten Carbide Burrs,  
H.S.S. and Tool Steel (WS)  
Rotary Cutters,  
Hole Saws,  
Hole Cutters and  
Accessories

### Catalogue 206



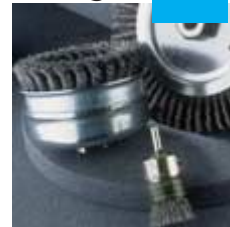
Grinding and  
Cut-Off Wheels

### Catalogue 203



Mounted Points

### Catalogue 208



Industrial  
Power Brushes

### Catalogue 204



Fine Grinding and  
Polishing Tools

### Catalogue 209



Tool Drives

## The complete PFERD Range

### Catalogue 201



Machinist's Files,  
Sharpening Files,  
Rasps and  
Precision Files

### Catalogue 205



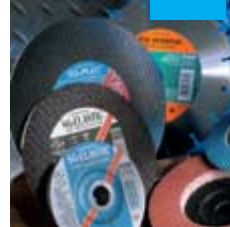
Superabrasives Diamond  
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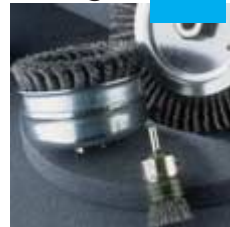
Grinding and  
Cut-Off Wheels

### Catalogue 203



Mounted Points

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Industrial  
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Fine Grinding and  
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Tool Drives