Cut-off wheels, flap discs and grinding wheels

PFERD

6

ABN 21 060 672 979

TOOWOOMBA WELDING SUPPLIES

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We deliver on time ... EVERYTIME
We are an Australian locally owned family business

Cut-off wheels, flap discs and grinding wheels
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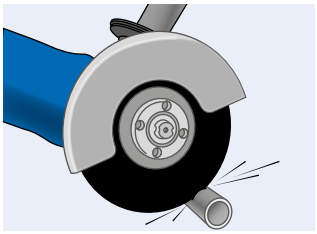
Cutting



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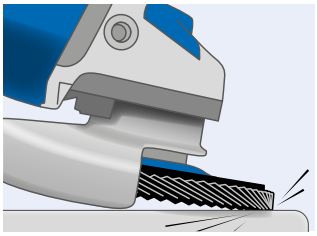
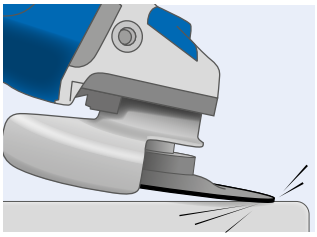
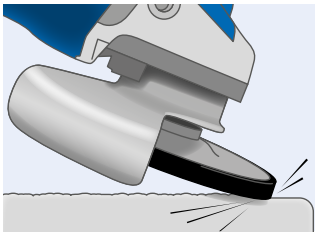
Grinding/Roughing



POLIFAN flap discs 31



CC-GRIND grinding discs 43



Grinding wheels 52

Cup wheels 62

Snagging wheels 63

Fine grinding and polishing tools for the perfect surface finish (e.g. fibre discs, COMBICLICK, POLIVLIES flap discs, mounted flap wheels, etc.) can be found in catalogue section 4.

Diamond cut-off wheels for processing stone and concrete, grey and nodular cast iron, as well as plastics can be found in catalogue section 5.

All tools and more information:
www.pferd.com

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Quality

All PFERD tools are developed, manufactured and tested in accordance with the strictest quality requirements. As a founding member of the "Organization for the Safety of Abrasives (oSa)", PFERD has committed to conform to tougher inspection requirements that even go beyond EN 12413 and EN 13743.

PFERD quality management is certified according to ISO 9001.

Support and training

PFERD offers you individual targeted support to solve your application problems. The experienced sales representatives and technical advisers at PFERD will be pleased to assist you. Our worldwide sales addresses can be found at: **www.pferd.com**

In the **PFERD**AKADEMIE, we provide highly specialized and practical knowledge from the world of grinding and cutting. The seminar blocks follow on from each other and enable you to become a PFERD tool specialist.

PFERDTOOL-CENTER

On the **PFERD**TOOL-CENTER, you will find all the important information required in order to select the most appropriate grinding tool. Your local retailer or a PFERD sales representative will be glad to answer any questions you might have. To find an expert PFERD retailer near you, visit: **www.pferd.com**

Products made to order

If you cannot find the solution for your particular application in our standard product range, PFERD can produce tailor-made cut-off wheels, flap discs and reinforced grinding wheels specifically for your application on request.

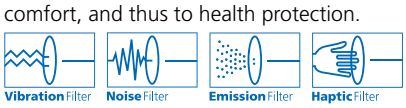
Taking into account the processing objective, the material to be worked and the conditions, we offer individual advice with the aim of finding the best and most economical solution for you.

PFERDVALUE – Your added value with PFERD

Results from the PFERD test laboratories as well as from the product tests by independent testing institutes prove: PFERD tools offer measurable added value.

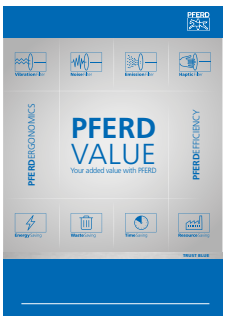
Discover **PFERD**ERGONOMICS and **PFERD**EFFICIENCY:

As part of **PFERD**ERGONOMICS, PFERD offers ergonomically optimized tools and tool drives that contribute to greater safety and working comfort, and thus to health protection.



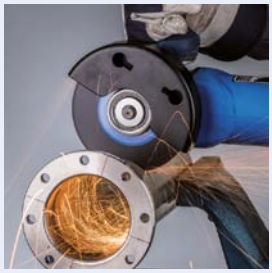
As part of **PFERD**EFFICIENCY, PFERD offers innovative, high-performance tool solutions and tool drives with outstanding added value.

For more information on this topic, please refer to our brochure "**PFERD**VALUE – Your added value with PFERD".



Cut-off wheels, flap discs and grinding wheels
The fast way to the best tool

Tool selection

Cutting	Grinding/Roughing		
	Coated abrasives		Bonded abrasives
			
Cut-off wheels for	**POLIFAN flap discs** page 31	**CC-GRIND grinding discs** page 43	**Grinding wheels** page 52
Angle grinders page 10			**Cup wheels** page 62
Straight grinders page 26			**Snagging wheels** page 63
Petrol cutters page 28			

Product lines and colour coding

Universal Line PSF ★★☆☆

The entry-level range Universal Line PSF includes **robust tools** for processing the **most common materials**. Universal Line PSF tools achieve **good results** with **high economic efficiency**.

Performance Line SG ★★★☆

The broad Performance Line SG range offers **a high-performance tool solution for every application and every material**. Performance Line SG tools achieve **optimum results** with **maximum economic efficiency**.

Special Line SGP ★★★★

Special Line SGP tools are specially developed for **specific tasks** and offer the user **key advantages over conventional products**. Furthermore, the Special Line SGP includes tools that, due to their particularly high performance during use, offer **ultimate economic efficiency**.

Materials and colour coding

Steel, cast steel	Steels up to 1,200 N/mm² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steel, alloyed steels
	Hardened, heat-treated steels over 1,200 N/mm² (> 38 HRC)	Tool steels, tempering steels, alloyed steels, cast steel
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels, e.g. **Names** **EN** **AISI** V2A 1.4301 304 V2A 1.4310 301 V4A 1.4401 316 V4A 1.4571 316Ti
Aluminium	Non-hardening and hardening wrought alloys, cast aluminium alloys with low silicon content, cast aluminium alloys without silicon	
Other non-ferrous metals	Non-ferrous metals, soft	Brass, copper, zinc
	Non-ferrous metals, hard	Bronze, titanium
	High-temperature-resistant materials	Inconel, Hastelloy
Cast iron	Grey cast iron	Cast iron with flake graphite EN-GJL (GG), cast iron with nodular graphite/nodular cast iron EN-GJS (GGG)
	Annealed cast iron	White annealed cast iron EN-GJMW (GTW), black cast iron EN-GJMB (GTS)
Stone	Asphalt, cotto, pumice, light concrete, sandstone, concrete, reinforced concrete, concrete blocks, roofing tiles, granite, clinker, exposed aggregate concrete, tiles, ceramic tiles, slate	

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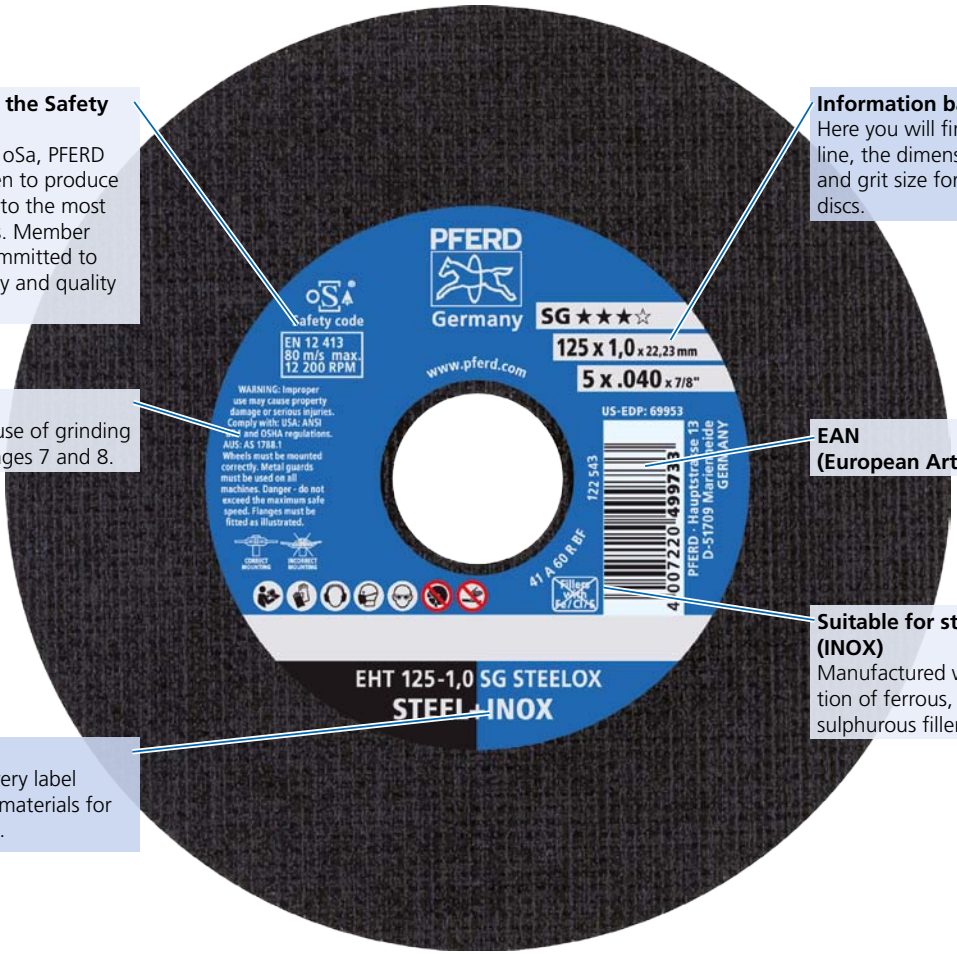
Label

oSa – Organization for the Safety of Abrasives
As a founder member of oSa, PFERD has voluntarily undertaken to produce quality tools conforming to the most exacting safety standards. Member companies of oSa are committed to continuous product safety and quality monitoring.

Safety information
Information on the safe use of grinding tools can be found on pages 7 and 8.

Material information
The bottom section of every label indicates the material or materials for which the tool is suitable.



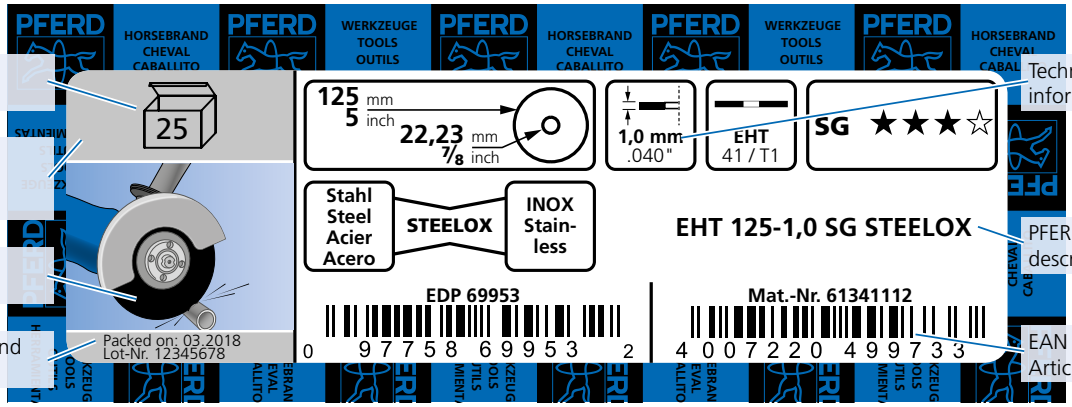
Information bar
Here you will find the product line, the dimensions and abrasive and grit size for POLIFAN flap discs.

EAN (European Article Number)

Suitable for stainless steel (INOX)
Manufactured without addition of ferrous, chlorinated or sulphurous fillers

Packaging

PFERD supplies cut-off wheels, flap discs and grinding wheels in robust industrial packaging that protects the tools against damage. All important technical and ordering information can be found on the packaging label.



Cut-off wheels, flap discs and grinding wheels
Solutions for stainless steel (INOX) and aluminium

Machining of stainless steel (INOX)

Stainless steel (INOX) is characterized in particular by its corrosion resistance, but also its toughness, high mechanical strength and exceptional aesthetics. Due to its outstanding material properties, stainless steel offers many application possibilities, but also places particular demands on grinding tools.

PFERD offers a wide range of specially developed tools that do not contaminate the workpiece and create lower heat build-up than conventional products. This prevents corrosion.

8 tips for preventing corrosion

Use the right grinding tool!

1. Fillers with Fe/Cl/S — Only use grinding tools **without** ferrous (Fe), chlorinated (Cl) or sulphurous (S) fillers that are specifically designed for stainless steel (INOX). This prevents unwanted residues that can result in corrosion. Suitable tools feature the symbol above and the addition of **INOX** or **STEELOX** (steel + INOX).
2. To prevent signs of corrosion, the heat build-up in the workpiece must be reduced. Use grinding tools specially developed for use on stainless steel (INOX) and the largest possible grit size.

Observe during use!

3. Work with less contact pressure and oscillating movement to prevent heat discolouration, particularly with thin-walled workpieces.
4. Tools that have previously been used on steel must no longer be used for work on stainless steel (INOX). Adhering steel particles can cause impurities and therefore corrosion.
5. Ensure that, as far as possible, no sparks fall on the workpiece and no swarf is left on the workpiece.

Important: Proceed straight to finish machining!

6. Proceed straight to finish machining to achieve the desired surface quality. Suitable products can be found in catalogue section 4 "Fine grinding and polishing tools".
7. If heat discolouration/oxidation occurs during grinding, this must be removed using the following fine grinding process.
8. Clean each workpiece thoroughly after completion of all the mechanical work.

Machining of aluminium

The term "aluminium" refers to a series of alloys in which the chemical element aluminium is the main component. These range from soft to tough and hard aluminium alloys.

Normal grinding tools for steel often cannot be used for work on aluminium. Particularly with soft, lubricating alloys, adhesion of materials and clogging of the grinding tool could occur. PFERD has therefore developed a series of special tools for processing aluminium.

These products also contain no fillers that could leave unwanted residues on the workpiece. The surfaces can therefore be welded immediately after cutting or grinding.

Specialized products for use on aluminium

SG ALU grinding wheels

POLIFAN flap discs **A-COOL SG ALU + INOX** (with a specially developed coating that prevents chips from adhering)

POLIFAN flap discs **A SGP CURVE ALU** for fillet weld grinding (the only flap disc with flaps on the circumference and a specially developed coating that prevents chips from adhering)

SG ALU and **PSF ALU + STONE** cut-off wheels

The innovative **ALU**MASTER High Speed Disc can be found in catalogue section 2.

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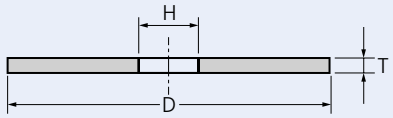
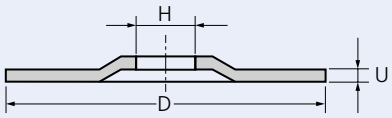
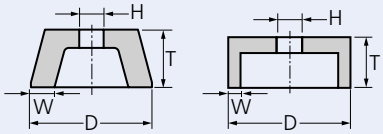
Overview of shapes and letter symbols



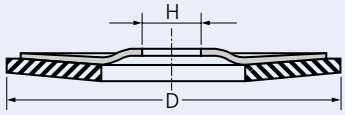
Cut-off wheel, flat type EHT (shape 41)



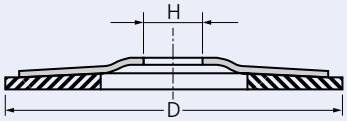
Grinding wheel E (shape 27) or cut-off wheel, depressed-centre type EH (shape 42)



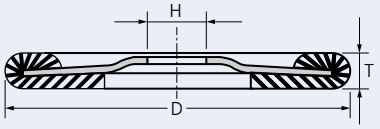
Conical (shape 11) and cylindrical (shape 6) cup wheel ETT



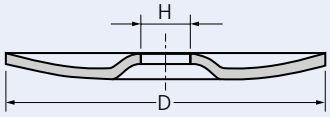
Flap disc, conical type PFC (shape B)



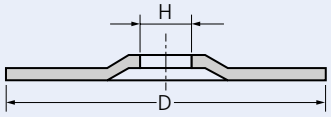
Flap disc, flat type PFF (shape A)



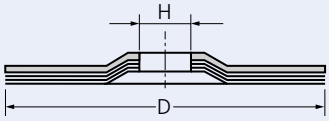
Flap disc, radial type PFR (CURVE)



CC-GRIND-SOLID



CC-GRIND-FLEX



CC-GRIND-STRONG

Safety during cutting and grinding

Grinding tool manufacturers, machine manufacturers and users contribute equally to ensuring safety during cutting and grinding.

PFERD produces all its tools according to the specified safety regulations. During cutting and grinding, the user is responsible for correct use of the tool drive as well as correct handling and use of the tools.

The information required for the safe use of grinding wheels, cut-off wheels, cup wheels, flap wheels, POLIFAN flap discs and CC-GRIND grinding discs from PFERD is summarized here. In addition to this, user information relating to the grinding machine used, as well as the applicable provisions on health and safety at work, should always be observed.

Explanation of the labelling of grinding tools

- Always observe the instructions on the grinding tool, the grinding machine and all accompanying user information.
- Only use grinding tools that meet current safety standards. These products carry the relevant EN standard number and the "oSa" mark:
  - EN 12413 for grinding tools with bonded abrasives (grinding wheels, cut-off wheels, cup wheels and snagging wheels)
  - EN 13743 for coated abrasives (POLIFAN flap discs)
- Use a grinding tool that is suitable for the respective application. A tool that cannot be clearly identified should never be used.
- Grinding tools for hand-held grinding with bond types B (e.g. cup wheels) and BF (grinding wheels, cut-off wheels and snagging wheels) must not be used after the indicated expiry date in accordance with EN 12413. The expiry date is stated as the month and year, e.g. 04/2021. The bond type is always marked on the label.
- Observe any use restrictions, warnings and safety instructions:

= Not permitted for hand-held grinding!

= Not permitted for face grinding!

= Not permitted for wet grinding!

= Do not use if damaged!

= Follow the safety instructions!

= Wear eye protection!

= Wear hearing protection!

= Wear gloves!

= Wear a dust mask!

= Observe the minimum contact angle!

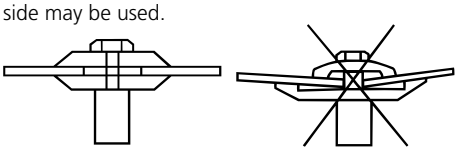
6

Storage of grinding tools

- Grinding tools should be stored in such a way as to prevent any adverse effects caused by moisture, frost or large temperature variations so as to avoid mechanical damage. Do not use resinoid-bonded grinding tools or grinding tools using coated abrasives that have been exposed to severe humidity, damp or high temperatures.

Mounting of grinding tools

- Only use grinding machines that are intended for use with the relevant tool.
- Never use a grinding machine that is not in good condition.
- Use only grinding tools with an outer diameter and bore diameter and/or thread that match the specifications of the grinding machine.
- Do not use damaged grinding tools. Grinding tools must be visually inspected and checked for any possible damage before each use.
- Keep mounting components clean and in good mechanical condition. Replace them if they become damaged or worn. If the manufacturer of the grinding machine provides devices for securing the grinding tool (e.g. a key), then these must be used. Tighten the clamping mechanism by hand.
- In principle, only clamping flanges with a contact surface with the same outer diameter and that are identically shaped on the contact side may be used.



- Use blotters between the grinding tool and clamping components, if provided.
- Prevent the grinding machine from accidentally turning on, before mounting or changing the grinding tool by disconnecting the power supply.
- Never exceed the maximum operating speed of a grinding tool. Make sure that the rotational speed of the grinding machine (rev/min, 1/min, RPM or min^{-1}) does not exceed the maximum permissible speed given on the grinding tool, the accompanying label or packaging. The remounting of worn grinding tools on smaller grinding machines is not permitted.
- Do not make any unauthorized changes to grinding tools.
- Each time that a tool is mounted, perform a trial run at operating speed, with the protective cover properly installed, for at least 30 seconds. During the trial run, hold the grinding machine in such a way that in the event of any failure of the grinding tool, you will not be struck by any fragments.
- Stationary cut-off wheels must only be used on appropriate stationary cut-off grinding machines. They are not permitted for hand-held or manually guided grinding. If a maximum power output of the machine is indicated on the cut-off wheel, it must never be exceeded.

Use of grinding tools

- Use a grinding tool that is suitable for the respective application. A tool that cannot be clearly identified should never be used.
- Always be aware of the potential dangers during use of grinding tools.
- Always use protective equipment and covers in compliance with the operating instructions for the grinding machine and make sure they are properly mounted and in good condition before you switch on the grinding machine. The protective cover must always be positioned in such a way that it is located between the operator and the tool. Sparks should not fly in the direction of the operator.
- The workpiece must be fixed without tension by appropriate clamping devices or by its own weight.
- The grinding machine must always be turned on before the grinding tool comes into contact with the workpiece.
- Always bring grinding tools carefully into contact with the workpiece surface.
- Always guide cut-off wheels in a straight line. No lateral load should be applied to the cut-off wheel and it should not be used for face grinding.
- Grinding machines may only be put down once they have been turned off and have come to a complete stop.

Hazards due to tool breakage, abrasive particles, sparks, dust, fumes, noise, vibration and bodily contact with the grinding tool

- The use of appropriate personal protective equipment is required for all grinding operations to provide protection against mechanical impacts, abrasive particles, sparks, dust and fumes, noise and vibration. This includes eye protection, hearing protection, respiratory protection and hand protection. Long-sleeved, flame-resistant clothing and appropriate safety footwear must be worn. Tie back long hair and do not wear loose clothing, ties or jewellery. These rules not only apply to the operator of the grinding machine but also to any other persons in the working environment.
- Inhalation of grinding dust can lead to lung damage. Make sure that sufficient extraction or other appropriate measures are provided during grinding work.
- Do not use grinding tools in the vicinity of flammable materials. Flammable and explosive substances must be removed from the working environment before starting work. This includes, for example, dust deposits (especially aluminium dust), cardboard, packaging material, textiles, wood and wood chips, as well as flammable liquids and gases.
- Ensure appropriate extraction and avoid sources of ignition, as explosive dusts can be created when cutting and grinding aluminium. Grinding dusts from steels and aluminium must not be mixed.
- In the event of excessive vibrations stop the grinding machine and investigate the cause of the vibration. Take immediate action, when using a grinding tool, if you begin to experience tingling, stinging or numbness in the hand or arms.
- Never remove fitted safety devices from grinding machines and ensure that they are in good condition and properly installed before starting the grinding machine.
- After switching off the grinding machine, ensure that it has come to a complete stop before leaving it unattended.

Disposal of grinding tools

- Worn or defective grinding tools must be disposed of according to all applicable regulations.
- Note that grinding tools may become contaminated by work on certain materials.
- Grinding tools for disposal should be destroyed in a clearly visible manner in order to prevent re-use.
- Further information can be obtained from your supplier's voluntary product information and safety data sheets.

Do you have any questions?

Our experienced sales representatives and technical advisers here at PFERD will be pleased to assist you. Our worldwide sales addresses can be found at: **www.pferd.com**

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Product group selection

Tool drive	Application	Product line	Steel (STEEL)	Stainless steel (INOX)	Aluminium (ALU)	Cast iron (CAST)	Stone (STONE)
Angle grinder	Cutting	Universal Line PSF ★★☆☆	PSF STEEL Page 13 PSF STEELOX Page 14	PSF STEELOX Page 14	PSF ALU+STONE Page 16		PSF ALU+STONE Page 16
		Performance Line SG ★★★☆	SG STEEL Page 17 SG STEELOX Page 18	SG INOX Page 19 SG STEELOX Page 18	SG ALU Page 20	Foundry cut-off wheels from page 23	
		Special Line SGP ★★★★	SGP CERAMIC STEEL Page 21 SGP STEELOX Page 22	SGP STEELOX Page 22			
	Cutting and grinding	Universal Line PSF ★★☆☆	PSF DUO STEELOX Page 15	PSF DUO STEELOX Page 15			
		Performance Line SG ★★★☆				(ZIRKON) SG DUO CAST Page 25	
Straight grinder (< 100 mm)	Cutting	Performance Line SG ★★★☆	SG STEELOX Page 26	SG STEELOX Page 26	SG STEELOX Page 26	SG STEELOX Page 26	
Petrol cutter and cut-off grinder (> 230 mm)	Cutting	Performance Line SG ★★★☆	SG STEEL Page 28			SG CAST + STONE Page 29	SG STONE Page 29 SG CAST + STONE Page 29

Cut-off wheel width selection

Diameter 76–125 mm			PFERDVALUE
Thin cut-off wheels	0.8 mm	Maximum precision and cutting quality for sheet metal work	Vibration Filter, Noise Filter, Emission Filter, Haptic Filter, Energy Saving, Time Saving
	1.0 mm	Universal width with a focus on speed, comfort and cutting quality	
	1.3 and 1.6 mm	Universal width with a focus on tool life and comfort	
Cut-off wheels	≥ 1.9 mm	Heavy-duty use	-

Diameter 150–230 mm			PFERDVALUE
Thin cut-off wheels	≤ 2.0 mm	Universal width with a focus on speed, comfort and cutting quality	Vibration Filter, Noise Filter, Emission Filter, Haptic Filter, Energy Saving, Time Saving
Cut-off wheels	2.5 mm	Universal width with a focus on tool life and comfort	-
	≥ 2.9 mm	Heavy-duty use	-

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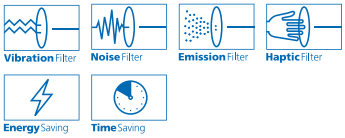
Thin cut-off wheels – flat type EHT (shape 41)

Below is a concise summary of the thin cut-off wheels of all product lines. Detailed information on the individual cut-off wheels can be found on the following product pages.

Advantages:
- Thin cuts with minimized burr formation.
- Maximum efficiency thanks to fast cutting.
- Convenient and safe.

PFERDVALUE:



D [mm]	T [mm]	Steel		Stainless steel	Aluminium
		STEEL	STEELOX	INOX	ALU
		EAN 4007220			
Universal Line PSF ★★☆☆					
105	1.0	976135	098493		-
115	1.0	560242	560266		669310
	1.6	538111	538135		669297
125	1.0	560259	560372		804278
	1.6	538128	538142	← STEELOX	804308
150	1.6	953341	581223		-
180	1.6	581209	581230		-
230	1.9	581339	581216		-
	2.0	STEELOX →	702239		-
Performance Line SG ★★★☆					
105	1.0	953358	039755	953372	885222
	1.3	STEELOX →	953396	← STEELOX	-
115	0.8	-	-	095751	-
	1.0	499719	499702	095799	804964
	1.6	522813	355442	095805	804988
125	0.8	-	-	095812	-
	1.0	499740	499733	095829	804995
	1.6	522691	355459	095898	805008
150	1.6	953365	581179	095904	953426
	2.0	STEELOX →	096178	← STEELOX	-
180	1.6	581155	807729	095911	805015
	2.0	STEELOX →	702321	← STEELOX	-
230	1.9	581162	807736	095942	097922
	2.0	STEELOX →	957592	← STEELOX	-
Special Line SGP ★★★★					
105	0.8	STEELOX →	953464		-
	1.0	STEELOX →	953471		-
	1.3	103883	-		-
115	0.8	STEELOX →	835357		-
	1.0	103890	538074		-
	1.6	103906	538081	← STEELOX	-
125	0.8	STEELOX →	835364		-
	1.0	103920	538098		-
	1.6	103937	538104		-
150	1.6	103951	953488		-
180	1.6	103968	357873		-
230	1.9	103982	522776		-

You can find clamping flange sets for thin 180/230 mm cut-off wheels for increasing lateral stability and precise guidance on page 22.

Quick and easy:
The thin cut-off wheels at a glance.
Detailed information can be found on the following pages.

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PSF STEEL ★★☆☆

Cut-off wheel for steel with high cutting performance and long tool life.

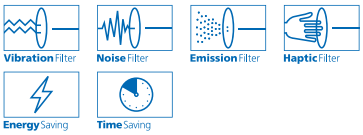
Advantages:
- Fast work progress thanks to high cutting performance.
- High economic efficiency due to long tool life.

Materials that can be worked:
steel

Applications:
cutting of sheet metal, profiles and solid material, cutting out holes

Abrasive:
Aluminium oxide A

PFERDVALUE:
Thin cut-off wheels:



D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
100	2.4	321256	16.0	15,300	25	EHT 100-2,4 PSF STEEL/16,0
105	1.0	976135	16.0	14,500	25	EHT 105-1,0 PSF STEEL/16,0
115	1.0	560242	22.23	13,300	25	EHT 115-1,0 PSF STEEL
	1.6	538111	22.23	13,300	25	EHT 115-1,6 PSF STEEL
	2.4	669174	22.23	13,300	25	EHT 115-2,4 PSF STEEL
125	1.0	560259	22.23	12,200	25	EHT 125-1,0 PSF STEEL
	1.6	538128	22.23	12,200	25	EHT 125-1,6 PSF STEEL
	2.4	669167	22.23	12,200	25	EHT 125-2,4 PSF STEEL
150	1.6	953341	22.23	10,200	25	EHT 150-1,6 PSF STEEL
180	1.6	581209	22.23	8,500	25	EHT 180-1,6 PSF STEEL
	3.0	163474	22.23	8,500	25	EHT 180-3,0 PSF STEEL
230	1.9	581339	22.23	6,600	25	EHT 230-1,9 PSF STEEL
	3.0	163498	22.23	6,600	25	EHT 230-3,0 PSF STEEL
Depressed-centre type EH (shape 42)						
100	2.4	163511	16.0	15,300	25	EH 100-2,4 PSF STEEL/16,0
115	2.4	163528	22.23	13,300	25	EH 115-2,4 PSF STEEL
	3.2	522998	22.23	13,300	25	EH 115-3,2 PSF STEEL
125	2.4	163429	22.23	12,200	25	EH 125-2,4 PSF STEEL
	3.2	523001	22.23	12,200	25	EH 125-3,2 PSF STEEL
180	3.0	163436	22.23	8,500	25	EH 180-3,0 PSF STEEL
230	3.0	163450	22.23	6,600	25	EH 230-3,0 PSF STEEL

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Cut-off wheels
Universal Line PSF ★★☆☆

PSF STEELOX ★★☆☆

Cut-off wheel for steel and stainless steel (INOX) with high cutting performance and long tool life.

Advantages:
- Universally suitable for steel and stainless steel (INOX).
- Fast work progress thanks to high cutting performance.
- High economic efficiency due to long tool life.
- Thin cut-off wheels are ideal for cordless angle grinders.

Materials that can be worked:
steel, stainless steel (INOX)

Applications:
cutting of sheet metal, profiles and solid material, cutting out holes

Abrasive:
Aluminium oxide A

PFERDVALUE:
Thin cut-off wheels:

Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Time Saving

D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
76	0.8	060889	10.0	20,100	25	EHT 76-0,8 PSF STEELOX/10,0
	1.0	060940	10.0	20,100	25	EHT 76-1,0 PSF STEELOX/10,0
105	1.0	098493	16.0	14,500	25	EHT 105-1,0 PSF STEELOX/16,0
115	1.0	560266	22.23	13,300	25	EHT 115-1,0 PSF STEELOX
	1.6	538135	22.23	13,300	25	EHT 115-1,6 PSF STEELOX
	2.4	523025	22.23	13,300	25	EHT 115-2,4 PSF STEELOX
125	1.0	560372	22.23	12,200	25	EHT 125-1,0 PSF STEELOX
	1.6	538142	22.23	12,200	25	EHT 125-1,6 PSF STEELOX
	2.0	667958	22.23	12,200	25	EHT 125-2,0 PSF STEELOX
	2.4	523049	22.23	12,200	25	EHT 125-2,4 PSF STEELOX
150	1.6	581223	22.23	10,200	25	EHT 150-1,6 PSF STEELOX
180	1.6	581230	22.23	8,500	25	EHT 180-1,6 PSF STEELOX
	2.5	523063	22.23	8,500	25	EHT 180-2,5 PSF STEELOX
230	1.9	581216	22.23	6,600	25	EHT 230-1,9 PSF STEELOX
	2.0	702239	22.23	6,600	25	EHT 230-2,0 PSF STEELOX
	2.5	523087	22.23	6,600	25	EHT 230-2,5 PSF STEELOX
Depressed-centre type EH (shape 42)						
100	2.4	523018	16.0	15,300	25	EH 100-2,4 PSF STEELOX/16,0
115	2.4	523032	22.23	13,300	25	EH 115-2,4 PSF STEELOX
125	2.4	523056	22.23	12,200	25	EH 125-2,4 PSF STEELOX
180	2.5	523070	22.23	8,500	25	EH 180-2,5 PSF STEELOX
230	2.5	523094	22.23	6,600	25	EH 230-2,5 PSF STEELOX

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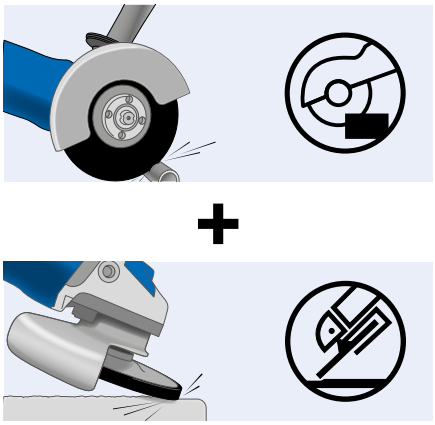
DUODISC

The DUODISC combination wheel is the solution for safe cutting and grinding with just one tool. It meets all the requirements of EN 12413 for cutting and grinding wheels.

Advantages:

- Safe, standard-compliant solution for cutting and face grinding with just one tool.
- Time savings due to fewer wheel changes.
- Universally suitable for steel and stainless steel (INOX).
- Widths 1.4 and 1.9 mm also ideal for cordless angle grinders.
- Problem solver for grinding work on scale.
- Unlike cut-off wheels, can also be used with protective cover open.



PSF DUODISC STEELOX combination wheel ★★☆☆

Combination wheel for steel and stainless steel (INOX) with high cutting performance and long tool life.

Materials that can be worked:
steel, stainless steel (INOX)

Applications:
cutting, deburring, surface grinding, work on fillet welds, grouting, weld dressing

Abrasive:
Aluminium oxide A

PFERDVALUE:
TimeSaving

D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type E						
76	1.4	068274	10.0	20,100	25	E 76-1,4 PSF DUO STEELOX/10,0
Depressed-centre type E (shape 27)						
100	1.9	845578	16.0	15,300	10	E 100-1,9 PSF DUO STEELOX/16,0
	2.8	952733	16.0	15,300	10	E 100-2,8 PSF DUO STEELOX/16,0
115	1.9	835081	22.23	13,300	10	E 115-1,9 PSF DUO STEELOX
	2.8	754498	22.23	13,300	10	E 115-2,8 PSF DUO STEELOX
125	1.9	835098	22.23	12,200	10	E 125-1,9 PSF DUO STEELOX
	2.8	754504	22.23	12,200	10	E 125-2,8 PSF DUO STEELOX
150	3.5	952740	22.23	10,200	10	E 150-3,5 PSF DUO STEELOX
180	3.5	952764	22.23	8,500	10	E 180-3,5 PSF DUO STEELOX

Toowoomba Welding Supplies : www.tweld.com.au : Ph +61 7 4659 0044

PSF ALU + STONE ★★☆☆

Cut-off wheel for non-ferrous metals and mineral materials with high cutting performance and long tool life.

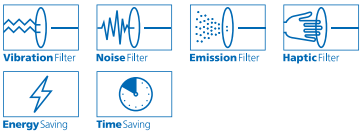
Advantages:
- Fast work progress thanks to high cutting performance.
- High economic efficiency due to long tool life.
- Width of 1.0 mm is also ideal for cordless angle grinders.

Materials that can be worked:
aluminium, titanium, other non-ferrous metals, stone, concrete, tiles, duroplastics, fibre-reinforced duroplastics (GRP, CRP), cast iron

Applications:
cutting of sheet metal, profiles and solid material, cutting out holes

Abrasive:
Silicon carbide C

PFERDVALUE:
Thin cut-off wheels:



D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
115	1.0	669310	22.23	13,300	25	EHT 115-1,0 PSF ALU+STONE
	1.6	669297	22.23	13,300	25	EHT 115-1,6 PSF ALU+STONE
125	1.0	804278	22.23	12,200	25	EHT 125-1,0 PSF ALU+STONE
	1.6	804308	22.23	12,200	25	EHT 125-1,6 PSF ALU+STONE
180	3.2	163641	22.23	8,500	25	EHT 180-3,2 PSF ALU+STONE
230	3.2	163658	22.23	6,600	25	EHT 230-3,2 PSF ALU+STONE
Depressed-centre type EH (shape 42)						
100	2.4	523124	16.0	15,300	25	EH 100-2,4 PSF ALU+STONE/16,0
115	2.4	163665	22.23	13,300	25	EH 115-2,4 PSF ALU+STONE
125	2.4	163597	22.23	12,200	25	EH 125-2,4 PSF ALU+STONE
150	3.0	523131	22.23	10,200	25	EH 150-3,0 PSF ALU+STONE
180	3.2	163603	22.23	8,500	25	EH 180-3,2 PSF ALU+STONE
230	3.2	163627	22.23	6,600	25	EH 230-3,2 PSF ALU+STONE

You can find diamond cut-off wheels for cutting hard materials such as tungsten carbide or ceramics and fibre-reinforced plastics (GRP/CRP) in catalogue section 5.

You can find diamond cut-off wheels for cutting stone and concrete in catalogue section 5.

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SG STEEL ★★★☆

Cut-off wheel for steel with high cutting performance and very long tool life.

Advantages:
- Fast work progress thanks to high cutting performance.
- Maximum economic efficiency due to very long tool life.

Materials that can be worked:
steel

Applications:
cutting of sheet metal, profiles and solid material, cutting out holes

Abrasive:
High-performance aluminium oxide A

PFERDVALUE:
Thin cut-off wheels:

Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Time Saving

D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
100	2.4	162590	16.0	15,300	25	EHT 100-2,4 SG STEEL/16,0
105	1.0	953358	16.0	14,500	25	EHT 105-1,0 SG STEEL/16,0
115	1.0	499719	22.23	13,300	25	EHT 115-1,0 SG STEEL
	1.6	522813	22.23	13,300	25	EHT 115-1,6 SG STEEL
	2.4	162637	22.23	13,300	25	EHT 115-2,4 SG STEEL
125	1.0	499740	22.23	12,200	25	EHT 125-1,0 SG STEEL
	1.6	522691	22.23	12,200	25	EHT 125-1,6 SG STEEL
	2.4	162231	22.23	12,200	25	EHT 125-2,4 SG STEEL
150	1.6	953365	22.23	10,200	25	EHT 150-1,6 SG STEEL
	3.0	162248	22.23	10,200	25	EHT 150-3,0 SG STEEL
180	1.6	581155	22.23	8,500	25	EHT 180-1,6 SG STEEL
	2.9	522639	22.23	8,500	25	EHT 180-2,9 SG STEEL
	3.2	162347	22.23	8,500	25	EHT 180-3,2 SG STEEL
230	1.9	581162	22.23	6,600	25	EHT 230-1,9 SG STEEL
	2.9	522677	22.23	6,600	25	EHT 230-2,9 SG STEEL
	3.2	162422	22.23	6,600	25	EHT 230-3,2 SG STEEL
Depressed-centre type EH (shape 42)						
100	2.4	162576	16.0	15,300	25	EH 100-2,4 SG STEEL/16,0
115	2.4	162606	22.23	13,300	25	EH 115-2,4 SG STEEL
	3.2	522424	22.23	13,300	25	EH 115-3,2 SG STEEL
125	2.4	162217	22.23	12,200	25	EH 125-2,4 SG STEEL
	3.2	522431	22.23	12,200	25	EH 125-3,2 SG STEEL
150	3.0	162255	22.23	10,200	25	EH 150-3,0 SG STEEL
180	2.9	522653	22.23	8,500	25	EH 180-2,9 SG STEEL
	3.2	162262	22.23	8,500	25	EH 180-3,2 SG STEEL
230	2.9	522684	22.23	6,600	25	EH 230-2,9 SG STEEL
	3.2	162309	22.23	6,600	25	EH 230-3,2 SG STEEL

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Cut-off wheels
Performance Line SG ★★★☆

SG STEELOX ★★★☆

Cut-off wheel for steel and stainless steel (INOX) with high cutting performance and very long tool life.

Advantages:
- Universally suitable for steel and stainless steel (INOX).
- Fast work progress thanks to high cutting performance.
- Maximum economic efficiency due to very long tool life.

Materials that can be worked:
steel, stainless steel (INOX)

Applications:
cutting of sheet metal, profiles and solid material, cutting out holes

Abrasive:
High-performance aluminium oxide A

PFERDVALUE:
Thin cut-off wheels:

Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Time Saving

D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
105	1.0	039755	16.0	14,500	25	EHT 105-1,0 SG STEELOX/16,0
	1.3	953396	16.0	14,500	25	EHT 105-1,3 SG STEELOX/16,0
115	1.0	499702	22.23	13,300	25	EHT 115-1,0 SG STEELOX
	1.6	355442	22.23	13,300	25	EHT 115-1,6 SG STEELOX
	2.4	522851	22.23	13,300	25	EHT 115-2,4 SG STEELOX
125	1.0	499733	22.23	12,200	25	EHT 125-1,0 SG STEELOX
	1.6	355459	22.23	12,200	25	EHT 125-1,6 SG STEELOX
	2.0	953419	22.23	12,200	25	EHT 125-2,0 SG STEELOX
	2.4	522875	22.23	12,200	25	EHT 125-2,4 SG STEELOX
150	1.6	581179	22.23	10,200	25	EHT 150-1,6 SG STEELOX
	2.0	096178	22.23	10,200	25	EHT 150-2,0 SG STEELOX
	2.5	096147	22.23	10,200	25	EHT 150-2,5 SG STEELOX
180	1.6	807729	22.23	8,500	25	EHT 180-1,6 SG STEELOX
	2.0	702321	22.23	8,500	25	EHT 180-2,0 SG STEELOX
	2.5	162378	22.23	8,500	25	EHT 180-2,5 SG STEELOX
230	1.9	807736	22.23	6,600	25	EHT 230-1,9 SG STEELOX
	2.0	957592	22.23	6,600	25	EHT 230-2,0 SG STEELOX
	2.5	162446	22.23	6,600	25	EHT 230-2,5 SG STEELOX
	3.2	475690	22.23	6,600	25	EHT 230-3,2 SG STEELOX
Depressed-centre type EH (shape 42)						
115	2.4	162613	22.23	13,300	25	EH 115-2,4 SG STEELOX
	3.2	522868	22.23	13,300	25	EH 115-3,2 SG STEELOX
125	2.4	162651	22.23	12,200	25	EH 125-2,4 SG STEELOX
	3.2	522882	22.23	12,200	25	EH 125-3,2 SG STEELOX
180	2.5	162279	22.23	8,500	25	EH 180-2,5 SG STEELOX
230	2.5	162316	22.23	6,600	25	EH 230-2,5 SG STEELOX

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SG INOX ★★★☆

Cut-off wheel for stainless steel (INOX) with high cutting performance and very long tool life.

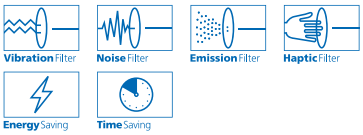
Advantages:
- Fast work progress thanks to high cutting performance.
- Maximum economic efficiency due to very long tool life.

Materials that can be worked:
stainless steel (INOX)

Applications:
cutting of sheet metal, profiles and solid material, cutting out holes

Abrasive:
High-performance aluminium oxide A

PFERDVALUE:
Thin cut-off wheels:



D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
105	1.0	953372	16.0	14,500	25	EHT 105-1,0 SG INOX/16,0
115	0.8	095751	22.23	13,300	25	EHT 115-0,8 SG INOX
	1.0	095799	22.23	13,300	25	EHT 115-1,0 SG INOX
	1.6	095805	22.23	13,300	25	EHT 115-1,6 SG INOX
125	0.8	095812	22.23	12,200	25	EHT 125-0,8 SG INOX
	1.0	095829	22.23	12,200	25	EHT 125-1,0 SG INOX
	1.6	095898	22.23	12,200	25	EHT 125-1,6 SG INOX
150	1.6	095904	22.23	10,200	25	EHT 150-1,6 SG INOX
180	1.6	095911	22.23	8,500	25	EHT 180-1,6 SG INOX
	2.5	096208	22.23	8,500	25	EHT 180-2,5 SG INOX
230	1.9	095942	22.23	6,600	25	EHT 230-1,9 SG INOX
	2.5	096215	22.23	6,600	25	EHT 230-2,5 SG INOX
Depressed-centre type EH (shape 42)						
115	2.4	096222	22.23	13,300	25	EH 115-2,4 SG INOX
125	2.4	096239	22.23	12,200	25	EH 125-2,4 SG INOX
180	2.5	096246	22.23	8,500	25	EH 180-2,5 SG INOX
230	2.5	096253	22.23	6,600	25	EH 230-2,5 SG INOX

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Cut-off wheels
Performance Line SG ★★★☆

SG ALU ★★★☆

Cut-off wheel for aluminium and other non-ferrous metals with high cutting performance and very long tool life.

Advantages:
- Special abrasive mixture and bond technology prevent the cut-off wheel clogging up, even on soft, tough aluminium.
- Fast work progress thanks to high cutting performance.
- Maximum economic efficiency due to very long tool life.
- Contains no fillers that could leave undesirable residues on the workpiece. The surface can therefore be welded immediately.

Materials that can be worked:
aluminium, other non-ferrous metals

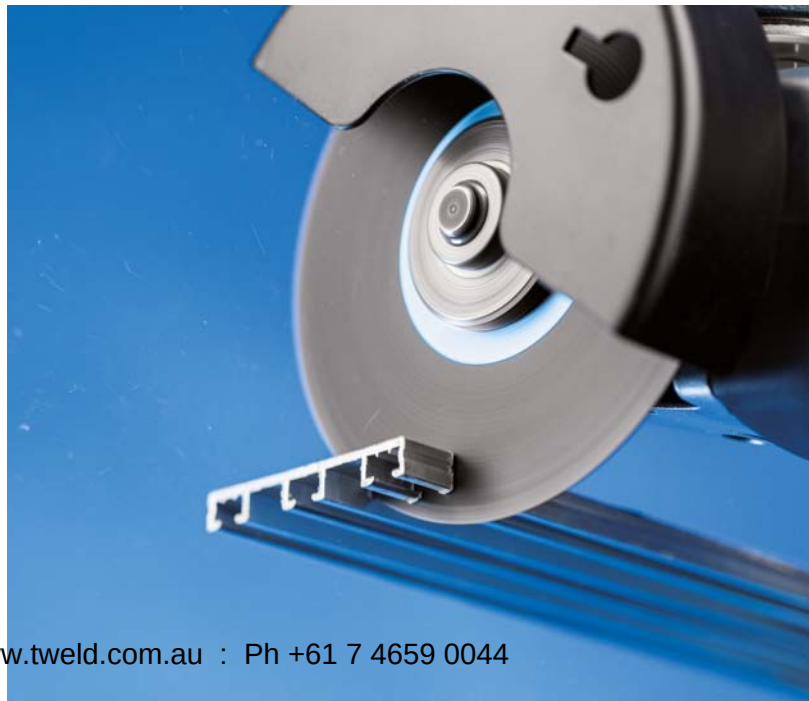
Applications:
cutting of sheet metal, profiles and solid material, cutting out holes

Abrasive:
High-performance aluminium oxide A and silicon carbide C

PFERDVALUE:
Thin cut-off wheels:

Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Time Saving

D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
105	1.0	885222	16.0	14,500	25	EHT 105-1,0 SG ALU/16,0
115	1.0	804964	22.23	13,300	25	EHT 115-1,0 SG ALU
	1.6	804988	22.23	13,300	25	EHT 115-1,6 SG ALU
	2.4	617892	22.23	13,300	25	EHT 115-2,4 SG ALU
125	1.0	804995	22.23	12,200	25	EHT 125-1,0 SG ALU
	1.6	805008	22.23	12,200	25	EHT 125-1,6 SG ALU
	2.4	617786	22.23	12,200	25	EHT 125-2,4 SG ALU
150	1.6	953426	22.23	10,200	25	EHT 150-1,6 SG ALU
180	1.6	805015	22.23	8,500	25	EHT 180-1,6 SG ALU
	2.9	538487	22.23	8,500	25	EHT 180-2,9 SG ALU
230	1.9	097922	22.23	6,600	25	EHT 230-1,9 SG ALU
	2.9	538524	22.23	6,600	25	EHT 230-2,9 SG ALU
Depressed-centre type EH (shape 42)						
115	2.4	522936	22.23	13,300	25	EH 115-2,4 SG ALU
125	2.4	389027	22.23	12,200	25	EH 125-2,4 SG ALU
180	2.9	538517	22.23	8,500	25	EH 180-2,9 SG ALU
230	2.9	538548	22.23	6,600	25	EH 230-2,9 SG ALU



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CERAMIC

Special cut-off wheel with ceramic oxide grain for steel with ultimate cutting performance and outstanding tool life. Optimized for use on steel workpieces with larger cross sections.

Advantages:

- Unprecedented cutting performance due to high-performance abrasive ceramic oxide grain in connection with a special bond technology, resulting in the fastest work progress even on large cross sections.
- Maximum efficiency due to excellent tool life.

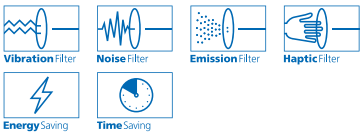
CERAMIC SGP STEEL ★★★★

Materials that can be worked:
steel

Applications:
cutting of large cross sections, cutting of profiles and solid material, cutting out holes

Abrasive:
Ceramic oxide grain CO

PFERDVALUE:
Thin cut-off wheels:



D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
100	1.3	103883	16.0	15,300	25	EHT 100-1,3 CERAMIC SGP STEEL/16,0
115	1.0	103890	22.23	13,300	25	EHT 115-1,0 CERAMIC SGP STEEL
	1.6	103906	22.23	13,300	25	EHT 115-1,6 CERAMIC SGP STEEL
	2.0	103913	22.23	13,300	25	EHT 115-2,0 CERAMIC SGP STEEL
125	1.0	103920	22.23	12,200	25	EHT 125-1,0 CERAMIC SGP STEEL
	1.6	103937	22.23	12,200	25	EHT 125-1,6 CERAMIC SGP STEEL
	2.0	103944	22.23	12,200	25	EHT 125-2,0 CERAMIC SGP STEEL
150	1.6	103951	22.23	10,200	25	EHT 150-1,6 CERAMIC SGP STEEL
180	1.6	103968	22.23	8,500	25	EHT 180-1,6 CERAMIC SGP STEEL
	2.5	103975	22.23	8,500	25	EHT 180-2,5 CERAMIC SGP STEEL
230	1.9	103982	22.23	6,600	25	EHT 230-1,9 CERAMIC SGP STEEL
	2.5	103999	22.23	6,600	25	EHT 230-2,5 CERAMIC SGP STEEL
Depressed-centre type EH (shape 42)						
115	1.6	104002	22.23	13,300	25	EH 115-1,6 CERAMIC SGP STEEL
125	1.6	104019	22.23	12,200	25	EH 125-1,6 CERAMIC SGP STEEL

SGP STEELOX ★★★★

Cut-off wheel for steel and stainless steel (INOX) with high cutting performance and an excellent tool life. Specially optimised for use on thin sheets and profiles.

Materials that can be worked:
steel, stainless steel (INOX)

Applications:
cutting of thin sheet metal and profiles, cutting out holes

Abrasive:
High-performance aluminium oxide A

PFERDVALUE:
Thin cut-off wheels:

Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Time Saving

Advantages:
- Excellent tool life on thin sheet metal and profiles thanks to wear-resistant bond system.
- Universally suitable for steel and stainless steel (INOX).
- Fast work progress thanks to high cutting performance.

D [mm]	T [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
105	0.8	953464	16.0	14,500	25	EHT 105-0,8 SGP STEELOX/16,0
	1.0	953471	16.0	14,500	25	EHT 105-1,0 SGP STEELOX/16,0
115	0.8	835357	22.23	13,300	25	EHT 115-0,8 SGP STEELOX
	1.0	538074	22.23	13,300	25	EHT 115-1,0 SGP STEELOX
	1.6	538081	22.23	13,300	25	EHT 115-1,6 SGP STEELOX
	2.2	281956	22.23	13,300	25	EHT 115-2,2 SGP STEELOX
125	0.8	835364	22.23	12,200	25	EHT 125-0,8 SGP STEELOX
	1.0	538098	22.23	12,200	25	EHT 125-1,0 SGP STEELOX
	1.6	538104	22.23	12,200	25	EHT 125-1,6 SGP STEELOX
	2.2	281970	22.23	12,200	25	EHT 125-2,2 SGP STEELOX
150	1.6	953488	22.23	10,200	25	EHT 150-1,6 SGP STEELOX
	2.5	953495	22.23	10,200	25	EHT 150-2,5 SGP STEELOX
180	1.6	357873	22.23	8,500	25	EHT 180-1,6 SGP STEELOX
230	1.9	522776	22.23	6,600	25	EHT 230-1,9 SGP STEELOX
	2.3	522783	22.23	6,600	25	EHT 230-2,3 SGP STEELOX
	2.8	282014	22.23	6,600	25	EHT 230-2,8 SGP STEELOX

Clamping flanges

Clamping flange set for thin 180/230 mm cut-off wheels

Clamping flange set for increasing lateral stability and precise guidance, especially when using cut-off wheels from 1.6 to 2.0 mm in width with diameters of 180 and 230 mm. The set can be used with any standard angle grinder with an M14 or 5/8"-11 drive spindle.

For angle grinders with spindle	EAN 4007220	D [mm]		Description
M14	595275	76	1	SFS 76 M14
5/8"-11	895856	76	1	SFS 76 5/8"-11

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Foundry cut-off wheels

For heavy-duty use in foundries and fettling shops, PFERD offers particularly robust cut-off wheels that guarantee the highest degree of safety and achieve top performance, even under these conditions. They are optimized for use on compressed-air turbine and high-frequency angle grinders.

PFERD offers you individual advice regarding all aspects of machining in foundries and fettling shops. The experienced sales representatives and technical advisers will be happy to assist you. Please contact us for further details.

SG CAST + STEEL ★★★☆

Cut-off wheel optimised for use in harsh conditions in foundries and fettling shops with high cutting performance, long tool life and high lateral stability.

Advantages:
- The reinforced fabric armouring for tough foundry applications guarantees the highest degree of safety.
- Fast work progress thanks to high cutting performance.
- High economic efficiency due to long tool life.

Materials that can be worked:
cast iron, cast steel

Applications:
cutting

Abrasive:
Special aluminium oxide A

D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
230	3.2	952542	22.23	6,600	25	EHT 230-3,2 SG CAST+STEEL
Depressed-centre type EH (shape 42)						
230	3.2	952535	22.23	6,600	25	EH 230-3,2 SG CAST+STEEL

SG CAST + INOX ★★★☆

Cut-off wheel optimised for use in harsh conditions in foundries and fettling shops with high cutting performance, long tool life and high lateral stability.

Advantages:
- The reinforced fabric armouring for tough foundry applications guarantees the highest degree of safety.
- Fast work progress thanks to high cutting performance.
- High economic efficiency due to long tool life.

Materials that can be worked:
cast iron, stainless steel (INOX), cast steel

Applications:
cutting

Abrasive:
Special aluminium oxide A

D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
230	2.9	522899	22.23	6,600	25	EHT 230-2,9 SG CAST+INOX
Depressed-centre type EH (shape 42)						
230	2.9	522905	22.23	6,600	25	EH 230-2,9 SG CAST+INOX

SG CAST + ALU ★★★☆

Cut-off wheel optimised for use in harsh conditions in foundries and fettling shops with high cutting performance, long tool life and high lateral stability.

Advantages:
- The reinforced fabric armouring for tough foundry applications guarantees the highest degree of safety.
- Fast work progress thanks to high cutting performance.
- High economic efficiency due to long tool life.

Materials that can be worked:
grey/nodular cast iron (GG/GJL, GGG/GJS), hard aluminium alloys

Applications:
cutting

Abrasive:
Special aluminium oxide A and silicon carbide C

D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
230	3.2	522912	22.23	6,600	25	EHT 230-3,2 SG CAST+ALU
Depressed-centre type EH (shape 42)						
230	3.2	522929	22.23	6,600	25	EH 230-3,2 SG CAST+ALU

ZIRKON SG CAST ★★★☆

Cut-off wheel optimised for use in foundries and fettling shops with high cutting performance, very long tool life and high lateral stability.

Advantages:
- The reinforced fabric armouring for tough foundry applications guarantees the highest degree of safety.
- Fast work progress thanks to high cutting performance.
- Maximum economic efficiency due to very long tool life.

Materials that can be worked:
grey/nodular cast iron (GG/GJL, GGG/GJS)

Applications:
cutting

Abrasive:
Zirconia alumina Z and silicon carbide C

D [mm]	T/U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Flat type EHT (shape 41)						
230	3.2	094983	22.23	6,600	25	EHT 230-3,2 ZIRKON SG CAST
Depressed-centre type EH (shape 42)						
230	3.2	340875	22.23	6,600	25	EH 230-3,2 ZIRKON SG CAST

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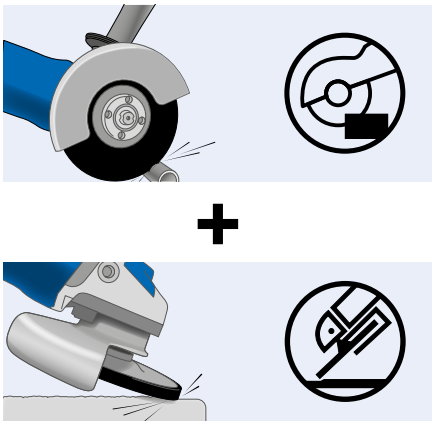
DUODISC for foundries and fettling shops

The DUODISC combination wheel is the solution for safe cutting and grinding with just one tool. It meets all the requirements of EN 12413 for cutting and grinding wheels.

Advantages:

- Safe, standard-compliant solution for cutting and face grinding with just one tool.
- Time savings due to fewer wheel changes.
- Unlike cut-off wheels, can also be used with protective cover open.



SG DUODISC CAST combination wheel ★★★☆

The DUODISC combination wheel is the solution for safe cutting and grinding in harsh conditions in foundries and fettling shops using just one tool. It meets all the requirements of EN 12413 for cutting and grinding wheels.

Materials that can be worked:
grey/nodular cast iron (GG/GJL, GGG/GJS)

Applications:
cutting, surface grinding, deburring

Abrasive:
Special aluminium oxide A and silicon carbide C

PFERDVALUE:
TimeSaving

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
230	3.8	105085	22.23	6,600	10	E 230-3,8 SG DUO CAST

ZIRKON SG DUODISC CAST combination wheel ★★★☆

The DUODISC combination wheel is the solution for safe cutting and grinding in harsh conditions in foundries and fettling shops using just one tool. It meets all the requirements of EN 12413 for cutting and grinding wheels.

Materials that can be worked:
grey/nodular cast iron (GG/GJL, GGG/GJS)

Applications:
cutting, surface grinding, deburring

Abrasive:
Zirconia alumina Z and silicon carbide C

PFERDVALUE:
TimeSaving

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
230	3.8	105092	22.23	6,600	10	E 230-3,8 ZIRKON SG DUO CAST

Cut-off wheels for straight grinders
Performance Line SG ★★★☆

SG STEELOX ★★★☆

Universal cut-off wheel for use on straight grinders with a high cutting performance and very long tool life.

Advantages:
- Ideal for hard-to-reach areas.
- Universal cut-off wheel for many different materials.
- Fast work progress thanks to high cutting performance.
- Maximum economic efficiency due to very long tool life.

Materials that can be worked:
steel, stainless steel (INOX), nickel-based alloys (e.g. Inconel and Hastelloy), cast iron, aluminium, other non-ferrous metals

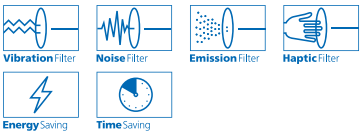
Applications:
cutting of sheet metal, profiles and solid material, cutting out holes

Abrasive:
High-performance aluminium oxide A

Ordering notes:
- Please order the matching arbor separately.

Safety notes:
- Observe the maximum rotational speed for the cut-off wheel and arbor – the lower speed takes precedence.
- When using cut-off wheels with diameter up from 50 mm on compressed-air straight grinders, a protective guard must be used (ISO 11148-7).
- When using cut-off wheels with diameter up from 55 mm on electric straight grinders, a protective guard must be used (EN 60745-2-3).

PFERDVALUE:
Thin cut-off wheels:



D [mm]	T [mm]	H [mm]	EAN 4007220	Max. RPM		Description
Flat type EHT (shape 41)						
30	1.0	6.0	165621	51,000	50	EHT 30-1,0 SG STEELOX/6,0
	1.4	6.0	165638	51,000	50	EHT 30-1,4 SG STEELOX/6,0
40	1.0	6.0	165645	38,200	50	EHT 40-1,0 SG STEELOX/6,0
	2.0	6.0	165652	38,200	50	EHT 40-2,0 SG STEELOX/6,0
50	0.8	6.0	849156	30,600	50	EHT 50-0,8 SG STEELOX/6,0
	1.0	6.0	165669	30,600	50	EHT 50-1,0 SG STEELOX/6,0
	1.4	6.0	165676	30,600	50	EHT 50-1,4 SG STEELOX/6,0
	2.0	6.0	165683	30,600	50	EHT 50-2,0 SG STEELOX/6,0
	3.0	6.0	165690	30,600	50	EHT 50-3,0 SG STEELOX/6,0
65	0.8	6.0	849187	23,500	50	EHT 65-0,8 SG STEELOX/6,0
	0.8	10.0	849194	23,500	50	EHT 65-0,8 SG STEELOX/10,0
	1.0	6.0	165706	23,500	50	EHT 65-1,0 SG STEELOX/6,0
	1.0	10.0	165713	23,500	50	EHT 65-1,0 SG STEELOX/10,0
	1.4	10.0	165720	23,500	50	EHT 65-1,4 SG STEELOX/10,0
	2.0	10.0	165737	23,500	50	EHT 65-2,0 SG STEELOX/10,0
	3.0	10.0	165744	23,500	50	EHT 65-3,0 SG STEELOX/10,0
70	1.0	10.0	165751	21,800	50	EHT 70-1,0 SG STEELOX/10,0
	1.4	10.0	165768	21,800	50	EHT 70-1,4 SG STEELOX/10,0
	2.0	10.0	165775	21,800	50	EHT 70-2,0 SG STEELOX/10,0
	3.0	10.0	165782	21,800	50	EHT 70-3,0 SG STEELOX/10,0
76	0.8	6.0	849217	20,100	50	EHT 76-0,8 SG STEELOX/6,0
	0.8	10.0	849200	20,100	50	EHT 76-0,8 SG STEELOX/10,0
	1.0	6.0	165812	20,100	50	EHT 76-1,0 SG STEELOX/6,0
	1.0	10.0	165829	20,100	50	EHT 76-1,0 SG STEELOX/10,0
	1.4	10.0	165836	20,100	50	EHT 76-1,4 SG STEELOX/10,0
	2.0	10.0	165843	20,100	50	EHT 76-2,0 SG STEELOX/10,0
	3.0	10.0	165850	20,100	50	EHT 76-3,0 SG STEELOX/10,0

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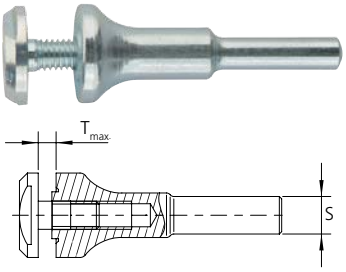
Arbors for small cut-off wheels

Accessory for mounting small cut-off wheels on straight grinders. Stable arrangement with very high shank breakage resistance.

Cut-off wheel diameter [mm]	Max. RPM
30	31,800
40	23,900
50	19,100
65	14,700
70	13,600
76	12,500

Safety notes:

- Observe the maximum rotational speed for the cut-off wheel and arbor – the lower speed takes precedence (see table).



S [mm]	Suitable for cut-off wheels with centre hole [mm]	$T_{max.}$ [mm]	EAN 4007220		Description
6	6	0–4	219119	1	BO 6/6 0-4
	10	0–4	219140	1	BO 6/10 0-4
6.35 (1/4")	6	0–4	219126	1	BO 6,35/6 0-4 (1/4)
	10	0–4	219133	1	BO 6,35/10 0-4 (1/4)
8	10	0–4	219157	1	BO 8/10 0-4

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Cut-off wheels for petrol cutters and cut-off grinders

Performance Line SG ★★★☆

SG STEEL ★★★☆

Cut-off wheel for use on petrol cutters and cut-off grinders with a high cutting performance and very long tool life.

Advantages:
- Fast work progress thanks to high cutting performance.
- Maximum economic efficiency due to very long tool life.

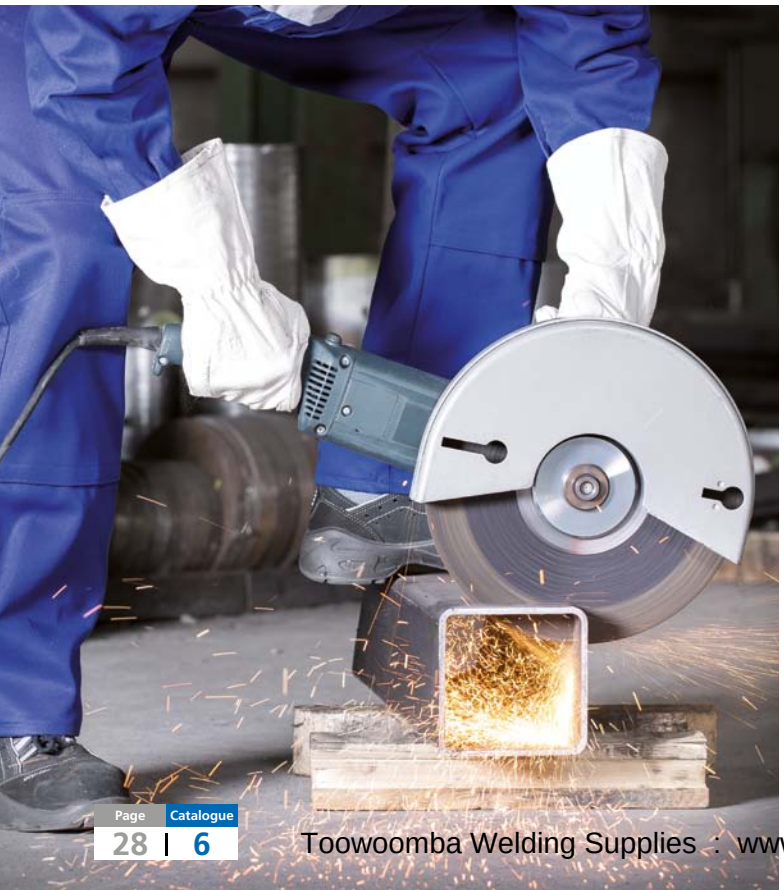
Materials that can be worked:
steel, cast iron

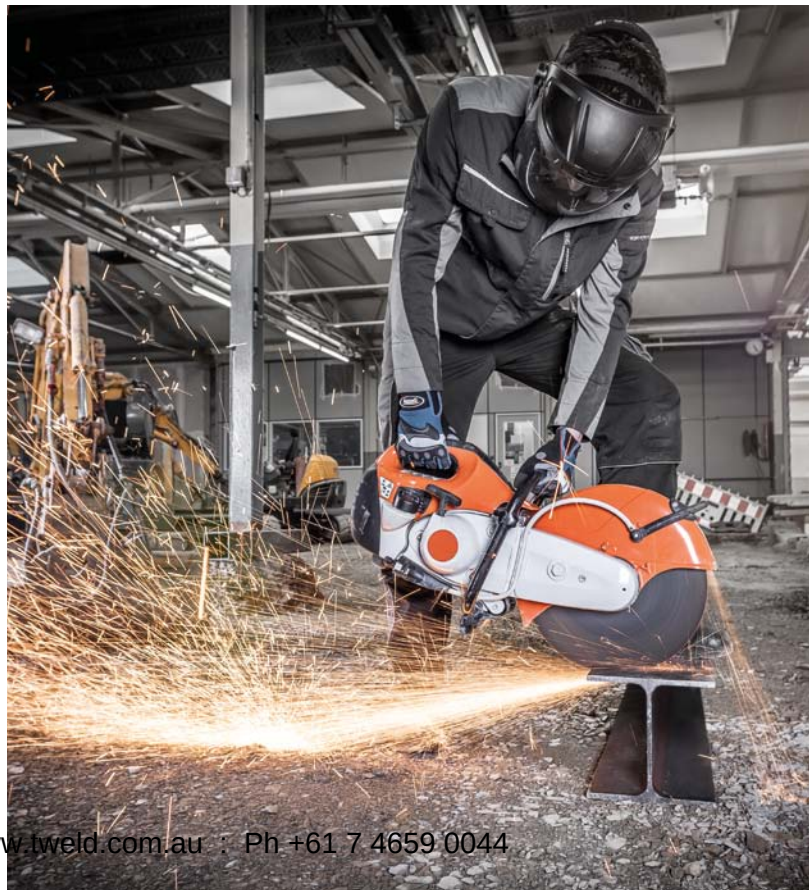
Applications:
cutting

Abrasive:
Special aluminium oxide A

Safety notes:
- Observe the maximum operating speed of the petrol cutter/cut-off grinder to select the suitable cut-off wheel (80 or 100 m/s).

D [mm]	T [mm]	H [mm]	EAN 4007220	Max. RPM		Description
Maximum operating speed 80 m/s, flat type EHT (shape 41)						
300	4.0	20.0	162460	5,100	20	80 EHT 300-4,0 SG STEEL/20,0
		22.23	162477	5,100	20	80 EHT 300-4,0 SG STEEL/22,23
		25.4	162484	5,100	20	80 EHT 300-4,0 SG STEEL/25,4
Maximum operating speed 100 m/s, flat type EHT (shape 41)						
300	4.0	20.0	540008	6,400	20	100 EHT 300-4,0 SG STEEL/20,0
		22.23	540015	6,400	20	100 EHT 300-4,0 SG STEEL/22,23
		25.4	540022	6,400	20	100 EHT 300-4,0 SG STEEL/25,4
350	4.5	20.0	540039	5,500	10	100 EHT 350-4,5 SG STEEL/20,0
		22.23	540046	5,500	10	100 EHT 350-4,5 SG STEEL/22,23
		25.4	540053	5,500	10	100 EHT 350-4,5 SG STEEL/25,4
400	4.8	20.0	953433	4,800	10	100 EHT 400-4,8 SG STEEL/20,0
		22.23	540060	4,800	10	100 EHT 400-4,8 SG STEEL/22,23
		25.4	540077	4,800	10	100 EHT 400-4,8 SG STEEL/25,4





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SG STONE ★★★☆

Cut-off wheel for use on petrol cutters and cut-off grinders with a high cutting performance and very long tool life.

Advantages:
- Fast work progress thanks to high cutting performance.
- Maximum economic efficiency due to very long tool life.

Materials that can be worked:
stone, cast iron, aluminium, other non-ferrous metals, concrete, asphalt

Applications:
cutting

Abrasive:
Silicon carbide C

Safety notes:
- Observe the maximum operating speed of the petrol cutter/cut-off grinder to select the suitable cut-off wheel (80 or 100 m/s).

D [mm]	T [mm]	H [mm]	EAN 4007220	Max. RPM		Description
Maximum operating speed 80 m/s, flat type EHT (shape 41)						
300	4.0	20.0	163177	5,100	20	80 EHT 300-4,0 SG STONE/20,0
		22.23	163184	5,100	20	80 EHT 300-4,0 SG STONE/22,23
		25.4	163191	5,100	20	80 EHT 300-4,0 SG STONE/25,4
Maximum operating speed 100 m/s, flat type EHT (shape 41)						
350	4.5	20.0	540145	5,500	10	100 EHT 350-4,5 SG STONE/20,0
		22.23	540152	5,500	10	100 EHT 350-4,5 SG STONE/22,23
		25.4	540169	5,500	10	100 EHT 350-4,5 SG STONE/25,4

SG CAST + STONE ★★★☆

Cut-off wheel for use on petrol cutters and cut-off grinders with a high cutting performance and very long tool life.

Advantages:
- Fast work progress thanks to high cutting performance.
- Maximum economic efficiency due to very long tool life.

Materials that can be worked:
cast iron, reinforced concrete, ductile cast iron

Applications:
cutting

Abrasive:
Special aluminium oxide A and silicon carbide C

D [mm]	T [mm]	H [mm]	EAN 4007220	Max. RPM		Description
Maximum operating speed 100 m/s, flat type EHT (shape 41)						
300	4.0	20.0	540084	6,400	20	100 EHT 300-4,0 SG CAST+STONE/20,0
		22.23	540091	6,400	20	100 EHT 300-4,0 SG CAST+STONE/22,23
		25.4	540107	6,400	20	100 EHT 300-4,0 SG CAST+STONE/25,4
350	4.5	20.0	540114	5,500	10	100 EHT 350-4,5 SG CAST+STONE/20,0
		22.23	540121	5,500	10	100 EHT 350-4,5 SG CAST+STONE/22,23
		25.4	540138	5,500	10	100 EHT 350-4,5 SG CAST+STONE/25,4

POLIFAN flap discs

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Product group selection

Application	Product line	Steel (STEEL)	Stainless steel (INOX)	Aluminium (ALU)
■ Surface grinding ■ Work on weld seams	Universal Line PSF ★★☆☆	Z PSF STEELOX Page 33 A PSF STEELOX Page 33	Z PSF STEELOX Page 33	
	Performance Line SG ★★★☆	Z SG POWER STEELOX Page 35 A SG STEELOX Page 34	CO-FREEZE SG INOX Page 37 A-COOL SG INOX + ALU Page 34	A-COOL SG INOX + ALU Page 34
	Special Line SGP ★★★★	Z SGP STRONG STEEL Page 38	CO-FREEZE SGP STRONG INOX Page 39	
■ Chamfering ■ Deburring	Universal Line PSF ★★☆☆	Z PSF STEELOX Page 33	Z PSF STEELOX Page 33	
	Performance Line SG ★★★☆	Z SG POWER STEELOX Page 35	CO-COOL SG STEELOX Page 36 Z SG POWER STEELOX Page 35	A-COOL SG INOX + ALU Page 34
	Special Line SGP ★★★★	Z SGP STRONG STEEL Page 38		
■ Work on fillet welds	Special Line SGP ★★★★	Z SGP CURVE STEELOX Page 40	CO SGP CURVE STEELOX Page 41	A SGP CURVE ALU Page 41

Abrasive: A = aluminium oxide, Z = zirconia alumina, CO = ceramic oxide grain
Coatings: COOL = Active grinding coating for cool grinding, FREEZE = Active grinding coating for ultra-cool grinding

Grit size selection

	Grit size			
	36/40	50/60	80	120
Application: Work on weld seams	■			
Application: Chamfering	■			
Application: Deburring		■		
Application: Surface grinding for refining the surface		■		

Note: With POLIFAN flap discs, grit that is one grade coarser can be selected in order to achieve the same surface as with fibre discs.

Shape selection

Shape	Application
Flat type PFF	Larger grinding area for surface grinding. Optimum exploitation of the abrasive flaps at a contact angle of 0–15°.
Conical type PFC	Narrower grinding area for work on weld seams, chamfering and deburring. Optimum exploitation of the abrasive flaps at a contact angle of 10-25°.
Radial type PFR (CURVE)	Specialist for work on fillet welds. After the circumference has worn down, it can still be used as a conventional flap disc.

POLIFAN flap discs
Highlights from the PFERD range

POLIFAN-POWER

For discerning users, the high-performance POLIFAN Z SG POWER flap disc is the first choice worldwide for the machining of steel. The versatile POLIFAN flap disc offers an optimal combination of an outstanding tool life and an extremely high stock removal rate.

Advantages:
- Fast work progress and maximum efficiency thanks to the aggressive stock removal rate.
- Maximum aggressiveness over the entire tool life.
- Fewer tool changes due to the outstanding tool life.

For more information please see page 35.

POLIFAN-STRONG

Users who rely on top performance choose the innovative POLIFAN STRONG flap disc. It noticeably surpasses conventional flap discs and redefines the highest levels of efficiency. Thanks to its patented and unique design, it achieves an unsurpassed stock removal rate. It also has an astonishingly longer tool life than conventional flap discs.

Advantages:
- Fast grinding through constant grinding aggressiveness down to the last abrasive grit.
- Ultimate economic efficiency thanks to maximum stock removal per time unit and less wear on discs.
- Extremely long tool life.

For more information please see page 38–39.

POLIFAN-CURVE

The patented flap disc POLIFAN-CURVE has been specially developed for work on fillet welds. It is the only flap disc in the world that has flaps on both the grinding side and on the rear side, as well as on the radius.

Advantages:
- High stock removal rate ensures fast work progress and therefore significant wage cost savings.
- Precise and optimum grinding of the fillet weld geometry.
- Outstanding tool life when working on fillet welds.

For more information please see page 40–41.

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A PSF STEELOX ★★☆☆

POLIFAN flap disc with high stock removal rate and long tool life.

Advantages:
- Fast work progress and high economic efficiency thanks to the high stock removal rate.
- Long tool life.
- Also ideal for cordless angle grinders.

Abrasive:
Aluminium oxide A

PFERDVALUE:

Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Time Saving

Materials that can be worked:
steel, stainless steel (INOX)

Applications:
surface grinding, weld dressing

D [mm]	Grit size 40	60	80	120	H [mm]	Max. RPM		Description
	EAN 4007220							
Flat type PFF								
115	512388	512395	512401	512418	22.23	13,300	10	PFF 115 A ... PSF STEELOX
125	512425	512432	512449	512456	22.23	12,200	10	PFF 125 A ... PSF STEELOX
180	512463	-	-	-	22.23	8,500	10	PFF 180 A ... PSF STEELOX
Conical type PFC								
115	444559	444566	444573	444580	22.23	13,300	10	PFC 115 A ... PSF STEELOX
125	444603	444610	444627	444634	22.23	12,200	10	PFC 125 A ... PSF STEELOX
180	444689	444696	-	-	22.23	8,500	10	PFC 180 A ... PSF STEELOX

Z PSF STEELOX ★★☆☆

POLIFAN flap disc with aggressive stock removal rate and long tool life.

Advantages:
- Fast work progress and high economic efficiency thanks to the aggressive stock removal rate.
- Long tool life.
- Also suitable for low-power angle grinders.

Abrasive:
Zirconia alumina Z

PFERDVALUE:

Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Time Saving

Materials that can be worked:
steel, stainless steel (INOX)

Applications:
surface grinding, weld dressing, chamfering, deburring

D [mm]	Grit size 40	60	80	120	H [mm]	Max. RPM		Description
	EAN 4007220							
Flat type PFF								
100	750117	750124	750131	-	16.0	15,300	10	PFF 100 Z ... PSF STEELOX/16,0
115	096772	096789	512500	-	22.23	13,300	10	PFF 115 Z ... PSF STEELOX
125	096796	512524	512531	-	22.23	12,200	10	PFF 125 Z ... PSF STEELOX
180	096833	512555	-	-	22.23	8,500	10	PFF 180 Z ... PSF STEELOX
Conical type PFC								
100	953273	953280	953297	953303	16.0	15,300	10	PFC 100 Z ... PSF STEELOX/16,0
115	096307	096383	096390	934203	22.23	13,300	10	PFC 115 Z ... PSF STEELOX
125	096437	096499	096635	934210	22.23	12,200	10	PFC 125 Z ... PSF STEELOX
150	805923	805930	-	-	22.23	10,200	10	PFC 150 Z ... PSF STEELOX
180	096710	096765	934227	934234	22.23	8,500	10	PFC 180 Z ... PSF STEELOX

A SG STEELOX ★★★☆

POLIFAN flap disc with high stock removal rate and very long tool life.

Advantages:
- Fast work progress and high economic efficiency thanks to the high stock removal rate.
- Fewer tool changes due to the very long tool life.

Materials that can be worked:
steel, stainless steel (INOX)

Applications:
surface grinding, weld dressing

Abrasive:
Aluminium oxide A

PFERDVALUE:
Vibration Filter, Noise Filter, Emission Filter, Haptic Filter, Energy Saving, Time Saving

D [mm]	Grit size 40	60	80	120	H [mm]	Max. RPM		Description
	EAN 4007220							
Flat type PFF								
100	262719	262733	262740	262757	16.0	15,300	10	PFF 100 A ... SG STEELOX/16,0
115	167496	167526	167557	167588	22.23	13,300	10	PFF 115 A ... SG STEELOX
125	167502	167533	167564	167595	22.23	12,200	10	PFF 125 A ... SG STEELOX
180	167519	167540	167571	167601	22.23	8,500	10	PFF 180 A ... SG STEELOX
Conical type PFC								
115	167809	167830	167861	167892	22.23	13,300	10	PFC 115 A ... SG STEELOX
125	167816	167847	167878	167908	22.23	12,200	10	PFC 125 A ... SG STEELOX
180	167823	167854	167885	167915	22.23	8,500	10	PFC 180 A ... SG STEELOX

A-COOL SG INOX + ALU ★★★☆

POLIFAN flap disc with particularly cool grinding on materials with poor thermal conduction such as stainless steel (INOX) and aluminium.

Advantages:
- Less heat build-up in the workpiece compared with other flap discs.
- The active grinding abrasive coating prevents clogging, for example on soft aluminium.

Materials that can be worked:
stainless steel (INOX), aluminium, other non-ferrous metals

Applications:
surface grinding, weld dressing, chamfering, deburring

Abrasive:
Aluminium oxide A with active grinding, cooling coating (COOL)

Recommendations for use:
- Use only grit sizes 40 and 60 for aluminium.

PFERDVALUE:
Vibration Filter, Noise Filter, Emission Filter, Haptic Filter, Energy Saving, Time Saving

D [mm]	Grit size 40	60	80	H [mm]	Max. RPM		Description
	EAN 4007220						
Flat type PFF							
100	262764	262771	262788	16.0	15,300	10	PFF 100 A-COOL ... SG INOX+ALU/16,0
115	222737	222744	222751	22.23	13,300	10	PFF 115 A-COOL ... SG INOX+ALU
125	232910	232934	232958	22.23	12,200	10	PFF 125 A-COOL ... SG INOX+ALU
180	222768	232989	233009	22.23	8,500	10	PFF 180 A-COOL ... SG INOX+ALU
Conical type PFC							
115	232880	232897	232903	22.23	13,300	10	PFC 115 A-COOL ... SG INOX+ALU
125	232927	232941	232965	22.23	12,200	10	PFC 125 A-COOL ... SG INOX+ALU
180	232972	232996	233016	22.23	8,500	10	PFC 180 A-COOL ... SG INOX+ALU

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Z SG POWER STEELOX ★★★☆

The flap disc POLIFAN Z SG POWER stands out due to its aggressive stock removal rate and excellent tool life while achieving the highest level of efficiency. It is the best conventional flap disc for steel.

Advantages:
- Fast work progress and maximum economic efficiency thanks to the aggressive stock removal rate.
- Maximum aggressiveness over the entire tool life.
- Fewer tool changes due to the excellent tool life.

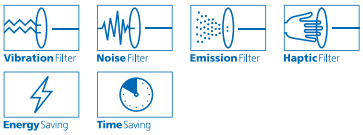
Materials that can be worked:
steel, stainless steel (INOX)

Applications:
weld dressing, chamfering, deburring

Abrasive:
Zirconia alumina Z

Recommendations for use:
- Also suitable for surface grinding on steel.

PFERDVALUE:



D [mm]	Grit size 40	60	80	120	H [mm]	Max. RPM		Description
	EAN 4007220							
Flat type PFF								
115	167618	167649	-	-	22.23	13,300	10	PFF 115 Z ... SG POWER STEELOX
125	167625	167656	-	-	22.23	12,200	10	PFF 125 Z ... SG POWER STEELOX
180	167632	167663	-	-	22.23	8,500	10	PFF 180 Z ... SG POWER STEELOX
Conical type PFC								
115	167922	167953	934241	934258	22.23	13,300	10	PFC 115 Z ... SG POWER STEELOX
125	167939	167960	934265	934272	22.23	12,200	10	PFC 125 Z ... SG POWER STEELOX
150	030363	030394	-	-	22.23	10,200	10	PFC 150 Z ... SG POWER STEELOX
180	167946	167977	-	-	22.23	8,500	10	PFC 180 Z ... SG POWER STEELOX

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POLIFAN flap discs
Performance Line SG ★★★☆

CO-COOL SG STEELOX ★★★☆

POLIFAN flap disc with particularly cool grinding for materials that are difficult to machine such as high-alloy and rust-resistant steel, nickel-based alloys or titanium alloys.

Advantages:
- The self-sharpening action of the ceramic oxide grain guarantees optimal results, even on materials that are difficult to machine.
- Less heat build-up in the workpiece compared with other flap discs.

Materials that can be worked:
steel, mill scale, stainless steel (INOX), nickel-based alloys (e.g. Inconel and Hastelloy), hard aluminium alloys

Applications:
surface grinding, weld dressing, chamfering, deburring

Abrasive:
Ceramic oxide grain CO with active grinding, cooling coating (COOL)

PFERDVALUE:
Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Time Saving

D [mm]	Grit size 40	Grit size 60	H [mm]	Max. RPM		Description
	EAN 4007220					
Flat type PFF						
115	725436	793145	22.23	13,300	10	PFF 115 CO-COOL ... SG STEELOX
125	725450	793152	22.23	12,200	10	PFF 125 CO-COOL ... SG STEELOX
180	725474	-	22.23	8,500	10	PFF 180 CO-COOL ... SG STEELOX
Conical type PFC						
115	725443	793169	22.23	13,300	10	PFC 115 CO-COOL ... SG STEELOX
125	725467	793176	22.23	12,200	10	PFC 125 CO-COOL ... SG STEELOX
180	725481	-	22.23	8,500	10	PFC 180 CO-COOL ... SG STEELOX

You can find POLIVLIES flap discs for fine grinding in catalogue section 4 “Fine grinding and polishing tools”.

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CO-FREEZE SG INOX ★★★☆

POLIFAN flap disc specifically developed for stainless steel (INOX) with ultra-cool grinding. Due to the ceramic oxide grain CO with active grinding and cooling special coating (FREEZE), there is no heat discolouration (even in thermally unfavourable conditions), so no reworking is required.

Advantages:
- The FREEZE coating significantly reduces heat build-up in the workpiece compared with standard flap discs.
- Fast work progress and high economic efficiency thanks to the aggressive stock removal rate.
- Maximum aggressiveness over the entire tool life.
- Fewer tool changes due to the excellent tool life.
- The usual flying sparks are minimized. Damage to stainless steel workpieces from flying glowing sparks is therefore almost entirely ruled out.

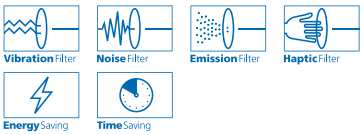
Materials that can be worked:
stainless steel (INOX), nickel-based alloys (e.g. Inconel and Hastelloy)

Applications:
surface grinding, weld dressing

Abrasive:
Ceramic oxide grain CO with active grinding, cooling special coating (FREEZE)

Recommendations for use:
- Even during the first use of the POLIFAN CO-FREEZE SG INOX, the flaps exhibit an exceptional wear pattern after just a few seconds. The highly effective fillers form a shiny cooling film on the flaps (no "vitrification"). This provides the basis for ultra-cool grinding.

PFERDVALUE:



D [mm]	Grit size 36	50	80	H [mm]	Max. RPM		Description
	EAN 4007220						
Flat type PFF							
115	104040	104057	104064	22.23	13,300	10	PFF 115 CO-FREEZE ... SG INOX
125	104071	104088	104095	22.23	12,200	10	PFF 125 CO-FREEZE ... SG INOX
Conical type PFC							
115	104101	104118	104125	22.23	13,300	10	PFC 115 CO-FREEZE ... SG INOX
125	104132	104149	104156	22.23	12,200	10	PFC 125 CO-FREEZE ... SG INOX
180	104163	104170	-	22.23	8,500	10	PFC 180 CO-FREEZE ... SG INOX

CO-FREEZE SG INOX flap disc

Typical wear pattern with the characteristic shiny cooling film (no "vitrification").

Optimum results: no blue discolouration thanks to low thermal load.

Flap disc with conventional abrasive belt

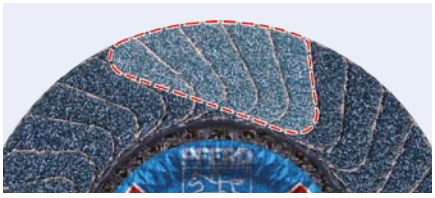
Heat discolouration/oxidation due to high heat build-up. Subsequent fine grinding is required, otherwise there is a high risk of corrosion.

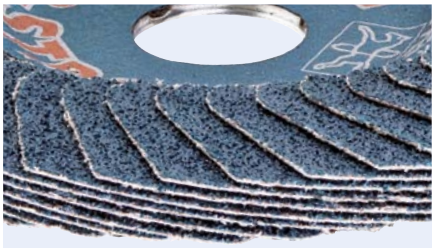
POLIFAN-STRONG STEEL

The innovative POLIFAN-STRONG flap disc is a unique tool with a particularly high performance level. Due to its patented design, it offers significantly higher efficiency compared to conventional flap discs.

Advantages:

- Fast grinding through constant grinding aggressiveness down to the last abrasive grit.
- Ultimate economic efficiency thanks to maximum stock removal per time unit and less wear on discs.
- Extremely long tool life.





Long, compactly arranged flaps

Z SGP STRONG STEEL ★★★★

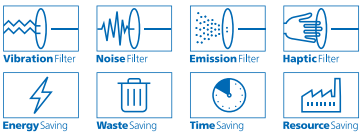
Materials that can be worked:
steel

Applications:
weld dressing, chamfering, deburring

Abrasive:
Zirconia alumina Z

Recommendations for use:
- Grit size 36 is ideal for a high stock removal rate, e.g. during work on weld seams.
- Grit size 50 is ideal for work on edges, e.g. chamfering or for producing a fine finish.

PFERDVALUE:



D [mm]	Grit size 36	Grit size 50	H [mm]	Max. RPM		Description
	EAN 4007220					
Conical type PFC						
115	777862	777879	22.23	13,300	10	PFC 115 Z ... SGP STRONG STEEL
125	777886	777893	22.23	12,200	10	PFC 125 Z ... SGP STRONG STEEL
180	827468	827482	22.23	8,500	10	PFC 180 Z ... SGP STRONG STEEL

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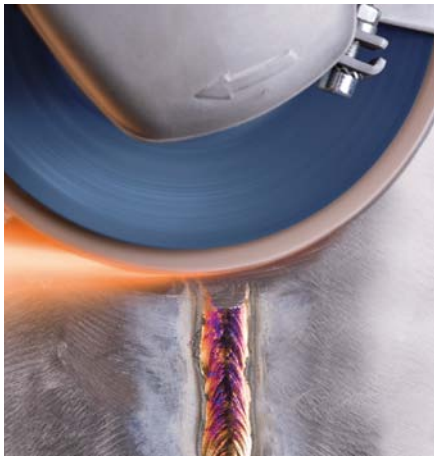
POLIFAN-STRONG INOX

Special POLIFAN flap disc combining the patented STRONG design and its long, compact flaps with an innovative abrasive. Due to the ceramic oxide grain CO with active grinding and cooling special coating (FREEZE), there is no heat discolouration (even in thermally unfavourable conditions), so no reworking is required.



Advantages:

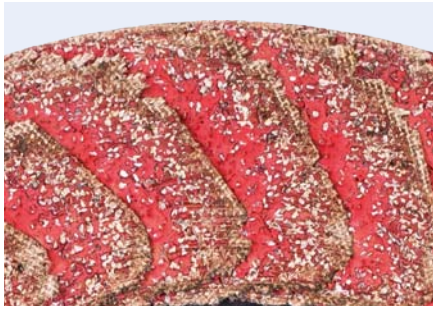
- The self-sharpening action of the ceramic oxide grain, together with the active grinding FREEZE special coating, enables ultra-cool grinding and minimizes heat build-up on materials which do not conduct heat well, such as stainless steel (INOX).
- The usual flying sparks are minimized. Damage to stainless steel workpieces from flying glowing sparks is therefore almost entirely ruled out.

Special features:

Even during the first use of the POLIFAN-STRONG INOX, the flaps exhibit an exceptional wear pattern after just a few seconds. The highly effective fillers form a shiny cooling film on the flaps (no "vitrification"). This provides the basis for ultra-cool grinding.

POLIFAN-STRONG INOX flap disc

Typical wear pattern with the characteristic shiny cooling film (no "vitrification").



Optimum results: no blue discolouration thanks to low thermal load.

Conventional flap disc

Heat discolouration/oxidation due to high heat build-up. Subsequent fine grinding is required, otherwise there is a high risk of corrosion.

CO-FREEZE SGP STRONG INOX ★★★★

Materials that can be worked:
stainless steel (INOX), nickel-based alloys (e.g. Inconel and Hastelloy), cobalt-based alloys

Applications:
surface grinding, weld dressing

Abrasive:
Ceramic oxide grain CO with active grinding, cooling special coating (FREEZE)

Recommendations for use:
- Grit size 36 is ideal for a high stock removal rate, e.g. during work on weld seams.
- Grit size 50 is ideal for producing a fine finish.

PFERDVALUE:

Vibration Filter · Noise Filter · Emission Filter · Haptic Filter
Energy Saving · Waste Saving · Time Saving · Resource Saving

D [mm]	Grit size 36	Grit size 50	H [mm]	Max. RPM		Description
	EAN 4007220					
Conical type PFC						
115	835296	835302	22.23	13,300	10	PFC 115 CO-FREEZE ... SGP STRONG INOX
125	835319	835326	22.23	12,200	10	PFC 125 CO-FREEZE ... SGP STRONG INOX

POLIFAN-CURVE

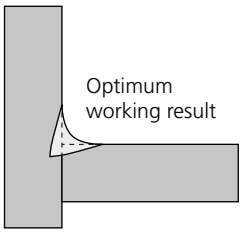
The patented flap disc POLIFAN-CURVE has been specially developed for work on fillet welds. It is the only flap disc in the world that has flaps on both the grinding side and on the rear side, as well as on the radius.

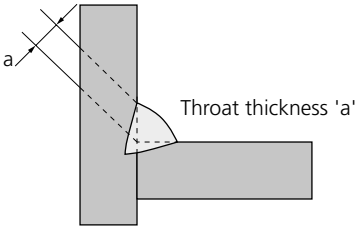
Advantages:

- High stock removal rate ensures fast work progress and therefore significant wage cost savings.
- Outstanding tool life when working on fillet welds.
- Precise and optimum grinding of the fillet weld geometry.

Recommendations for use:

- Type M:
  For fillet weld radii > 5 mm or throat thickness ≤ 6 mm with 90° joint, width at the radius: 11 mm or 14 mm with diameter 150 mm.
- Type L:
  For fillet weld radii > 8 mm or throat thickness > 6 mm with 90° joint, width at the radius: 14 mm or 16 mm with diameter 150/180 mm.





Z SGP CURVE STEELOX ★★★★

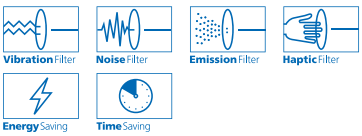
High-performance flap disc for maximum stock removal on steel and stainless steel (INOX).

Materials that can be worked:
steel, stainless steel (INOX)

Applications:
work on fillet welds, weld dressing, chamfering, deburring

Abrasive:
Zirconia alumina Z

PFERDVALUE:



D [mm]	Fillet weld radius	Grit size 40 EAN 4007220	Width	H [mm]	Max. RPM		Description
Radial type PFR							
115	> 5 mm	821671	M (11 mm)	22.23	13,300	10	PFR 115-M Z 40 SGP CURVE STEELOX
	> 8 mm	821695	L (14 mm)	22.23	13,300	10	PFR 115-L Z 40 SGP CURVE STEELOX
125	> 5 mm	790151	M (11 mm)	22.23	12,200	10	PFR 125-M Z 40 SGP CURVE STEELOX
	> 8 mm	790175	L (14 mm)	22.23	12,200	10	PFR 125-L Z 40 SGP CURVE STEELOX
150	> 5 mm	844939	M (14 mm)	22.23	10,200	10	PFR 150-M Z 40 SGP CURVE STEELOX
	> 8 mm	844946	L (16 mm)	22.23	10,200	10	PFR 150-L Z 40 SGP CURVE STEELOX
180	> 8 mm	881248	L (16 mm)	22.23	8,500	10	PFR 180-L Z 40 SGP CURVE STEELOX

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CO SGP CURVE STEELOX ★★★★

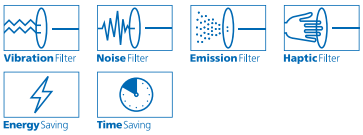
High-performance flap disc for achieving fine finishes on steel and stainless steel (INOX).

Materials that can be worked:
stainless steel (INOX), steel

Applications:
work on fillet welds, weld dressing, chamfering, deburring

Abrasive:
Ceramic oxide grain CO with active grinding, cooling coating

PFERDVALUE:



D [mm]	Fillet weld radius	Grit size 60 EAN 4007220	Width	H [mm]	Max. RPM		Description
Radial type PFR							
115	> 5 mm	827444	M (11 mm)	22.23	13,300	10	PFR 115-M CO 60 SGP CURVE STEELOX
	> 8 mm	827451	L (14 mm)	22.23	13,300	10	PFR 115-L CO 60 SGP CURVE STEELOX
125	> 5 mm	790168	M (11 mm)	22.23	12,200	10	PFR 125-M CO 60 SGP CURVE STEELOX
	> 8 mm	790182	L (14 mm)	22.23	12,200	10	PFR 125-L CO 60 SGP CURVE STEELOX

A SGP CURVE ALU ★★★★

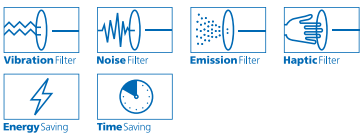
Special flap disc for work on fillet welds on aluminium.

Materials that can be worked:
aluminium, other non-ferrous metals

Applications:
work on fillet welds, weld dressing, chamfering, deburring

Abrasive:
Aluminium oxide A with active grinding, cooling coating

PFERDVALUE:



D [mm]	Fillet weld radius	Grit size 40 EAN 4007220	Width	H [mm]	Max. RPM		Description
Radial type PFR							
115	> 8 mm	851968	L (14 mm)	22.23	13,300	10	PFR 115-L A 40 SGP CURVE ALU
125	> 8 mm	851975	L (14 mm)	22.23	12,200	10	PFR 125-L A 40 SGP CURVE ALU

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CC-GRIND grinding discs

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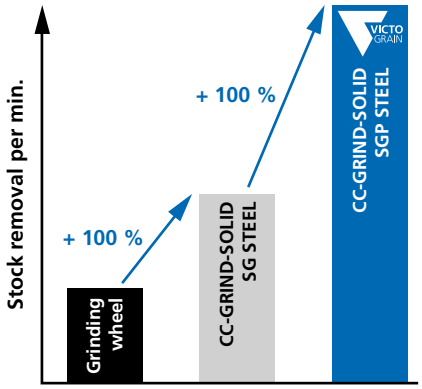
CC-GRIND-SOLID

With the CC-GRIND-SOLID, PFERD offers a modern, high-performance and ergonomic alternative to conventional grinding wheels.

Advantages:
- The fastest work progress due to highly aggressive abrasive.
- Significantly more ergonomic than a conventional grinding wheel: noise and vibrations are reduced by 50 %, dust by 80 %.
- Layered structure of the glass fibre backing pad guarantees use that is just as durable and safe as with a conventional grinding wheel.
- Clearly superior surface compared to conventional grinding wheels.

For more information please see page 45 (SG ★★★☆) and 49 (SGP ★★★★).



CC-GRIND-FLEX

The CC-GRIND-FLEX is the semi-flexible addition to the CC-GRIND-SOLID. It was specially developed for work on weld seams. Butt welds can be smoothed completely flat. This gets rid of any dents and bumps that are visible, particularly after painting or varnishing.

Advantages:
- The fastest work progress due to highly aggressive abrasive.
- Significantly more ergonomic than a conventional grinding wheel: noise and vibrations are reduced by 50 %, dust by 80 %.
- Layered structure of the glass fibre backing pad guarantees use that is just as durable and safe as with a conventional grinding wheel.
- Complete smoothing of butt welds – without dents or bumps.
- Clearly superior surface compared to conventional grinding wheels.

For more information please see page 46 (SG ★★★☆) and 50 (SGP ★★★★).

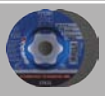
CC-GRIND-STRONG

The CC-GRIND-STRONG is the stepping stone between the classic conventional grinding wheel (the backing pad also grinds) and the modern alternative CC-GRIND-SOLID (fast, ergonomic grinding).

Advantages:
- Three times the tool life compared to CC-GRIND-SOLID SG STEEL due to backing pad that also grinds and three abrasive layers that can be worked through one by one.
- The fastest work progress due to highly aggressive abrasive.
- Significantly more ergonomic than a conventional grinding wheel: noise and vibrations are reduced by 50 %, dust by 70 %.
- Clearly superior surface compared to conventional grinding wheels.

For more information please see page 47.

Product group selection

Application	Product line	Steel (STEEL)			Stainless steel (INOX)
		...-SOLID	...-FLEX	...-STRONG	...-SOLID
■ Surface grinding ■ Levelling ■ Work on weld seams ■ Chamfering ■ Deburring	**Performance Line SG** ★★★☆	 CC-GRIND-SOLID SG STEEL Page 45		 CC-GRIND-STRONG SG STEEL Page 47	 CC-GRIND-SOLID SG INOX Page 45
	Special Line SGP ★★★★	 CC-GRIND-SOLID SGP STEEL Page 49			 CC-GRIND-SOLID SGP INOX Page 49
■ Levelling butt welds	**Performance Line SG** ★★★☆		 CC-GRIND-FLEX SG STEEL Page 46		
	Special Line SGP ★★★★		 CC-GRIND-FLEX SGP STEEL Page 50		

The CC-GRIND-SOLID-DIAMOND can be found in catalogue section 5.

The CERAMIC COMFORT grinding wheel can be found on page 56.

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CC-GRIND-SOLID SG STEEL ★★★☆

Materials that can be worked:
steel

Applications:
surface grinding, weld dressing, chamfering, deburring

Recommendations for use:
- For optimum results, use with a flat contact angle and the SFS CC-GRIND clamping flange set.
- Only use the face of the disc, not suitable for peripheral grinding.

Ordering notes:
- Please order clamping flange set SFS separately.

PFERDVALUE:

Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Time Saving

D [mm]	EAN 4007220	H [mm]	Max. RPM		Description
SOLID					
100	919682	16.0	15,300	10	CC-GRIND-SOLID 100 SG STEEL/16,0
115	887059	22.23	13,300	10	CC-GRIND-SOLID 115 SG STEEL
125	887073	22.23	12,200	10	CC-GRIND-SOLID 125 SG STEEL
150	952894	22.23	10,200	10	CC-GRIND-SOLID 150 SG STEEL
180	887080	22.23	8,500	10	CC-GRIND-SOLID 180 SG STEEL

CC-GRIND-SOLID SG INOX ★★★☆

Materials that can be worked:
stainless steel (INOX)

Applications:
weld dressing, chamfering, deburring

Recommendations for use:
- For optimum results, use with a flat contact angle and the SFS CC-GRIND clamping flange set.
- Only use the face of the disc, not suitable for peripheral grinding.

Ordering notes:
- Please order clamping flange set SFS separately.

PFERDVALUE:

Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Time Saving

D [mm]	EAN 4007220	H [mm]	Max. RPM		Description
SOLID					
115	900895	22.23	13,300	10	CC-GRIND-SOLID 115 SG INOX
125	900901	22.23	12,200	10	CC-GRIND-SOLID 125 SG INOX
180	900918	22.23	8,500	10	CC-GRIND-SOLID 180 SG INOX

CC-GRIND clamping flange set

The CC-GRIND clamping flange set optimally aligns the CC-GRIND-SOLID and -FLEX in the angle grinder protective guard. This allows a very flat contact angle and thus maximum efficiency.

The black backing pad is placed on the original mounting flange of the angle grinder. The silver flange nut replaces the original flange nut.

Suitable for angle grinders	EAN 4007220		Description
Metric			
100 mm, M10 spindle	932209	1	SFS CC-GRIND 100 M10
115 / 125 mm, M14 spindle	887578	1	SFS CC-GRIND 115/125 M14
150 / 180 mm, M14 spindle	887585	1	SFS CC-GRIND 150/180 M14
Imperial			
115 / 125 mm, 5/8"-11 spindle	887592	1	SFS CC-GRIND 115/125 5/8"
150 / 180 mm, 5/8"-11 spindle	887608	1	SFS CC-GRIND 150/180 5/8"

CC-GRIND grinding discs
Performance Line SG ★★★☆

CC-GRIND-FLEX SG STEEL ★★★☆

Materials that can be worked:
steel

Applications:
weld dressing, surface grinding

Recommendations for use:
- For optimum results, use with a flat contact angle and the SFS CC-GRIND clamping flange set.
- Only use the face of the disc, not suitable for peripheral grinding.

Ordering notes:
- Please order clamping flange set SFS separately.

PFERDVALUE:
Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Time Saving

D [mm]	Grit size FINE	Grit size COARSE	H [mm]	Max. RPM		Description
	EAN 4007220					
FLEX						
115	032800	032824	22.23	13,300	10	CC-GRIND-FLEX 115 ... SG STEEL
125	032817	032831	22.23	12,200	10	CC-GRIND-FLEX 125 ... SG STEEL

CC-GRIND clamping flange set

The CC-GRIND clamping flange set optimally aligns the CC-GRIND-SOLID and -FLEX in the angle grinder protective guard. This allows a very flat contact angle and thus maximum efficiency.

The black backing pad is placed on the original mounting flange of the angle grinder. The silver flange nut replaces the original flange nut.

Suitable for angle grinders	EAN 4007220		Description
Metric			
115 / 125 mm, M14 spindle	887578	1	SFS CC-GRIND 115/125 M14
Imperial			
115 / 125 mm, 5/8"-11 spindle	887592	1	SFS CC-GRIND 115/125 5/8"

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CC-GRIND-STRONG

The CC-GRIND-STRONG is the stepping stone between the classic grinding wheel (the backing pad also grinds) and the modern alternative CC-GRIND-SOLID (fast, ergonomic grinding).

Advantages:

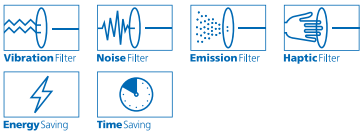
- Three times the tool life compared to CC-GRIND-SOLID SG STEEL due to backing pad that also grinds and three abrasive layers that can be worked through one by one.
- The fastest work progress due to highly aggressive abrasive.
- Significantly more ergonomic than a conventional grinding wheel: noise and vibrations are reduced by 50 %, dust by 70 %.
- Clearly superior surface compared to conventional grinding wheels.

CC-GRIND-STRONG SG STEEL ★★★☆

Materials that can be worked:
steel, scale

Applications:
surface grinding, weld dressing, chamfering, deburring

PFERDVALUE:



D [mm]	EAN 4007220	H [mm]	Max. RPM		Description
STRONG					
115	104477	22.23	13,300	10	CC-GRIND-STRONG 115 SG STEEL
125	104484	22.23	12,200	10	CC-GRIND-STRONG 125 SG STEEL

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High-performance tools with VICTOGRAIN abrasive grain

VICTOGRAIN products are some of the most effective grinding tools in the world.
PFERD's triangular, precision-formed abrasive grain achieves uniquely high abrasive performance.

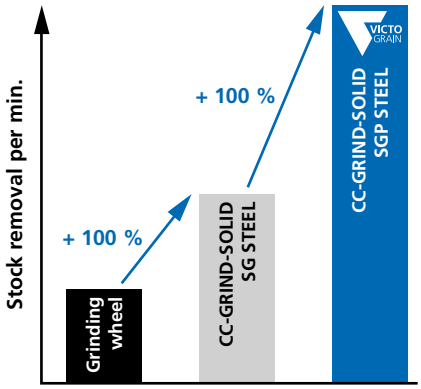
The **VICTO**GRAIN abrasive grain triangles are identical in shape and size and their cutting edges are applied to the workpiece at the optimum angle, meaning the grain needs very little energy to penetrate the workpiece. As such, the user benefits from an efficient machining process with
- fast working,
- a long tool life,
- less heat build-up in the workpiece, and
- a lower power output required for the tool drive.

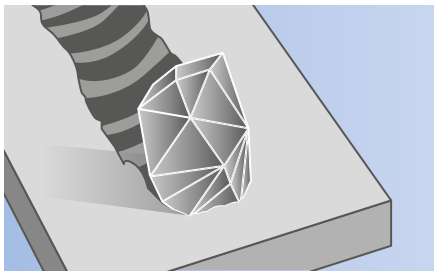
The **VICTO**GRAIN abrasive grain triangles are fixed to the substrate on one of their sides. This means they are securely fixed in place and, together with their slim design, offer an extremely large chip space in order to further improve machining efficiency.

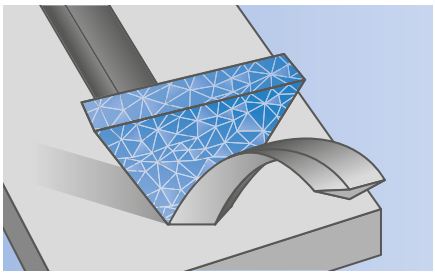
The structure of the triangular **VICTO**GRAIN has also been specially adapted to maximize results. The very small crystals inside the triangles ensure optimal wear characteristics as sharp cutting edges are always exposed, but only the minimum amount of abrasive grain/the triangle breaks off.

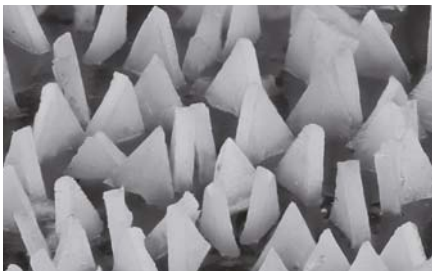
By combining all these properties together, users benefit from optimal, constant performance during cool grinding and an extremely long tool life together with consistent workpiece surface roughness.

The **VICTO**GRAIN products, CC-GRIND-SOLID SGP and CC-GRIND-FLEX SGP, unite the best available abrasive with innovative, state-of-the-art PFERD tool designs:
- Providing the ultimate in aggressive performance for super-fast working.
- Although the **VICTO**GRAIN tools only come with a single coating of abrasive grit, they offer an outstanding tool life which exceeds that of conventional grinding wheels and many flap discs.
- Significantly more ergonomic than a conventional grinding wheel: noise and vibrations are reduced by 50 %, dust by 80 %.
- The layered structure of the glass fibre backing pad guarantees that it is just as durable and safe to use as a conventional grinding wheel.
- Clearly superior surface compared to conventional grinding wheels.




Conventional abrasive grit


VICTOGRAIN abrasive grit


The **VICTO**GRAIN abrasive grit is optimally aligned

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CC-GRIND-SOLID SGP STEEL ★★★★

Materials that can be worked:
steel

Applications:
surface grinding, weld dressing, chamfering, deburring

Recommendations for use:
- For optimum results, use with a flat contact angle and the SFS CC-GRIND clamping flange set.
- Only use the face of the disc, not suitable for peripheral grinding.

Ordering notes:
- Please order clamping flange set SFS separately.

PFERDVALUE:

Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Waste Saving · Time Saving · Resource Saving

D [mm]	EAN 4007220	H [mm]	Max. RPM		Description
SOLID					
100	104965	16.0	15,300	10	CC-GRIND-SOLID 100 SGP STEEL/16,0
115	104972	22.23	13,300	10	CC-GRIND-SOLID 115 SGP STEEL
125	104989	22.23	12,200	10	CC-GRIND-SOLID 125 SGP STEEL
150	104996	22.23	10,200	10	CC-GRIND-SOLID 150 SGP STEEL
180	105009	22.23	8,500	10	CC-GRIND-SOLID 180 SGP STEEL

CC-GRIND-SOLID SGP INOX ★★★★

Materials that can be worked:
stainless steel (INOX)

Applications:
weld dressing, chamfering, deburring

Recommendations for use:
- For optimum results, use with a flat contact angle and the SFS CC-GRIND clamping flange set.
- Only use the face of the disc, not suitable for peripheral grinding.

Ordering notes:
- Please order clamping flange set SFS separately.

PFERDVALUE:

Vibration Filter · Noise Filter · Emission Filter · Haptic Filter · Energy Saving · Waste Saving · Time Saving · Resource Saving

D [mm]	EAN 4007220	H [mm]	Max. RPM		Description
SOLID					
115	105016	22.23	13,300	10	CC-GRIND-SOLID 115 SGP INOX
125	105023	22.23	12,200	10	CC-GRIND-SOLID 125 SGP INOX
180	105030	22.23	8,500	10	CC-GRIND-SOLID 180 SGP INOX

CC-GRIND clamping flange set

The CC-GRIND clamping flange set optimally aligns the CC-GRIND-SOLID and -FLEX in the angle grinder protective guard. This allows a very flat contact angle and thus maximum efficiency.

The black backing pad is placed on the original mounting flange of the angle grinder. The silver flange nut replaces the original flange nut.

Suitable for angle grinders	EAN 4007220		Description
Metric			
100 mm, M10 spindle	932209	1	SFS CC-GRIND 100 M10
115 / 125 mm, M14 spindle	887578	1	SFS CC-GRIND 115/125 M14
150 / 180 mm, M14 spindle	887585	1	SFS CC-GRIND 150/180 M14
Imperial			
115 / 125 mm, 5/8"-11 spindle	887592	1	SFS CC-GRIND 115/125 5/8"
150 / 180 mm, 5/8"-11 spindle	887608	1	SFS CC-GRIND 150/180 5/8"

CC-GRIND grinding discs
Special Line SGP ★★★★

CC-GRIND-FLEX SGP STEEL ★★★★

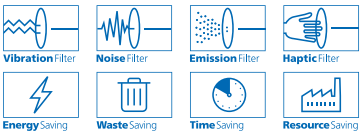
Materials that can be worked:
steel

Applications:
weld dressing, surface grinding

Recommendations for use:
- For optimum results, use with a flat contact angle and the SFS CC-GRIND clamping flange set.
- Only use the face of the disc, not suitable for peripheral grinding.

Ordering notes:
- Please order clamping flange set SFS separately.

PFERDVALUE:



D [mm]	Grit size COARSE EAN 4007220	H [mm]	Max. RPM		Description
FLEX					
115	105047	22.23	13,300	10	CC-GRIND-FLEX 115 COARSE SGP STEEL
125	105054	22.23	12,200	10	CC-GRIND-FLEX 125 COARSE SGP STEEL

CC-GRIND clamping flange set

The CC-GRIND clamping flange set optimally aligns the CC-GRIND-SOLID and -FLEX in the angle grinder protective guard. This allows a very flat contact angle and thus maximum efficiency.

The black backing pad is placed on the original mounting flange of the angle grinder. The silver flange nut replaces the original flange nut.

Suitable for angle grinders	EAN 4007220		Description
Metric			
115 / 125 mm, M14 spindle	887578	1	SFS CC-GRIND 115/125 M14
Imperial			
115 / 125 mm, 5/8"-11 spindle	887592	1	SFS CC-GRIND 115/125 5/8"

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Product group selection

Application	Product line	Steel (STEEL)			Stainless steel (INOX)		Aluminium (ALU)	Cast iron (CAST)
■ Surface grinding ■ Work on weld seams ■ Chamfering ■ Deburring ■ Fillet weld grinding ■ Root seam processing ■ Grouting	Universal Line PSF ★★☆☆	PSF STEEL Page 53	PSF STEELOX Page 53		PSF STEELOX Page 53			
	Performance Line SG ★★★☆	SG STEEL Page 54	CERAMIC SG COMFORT STEEL Page 56		SG INOX Page 55		SG ALU Page 55	Foundry grinding wheels from page 60
	Special Line SGP ★★★★	CERAMIC SGP STEELOX Page 59	ZIRKON SGP STEEL Page 58	WHISPER SGP STEELOX Page 57	CERAMIC SGP STEELOX Page 59	WHISPER SGP STEELOX Page 57		

CC-GRIND grinding discs can be found on page 44.

The DUODISC combination wheels for cutting and deburring can be found on page 15.

The DUODISC combination wheels for cutting and deburring grey/nodular cast iron can be found on page 25.

Cup wheels can be found on page 62.

Snagging wheels can be found on page 63.

CERAMIC SGP STEELOX grinding wheel

High-performance grinding wheel with ceramic oxide grain for quick and economical grinding.

Advantages:
- Ultimate aggressiveness and outstanding tool life due to the self-sharpening effect of the high-performance abrasive ceramic oxide grain in connection with a special bond technology.
- Labour cost savings due to much faster work progress compared to conventional grinding wheels.
- Labour-saving work.

For more information please see page 59.

CERAMIC SG COMFORT STEEL grinding wheel

The CERAMIC SG COMFORT is a hybrid grinding wheel for steel. It combines a layer of coated abrasives and a classic grinding wheel.

Advantages:
- Due to the combination of an abrasive layer with optimally oriented grit and a grinding wheel with a high grinding performance, the CERAMIC SG COMFORT offers very fast work progress and maximum economic efficiency
- Fewer tool changes due to very long tool life.
- No use restrictions – can also be used on the circumference.
- Significantly lower noise emissions and less vibration than with conventional grinding wheels.

For more information please see page 56.

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PSF STEEL ★★☆☆

Grinding wheel with high grinding performance and long tool life.

Advantages:
- Fast work progress and high economic efficiency thanks to the high grinding performance.
- Long tool life.
- Also suitable for low-power angle grinders. Soft grinding characteristics, achieves particularly high stock removal rates even at low contact pressure.

Materials that can be worked:
steel, cast iron

Applications:
surface grinding, weld dressing, work on fillet welds, grouting, chamfering, deburring

Abrasive:
Aluminium oxide A

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
100	6.3	653944	16.0	15,300	10	E 100-6 PSF STEEL/16,0
115	7.2	470510	22.23	13,300	10	E 115-7 PSF STEEL
125	7.2	471142	22.23	12,200	10	E 125-7 PSF STEEL
150	7.2	952726	22.23	10,200	10	E 150-7 PSF STEEL
180	7.2	470527	22.23	8,500	10	E 180-7 PSF STEEL
	8.3	470534	22.23	8,500	10	E 180-8 PSF STEEL
230	7.2	470541	22.23	6,600	10	E 230-7 PSF STEEL
	8.3	470558	22.23	6,600	10	E 230-8 PSF STEEL

PSF STEELOX ★★☆☆

Grinding wheel for steel and stainless steel (INOX) with high grinding performance and long tool life.

Advantages:
- Universally suitable for steel and stainless steel (INOX).
- Fast work progress and high economic efficiency thanks to the high grinding performance.
- Long tool life.
- Also suitable for low-power angle grinders. Soft grinding characteristics, achieves particularly high stock removal rates even at low contact pressure.

Materials that can be worked:
steel, stainless steel (INOX)

Applications:
surface grinding, weld dressing, work on fillet welds, grouting, chamfering, deburring

Abrasive:
Aluminium oxide A

Recommendations for use:
- Widths of 4.1 and 4.6 mm are ideal for work on root seams.

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
100	6.3	643273	16.0	15,300	10	E 100-6 PSF STEELOX/16,0
115	4.1	640869	22.23	13,300	10	E 115-4,1 PSF STEELOX
	7.2	640852	22.23	13,300	10	E 115-7 PSF STEELOX
125	4.1	643068	22.23	12,200	10	E 125-4,1 PSF STEELOX
	7.2	640883	22.23	12,200	10	E 125-7 PSF STEELOX
150	4.1	807774	22.23	10,200	10	E 150-4,1 PSF STEELOX
	7.2	641002	22.23	10,200	10	E 150-7 PSF STEELOX
180	4.1	640753	22.23	8,500	10	E 180-4,1 PSF STEELOX
	4.6	807781	22.23	8,500	10	E 180-4,6 PSF STEELOX
	7.2	640999	22.23	8,500	10	E 180-7 PSF STEELOX
	8.3	470589	22.23	8,500	10	E 180-8 PSF STEELOX
230	7.2	640951	22.23	6,600	10	E 230-7 PSF STEELOX
	8.3	470602	22.23	6,600	10	E 230-8 PSF STEELOX

SG STEEL ★★★☆

Grinding wheel for steel with high grinding performance and very long tool life.

Advantages:
- Fast work progress and maximum economic efficiency thanks to the high grinding performance.
- Fewer tool changes due to the very long tool life.

Materials that can be worked:
steel

Applications:
surface grinding, weld dressing, work on fillet welds, grouting, chamfering, deburring

Abrasive:
Special aluminium oxide A

Recommendations for use:
- Width of 4.1 mm is ideal for work on root seams.

D [mm]	U [mm]	EAN 4007220	*	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)							
70	6.3	471067	*	10.0	21,800	10	E 70-6 SG STEEL/10,0
76	6.3	471081	*	10.0	20,200	10	E 76-6 SG STEEL/10,0
100	4.1	471104	-	16.0	15,300	10	E 100-4,1 SG STEEL/16,0
	6.3	471111	-	16.0	15,300	10	E 100-6 SG STEEL/16,0
115	4.1	640845	-	22.23	13,300	10	E 115-4,1 SG STEEL
	7.2	468944	-	22.23	13,300	10	E 115-7 SG STEEL
125	4.1	457696	-	22.23	12,200	10	E 125-4,1 SG STEEL
	7.2	468951	-	22.23	12,200	10	E 125-7 SG STEEL
150	4.1	529225	-	22.23	10,200	10	E 150-4,1 SG STEEL
	7.2	640791	-	22.23	10,200	10	E 150-7 SG STEEL
180	4.1	478752	-	22.23	8,500	10	E 180-4,1 SG STEEL
	7.2	470145	-	22.23	8,500	10	E 180-7 SG STEEL
	8.3	470152	-	22.23	8,500	10	E 180-8 SG STEEL
230	7.2	470169	-	22.23	6,600	10	E 230-7 SG STEEL
	8.3	470176	-	22.23	6,600	10	E 230-8 SG STEEL

* Also suitable for stainless steel (INOX).

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SG INOX ★★★☆

Grinding wheel for stainless steel (INOX) with high grinding performance and very long tool life.

Advantages:
- Soft grinding characteristics for cool grinding on stainless steel (INOX).
- Fast work progress and maximum economic efficiency thanks to the high grinding performance.
- Fewer tool changes due to the very long tool life.

Materials that can be worked:
stainless steel (INOX)

Applications:
surface grinding, weld dressing, work on fillet welds, grouting, chamfering, deburring

Abrasive:
Special aluminium oxide A

Recommendations for use:
- Widths of 4.1 and 5.2 mm are ideal for work on root seams.

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
115	4.1	457627	22.23	13,300	10	E 115-4,1 SG INOX
	7.2	470244	22.23	13,300	10	E 115-7 SG INOX
125	4.1	457689	22.23	12,200	10	E 125-4,1 SG INOX
	5.2	520079	22.23	12,200	10	E 125-5,2 SG INOX
	7.2	470251	22.23	12,200	10	E 125-7 SG INOX
150	7.2	332245	22.23	10,200	10	E 150-7 SG INOX
180	4.1	475287	22.23	8,500	10	E 180-4,1 SG INOX
	7.2	470398	22.23	8,500	10	E 180-7 SG INOX
	8.3	470404	22.23	8,500	10	E 180-8 SG INOX
230	7.2	470411	22.23	6,600	10	E 230-7 SG INOX
	8.3	470428	22.23	6,600	10	E 230-8 SG INOX

SG ALU ★★★☆

Grinding wheel for aluminium and other non-ferrous metals with high grinding performance and very long tool life.

Advantages:
- Operates without the grinding wheel clogging, even on soft, lubricating materials.
- Fast work progress and maximum economic efficiency thanks to the high grinding performance.
- Fewer tool changes due to the very long tool life.
- Contains no fillers that could leave undesirable residues on the workpiece. The surface can therefore be welded immediately.

Materials that can be worked:
aluminium, other non-ferrous metals

Applications:
surface grinding, weld dressing, work on fillet welds, grouting, chamfering, deburring

Abrasive:
Special aluminium oxide A and silicon carbide C

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
115	7.2	475393	22.23	13,300	10	E 115-7 SG ALU
125	7.2	475409	22.23	12,200	10	E 125-7 SG ALU
150	7.2	952832	22.23	10,200	10	E 150-7 SG ALU
180	7.2	475416	22.23	8,500	10	E 180-7 SG ALU
230	7.2	617793	22.23	6,600	10	E 230-7 SG ALU

CERAMIC COMFORT

The CERAMIC SG COMFORT is a hybrid grinding wheel for steel. It combines a layer of coated abrasives and a classic grinding wheel.

Advantages:

- Due to the combination of an abrasive layer with optimally arranged grit and a grinding wheel with a high grinding performance, the CERAMIC SG COMFORT offers very fast work progress and maximum economic efficiency.
- Fewer tool changes due to very long tool life.
- No use restrictions – can also be used on the circumference.
- Significantly lower noise emissions and less vibration than with conventional grinding wheels.

CERAMIC SG COMFORT STEEL ★★★☆

Materials that can be worked:
steel

Applications:
surface grinding, weld dressing, chamfering, deburring

Abrasive:
Ceramic oxide grain CO and special aluminium oxide A

PFERDVALUE:

Vibration Filter · Noise Filter · Haptic Filter · Energy Saving · Time Saving

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
115	7.6	104491	22.23	13,300	10	E 115-7 CERAMIC SG COMFORT STEEL
125	7.6	104507	22.23	12,200	10	E 125-7 CERAMIC SG COMFORT STEEL

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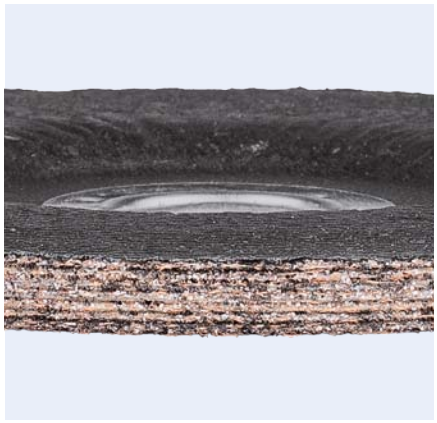
WHISPER

Due to its patented multi-layer design, the WHISPER grinding wheel generates significantly less vibration and substantially less noise than conventional grinding wheels. The noise exposure is decreased by up to 12 dB(A), which corresponds to a reduction of more than 90 %.

Furthermore, the flexible tool structure enables soft, comfortable grinding with outstanding surface quality.



Advantages:

- Universally suitable for steel and stainless steel (INOX).
- Significantly lower noise emissions and less vibration than with conventional grinding wheels.
- Comfortable grinding.
- Problem solver for scale.

SGP WHISPER STEELOX ★★★★

Materials that can be worked:
steel, scale, stainless steel (INOX)

Applications:
surface grinding, weld dressing, work on fillet welds

Abrasive:
Special aluminium oxide A

PFERDVALUE:

Vibration Filter | Noise Filter | Haptic Filter

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
115	7.4	827505	22.23	13,300	10	E 115-7 SGP WHISPER STEELOX
125	7.4	827512	22.23	12,200	10	E 125-7 SGP WHISPER STEELOX

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ZIRKON SGP STEEL ★★★★

Zirconia alumina grinding wheel with a very good grinding performance and an excellent tool life.

Advantages:
- Very fast work progress and maximum economic efficiency thanks to the very good grinding performance.
- Fewer tool changes due to the excellent tool life.

Materials that can be worked:
steel

Applications:
surface grinding, weld dressing, work on fillet welds, grouting, chamfering, deburring

Abrasive:
Zirconia alumina Z and special aluminium oxide A

PFERDVALUE:
WasteSaving TimeSaving

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
115	7.2	640913	22.23	13,300	10	E 115-7 ZIRKON SGP STEEL
125	7.2	640920	22.23	12,200	10	E 125-7 ZIRKON SGP STEEL
150	7.2	640784	22.23	10,200	10	E 150-7 ZIRKON SGP STEEL
180	7.2	640937	22.23	8,500	10	E 180-7 ZIRKON SGP STEEL
230	7.2	640944	22.23	6,600	10	E 230-7 ZIRKON SGP STEEL

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CERAMIC

High-performance grinding wheel with ceramic oxide grain for quick and economical grinding.

Advantages:

- Ultimate aggressiveness and outstanding tool life due to the self-sharpening effect of the high-performance abrasive ceramic oxide grain in connection with a special bond technology.
- Labour cost savings due to much faster work progress compared to conventional grinding wheels.
- Labour-saving work.

CERAMIC SGP STEELOX ★★★★

Materials that can be worked:
steel, stainless steel (INOX)

Applications:
surface grinding, weld dressing, work on fillet welds, grouting, chamfering, deburring

Abrasive:
Ceramic oxide grain CO

Recommendations for use:
- Width of 4.1 mm is ideal for work on root seams.

PFERDVALUE:

HapticFilter

TimeSaving

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
115	4.1	094105	22.23	13,300	10	E 115-4,1 CERAMIC SGP STEELOX
	7.2	007112	22.23	13,300	10	E 115-7 CERAMIC SGP STEELOX
125	4.1	094112	22.23	12,200	10	E 125-4,1 CERAMIC SGP STEELOX
	7.2	007129	22.23	12,200	10	E 125-7 CERAMIC SGP STEELOX
150	4.1	094136	22.23	10,200	10	E 150-4,1 CERAMIC SGP STEELOX
	7.2	068267	22.23	10,200	10	E 150-7 CERAMIC SGP STEELOX
180	4.1	094143	22.23	8,500	10	E 180-4,1 CERAMIC SGP STEELOX
	7.2	011690	22.23	8,500	10	E 180-7 CERAMIC SGP STEELOX
230	4.1	094150	22.23	6,600	10	E 230-4,1 CERAMIC SGP STEELOX
	7.2	019948	22.23	6,600	10	E 230-7 CERAMIC SGP STEELOX

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Foundry grinding wheels

For heavy-duty use in foundries and fettling shops, PFERD offers particularly robust grinding wheels that guarantee the highest degree of safety and achieve top performance, even under these conditions. They are optimized for use on compressed-air turbine and high-frequency angle grinders.

PFERD offers you individual advice regarding all aspects of machining in foundries and fettling shops. The experienced sales representatives and technical advisers will be happy to assist you. Please contact us for further details.

SG CAST + ALU ★★★☆

Grinding wheel optimised for use in foundries and fettling shops for cast iron and aluminium with high grinding performance and very long tool life.

Advantages:
- Very fast work progress and high economic efficiency thanks to the high grinding performance.
- Very long tool life.

Materials that can be worked:
grey/nodular cast iron (GG/GJL, GGG/GJS), casting scale with sand contamination and metal contamination, hard aluminium alloys

Applications:
surface grinding, chamfering, deburring

Abrasive:
Special aluminium oxide A and silicon carbide C

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
180	7.2	520208	22.23	8,500	10	E 180-7 SG CAST+ALU
230	7.2	520215	22.23	6,600	10	E 230-7 SG CAST+ALU

SG CAST + STONE ★★★☆

Grinding wheel optimised for use in foundries and fettling shops for cast iron (also: casting scale) and hard aluminium alloys with high grinding performance and very long tool life.

Advantages:
- Very fast work progress and high economic efficiency thanks to the high grinding performance.
- Very long tool life.

Materials that can be worked:
cast iron, casting scale, concrete, hard aluminium alloys

Applications:
surface grinding, chamfering, deburring

Abrasive:
Silicon carbide C

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
115	7.2	471135	22.23	13,300	10	E 115-7 SG CAST+STONE
125	7.2	643303	22.23	12,200	10	E 125-7 SG CAST+STONE
180	7.2	471173	22.23	8,500	10	E 180-7 SG CAST+STONE
230	7.2	329290	22.23	6,600	10	E 230-7 SG CAST+STONE

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ZIRKON SG CAST + STEEL ★★★☆

Zirconia alumina grinding wheel optimised for use in foundries and fettling shops for cast iron and steel with excellent grinding performance and very long tool life.

Advantages:
- Very fast work progress and high economic efficiency thanks to the high grinding performance.
- Very long tool life.

Materials that can be worked:
grey/nodular cast iron (GG/GJL, GGG/GJS), steel

Applications:
surface grinding, weld dressing, work on fillet welds, grouting, chamfering, deburring

Abrasive:
Zirconia alumina Z and special aluminium oxide A

Recommendations for use:
- Widths of 4.1 and 5.2 mm are ideal for work on root seams.

D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
115	7.2	802359	22.23	13,300	10	E 115-7 ZIRKON SG CAST+STEEL
125	7.2	802380	22.23	12,200	10	E 125-7 ZIRKON SG CAST+STEEL
180	7.2	470435	22.23	8,500	10	E 180-7 ZIRKON SG CAST+STEEL
	8.3	470480	22.23	8,500	10	E 180-8 ZIRKON SG CAST+STEEL
230	4.1	640760	22.23	6,600	10	E 230-4,1 ZIRKON SG CAST+STEEL
	5.2	640876	22.23	6,600	10	E 230-5,2 ZIRKON SG CAST+STEEL
	7.2	470459	22.23	6,600	10	E 230-7 ZIRKON SG CAST+STEEL
	8.3	470503	22.23	6,600	10	E 230-8 ZIRKON SG CAST+STEEL

ZIRKON SG CAST ★★★☆

Zirconia alumina grinding wheel optimised for use in foundries and fettling shops for cast iron with excellent grinding performance and tool life.

Advantages:
- The fastest work progress and high economic efficiency thanks to the outstanding grinding performance.
- Excellent tool life.

Materials that can be worked:
grey/nodular cast iron (GG/GJL, GGG/GJS), casting scale

Applications:
surface grinding, chamfering, deburring

Abrasive:
Zirconia alumina Z, special aluminium oxide A and silicon carbide C

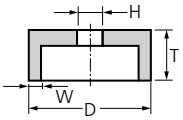
D [mm]	U [mm]	EAN 4007220	H [mm]	Max. RPM		Description
Depressed-centre type E (shape 27)						
180	7.2	640906	22.23	8,500	10	E 180-7 ZIRKON SG CAST
	8.3	802403	22.23	8,500	10	E 180-8 ZIRKON SG CAST
230	7.2	640890	22.23	6,600	10	E 230-7 ZIRKON SG CAST
	8.3	802410	22.23	6,600	10	E 230-8 ZIRKON SG CAST

You can find the DUODISC combination wheels for cutting and deburring grey/nodular cast iron on page 25.

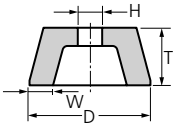
Cup wheels
Performance Line SG ★★★☆

Product group selection

Application	Steel (STEEL)	Stainless steel (INOX)	Cast iron (CAST)	Stone (STONE)
Surface grinding	SG STEELOX A 16	SG STEELOX A 16	SG CAST + STONE C 16	SG CAST + STONE C 16–80
Work on weld seams			-	-
Chamfering	SG STEELOX A 24	SG STEELOX A 24	SG CAST + STONE C 24	SG CAST + STONE C 60/80
Deburring	SG STEELOX A 36/80	SG STEELOX A 36/80	SG CAST + STONE C 30	-



Form 6



Form 11

SG STEELOX ★★★☆

Cup wheel with high grinding performance and long tool life.

Advantages:
- High grinding performance.
- Long tool life.

Materials that can be worked:
steel, stainless steel (INOX)

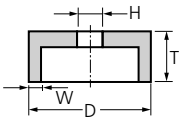
Applications:
weld dressing, chamfering, deburring, surface grinding

Abrasive:
Aluminium oxide A

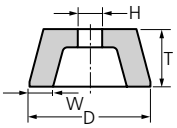
Recommendations for use:
- Place at a slight incline to work on weld seams.

Safety notes:
- The permissible maximum operating speed is 50 m/s.

D [mm]	Grit size	EAN 4007220	H [mm]/ thread	T [mm]	W [mm]	Max. RPM		Description
Cylindrical cup wheel ETT (shape 6)								
80	36	698419	22.23	27	8	11,900	5	50 ETT 80-8 A 36 SG STEELOX
	80	164785	22.23	27	8	11,900	5	50 ETT 80-8 A 80 SG STEELOX
Conical cup wheel ETT (shape 11)								
110	16	164730	22.23	55	20	8,600	2	50 ETT 110-20 A 16 SG STEELOX
	24	803103	22.23	55	20	8,600	2	50 ETT 110-20 A 24 SG STEELOX
	36	803127	22.23	55	20	8,600	2	50 ETT 110-20 A 36 SG STEELOX
125	16	164747	M14	51	25	7,600	2	50 ETT 125-25 A 16 SG STEELOX/M14



Form 6



Form 11

SG CAST + STONE ★★★☆

Cup wheel with high grinding performance and long tool life.

Advantages:
- High grinding performance.
- Long tool life.

Materials that can be worked:
cast iron, casting scale, concrete, stone

Applications:
chamfering, deburring, surface grinding

Abrasive:
Silicon carbide C

Safety notes:
- The permissible maximum operating speed is 50 m/s.

D [mm]	Grit size	EAN 4007220	H [mm]	T [mm]	W [mm]	Max. RPM		Description
Cylindrical cup wheel ETT (shape 6)								
80	80	164822	22.23	27	8	11,900	5	50 ETT 80-8 C 80 SG CAST+STONE
Conical cup wheel ETT (shape 11)								
110	16	164808	22.23	55	20	8,600	2	50 ETT 110-20 C 16 SG CAST+STONE
	24	803134	22.23	55	20	8,600	2	50 ETT 110-20 C 24 SG CAST+STONE
	30	164815	22.23	55	20	8,600	2	50 ETT 110-20 C 30 SG CAST+STONE
	60	803141	22.23	55	20	8,600	2	50 ETT 110-20 C 60 SG CAST+STONE

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SG STEEL + INOX + CAST ★★★☆

Snagging wheel with high grinding performance and long tool life for work in hard-to-reach areas.

Advantages:
- High grinding performance.
- Long tool life.

Materials that can be worked:
steel, cast steel, stainless steel (INOX), cast iron

Applications:
weld dressing, chamfering, deburring, grouting

Abrasive:
Aluminium oxide A

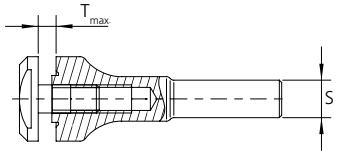
Ordering notes:
- Please order the matching arbor separately.

Safety notes:
- Can be used with mounted arbor on straight grinders up to the maximum rotational speed of the arbor.
- Use only for peripheral grinding.
- When using snagging wheels with diameter up from 50 mm on compressed-air straight grinders, a protective guard must be used (ISO 11148-7).
- When using snagging wheels with diameter up from 55 mm on electric straight grinders, a protective guard must be used (EN 60745-2-3).

D [mm]	T [mm]	H [mm]	EAN 4007220	Max. RPM	Suitable arbors		Description
ER (shape 1) type							
30	4.2	6.0	165423	51,000	BO 6/6 3-10	20	ER 30-4 SG STEEL+INOX+CAST/6,0
	6.2	6.0	165430	51,000	BO 6/6 3-10	20	ER 30-6 SG STEEL+INOX+CAST/6,0
40	4.2	6.0	165447	38,200	BO 6/6 3-10	20	ER 40-4 SG STEEL+INOX+CAST/6,0
	6.2	6.0	165454	38,200	BO 6/6 3-10	20	ER 40-6 SG STEEL+INOX+CAST/6,0
50	6.2	6.0	165461	30,600	BO 6/6 3-10	20	ER 50-6 SG STEEL+INOX+CAST/6,0
	10.5	6.0	165485	30,600	BO 6/6 3-10	20	ER 50-10 SG STEEL+INOX+CAST/6,0
	10.5	10.0	165492	30,600	BO 8/10 6-20	20	ER 50-10 SG STEEL+INOX+CAST/10,0
70	6.2	10.0	165508	21,800	BO 8/10 6-20, BO 8/10 4-8	20	ER 70-6 SG STEEL+INOX+CAST/10,0
	8.7	10.0	165805	21,800	BO 8/10 6-20, BO 8/10 4-8	20	ER 70-8 SG STEEL+INOX+CAST/10,0
	10.5	10.0	165515	21,800	BO 8/10 6-20	20	ER 70-10 SG STEEL+INOX+CAST/10,0
	15.7	10.0	165539	21,800	BO 8/10 6-20	20	ER 70-15 SG STEEL+INOX+CAST/10,0

Arbors for snagging wheels

Accessory for mounting snagging wheels on straight grinders. Stable arrangement with very high shank breakage resistance.



Grinding wheel diameter [mm]	Max. RPM
30	31,800
40	23,900
50	19,100
70	13,600

Safety notes:
- Observe the maximum rotational speed for the snagging wheel and arbor – the lower speed takes precedence (see table).

S [mm]	Suitable for snagging wheels with centre hole [mm]	$T_{max.}$ [mm]	EAN 4007220		Description
6	6	3–10	297650	1	BO 6/6 3-10
8	10	6–20	297667	1	BO 8/10 6-20
		4–8	103623	1	BO 8/10 4-8

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Printed in Germany.
Subject to technical modifications.
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