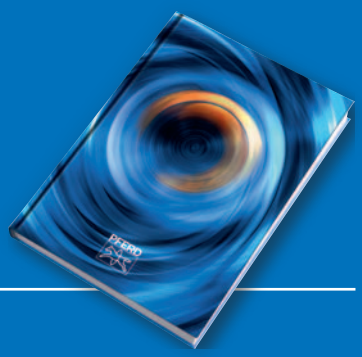
Highlights from the PFERD product range

TRUST BLUE

■ Innovations and highlights in the new Tool Manual



New tools, **new solutions**

This brochure presents the highlights from the new PFERD Tool Manual. In all, over 970 new tools and drives have been added.

The product range includes more than 7,500 tools for different applications, from coarse to mirror-polished, and for cutting. PFERD is one of only a few manufacturers that offers high-performance tools and tailor-made air grinders, electric grinders and flexible shaft drives from a single source.

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PFERDVIDEO

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

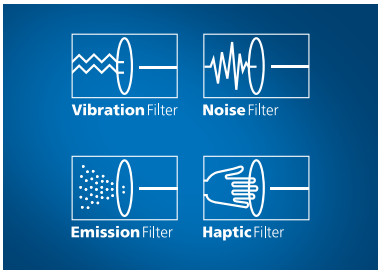
PFERD

The most important tool by PFERD:
The Tool Manual

With the Tool Manual, PFERD offers more than just a catalogue. Thanks to the tool navigation, which is easy to understand and structured logically, along with in-depth technical knowledge on more than 600 pages, the 22nd edition will certainly not fail to impress. It helps you to always find the fast way to the best tool.

What is new in the PFERD Tool Manual?

- In order to make the choice of the best tool easier for you, we have further developed and optimized the tool navigation "The fast way to the best tool". Just like before, you can get to the proper catalogue via the first pages of the Tool Manual and the tabs. There, the revised introductory pages will lead you to the tool that is just perfect for your requirements.
- In addition to the tool navigation, the new Tool Manual also impresses with even more technical knowledge such as on the page "Filament materials and their application" in Catalogue 208, page 8.
- Recognize straight away which PFERD tools offer you solutions for fewer vibrations, reduction of noise, less dust and optimized haptics during the working process. Tools and tool drives with **PFERD**ERGONOMICS® properties are marked with corresponding pictograms in the Tool Manual.
- Via QR codes, you can retrieve further information, such as application videos or brochures. You can find QR codes on the introductory pages and product pages of each catalogue.
- An overview in the revised index shows recommendations for replacement articles for discontinued products.



**Whether in print or digitally –
find the best tool solution with PFERD at any time.**

Catalogue 201
Files

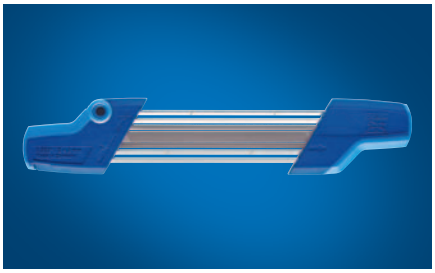
In order to make the choice of the best filing tool easier for you, you will now find our tool navigation entitled "The fast way to the best tool" in the introduction of Catalogue 201. This allows you to select a suitable tool by taking the general application, the material to be worked, and the detailed application requirements into consideration.

Chain saw sharpener CHAIN SHARP® CS-X

The new generation of CHAIN SHARP® chain saw sharpeners features an improved file position, optimized shape and easier operation. PFERD offers the chain saw sharpener CHAIN SHARP® CS-X in four designs that are adapted to the various chain pitches, which guarantees the highest level of precision and optimal sharpening results.

PFERDERGONOMICS® recommends the chain saw sharpener to improve working comfort.

More information can be found in Catalogue 201, page 31.



HapticFilter

PFERDVIDEO

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


PFERD

Catalogue 202
Burrs

The broad PFERD burr product range offers the best tool solution for every application. To make it easier for you to choose the machining tool best suited for your task, tungsten carbide burrs are divided up into two groups in the new Tool Manual:

- TC burrs for universal applications
- TC burrs for high-performance applications

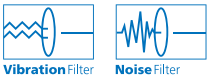
The tungsten carbide burr product range for universal applications comprises the standard DIN cuts. They can be used for many different purposes on nearly all types of material. Tungsten carbide burrs for high-performance applications were developed especially for specific machining tasks and offer the user significant advantages over conventional burrs.

Tungsten carbide burrs cut STEEL – High-capacity burrs

With the innovative STEEL cut, PFERD has developed unique burrs for working with steel and cast steel. They are characterized by a significantly increased aggressiveness and good guidability. Thus they ensure safe and precise work. The extremely high stock removal performance makes these burrs with cut STEEL impressive, with significant time savings and high economic value.

PFERDERGONOMICS® recommends burrs with STEEL cut as an innovative tool solution for comfortable working with reduced vibration and lower noise.

More information can be found in Catalogue 202, pages 23–26.



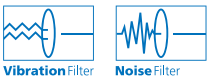
Catalogue 202
Burrs

Tungsten carbide burrs cut INOX – The stock removal experts

PFERD has developed innovative burrs with INOX cut for work on stainless steel (INOX). The INOX cut is characterized by an extremely high stock removal performance on all austenitic as well as rust- and acid-resistant steels.

PFERDERGONOMICS® recommends burrs with INOX cut as an innovative tool solution for comfortable working with reduced vibration and lower noise.

More information can be found in Catalogue 202, pages 27–31.

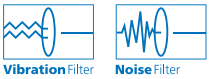


Tungsten carbide burrs cut CAST

With the CAST cut, PFERD has developed innovative burrs especially for work on cast iron. They are characterized by an extremely high stock removal performance on cast iron and impress through smooth milling.

PFERDERGONOMICS® recommends burrs with CAST cut as an innovative tool solution for comfortable working with reduced vibration and lower noise.

More information can be found in Catalogue 202, pages 36–39.



PFERDVIDEO

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

Catalogue 203
Mounted points

The mounted point product range has been thoroughly revised. Due to the significantly improved working results of hardness J, which come from its outstanding stock removal qualities, the hardness grades H, I and T are no longer part of the product range. The simplified product range makes it more comfortable for you to choose the best mounted point matching your requirements.

Mounted points – Hardness J

The mounted point range in hardness J has been supplemented with new dimensions and grit sizes in order to better adapt to the demands of the market. Mounted points in hardness J are perfectly suited for applications in the fields of turbine, engine and tool construction. Materials that are difficult to machine, such as titanium, titanium alloys, nickel- and cobalt-based alloys, can be worked easily.

Hardness J is characterized by a high stock removal rate and very long tool life while at the same time offering a cool and aggressive grinding performance.

More information can be found in Catalogue 203, pages 23–25.

PFERDVIDEO

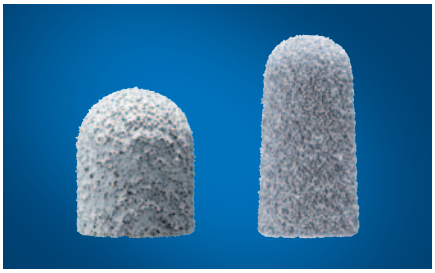
You will receive more information here or at www.pferd.com

Catalogue 204
Fine grinding and polishing tools

To round off the product range, we have added more than 300 fine grinding and polishing tools. The POLICAP®, COMBICLICK® and POLINOX® ranges in particular were supplemented with many new products.

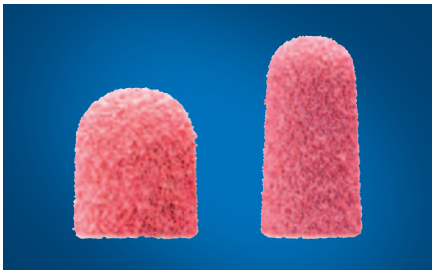
POLICAP® abrasive caps

The POLICAP® abrasive caps of the SiC-COOL and CO-COOL types are among the latest innovations designed by PFERD. They were developed specifically for special tasks in the machining of workpieces made of aluminium, titanium, stainless steel (INOX) or nickel- and cobalt-based alloys.



Abrasive caps of the **SiC-COOL type** are ideal for working on components made of titanium, aluminium and their respective alloys. Thus, they are well suited to use in aircraft and turbine construction and the associated maintenance work. The special grain selection and the abrasive grinding additive in the bond enable cool grinding, reduce the workpiece temperature and prevent chip adhesion.

Due to the specific structure of the ceramic oxide grain and the abrasive bond components, abrasive caps of the **CO-COOL type** are ideally suited to work on stainless steels (INOX) and the heat-resistant nickel- and cobalt-based alloys often used in turbine construction, such as Inconel® or Hastelloy®. The abrasive grinding additives prevent clogging and permit cooler grinding with significantly higher stock removal.



More information can be found in Catalogue 204, pages 58–62.


PFERD

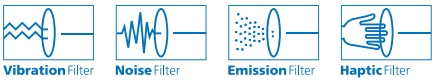
Catalogue 204
Fine grinding and polishing tools

COMBICLICK® tools

Within the COMBICLICK® product range, the patented cooling and quick-mounting system from PFERD, PFERD now also offers non-woven and felt discs next to the fibre discs.

PFERDERGONOMICS® recommends COMBICLICK® as an innovative tool solution to sustainably reduce vibration, noise and dust levels during use, and to improve working comfort.

More information can be found in Catalogue 204, page 8.



COMBICLICK® fibre discs

The COMBICLICK® fibre disc range and particularly the types aluminium oxide A and ceramic oxide grain CO-COOL were complemented with a disc diameter of 100 mm. As a result, the product range is better suited to meet market demands.

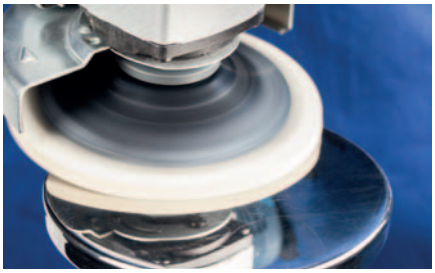
For work on aluminium, copper, bronze, titanium, high-alloy steels and fibre-reinforced plastics, PFERD now also offers the COMBICLICK® fibre disc with silicon carbide abrasive. The silicon carbide type is perfectly suited for aircraft industry applications if only the SiC abrasive is allowed for machining, for example, engine components.

More information can be found in Catalogue 204, pages 9–12.

COMBICLICK® felt discs

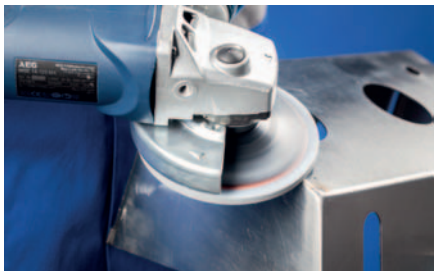
The range now also comprises COMBICLICK® felt discs with a diameter of 100, 115 and 125 mm. They can be used for pre-polishing and high-gloss polishing of medium- to large-sized components such as press or injection moulds.

More information can be found in Catalogue 204, page 15.



COMBICLICK® non-woven discs

COMBICLICK® non-woven discs of PNER, VRH (hard) and VRW (soft) types round off the diversified COMBICLICK® range.



The **PNER type** is ideally suited to achieve a very fine, uniform surface finish, which, depending on requirements, is a sufficient preparation for high-gloss polishing. It is especially suitable for work on large surfaces on components made of stainless steel (INOX).

More information can be found in Catalogue 204, page 13.

COMBICLICK® non-woven discs of the **hard type (VRH)** can be used for general work on metal surfaces, e.g. removal of rough grinding traces, oxidation and for light deburring work.

The **soft type (VRW)** is perfect for very fine grinding of surfaces and contours, as well as cleaning work on metals and painted surfaces. The open structure and high flexibility of the non-woven material prevents clogging of the tool.

More information can be found in Catalogue 204, page 14.

COMBICLICK® set

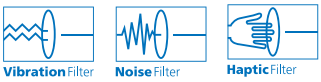
There are two different tool sets with tools with a diameter of 115 mm or 125 mm for getting to know and testing the extensive system. The sets contain selected tools for surface work ranging from coarse to mirror polishing.

More information can be found in Catalogue 204, page 16.

Catalogue 204
Fine grinding and polishing tools

POLINOX® unitized wheels PNER

In addition to the existing product range of POLINOX® unitized wheels PNER for use on straight grinders and flexible shafts, PFERD has added further types which are specially designed for use on speed-adjustable angle and fillet weld grinders. They are especially suitable for work on fillet welds and hard-to-reach slots or indentations in stainless steel (INOX) components. POLINOX® unitized wheels PNER are characterized by a very good surface finish, a high stock removal rate and long tool life.



PFERDERGONOMICS® recommends POLINOX® unitized wheels PNER to sustainably reduce vibration and noise levels during use and to improve working comfort.

More information can be found in Catalogue 204, page 79.

POLINOX® set PNER

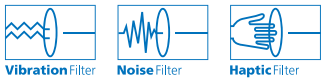
The set contains the handy electric fillet weld grinder from PFERD and a selection of PFERD tools for brushing, cleaning, smoothing and very fine grinding of fillet welds and hard-to-reach areas on stainless steel (INOX) components. It is ideally suited for all fine grinding work, especially for assembly work in the field of stainless steel handrail fabrication. Thanks to the comprehensive range of accessories, it is also suitable for different machining tasks in pipeline and chemical plant construction.

More information can be found in Catalogue 204, page 80.

POLINOX® convolute wheels PNK

The POLINOX® convolute wheels PNK are made of non-woven abrasive which is spirally wound around a core and foamed up. This structure guarantees a steady release of sharp abrasives. POLINOX® convolute wheels PNK impress with a very good surface finish, a high stock removal rate and long tool life. They are used, for example, for grinding operations on implants, turbine blades or surgical instruments.

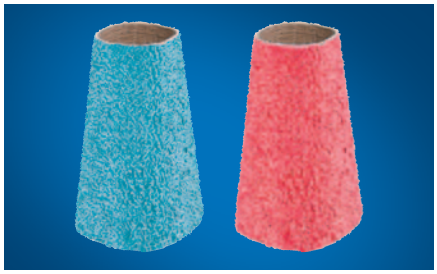
PFERDERGONOMICS® recommends POLINOX® convolute wheels PNK to sustainably reduce vibration and noise levels during use and to improve working comfort.



More information can be found in Catalogue 204, page 81.

Abrasive spiral bands

PFERD now also offers conically-shaped abrasive spiral bands with zirconia alumina Z and ceramic oxide grain CO-COOL abrasive.



Abrasive spiral bands with **zirconia alumina Z** abrasive are designed for maximum stock removal. The outstandingly aggressive cutting quality of the zirconia alumina becomes effective with increased contact pressure and ensures exceptional stock removal.

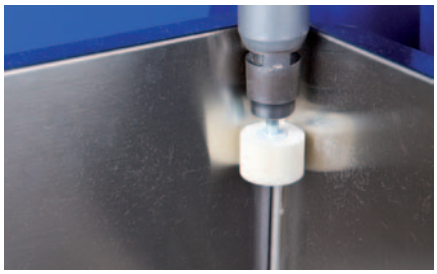
More information can be found in Catalogue 204, pages 52 and 53.

Abrasive spiral bands with **ceramic oxide grain CO-COOL** abrasive are designed for aggressive grinding tasks with maximum stock removal on hard and tough materials and materials which do not conduct heat well. Active grinding additives in the coating significantly improve stock removal, prevent clogging and result in cooler grinding.

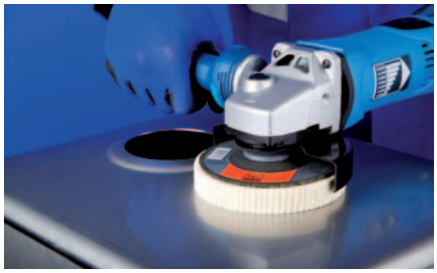
More information can be found in Catalogue 204, page 53.

Mounted felt flap wheels and felt flap discs

The polishing tool range has been complemented with mounted felt flap wheels and felt flap discs. With their flap design, they adapt ideally to the workpiece contours and are thus perfectly suited for polishing workpieces with lots of contours. Moreover, the flap design provides for a significantly reduced thermal load on the workpiece.



More information can be found in Catalogue 204, pages 116 and 117.



PFERDVIDEO

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

Catalogue 205
Diamond and CBN tools

The tool navigation "The fast way to the best tool" has been added to Catalogue 205. This allows you to directly select a suitable tool by taking the general application, the material to be worked, and the detailed application requirements into consideration. If you cannot find a suitable tool for your particular application, we offer customer-specific tool solutions.

Customer-specific tool solutions

PFERD specializes in the support and production of customer-specific electroplated diamond and CBN tools. Almost all tool blank geometries can be coated with various grit sizes. The electroplated bond also enables the economic production of small batch sizes. Because of the diverse possibilities, our production can respond to individual customer requirements with a high degree of flexibility. Our technical advisors will be happy to visit you on-site to develop individual tool solutions for your applications. Get the best possible advice for superhard solutions!

More information can be found in Catalogue 205, page 10.

Diamond cut-off wheels – For machining grey cast iron and nodular cast iron

Electroplated diamond cut-off wheels are exceptionally well-suited to machine grey cast iron and nodular cast iron (GG and GGG or GJL and GJS) – both in hand-held and robotic applications. They are ideally suited to work on deep-lying areas because of their constant tool diameter. Metal contaminations can be removed comfortably and quickly due to the superhard abrasive diamond. The very long tool life and the low dust generation also make electroplated diamond cut-off wheels impressive.

More information can be found in Catalogue 205, page 29.

EmissionFilter

PFERDVIDEO

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

Catalogue 206
Grinding and cut-off wheels

Catalogue 206 also presents itself revised thoroughly. To meet the market demands, PFERD has added grinding and cut-off wheels with diameters 105 mm and 150 mm to its product range. Reinforced grinding and cut-off wheels for use in foundries and in pipeline construction have been divided into groups and can each be found on double pages in the new Tool Manual.

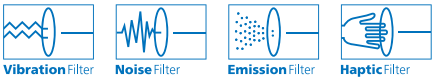
The tool navigation "The fast way to the best tool" appears in a new design and was expanded by numerous explanations. This way, you can find your best tool even more quickly.

The new thin cut-off wheels from PFERD: Cutting more!

PFERD has produced a noticeable performance increase for the user for all thin cut-off wheels. The thin cut-off wheels from PFERD impress with even more thin, fast cuts, little burr formation, as well as the highest possible economic value. They guarantee comfortable and safe work.

PFERDERGONOMICS® recommends the thin cut-off wheels to sustainably reduce vibration, noise and dust levels during use and to improve working comfort.

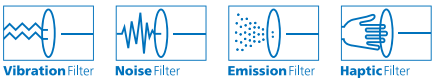
More information can be found in Catalogue 206, pages 45, 51 and 52.



Catalogue 206
Grinding and cut-off wheels

CC-GRIND® grinding discs – The pro for stock removal

The CC-GRIND® system has been especially developed for aggressive and economic grinding. The high-performance abrasive and the newly developed, patented quick-mounting and cooling system enable the ultimate stock removal rates and a very long tool life of the grinding discs. The use of CC-GRIND® grinding discs leads to a considerable increase in cost-effectiveness compared to conventional reinforced grinding wheels. In addition, they are characterized by a soft and particularly flexible grinding performance.

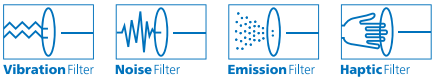


PFERDERGONOMICS® recommends CC-GRIND® grinding discs to sustainably reduce vibration, noise and dust levels generated during use and to improve working comfort.

More information can be found in Catalogue 206, pages 22–23.

CC-GRIND®-SOLID grinding discs – The new generation of reinforced grinding wheels

The further development of the PFERD innovation CC-GRIND® is characterized by an integrated glass fibre backing pad in combination with high-performance abrasive grain and a special clamping system. The innovative high-strength layer structure of the glass fibre backing pad guarantees the same robust and secure use as with a reinforced grinding wheel. The grinding disc is optimally aligned due to the special clamping system and can thus be used particularly flat and efficiently.



PFERDERGONOMICS® recommends CC-GRIND®-SOLID grinding discs to sustainably reduce vibration, noise and dust levels generated during use and to improve working comfort.

More information can be found in Catalogue 206, pages 24–26.

POLIFAN®-STRONG flap discs– The very best in aggressiveness and tool life

The patented design of the flap disc POLIFAN®-STRONG, with its long, compactly arranged flaps, introduces a whole new dimension in grinding. The flap disc POLIFAN®-STRONG enables fast grinding due to constant grinding aggressiveness to the last abrasive grit. It is characterized by an extremely long tool life, the greatest possible stock removal and highest economic value.

PFERDERGONOMICS® recommends POLIFAN®-STRONG flap discs to sustainably reduce vibration, noise and dust levels generated during use.

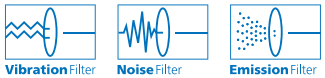
More information can be found in Catalogue 206, page 40.

POLIFAN®-STRONG-FREEZE flap discs – Grinding ice-cold

With the innovative POLIFAN®-STRONG-FREEZE, PFERD offers a flap disc with worldwide unparalleled cool grinding. The usual sparks are reduced to a minimum due to the novel structure of the abrasive. This is particularly beneficial for work on materials which do not conduct heat well, such as stainless steel (INOX). The highly effective fillers form a shiny cooling film on the flaps. This provides the basis for unprecedented cooling, aggressiveness, and tool life.

PFERDERGONOMICS® recommends POLIFAN®-STRONG-FREEZE flap discs to sustainably reduce vibration, noise and dust levels generated during use.

More information can be found in Catalogue 206, page 41.



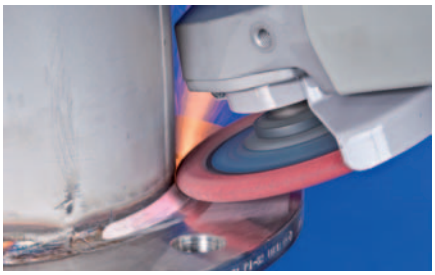
Catalogue 206
Grinding and cut-off wheels

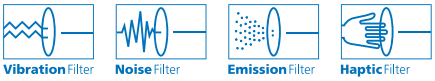
POLIFAN®-CURVE flap disc – The unique disc for work on fillet welds

POLIFAN®-CURVE is a PFERD innovation. The unique radial design offers convincing results during complex and demanding work on fillet welds through the special arrangement of the abrasive flaps. The POLIFAN®-CURVE flap disc is characterized by high stock removal, outstanding tool life and the highest economic value.

PFERDERGONOMICS® recommends flap discs POLIFAN®-CURVE to sustainably reduce vibration, noise and dust levels generated during use and to improve the working comfort.

More information can be found in Catalogue 206, pages 42–43.





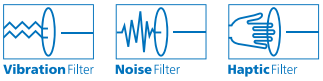
Reinforced grinding wheels WHISPER – Quiet yet highly aggressive

The reinforced grinding wheel WHISPER is a high-performance tool with an impressive machining capacity for exceptionally high stock removal. The increased productivity of the grinding process results in substantial savings in labour costs.

Through its patented design, the reinforced grinding wheel WHISPER creates noticeably less vibration and significantly less noise than conventional reinforced grinding wheels. In addition, the tool structure allows soft and comfortable grinding with excellent surface quality.

PFERDERGONOMICS® recommends reinforced grinding wheels WHISPER to sustainably reduce vibration and noise levels generated during use and to improve the grinding comfort.

More information can be found in Catalogue 206, pages 20–21.



PFERDVIDEO

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

Catalogue 207
Stationary cut-off wheels

The new tool navigation "The fast way to the best tool" on the introductory pages of Catalogue 207 simplifies your choice of stationary cut-off wheels ideally suited for your specific task. Based on the performance of your drive system, the material to be cut and the application, you select the tool best suited for your requirements.

If you cannot find the solution for your particular application in our product range, we can produce stationary cut-off wheels up to a diameter of 1,250 mm in premium PFERD quality on request, tailor-made to meet the requirements of your job. Please contact us. Our experienced technical advisors will be pleased to assist you.

New range structure

For the many different cutting tasks in industry and crafts, PFERD offers stationary cut-off wheels in two product lines with diverse special features in its new Tool Manual.

Within the product lines, the range is subdivided into five different product groups:

- **CHOPSAW** – With a middle fabric for aggressive cutting with minimized burr formation
- **CHOPSAW-HD** – With two outer fabrics for high lateral stability
- **RAIL** – For cutting of rails
- **LABOR** – For cutting of laboratory samples
- **HEAVY-DUTY** – For use with high-performance machines

More information can be found in Catalogue 207, page 4.

Product group CHOPSAW, Universal Line PS-FORTE

For universal application in industry and crafts, PFERD now offers stationary cut-off wheels with a middle fabric in the CHOPSAW product group. They impress with aggressive cutting and minimized burr formation as well as low side friction and a long tool life. The range comprises stationary cut-off wheels for processing steel and stainless steel (INOX).

More information can be found in Catalogue 207, page 6.

Product group CHOPSAW-HD, Performance Line SG-ELASTIC

In our new Tool Manual, the TABLECUT product group goes by the name CHOPSAW-HD. Cut-off wheels from the CHOPSAW-HD product group are characterized by a high lateral stability, thanks to their two outer fabrics, and by a very long tool life, which makes them ideally suited for demanding cutting work. In addition to the existing types for machining steel, cast iron and stone, stationary cut-off wheels for machining stainless steel (INOX) have also been added to the catalogue range.

More information can be found in Catalogue 207, pages 8 and 9.

PFERDVIDEO

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

Catalogue 208
Industrial power brushes

Catalogue 208 has been completed with more than 180 new brush types. These range additions concern all designs from end brushes, wheel brushes, cup brushes and bevel brushes to scratch brushes.

New optimized packaging concept

The packaging concept has been optimized for the whole product portfolio and has been adapted to meet different consumer needs. PFERD now offers the key types and dimensions in robust industrial packaging as well as in individual promotional packaging.

Moreover, the new and improved label design offers a number of benefits for the user. The new design is easier to read and its self-explanatory pictograms and images provide for better identification of the products.

The European standard hole pattern allows for excellent presentation of industrial power brushes in individual promotional packaging at the TOOL-CENTER, the point of sale from PFERD. Through the display window of the package, the products are easily visible. The robust industrial packaging optimally protects the tools from damage.

All brushes in the new Tool Manual are identified by appropriate pictograms. Moreover, brushes in individual promotional packaging are also marked with the addition "POS" in the description.

More information can be found in Catalogue 208, pages 10 and 47–48.

Wheel brushes for general purpose

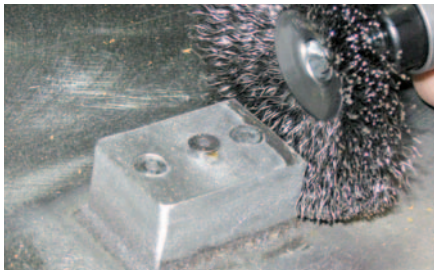
For general purpose in the workshop, PFERD has developed crimped wheel brushes with steel and stainless steel wire in various dimensions. They are ideally suited for medium-duty with hand-held and automated brushing of large workpieces. The complete range is available in individual promotional packaging.

More information can be found in Catalogue 208, page 12.

Shank mounted bevel brushes

In addition to threaded bevel brushes for use on angle grinders, PFERD now also offers shank mounted bevel brushes for use on straight grinders and flexible shaft drives. They are excellent for medium-duty brushing such as deburring, cleaning and rust removal. Due to the bevelled shape of the brush they are ideal for use in hard-to-reach areas such as inner edges, grooves and keyways. Shank mounted bevel brushes are available with steel and stainless steel wire as well as in INOX-TOTAL type.

More information can be found in Catalogue 208, pages 30 and 38.



Catalogue 208
Industrial power brushes

Wheel brushes for stationary use

In order to complete the brush product range for stationary use, PFERD has included additional types.

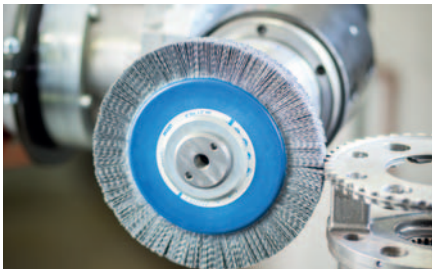
For all heavy stationary and automated brushing, PFERD has added **knotted wheel brushes** in a new design for a more aggressive and powerful performance. Owing to their stability, they withstand high mechanical loads.

More information can be found in Catalogue 208, page 19.

In addition to composite disc brushes, PFERD now also offers **composite wheel brushes (crimped)**. Thanks to their special design, they are distinguished by a long tool life, aggressive brushing action and extremely smooth operating characteristics. Due to the plastic filaments, they are particularly well suited for deburring of difficult components such as cylinder heads or gear toothing.

PFERDERGONOMICS® recommends composite wheel brushes to sustainably reduce vibration levels during use.

More information can be found in Catalogue 208, page 21.



VibrationFilter

Scratch brushes with plastic bodies

Scratch brushes with plastic bodies have been newly added to the range. They are universally applicable for all light cleaning and rust removal tasks. The curved two-component handle allows safe and ergonomic work. For applications in the foodstuff industry, PFERD also offers a version with stainless steel wire.

PFERDERGONOMICS® recommends scratch brushes with plastic bodies to improve working comfort.

More information can be found in Catalogue 208, page 42.

HapticFilter

PFERDVIDEO

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

Catalogue 209
Tool drives

Catalogue 209 has been optimized graphically and in terms of content. Apart from many new air grinders, electric grinders and flexible shaft drives, further information on the use of tool drives as well as their service and maintenance has been added. The restructured and optimized product descriptions help you to recognize the characteristics and advantages of the individual tool drives straight away. The flexible shaft drives and accessories in particular are presented even more clearly due to the revision of the layout.

New air grinders

The **straight grinder PGAS 2/800 E** (80,000 RPM, 110 watts) generates considerably fewer vibrations than comparable tool drives thanks to its elastically mounted spindle. The elastically mounted spindle minimizes tooth breakages when using it with tungsten carbide burrs.

More information can be found in Catalogue 209, page 10.

Owing to their light-weight and particularly slim design, the **straight grinders PGAS 1/700** (70,000 RPM, 100 watts) and **PGAS 1/550** (55,000 RPM, 100 watts) enable effort-saving, low-fatigue and ergonomic working. They ensure good performance even in the high speed range.

More information can be found in Catalogue 209, pages 12 and 15.

The **EFH PG 3/210 guide sleeve** was specially designed for use with **straight grinder PG 3/210 DH** (21,000 RPM, 220 watts). In combination with the guide sleeve, the straight grinder is ideally suited for use with tungsten carbide burrs for work on edges (cut EDGE).

More information can be found in Catalogue 209, page 25.

Catalogue 209
Tool drives

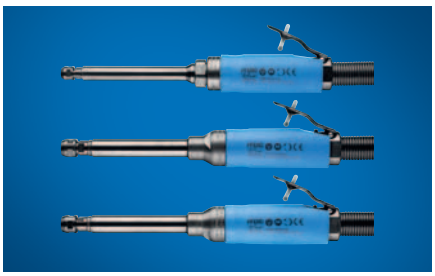
The **straight grinders PGAS 4/350 E** (35,000 RPM, 290 watts) and **PGAS 7/250 E-HV** (25,000 RPM, 540 watts) feature an elastically mounted spindle, which ensures low-vibration operation. This guarantees longer tool life particularly in applications with tungsten carbide burrs.

More information can be found in Catalogue 209, pages 19 and 22.

Vibration Filter

The **straight grinders PGAS 8/220 VS-HV** (22,000 RPM, 600 watts), **PGAS 8/160 VM-HV** (16,000 RPM, 600 watts) and **PGAS 8/100 VM-HV** (10,000 RPM, 600 watts) feature a particularly slim drive extension, which provides for ease of handling. This allows for greater handling convenience, especially in boreholes and hard-to-reach areas.

More information can be found in Catalogue 209, pages 24, 29 and 33.



Haptic Filter

The **angle grinder PWAS 13/120 AVH** (12,000 RPM, 1,100 watts) features an autobalancer and an ergonomically optimized anti-vibration handle and thus generates fewer vibrations than comparable tool drives. It is particularly suited for use with the COMBICLICK® quick-mounting system.

More information can be found in Catalogue 209, page 47.

Vibration Filter

The powerful **angle grinder PWAS 4/45 HV-CD** (4,500 RPM, 250 watts) was specially designed for use with all low-speed COMBIDISC® tools and is perfectly suited for fine grinding and polishing.

More information can be found in Catalogue 209, page 48.

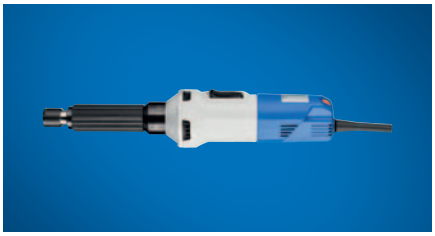

13/120 AVH
Germany

Catalogue 209
Tool drives

New electric grinders

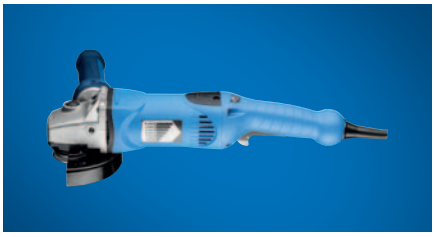
The **straight grinder UGER 11/90 SI** (3,800–8,300 RPM, 1,050 watts) features an ideal speed-performance ratio. It is very handy and therefore easy to use.

More information can be found in Catalogue 209, page 63.



The **angle grinder UWER 18/120 SI** (max. tool diameter 115 mm, 2,800–11,500 RPM, 1,750 watts) and **UWER 18/110 SI** (max. tool diameter 125 mm, 2,700-11,000 RPM, 1,750 watts) are high-performance drives with stepless rotational speed adjustment and therefore suitable for many different uses. The anti-vibration handle SENSOHANDLE provides for low-vibration operation.

More information can be found in Catalogue 209, pages 67 and 68.

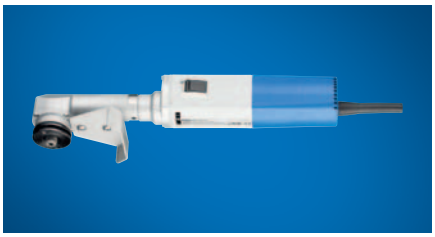


The **electric motors EMER 5/250 SI** (11,000–25,000 RPM, 500 watts) and **EMER 11/90 SI** (3,800–8,300 RPM, 1,050 watts) are suitable for many different uses thanks to stepless rotational speed adjustment. In combination with rigid extensions, they are the ideal solution for applications in hard-to-access workpieces, e.g. cleaning or milling work.

More information can be found in Catalogue 209, pages 72 and 73.

The **fillet weld grinder KNER 5/34 V-SI** (1,500–3,400 RPM, 500 watts) was specially designed for grinding work on fillet welds and in hard-to-reach areas. It is very easy to use, light-weight and powerful.

More information can be found in Catalogue 209, page 74.



New flexible shaft drives

The new **Maxi-Mammoth Electronic MME 40/150** (0–15,000 RPM, 6,100 watts) is the most powerful drive motor by PFERD and impresses with its stepless speed adjustment, vibration damper, restart protection and a base with pivot device. Combined with flexible shafts, it is particularly well-suited for grinding and polishing work with high-power output requirements.

More information can be found in Catalogue 209, page 87.

The new **special flexible shafts BW PST-T** are not provided with a handpiece for holding the tool and are particularly flexible in the front section. With screws (INOX type) or adequate adapters, the grinding tools can be directly mounted to the core of the flexible shaft. This combination is highly suitable for gradual fine grinding and cleaning of inner surfaces of pipes and pipe bends.

More information can be found in Catalogue 209, page 102.

Personal protection equipment

The special design of the **anti-vibration handle SENSOHANDLE** provides for a significantly reduced transfer of vibrations. Its ergonomically optimized shape ensures safe and comfortable working. It can be used together with all commercially available angle grinders with M8, M10 or M14 female threads.

More information can be found in Catalogue 209, page 110.

Vibration Filter Haptic Filter

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