

VICTOGRAIN
Simply better



**YOU KNOW HOW.
WE KNOW WOW!**



TRUST BLUE

- Triangular, precision-formed abrasive grain
- Fastest work progress
- Longest tool life

VICTOGRAIN

General information

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 **VICTOGRAIN** 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 **VICTOGRAIN** 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 **VICTOGRAIN** 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.

Applications:

- Levelling
- Deburring
- Surface work
- Work on edges
- Work on weld seams

Safety notes:

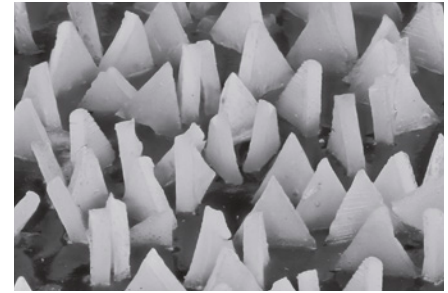
- Observe the safety recommendations "Safety recommendations for the use of abrasive products" provided by the FEPA (Federation of European Producers of Abrasives). You can find this information at www.pferd.com.

Matching tool drives:

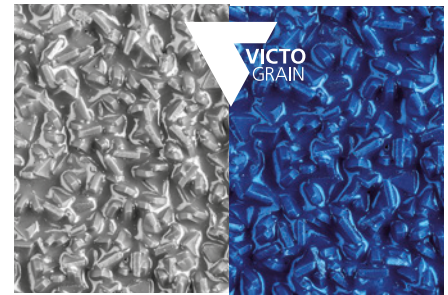
- Angle grinders
- Cordless angle grinders
- Flexible shaft drives

PFERD tools with VICTOGRAIN abrasive grain

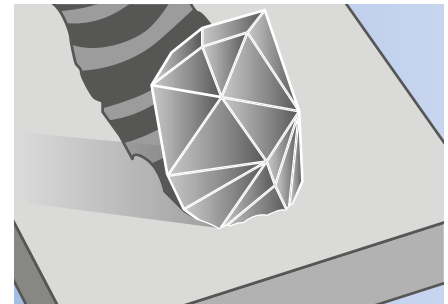
Picture	Designation	Page
	COMBICLICK fibre discs	3
	Fibre discs	5
	COMBIDISC abrasive discs	7
	CC-GRIND-SOLID	9
	CC-GRIND-FLEX	10



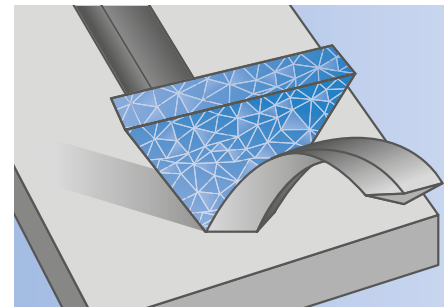
The **VICTOGRAIN** abrasive grain is optimally aligned



Coated abrasives **VICTOGRAIN**



Conventional abrasive grain



VICTOGRAIN abrasive grain



PFERDVIDEO:

Learn more about the advantages of using **VICTOGRAIN** products.

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COMBICLICK fibre discs

The COMBICLICK system consists of a specially developed backing pad and a rugged mounting system at the back of the tool. With the backing pad, COMBICLICK tools can be used on commercially available angle grinders.

Advantages:

- Innovative quick-mounting system guarantees convenient handling and cool grinding.
- High profitability thanks to long tool life and very high stock removal rate.
- Consistent surface finish thanks to high-quality abrasives.

Applications:

- Levelling
- Deburring
- Surface work
- Work on edges
- Work on weld seams
- Step-by-step fine grinding

Recommendations for use:

- Use COMBICLICK fibre discs with COMBICLICK backing pads on commercially available angle grinders.
- Use grinding oil which is suitable for the material in order to considerably increase the tool life and abrasive performance of the tools. More detailed information and ordering data for grinding oils can be found in our Tool Manual 23, catalogue section 4, page 155 or on www.pferd.com.

Matching tool drives:

- Angle grinders
- Cordless angle grinders

Ordering notes:

- Please order COMBICLICK backing pads separately. More detailed information and ordering data can be found on page 4.

Safety notes:

- The maximum permitted peripheral speed is 80 m/s.
- For safety reasons, the specified maximum permitted rotational speed must never be exceeded.

Accessories:

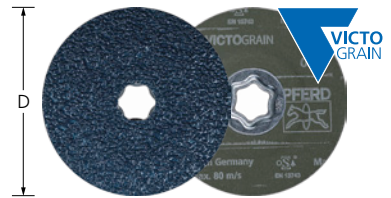
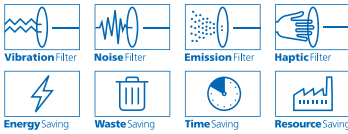
- COMBICLICK backing pads


VICTOGRAIN type

For extremely aggressive grinding with an extremely high tool life and an outstanding stock removal rate on steel and hard materials.

Outstanding, constant high performance thanks to the **VICTOGRAIN** abrasive grain.

PFERDVALUE:



D [mm]	EAN 4007220	Max. RPM		Description
100	176245	15,300	25	CC-FS 100 VICTOGRAIN 36
115	176290	13,300	25	CC-FS 115 VICTOGRAIN 36
125	176320	12,200	25	CC-FS 125 VICTOGRAIN 36
180	176368	8,500	25	CC-FS 180 VICTOGRAIN 36

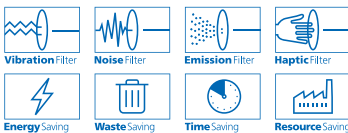
VICTOGRAIN-COOL type


For extremely aggressive grinding with an extremely long tool life and an outstanding stock removal rate on steels and materials which are hard or have poor heat-conducting properties.

Outstanding, constant high performance thanks to the **VICTOGRAIN** abrasive grain.

Active grinding additives in the coating substantially improve the stock removal rate, prevent clogging and result in cooler grinding.

PFERDVALUE:



D [mm]	EAN 4007220	Max. RPM		Description
100	109267	15,300	25	CC-FS 100 VICTOGRAIN-COOL 36
115	109250	13,300	25	CC-FS 115 VICTOGRAIN-COOL 36
125	109274	12,200	25	CC-FS 125 VICTOGRAIN-COOL 36
180	109281	8,500	25	CC-FS 180 VICTOGRAIN-COOL 36

CC-GT and CC-H-GT types

With this backing pad, COMBICLICK tools can be used on commercially available angle grinders.

The different hardnesses are colour-coded:

CC-GT (medium) = black

CC-H-GT (hard) = blue



Advantages:

- The geometry of the cooling slots significantly reduces the thermal load.
- High economic efficiency due to minimized tool change times.

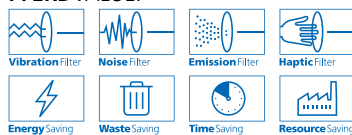
Recommendations for use:

- Type CC-H-GT is mainly used to work on stainless steel (INOX). It features very high edge strength, which enables a higher contact pressure.

Safety notes:

- The maximum peripheral speed is 80 m/s.
- For backing pads with a diameter of 180 mm, do not apply too high a contact pressure in order to prevent the backing pad from overstretching.

PFERDVALUE:



Suitable for CC diameter [mm]	Thread	Hardness	Suitable for machine types	EAN 4007220	Max. RPM		Description
100	M10	medium	Angle grinders 100, spindle M10	836200	15,300	1	CC-GT 100 M10
115, 125	M14	medium	Angle grinders 115 / 125, spindle M14	725764	13,300	1	CC-GT 115-125 M14
	5/8	medium	Angle grinders 115 / 125, spindle 5/8"	725771	13,300	1	CC-GT 115-125 5/8
	M14	hard	Angle grinders 115 / 125, spindle M14	835869	13,300	1	CC-H-GT 115-125 M14
	5/8	hard	Angle grinders 115 / 125, spindle 5/8"	841419	13,300	1	CC-H-GT 115-125 5/8
125	M14	medium	Angle grinders 125, spindle M14	223413	12,200	1	CC-GT 125 M14
	5/8	medium	Angle grinders 125, spindle 5/8"	223468	12,200	1	CC-GT 125 5/8
	M14	hard	Angle grinders 125, spindle M14	223451	12,200	1	CC-H-GT 125 M14
	5/8	hard	Angle grinders 125, spindle 5/8"	223475	12,200	1	CC-H-GT 125 5/8
180	M14	medium	Angle grinders 180, spindle M14	725788	8,500	1	CC-GT 180 M14
	5/8	medium	Angle grinders 180, spindle 5/8"	725795	8,500	1	CC-GT 180 5/8



The whole COMBICLICK product range can be found in the brochure "COMBICLICK – Perfect results thanks to a well-designed system" on www.pferd.com.



PFERDVIDEO:

Learn more about the advantages of using COMBICLICK tools with **VICTOGRAIN** abrasive grain.



PFERDVIDEO:

Learn more about the advantages of using COMBICLICK tools.



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Fibre discs

The wide range of fibre discs offers the best tool for any grinding application, from coarse to fine. PFERD fibre discs are manufactured in compliance with ISO 16057 in shape A1, type F, under the designation "vulcanized fibre disc".

Advantages:

- High profitability thanks to long tool life and very high stock removal rate.
- Consistent surface finish thanks to high-quality abrasives.
- Optimum adaptation to contours thanks to high flexibility.

Applications:

- Levelling
- Deburring
- Surface work
- Work on edges
- Work on weld seams
- Step-by-step fine grinding

Recommendations for use:

- Use fibre discs conforming to ISO 15636 with backing pads on commercially available angle grinders.
- Use grinding oil which is suitable for the material in order to considerably increase the tool life and abrasive performance of the tools. More detailed information and ordering data for grinding oils can be found in our Tool Manual 23, catalogue section 4, page 155 or at www.pferd.com.

Matching tool drives:

- Angle grinders
- Cordless angle grinders

Ordering notes:

- Please order backing pads separately. More detailed information and ordering data can be found on page 6.
- When ordering, please state the EAN or the full description.

Safety notes:

- The maximum permitted peripheral speed is 80 m/s.
- For safety reasons, the specified maximum permitted rotational speed must never be exceeded.

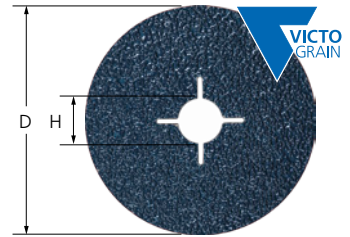
Accessories:


- Backing pads

VICTOGRAIN type

For extremely aggressive grinding with an extremely high tool life and an outstanding stock removal rate on steel and hard materials.

Outstanding, constant high performance thanks to the **VICTOGRAIN** abrasive grain.



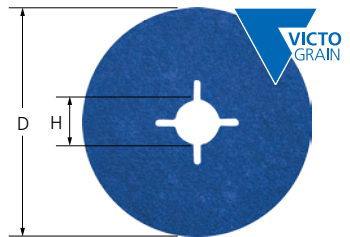
D [mm]	H [mm]	EAN 4007220	Max. RPM		Description
100	16	176191	15,300	25	FS 100-16 VICTOGRAIN 36
115	22	176207	13,300	25	FS 115-22 VICTOGRAIN 36
125	22	176214	12,200	25	FS 125-22 VICTOGRAIN 36
180	22	176238	8,500	25	FS 180-22 VICTOGRAIN 36


VICTOGRAIN-COOL type

For extremely aggressive grinding with an extremely long tool life and an outstanding stock removal rate on steels and materials which are hard or have poor heat-conducting properties.

Outstanding, constant high performance thanks to the **VICTOGRAIN** abrasive grain.

Active grinding additives in the coating substantially improve the stock removal rate, prevent clogging and result in cooler grinding.



D [mm]	H [mm]	EAN 4007220	Max. RPM		Description
100	16	108796	15,300	25	FS 100-16 VICTOGRAIN-COOL 36
115	22	108789	13,300	25	FS 115-22 VICTOGRAIN-COOL 36
125	22	108802	12,200	25	FS 125-22 VICTOGRAIN-COOL 36
180	22	108819	8,500	25	FS 180-22 VICTOGRAIN-COOL 36



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Backing pads

GT, H-GT and HT-GT types

Three different backing pad types are supplied for using fibre discs on commercially available angle grinders.

GT:

Backing pad for optimum adaptation to contours thanks to high flexibility. According to ISO 15636.

H-GT:

High-performance backing pad with a long tool life thanks to abrasion-resistant, glass-fibre-reinforced plastic. Impresses with particularly cool grinding due to radially arranged cooling fins, and high fibre disc stock removal rate due to sturdy, rigid design.

HT-GT:

Flexible and extremely temperature-resistant backing pad with a long tool life due to the highly temperature-resistant material. Enables high-precision work thanks to high flexibility. According to ISO 15636.




Ordering notes:

- The matching clamping nut is included.

Accessories:

- Clamping nuts for backing pads GT

Suitable for tool dia. [mm]	Thread	Suitable for machine types	EAN 4007220	Max. RPM		Description
GT						
100	M10	Angle grinders 100, spindle M10	100998	15,300	1	GT 100 MF M10
115	M10	Angle grinders 115, spindle M10	668047	13,300	1	GT 115 MF M10
	M14	Angle grinders 115, spindle M14	668054	13,300	1	GT 115 MF M14
125	M14	Angle grinders 125, spindle M14	668061	12,200	1	GT 125 MF M14
150	M14	Angle grinders 150, spindle M14	668078	10,200	1	GT 150 MF M14
180	M14	Angle grinders 180, spindle M14	668085	8,500	1	GT 180 MF M14
H-GT, high-performance backing pad						
115	M14	Angle grinders 115, spindle M14	668115	13,300	1	H-GT 115 MF M14
125	M14	Angle grinders 125, spindle M14	668122	12,200	1	H-GT 125 MF M14
180	M14	Angle grinders 180, spindle M14	668139	8,500	1	H-GT 180 MF M14
HT-GT, temperature-resistant backing pad						
115	M14	Angle grinders 115, spindle M14	032398	13,300	1	HT-GT 115 MF M14
125	M14	Angle grinders 125, spindle M14	032404	12,200	1	HT-GT 125 MF M14
180	M14	Angle grinders 180, spindle M14	032381	8,500	1	HT-GT 180 MF M14



VICTOGRAIN

COMBIDISC abrasive discs

The COMBIDISC product range contains a wide selection of grinding tools for surface finishing. From coarse machining and surface texturing to face-down mirror polishing – the range provides the best tool, even for complicated applications.

Advantages:

- High profitability thanks to quick tool changes.
- Great convenience thanks to simple handling and low-vibration working.
- No operational disruptions caused by sticking, slipping or disengaging.

Applications:

- Roughening
- Levelling
- Deburring
- Surface work
- Work on edges
- Polishing
- Cleaning
- Sharpening
- Work on weld seams
- Structuring surfaces
- Step-by-step fine grinding

Recommendations for use:

- Use COMBIDISC grinding tools with arbors or abrasive disc holders on flexible shaft drives with angle handpieces, compressed-air or electric angle grinders.
- Use grinding oil which is suitable for the material in order to considerably increase the tool life and abrasive performance of the tools. More detailed information and ordering data for grinding oils can be found in our Tool Manual 23, catalogue section 4, page 155 or at www.pferd.com.

Matching tool drives:

- Flexible shaft drives
- Straight grinders
- Angle grinders
- Cordless angle grinders

Ordering notes:

- Please order arbors or COMBIDISC abrasive disc holders separately. More detailed information and ordering data can be found on page 8.
- When ordering, please state the EAN or the full description.

Safety notes:

- The maximum permitted peripheral speed is 50 m/s.
- For safety reasons, the specified maximum permitted rotational speed must never be exceeded.

Accessories:

- COMBIDISC abrasive disc holders
- COMBIDISC DUST REMOVER

VICTOGRAIN-COOL midget fibre discs type

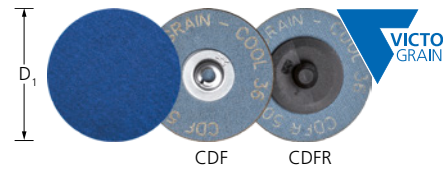
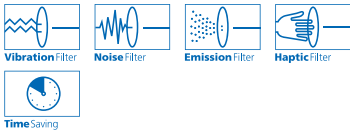
Exceptionally well-suited to surface and edge grinding. The fibre backing considerably strengthens the abrasive disc and improves stock removal.




For extremely aggressive grinding with an extremely long tool life and an outstanding stock removal rate on steels and materials which are hard or have poor heat-conducting properties.

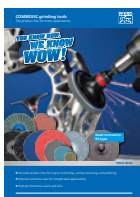
Outstanding, constant high performance thanks to the **VICTOGRAIN-COOL** abrasive grain.

Active grinding additives in the coating substantially improve the stock removal rate, prevent clogging and result in cooler grinding.

PFERDVALUE:



	D ₁ [mm]	EAN 4007220	Opt. RPM		Description
CD system					
	38	109298	5,000–16,000	100	CDF 38 VICTOGRAIN-COOL 36
	50	109304	3,800–13,000	100	CDF 50 VICTOGRAIN-COOL 36
	75	109311	2,500–9,000	50	CDF 75 VICTOGRAIN-COOL 36
CDR system					
	38	109328	5,000–16,000	100	CDFR 38 VICTOGRAIN-COOL 36
	50	109335	3,800–13,000	100	CDFR 50 VICTOGRAIN-COOL 36
	75	109342	2,500–9,000	50	CDFR 75 VICTOGRAIN-COOL 36



The whole COMBIDISC product range can be found in the brochure "COMBIDISC grinding tools – The product line for many applications" on www.pferd.com.



PFERDVIDEO:

Learn more about the advantages of using COMBIDISC tools.

VICTOGRAIN

COMBIDISC abrasive disc holders

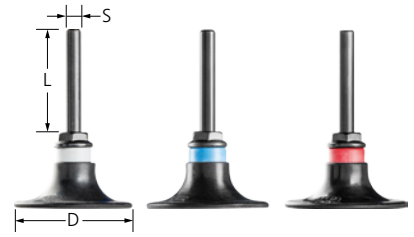
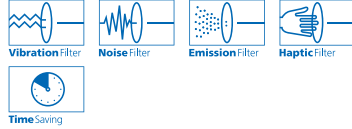
SBH and SBHR types

Matching arbors for COMBIDISC grinding tools. Available in three different hardness grades.

Ordering notes:

- The different hardness grades are colour-coded:
 - W (soft) – grey;
 - M (medium) – blue;
 - H (hard) – red
- Please complete the description with the desired hardness grade.

PFERDVALUE:



D [mm]	S [mm]	L [mm]	Hardness			Max. RPM		Description
			W (soft)	M (medium)	H (hard)			
EAN 4007220								

CD system

20	6	40	-	265901	-	47,500	1	SBH 20 ...
25	6	40	-	266755	-	38,000	1	SBH 25 ...
38	6	40	266762	266779	266786	25,000	1	SBH 38 ...
50	6	40	266793	266809	266816	19,000	1	SBH 50 ...
75	6	40	266823	266830	266847	12,500	1	SBH 75 ...

CDR system

20	6	40	-	776315	-	47,500	1	SBHR 20 ...
25	6	40	-	776322	-	38,000	1	SBHR 25 ...
38	6	40	776346	597057	776339	25,000	1	SBHR 38 ...
50	6	40	776360	597064	776353	19,000	1	SBHR 50 ...
75	6	40	776384	597071	776377	12,500	1	SBHR 75 ...

Adapters:

The shank of the abrasive disc holders can be replaced by suitable adapters. This enables the abrasive disc holder to be mounted directly to the drive spindle of the tool drive.

The following adapters are available:



AF 14-1/4 CD,
(EAN 4007220**302026**)
Female thread M14,
male thread 1/4-20 UNC.
Suitable for drives with
spindle M14.



SPV-20 CD 1/4-20 UNC,
(EAN 4007220**333167**)
Female thread 1/4-20 UNC,
male thread 1/4-20 UNC.
Suitable for drives with
spindle 1/4-20 UNC, e.g. for
PW 3/120 DH.



AF M5 CD 1/4-20 UNC
(EAN 4007220**064702**)
Male thread M5,
male thread 1/4-20 UNC.
Suitable for cordless angle
grinder, dia. 75, with spindle
M5 (female thread).



VICTOGRAIN

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

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.

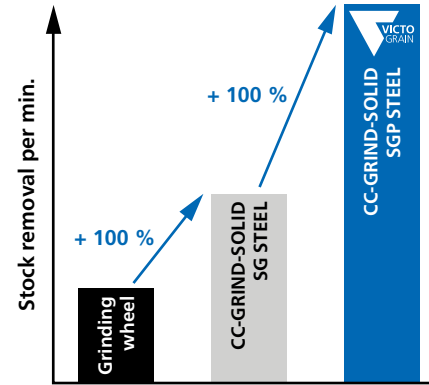
Recommendations for use:

- 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.



PFERDVIDEO:

Learn more about the advantages of using CC-GRIND-SOLID grinding discs.



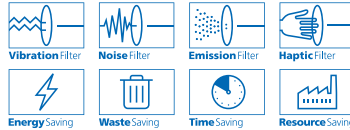
CC-GRIND-SOLID SGP STEEL ★★★★★


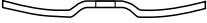
Materials that can be worked:
Steel

Ordering notes:

- Please order clamping flange set SFS separately.

PFERDVALUE:



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

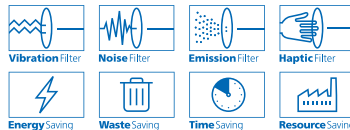
CC-GRIND-SOLID SGP INOX ★★★★★


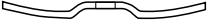
Materials that can be worked:
Stainless steel (INOX)

Ordering notes:

- Please order clamping flange set SFS separately.

PFERDVALUE:



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

VICTOGRAIN

CC-GRIND grinding discs – Special Line 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.

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.



PFERDVIDEO:

Learn more about the advantages of using CC-GRIND-FLEX grinding discs.

CC-GRIND-FLEX SGP STEEL ★★★★★

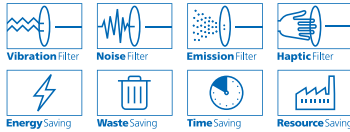
Materials that can be worked:



Steel

Ordering notes:

- Please order clamping flange set SFS separately.

PFERDVALUE:



D [mm]	Grit size	H [mm]	Max. RPM		Description
	COARSE				
	EAN 4007220				
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



VICTOGRAIN


CC-GRIND clamping flange set

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"



The whole CC-GRIND grinding discs product range can be found in the brochure "The CC-GRIND system – SOLID, FLEX and STRONG – The pro for stock removal" on www.pferd.com.

