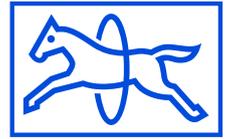


PFERD



TOOLS



Industrial power brushes



Industrial power brushes

Table of contents



Industrial power brushes

- Highlights from the PFERD TOOLS range 3
- Filament materials and their application 4
- The quick way to find the perfect tool 6
- Safety notes 9
- Cutting speeds 10
- Well packaged and presented 11



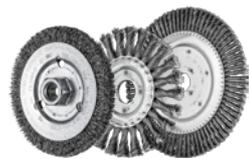
Threaded cup brushes

- crimped 12
- knotted 13



Threaded bevel brushes

- crimped 15
- knotted 15



Wheel brushes

- crimped 16
- knotted 17
- Pipeline 18
- crimped, with hole 19



Shank-mounted end brushes

- crimped 21
- knotted 22



Shank-mounted cup brushes

- crimped 24



Shank-mounted bevel brushes

- crimped 25



Shank-mounted wheel brushes

- crimped 26
- knotted 27



Brush sets

- Brush sets 28



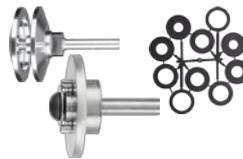
Tube brushes

- Tube brushes 29



Universal brushes

- Threaded cup brushes, crimped 30
- Threaded cup brushes, knotted 30
- Threaded bevel brushes, knotted 31
- Wheel brushes, knotted 31
- Wheel brushes, pipeline 32
- Wheel brushes, crimped 32
- Shank-mounted universal cup brushes, crimped 33
- Shank-mounted universal wheel brushes, crimped 33
- Universal scratch brushes, curved 33



Accessories

- Arbor 34
- Adapter 34
- Accessories for tube brushes 35



Scratch brushes

- Scratch brushes 36



Industrial power brushes

Highlights from the PFERD TOOLS range

Composite brushes for stationary applications

PFERD TOOLS offers a comprehensive range of high-quality industrial power brushes, specially designed for stationary applications on robots and CNC machines.



Composite brushes from PFERD TOOLS are specially designed for the demands of automated workpiece machining. Compared to conventional metal constructions, they feature an extremely high filament density and a very even distribution of the filament material. This guarantees a long tool life and extremely smooth running.

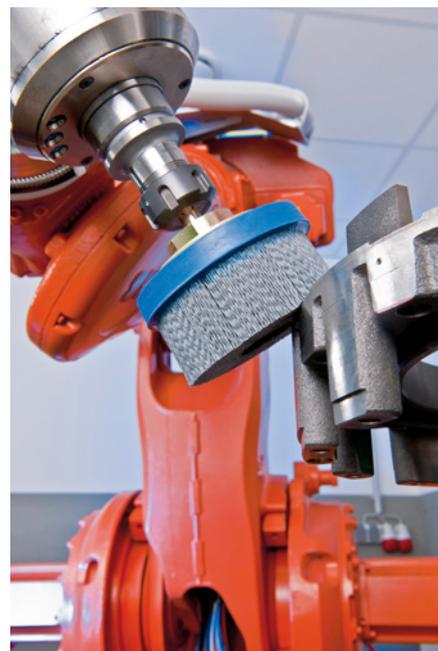
All of the industrial power brushes made by PFERD TOOLS can also be used on robots.

Industrial power brushes in stationary applications are most commonly used for deburring and rounding edges, processing holes and female threads, work on surfaces and cleaning.

Scan the QR code to find out more about composite brushes for stationary applications.

Advantages:

- Long tool life and aggressive brushing effect due to a very high filament density.
- High flexibility due to their ability to adapt to contours. Robots that are used with industrial power brushes are easier to program and can often be used without compliance.
- Very reliable process with extremely smooth operation due to even distribution of the filament material.



INOX-TOTAL

In addition to brushes with a stainless steel filament, PFERD TOOLS also offers brushes for work on stainless steel (INOX) with the INOX-TOTAL type. They are particularly well-suited to use in extremely critical environments.



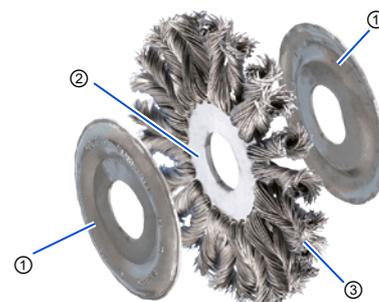
Structure of a wheel brush with arbor hole INOX-TOTAL:

- ① Side plates made of stainless steel (INOX)
- ② Centre disc made of stainless steel (INOX)
- ③ Filament made of stainless steel (INOX)

Scan the QR code to find out more about INOX-TOTAL brushes.

Advantages:

- Maximum protection against corrosion as all components are produced from stainless steel (INOX) in quality 1.4310/1.4301 (V2A).



Brushes with cord wire filament

Aggressive yet flexible – industrial power brushes with cord wire offer the perfect combination of aggressive brushing effect and flexibility. With this special wire construction, multiple wavy wire filaments are stranded together. As a result, they work effectively and aggressively like a knotted brush and, at the same time, flexibly like a wavy brush.



Scan the QR code to find out more about brushes with cord wire.

Advantages:

- More aggressive brushing effect compared to conventional crimped brushes due to the special wire construction which provides the wires with additional stability.
- Perfect for complex geometries and hard-to-reach areas as the many small wires make the cord wire highly flexible.



- Ideally suited to demanding tasks due to the durability and resilience of the individual wires.

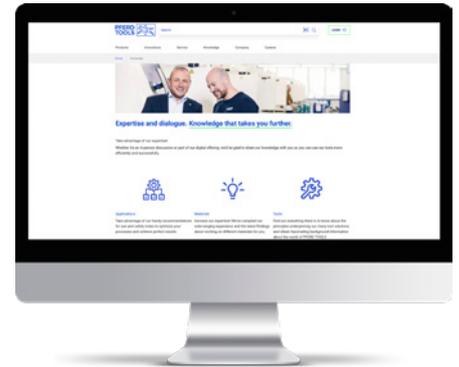
Industrial power brushes

Highlights from the PFERD TOOLS range



More expert information online

Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.



Filament materials and their application

Selecting the filament material

| Filament material | Material to be working on | | | | | | |
|---|---------------------------|------------------------|--------------------|--|---|-----------|----------|
| | Steel | Stainless steel (INOX) | Non-ferrous metals | | | Cast iron | Plastics |
| | | | Aluminium | Soft non-ferrous metals Brass, copper, zinc | Hard non-ferrous metals Titanium, bronze, nickel-based and cobalt-based alloys | | |
| Steel wire (ST) | ● | - | - | - | - | ● | ○ |
| Steel cord wire (LIT ST, LIT STM) | ● | - | - | - | - | ● | ○ |
| Stainless steel wire (INOX) | ○ | ● | ● | ○ | ○ | - | - |
| Stainless steel cord wire (LIT INOX) | ○ | ● | ● | ○ | ○ | - | - |
| Stainless steel wire (INOX) Diamond (DIA) | ○ | - | - | - | ● | ● | ● |
| Brass wire (MES) | - | - | - | ● | - | - | - |
| Silicon carbide (SiC) | ● | ● | ● | - | ○ | ● | ● |
| Aluminium oxide (AO) | ○ | ○ | ● | - | - | ○ | ○ |
| Ceramic oxide grain (CO) | ● | ○ | ○ | - | ● | ● | - |
| Diamond (DIA) | ○ | - | - | - | ● | ● | ● |
| Nylon | - | - | ○ | ○ | - | - | ● |
| Bristle and goat hair (with polishing paste) | ● | ● | ● | ● | ● | ● | ● |

● = highly suitable ○ = suitable - = not suitable



Wire filament

- **Crimped brushes (wavy wire):** for work with particular requirements on the flexibility of the brushes, such as machining of highly contoured workpieces.
- **Knotted brushes (straight wire):** for work that requires aggressive brushing behaviour, such as work on weld seams.



Steel wire (ST, LIT ST)

Advantages/properties:

- PFERD TOOLS special wire with high tensile strength and bending fatigue strength.
- Guarantees a long tool life, even for extreme brushing applications.
- Temperature resistance: up to 300°C



Stainless steel wire (INOX, LIT INOX)

Advantages/properties:

- Wire quality 1.4310/1.4301 (V2A): stainless; does not leave corroding residues on the workpiece.
- Used with low rotational speeds, compared to steel wire.
- PFERD TOOLS brushes with INOX filament are usually degreased.
- Temperature resistance: up to 450°C



Stainless steel wire (INOX) diamond (DIA)

Advantages/properties:

- Particularly well suited to applications that place particular demands on the aggressiveness of the brush.
- Primarily used on materials with high material strength.
- Temperature resistance: up to 450°C



Brass wire (MES)

Advantages/properties:

- Wire quality CuZn37: brass wire is softer than steel wire.
- It is non-sparking and produces fine surface finishes.
- Temperature resistance: up to 180°C

Plastic filament

- Abrasive grains are embedded in flexible plastic filaments, which means that the filament works on the sides as well as at the tip.
- **Round filament:** for applications that place particular demands on the flexibility of the brush.
- **Rectangular filament (REC):** for applications that place particular demands on the aggressiveness of the brush.
- Recommendation for use: Use coolant for applications where large amounts of heat are produced.



Silicon carbide (SiC)

Advantages/properties:

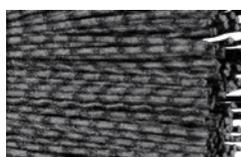
- Particularly well suited to deburring work and for improving surfaces.
- Temperature resistance up to 220°C



Aluminium oxide (AO)

Advantages/properties:

- Less sharp-edged and aggressive compared with SiC.
- Primarily suitable for polishing and smoothing finishes on soft metals.
- Temperature resistance up to 220°C



Ceramic oxide grain (CO)

Advantages/properties:

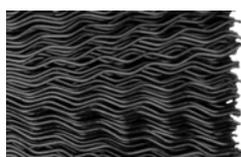
- Offers good toughness and excellent sharpness.
- For high stock removal and aggressive brushing.
- Temperature resistance up to 220°C



Diamond (DIA)

Advantages/properties:

- Particularly well suited to applications that place particular demands on the aggressiveness of the brush.
- Primarily used on materials with high material strength.
- Temperature resistance up to 220°C



Nylon

Advantages/properties:

- Particularly suited to working with materials that would otherwise be scratched or damaged, e.g. soft plastics.
- Temperature resistance up to 220°C

Natural bristles

- Primarily suitable for light cleaning and dust removal, as well as for polishing (in combination with polishing pastes).



White (SBW) and black (SBS) bristles

Advantages/properties:

- Bristles are harder and less flexible than brushes with goat hair filament.
- Temperature resistance: up to 150°C



Goat hair (ZHW)

Advantages/properties:

- Goat hair is more flexible and softer than bristle.
- Temperature resistance: up to 150°C

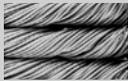
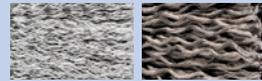
Industrial power brushes

The quick way to find the perfect tool



- ① **Select the filament material.** The material that you are working with is key to determining the optimum filament material.
 - ② **Select the filament type.** The brushing effect you want determines which filament type to choose.
 - ③ **Select the tool.** The application and geometry of the workpiece indicate the optimum brush.
-



| Materials that can be worked | Steel, cast iron, plastics | | | Stainless steel (INOX), aluminium, other non-ferrous metals | | |
|--|--|---|---|--|---|--|
| Filament material | Steel wire (ST, LIT ST, LIT STM) Colour code: grey | | | Stainless steel wire (INOX, LIT INOX) Colour code: blue | | |
| Filament type |  knotted |  crimped |  encapsulated |  knotted |  crimped | |
| Desired effect | Aggressive brushing effect, less flexible | Light brushing effect, flexible | Very aggressive brushing effect, not flexible | Aggressive brushing effect, less flexible | Light brushing effect, flexible | |
| Weld seam  |  RBG  RBG PIPE |  HBU  HBK |  RBV |  RBG  RBG PIPE |  HBU  HBK | |
| Structuring surfaces  | |  RBU  RBU SC  WBU | | |  RBU  WBU | |
| Edge deburring  |  KBG  RBG  RBG |  KBU  RBU  RBU  RBU |  RBV |  KBG  RBG  RBG |  KBU  RBU  RBU  RBU | |
| Surface deburring  |  TBG |  TBU  TBU | |  TBG |  TBU  TBU | |
| Interior deburring  |  PBG |  PBU  PBU  TBU  IBU |  PBV |  PBG |  PBU  PBU  TBU  IBU | |
| Surface cleaning  |  TBG  KBG  RBG  RBG |  TBU  KBU  RBU  RBU  HBU | |  TBG  KBG  RBG  RBG |  TBU  KBU  RBU  RBU  HBU | |
| Interior cleaning  |  PBG |  PBU  PBU  TBU |  PBV |  PBG |  PBU  PBU  TBU  IBU | |

| Materials that can be worked | Brass, copper, other non-ferrous metals | Steel, stainless steel (INOX), aluminium, non-ferrous metals, titanium, cast, plastics, wood | Steel, stainless steel (INOX), non-ferrous metals, cast iron | | | | | | |
|---|--|---|--|--|--|--|--|--|--|
| Filament material | Brass wire (MES) Colour code: yellow | Plastic filament (SiC, CO, nylon) Colour code: red | Natural materials Colour code: brown | | | | | | |
| Filament type |  crimped |  crimped |  crimped | | | | | | |
| Desired effect | Light brushing effect, flexible | Grinding brushing effect, very flexible | Light brushing effect (use with polishing pastes) | | | | | | |
| Weld seam  |  HBU | | | | | | | | |
| Structuring surfaces  | |  RBU |  RBUP |  WBU | | | | | |
| Edge deburring  |  RBU |  RBU |  RBU |  RBUP |  RBU |  RBU | | | |
| Surface deburring  | |  TBU |  DBU |  TBU | | | | | |
| Interior deburring  |  PBU |  PBU |  TBU |  IBU |  PBU |  PBU |  TBU |  IBU | |
| Surface cleaning  |  RBU |  HBU |  TBU |  RBU |  RBUP |  DBU |  TBU |  RBU | |
| Interior cleaning  |  PBU |  IBU |  PBU |  PBU |  TBU |  IBU |  PBU |  TBU | |
| Polishing  | | | | | | |  RBU |  PBU |  TBU |

Industrial power brushes

Safety notes



Safety notes:

As one of the leading manufacturers of brush tools, PFERD TOOLS fulfils the requirements of European standard EN 1083. Guidelines on the safe and economic use of PFERD TOOLS brushes are supplied with every packaging unit. They help you to increase your level of personal work safety.



Wear eye protection!



Wear hearing protection!



Wear a dust mask!



Wear gloves!



Observe the safety notes!



Use a protective machine guard!

Maximum permitted rotational speed

In order to guarantee operating safety, the maximum permitted rotational speed indicated on the brush, label and in this catalogue must never be exceeded! Please refer to our product information and product tables for further recommendations regarding optimum operating speeds. These give details of the recommended rotational speeds [RPM] for an optimum working result.

Brush diameter

In the case of hand-held tool drives, the brush diameter should never exceed 180 mm, regardless of the filament material.

| Total dia. D of the brush [mm] | Minimum arbor hole dia. D_A [mm] |
|--------------------------------|------------------------------------|
| 50 | 4.6 |
| 75 | 6.5 |
| 100 | 10 |
| 150 | 13 |
| 200 | 16 |
| 250 | 20 |
| 300 | 20 |
| 350 | 32 |

Minimum arbor hole diameter according to EN 1083

Brushes must comply with the minimum arbor hole diameters (D_A) listed below, depending on their total diameter (D).



Determining the recommended rotational speed

- ① Select the brush type.
- ② Read the recommended cutting speed.
- ③ Determine the rotational speed using the brush diameter and cutting speed.

The recommended cutting speed ranges [m/s] depend on the respective application and lie below the maximum permitted cutting speed.

| ① Brush type | ② Cutting speed |
|--|-------------------|
| End brushes | 5–15 m/s |
| Cup brushes | 15–45 m/s |
| Shank-mounted wheel brushes | 15–40 m/s |
| Rund-/Kegelbürsten mit Bohrung/Gewinde | See diagram below |

② Recommended cutting speed [m/s] for wheel/bevel brushes with arbor hole/threaded.

The colour bars correspond to the colour codes of the filament materials.

| Application | | [m/s] | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------------------------------------|---------|-------|----|-----------|----|-----------|-----------|-----------|----|----|----|----|
| Deburring/ edge breaking | knotted | | | | | | | 35–45 m/s | | | | |
| | | | | | | | 30–40 m/s | | | | | |
| | crimped | | | | | 25–40 m/s | | | | | | |
| | | | | 15–30 m/s | | | | | | | | |
| Removal of scale/ mill scale | knotted | | | | | | | 35–55 m/s | | | | |
| | | | | | | | 30–40 m/s | | | | | |
| | crimped | | | | | 20–40 m/s | | | | | | |
| | | | | 15–30 m/s | | | | | | | | |
| Cleaning/ roughening of surfaces | knotted | | | | | | | 35–40 m/s | | | | |
| | | | | | | | 30–35 m/s | | | | | |
| | crimped | | | | | 15–35 m/s | | | | | | |
| | | | | 15–30 m/s | | | | | | | | |
| Weld dressing | knotted | | | | | | | 35–55 m/s | | | | |
| | | | | | | | 30–40 m/s | | | | | |
| | crimped | | | | | | 30–45 m/s | | | | | |
| | | | | | | | 25–40 m/s | | | | | |

③ Recommended rotational speeds [RPM]

Example:

RBG 11512 ST

Cleaning surfaces

Brush diameter D: 115 mm

Cutting speed: 39 m/s

Rotational speed: 6,500 RPM

| n [RPM] | Brush dia. D [mm] | | | | | | | | | | | | | | | | | | | |
|------------|-------------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | 115 | 125 | 150 | 175 | 200 | 250 | 300 | | |
| 1,000 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 13 | 16 | | |
| 1,250 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 7 | 8 | 8 | 10 | 11 | 13 | 16 | 20 | | |
| 1,500 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 6 | 8 | 9 | 10 | 12 | 14 | 16 | 20 | 24 | | |
| 1,750 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 7 | 7 | 9 | 11 | 11 | 14 | 16 | 18 | 23 | 27 | | |
| 2,000 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 6 | 8 | 8 | 10 | 12 | 13 | 16 | 18 | 21 | 26 | 31 | | |
| 2,500 | 1 | 2 | 3 | 3 | 4 | 5 | 7 | 8 | 10 | 10 | 13 | 15 | 16 | 20 | 23 | 26 | 33 | 39 | | |
| 3,000 | 2 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 12 | 13 | 16 | 18 | 20 | 24 | 27 | 31 | 39 | 47 | | |
| 3,500 | 2 | 3 | 4 | 5 | 5 | 7 | 9 | 11 | 14 | 15 | 18 | 21 | 23 | 27 | 32 | 37 | 46 | 55 | | |
| 4,000 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 13 | 16 | 17 | 21 | 24 | 26 | 31 | 37 | 42 | 52 | 63 | | |
| 4,500 | 2 | 4 | 5 | 6 | 7 | 9 | 12 | 14 | 18 | 19 | 24 | 27 | 29 | 35 | 41 | 47 | 59 | 71 | | |
| 5,000 | 3 | 4 | 5 | 7 | 8 | 10 | 13 | 16 | 20 | 21 | 26 | 30 | 33 | 39 | 46 | 52 | 65 | 79 | | |
| 5,500 | 3 | 4 | 6 | 7 | 9 | 12 | 14 | 17 | 22 | 23 | 29 | 33 | 36 | 43 | 50 | 58 | 72 | | | |
| 6,000 | 3 | 5 | 6 | 8 | 9 | 13 | 16 | 19 | 24 | 25 | 31 | 36 | 39 | 47 | 55 | 63 | 79 | | | |
| 6,500 | 3 | 5 | 7 | 9 | 10 | 14 | 17 | 20 | 26 | 27 | 34 | 39 | 43 | 51 | 60 | 68 | | | | |
| 7,000 | 4 | 5 | 7 | 9 | 11 | 15 | 18 | 22 | 27 | 29 | 37 | 42 | 46 | 55 | 64 | 73 | | | | |
| 7,500 | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 24 | 29 | 31 | 39 | 45 | 49 | 59 | 69 | 79 | | | | |
| 8,000 | 4 | 6 | 8 | 10 | 13 | 17 | 21 | 25 | 31 | 34 | 42 | 48 | 52 | 63 | 73 | | | | | |
| 10,000 | 5 | 8 | 10 | 13 | 16 | 21 | 26 | 31 | 39 | 42 | 52 | 60 | 65 | 79 | | | | | | |
| 12,000 | 6 | 9 | 13 | 16 | 19 | 25 | 31 | 38 | 47 | 50 | 63 | 72 | 79 | | | | | | | |
| 14,000 | 7 | 11 | 15 | 18 | 22 | 29 | 37 | 44 | 55 | 59 | 73 | | | | | | | | | |
| 16,000 | 8 | 13 | 17 | 21 | 25 | 34 | 42 | 50 | 63 | 67 | | | | | | | | | | |
| 20,000 | 10 | 16 | 21 | 26 | 31 | 42 | 52 | 63 | 79 | | | | | | | | | | | |
| 22,000 | 12 | 17 | 23 | 29 | 35 | 46 | 58 | 69 | | | | | | | | | | | | |
| 25,000 | 13 | 20 | 26 | 33 | 39 | 52 | 65 | 79 | | | | | | | | | | | | |

$$\text{Cutting speed (v)} = \frac{\text{dia. (D)} \times \pi \times \text{rot. speed (n)}}{1,000 \times 60}$$

Industrial power brushes

Well packaged and presented



Industrial packaging

PFERD TOOLS provides industrial power brushes in industrial packaging (IP) as standard.

Advantages:

- Robust, damage-resistant packaging.

POS packaging

PFERD TOOLS provides wheel, cup, end and bevel brushes in promotional individual packaging. Individually packed shank brushes are supplied in a practical cardboard box. The addition of "POS" in the designation indicates all brushes in POS packaging.

Advantages:

- Functional European standard hole mounting for optimum product presentation on the sales wall.
- Product is easily recognizable through the viewing window.

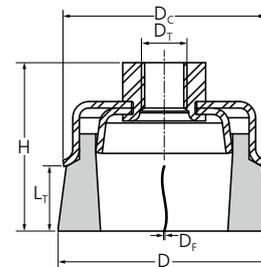
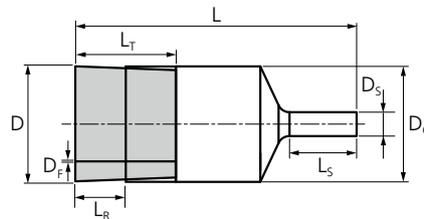
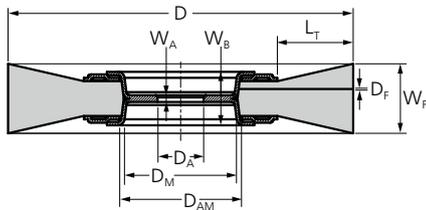


IP



POS

Dimensions



Wheel brushes

End brushes

Cup brushes

Explanation of dimensions

| | | | | | |
|-----------------------|--|----------------------|--|----------------------|---|
| D | Nominal outer diameter of the brush or the working surface for end brushes | D_S | Shank diameter in shank-mounted brushes, shaft diameter for wheel brushes for burnishing machines, stem diameter (core) for pipe brushes | L_S | Usable length for shank or stem, total length of the mounting shaft, usable thread length |
| D_A | Hole diameter | D_T | Nominal thread designation | L_T | Nominal length of the filament material (free length of the filament material) |
| D_{AM} | Max. hole diameter in main body | H | Nominal total height (incl. components for arbor hole or thread as well as shank) | W_A | Width of the main body at the hole / thread |
| D_C | Max. diameter of the main body | L | Nominal total length for end brushes (without guide pins) and pipe brushes | W_B | Installation width, widest point of the main body |
| D_F | Nominal dimension of the filament material (wire thickness) | L_R | Total length of the filament material (free length without bridle) | W_F | Nominal dimension of the working width |
| D_M | Diameter in hole area | | | | |



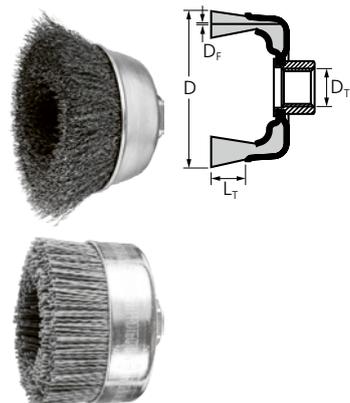
Threaded cup brushes

Dimensions

Custom-made products

If you cannot find the solution for your particular application in our extensive catalogue range, we can produce brushes in premium PFERD TOOLS quality specifically for your application on request. Products that can be made to order include different wire thicknesses and qualities, arbor holes or threads and other dimensions.

crimped



TBU

Excellent for medium-duty brushing such as deburring, cleaning and derusting on large surfaces.



Special features:

- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

| D [mm] | L _T [mm] | D _T | D _F [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|-----------|------------------------|----------------|------------------------|----------|----------|---|----------|-------------|
|-----------|------------------------|----------------|------------------------|----------|----------|---|----------|-------------|

Steel wire (ST)

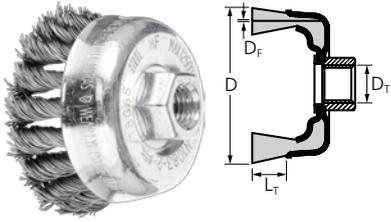
| | | | | | | | | |
|-----|----|-------|------|---------------|--------|---|----------|-------------------------|
| 60 | 20 | M14x2 | 0.30 | 6,300 – 9,400 | 12,500 | 1 | 43468902 | POS TBU 60/M14 ST 0,30 |
| 75 | 25 | M14x2 | 0.30 | 6,300 – 9,400 | 12,500 | 1 | 43469001 | POS TBU 75/M14 ST 0,30 |
| 100 | 25 | M14x2 | 0.30 | 4,300 – 6,400 | 8,500 | 1 | 43469102 | POS TBU 100/M14 ST 0,30 |

Stainless steel wire (INOX) – All INOX brushes are degreased.

| | | | | | | | | |
|-----|----|-------|------|---------------|--------|---|----------|---------------------------|
| 60 | 20 | M14x2 | 0.30 | 5,000 – 8,100 | 12,500 | 1 | 43468905 | POS TBU 60/M14 INOX 0,30 |
| 75 | 25 | M14x2 | 0.30 | 5,000 – 8,100 | 12,500 | 1 | 43469003 | POS TBU 75/M14 INOX 0,30 |
| 100 | 25 | M14x2 | 0.30 | 3,400 – 5,500 | 8,500 | 1 | 43469103 | POS TBU 100/M14 INOX 0,30 |

Threaded cup brushes

knotted



TBG

Aggressive brush. Excellent for heavy-duty brushing such as deburring, cleaning, derusting and descaling and removal of spatter.



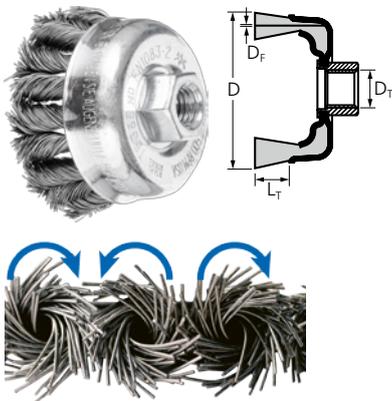
Special features:

- Aggressive brushing effect due to the very stiff wire knots.

| D [mm] | L _T [mm] | D _T | D _F [mm] | Knots | Opt. RPM | Max. RPM |  | Item no. | Designation |
|------------------------|---------------------|----------------|---------------------|-------|----------------|----------|---|----------|----------------------------|
| Steel wire (ST) | | | | | | | | | |
| 65 | 22 | M10x1.50 | 0.35 | 18 | 5,000 – 12,500 | 12,500 | 1 | 47701479 | POS TBG 65/M10x1,5 ST 0,35 |
| | | M14x2 | 0.35 | 18 | 6,300 – 12,500 | 12,500 | 1 | 43305002 | POS TBG 65/M14 ST 0,35 |

Stainless steel wire (INOX) – All INOX brushes are degreased.

| | | | | | | | | | |
|-----|----|----------|------|----|----------------|--------|---|----------|------------------------------|
| 65 | 22 | M10x1.50 | 0.35 | 18 | 5,000 – 12,500 | 12,500 | 1 | 47701480 | POS TBG 65/M10x1,5 INOX 0,35 |
| | | M14x2 | 0.35 | 18 | 5,000 – 12,500 | 12,500 | 1 | 43305003 | POS TBG 65/M14 INOX 0,35 |
| 80 | 20 | M14x2 | 0.35 | 20 | 4,000 – 10,000 | 10,000 | 1 | 43306033 | POS TBG 80/M14 INOX 0,35 |
| 100 | 25 | M14x2 | 0.35 | 24 | 3,600 – 9,000 | 9,000 | 1 | 43308033 | POS TBG 100/M14 INOX 0,35 |



TBG CT, COMBITWIST

Very aggressive brush. Excellent for heavy-duty brushing such as deburring, cleaning, derusting and descaling and removal of spatter. Suitable for work on corners and edges as the knots are less likely to unravel.

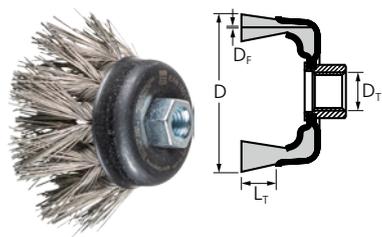
Special features:

- Maximum economic efficiency due to maximum tool life and stock removal rate.
- High level of comfort thanks to smooth running with no brush recoiling.
- Aggressive brushing effect due to the very stiff wire knots.

| D [mm] | L _T [mm] | D _T | D _F [mm] | Knots | Opt. RPM | Max. RPM |  | Item no. | Designation |
|------------------------|---------------------|----------------|---------------------|-------|----------------|----------|---|----------|---------------------------|
| Steel wire (ST) | | | | | | | | | |
| 65 | 22 | M14x2 | 0.50 | 18 | 6,300 – 12,500 | 12,500 | 1 | 43305051 | POS TBG 65/M14 CT ST 0,50 |
| 125 | 25 | M14x2 | 0.90 | 30 | 3,500 – 7,000 | 7,000 | 1 | 79168124 | TBG 125/M14 CT ST 0,90 |

Threaded cup brushes

knotted



TBG, DIA

Brushes with stainless steel wire (INOX) diamond (DIA) filament material are suitable for applications that place particular demands on the aggressiveness of the brush. They are primarily used on materials with high material strength.

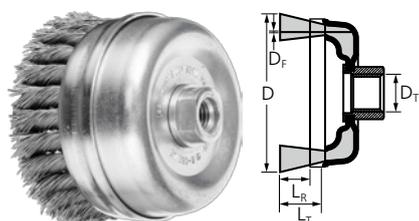
Special features:

- The knots of the brush are knotted to 50% of the length, ensuring an optimal ratio of aggressiveness and flexibility.
- The brush achieves a better surface quality on uneven surfaces than conventional knotted brushes.

| D [mm] | L _T [mm] | D _T | Grit size | D _F [mm] | Knots | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|----------------|-----------|---------------------|-------|----------|----------|---|----------|-------------|
|--------|---------------------|----------------|-----------|---------------------|-------|----------|----------|---|----------|-------------|

Stainless steel wire (INOX) diamond (DIA)

| | | | | | | | | | | |
|----|----|-------|-----|------|----|---------------|--------|---|----------|------------------------------|
| 65 | 22 | M14x2 | 270 | 0.50 | 18 | 1,500 – 3,700 | 12,500 | 1 | 43703023 | TBG 65/M14 INOX 0,50 DIA 270 |
|----|----|-------|-----|------|----|---------------|--------|---|----------|------------------------------|



TBGR, with bridle

Aggressive brush with bridle. Excellent for heavy-duty brushing such as deburring, cleaning, derusting and descaling, as well as removing spatter on large areas. The brush impresses with a particularly long tool life.

Special features:

- The bridle prevents the wires spreading out sideways. The bridle enables the spreading out and flexibility of the brush filament to be controlled.
- If the filament has worn away down to the bridle, it can be removed from the bridle for further use. This does not affect the brushing behaviour.
- Aggressive brushing effect due to the very stiff wire knots.

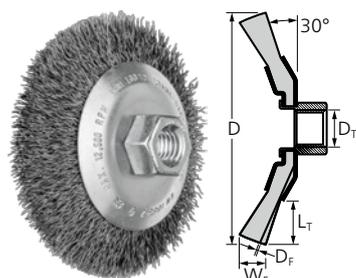
| D [mm] | L _R [mm] | L _T [mm] | D _T | D _F [mm] | Knots | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|----------------|---------------------|-------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|----------------|---------------------|-------|----------|----------|---|----------|-------------|

Steel wire (ST)

| | | | | | | | | | | |
|-----|----|----|-------|------|----|---------------|-------|---|----------|----------------------|
| 80 | 25 | 40 | M14x2 | 0.50 | 22 | 4,300 – 8,500 | 8,500 | 1 | 43306001 | TBGR 80/M14 ST 0,50 |
| 100 | 25 | 40 | M14x2 | 0.50 | 26 | 4,300 – 8,500 | 8,500 | 1 | 43308001 | TBGR 100/M14 ST 0,50 |

Threaded bevel brushes

crimped



External nut, crimped

Excellent for medium-duty brushing such as deburring, cleaning and derusting. Can be used on angle grinders up to 80 m/s.



Special features:

- Optimal access to hard-to-reach areas such as inner edges, grooves and keyways.
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

| D [mm] | W _F [mm] | L _T [mm] | D _T | D _F [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|----------------|---------------------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|----------------|---------------------|----------|----------|---|----------|-------------|

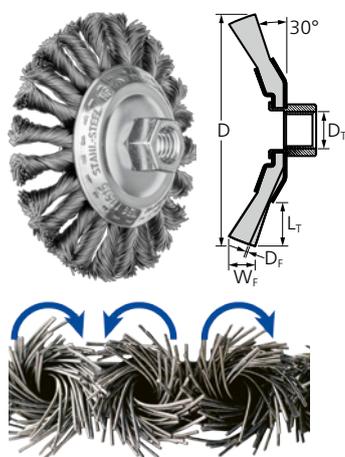
Steel wire (ST)

| | | | | | | | | | |
|-----|----|----|-------|------|----------------|--------|---|----------|---------------------------|
| 100 | 10 | 22 | M14x2 | 0.35 | 6,300 – 12,500 | 12,500 | 1 | 43316001 | POS KBU 10010/M14 ST 0,35 |
|-----|----|----|-------|------|----------------|--------|---|----------|---------------------------|

Stainless steel wire (INOX) – All INOX brushes are degreased.

| | | | | | | | | | |
|-----|----|----|-------|------|----------------|--------|---|----------|-----------------------------|
| 100 | 10 | 22 | M14x2 | 0.35 | 5,000 – 12,500 | 12,500 | 1 | 43316003 | POS KBU 10010/M14 INOX 0,35 |
|-----|----|----|-------|------|----------------|--------|---|----------|-----------------------------|

knotted



KBG CT, COMBITWIST

Very aggressive brush. Excellent for heavy-duty brushing such as deburring, cleaning, derusting and descaling and removal of spatter. Suitable for work on corners and edges as the knots are less likely to unravel.



Special features:

- Optimal access to hard-to-reach areas such as inner edges, grooves and keyways.
- Maximum economic efficiency due to maximum tool life and stock removal rate and high level of comfort thanks to smooth running with no brush recoiling.
- Aggressive brushing effect due to the very stiff wire knots.

| D [mm] | W _F [mm] | L _T [mm] | D _T | D _F [mm] | Knots | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|----------------|---------------------|-------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|----------------|---------------------|-------|----------|----------|---|----------|-------------|

Steel wire (ST)

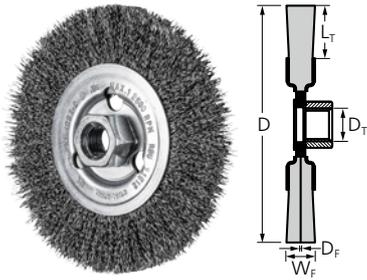
| | | | | | | | | | | |
|-----|----|----|-------|------|----|-----------------|--------|---|----------|------------------------------|
| 100 | 13 | 22 | M14x2 | 0.50 | 24 | 10,000 – 15,000 | 20,000 | 1 | 43313011 | POS KBG 10013/M14 CT ST 0,50 |
| 115 | 15 | 26 | M14x2 | 0.50 | 24 | 7,500 – 12,500 | 15,000 | 1 | 43315011 | POS KBG 11515/M14 CT ST 0,50 |
| 125 | 15 | 19 | M14x2 | 0.50 | 28 | 7,500 – 12,500 | 15,000 | 1 | 43317011 | POS KBG 12515/M14 CT ST 0,50 |

Stainless steel wire (INOX) – All INOX brushes are degreased.

| | | | | | | | | | | |
|-----|----|----|-------|------|----|----------------|--------|---|----------|--------------------------------|
| 100 | 13 | 22 | M14x2 | 0.35 | 24 | 8,000 – 15,000 | 20,000 | 1 | 43313013 | POS KBG 10013/M14 CT INOX 0,35 |
| 115 | 15 | 26 | M14x2 | 0.35 | 24 | 6,000 – 12,500 | 15,000 | 1 | 43315013 | POS KBG 11515/M14 CT INOX 0,35 |
| 125 | 15 | 19 | M14x2 | 0.35 | 28 | 6,000 – 12,500 | 15,000 | 1 | 43317013 | POS KBG 12515/M14 CT INOX 0,35 |

Wheel brushes

crimped



RBU, for angle grinders

Suitable for medium-duty brushing such as derusting, cleaning of weld seams and light deburring work. Can be used on angle grinders up to 80 m/s.



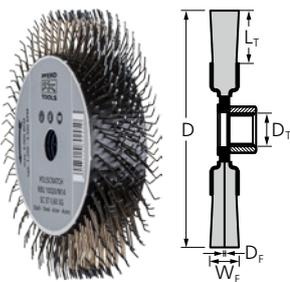
Special features:

- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

| D [mm] | W _F [mm] | L _T [mm] | D _T | D _F [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|----------------|---------------------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|----------------|---------------------|----------|----------|---|----------|-------------|

Steel wire (ST)

| | | | | | | | | | |
|-----|----|----|-------|------|----------------|--------|---|----------|---------------------------|
| 125 | 12 | 15 | M14x2 | 0.30 | 5,500 – 11,000 | 11,000 | 1 | 43502301 | POS RBU 12512/M14 ST 0,30 |
|-----|----|----|-------|------|----------------|--------|---|----------|---------------------------|



RBU, POLISCRATCH

Excellent for processing and removing soft materials such as underseal and anti-drumming compound. Most suitable for achieving rough surfaces with a sandblasted appearance due to the specific geometry of the filament material.



Special features:

- High cooling effect and no smearing or loading of the brush due to the open construction of the filament material.
- Longer tool life as the brush can be re-sharpened using a sharpening block.
- Use only on speed-adjustable angle and straight grinders.

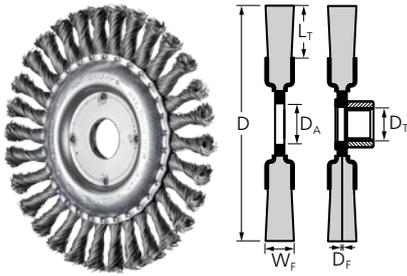
| D [mm] | W _F [mm] | L _T [mm] | D _T | D _F [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|----------------|---------------------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|----------------|---------------------|----------|----------|---|----------|-------------|

Steel wire (ST)

| | | | | | | | | | |
|-----|----|----|-------|------|---------------|-------|---|----------|------------------------------|
| 100 | 20 | 18 | M14x2 | 0.60 | 1,200 – 3,500 | 6,000 | 1 | 43502102 | POS RBU 10020/M14 SC ST 0,60 |
|-----|----|----|-------|------|---------------|-------|---|----------|------------------------------|

Wheel brushes

knotted



RBG

Aggressive brush. Suitable for heavy-duty brushing in metalwork such as descaling, derusting, deburring, cleaning of weld seams, removal of adhesive residues and spatter.



Special features:

- Aggressive brushing effect due to the very stiff wire knots.

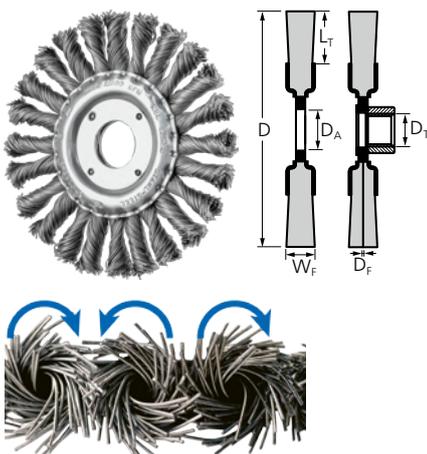
| D [mm] | W _F [mm] | L _T [mm] | D _A / D _T | D _F [mm] | Knots | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|---------------------------------|---------------------|-------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|---------------------------------|---------------------|-------|----------|----------|---|----------|-------------|

Steel wire (ST)

| | | | | | | | | | | |
|-----|----|----|-------|------|----|-----------------|--------|---|----------|----------------------------|
| 100 | 12 | 28 | M14x2 | 0.50 | 22 | 10,000 – 15,000 | 20,000 | 1 | 43302000 | POS RBG 10012/M14 ST 0,50 |
| 115 | 12 | 22 | 22.2 | 0.50 | 24 | 6,300 – 12,500 | 12,500 | 1 | 43312001 | POS RBG 11512/22,2 ST 0,50 |
| 125 | 12 | 28 | 22.2 | 0.50 | 24 | 5,500 – 12,500 | 12,500 | 1 | 43303005 | POS RBG 12512/22,2 ST 0,50 |
| | | | M14x2 | 0.50 | 24 | 5,500 – 12,500 | 12,500 | 1 | 43303013 | POS RBG 12512/M14 ST 0,50 |
| 150 | 13 | 26 | 22.2 | 0.60 | 30 | 5,000 – 10,000 | 10,000 | 1 | 43309015 | POS RBG 15013/22,2 ST 0,60 |
| 178 | 13 | 38 | 22.2 | 0.50 | 30 | 4,500 – 8,500 | 9,000 | 1 | 43304001 | POS RBG 17813/22,2 ST 0,50 |
| | | | M14x2 | 0.50 | 30 | 4,500 – 8,500 | 9,000 | 1 | 43304009 | POS RBG 17813/M14 ST 0,50 |

Stainless steel wire (INOX) – All INOX brushes are degreased.

| | | | | | | | | | | |
|-----|----|----|-------|------|----|----------------|--------|---|----------|------------------------------|
| 115 | 12 | 22 | 22.2 | 0.35 | 24 | 5,000 – 12,500 | 12,500 | 1 | 43312003 | POS RBG 11512/22,2 INOX 0,35 |
| 125 | 12 | 28 | 22.2 | 0.35 | 24 | 4,400 – 12,500 | 12,500 | 1 | 43303006 | POS RBG 12512/22,2 INOX 0,35 |
| | | | M14x2 | 0.35 | 24 | 4,400 – 12,500 | 12,500 | 1 | 43303007 | POS RBG 12512/M14 INOX 0,35 |
| 178 | 13 | 38 | 22.2 | 0.35 | 30 | 3,600 – 8,500 | 9,000 | 1 | 43304003 | POS RBG 17813/22,2 INOX 0,35 |



RBG CT, COMBITWIST

Very aggressive brush. Suitable for heavy-duty brushing in metalwork such as descaling, derusting, deburring, cleaning of weld seams and removal of adhesive residues and spatter. Suitable for work on corners and edges as the knots are less likely to unravel.



Special features:

- Maximum economic efficiency due to maximum tool life and stock removal rate.
- High level of comfort thanks to smooth running with no brush recoiling.
- Aggressive brushing effect due to the very stiff wire knots.

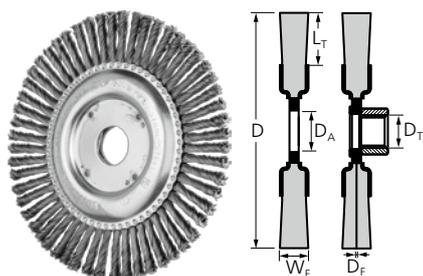
| D [mm] | W _F [mm] | L _T [mm] | D _A / D _T | D _F [mm] | Knots | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|---------------------------------|---------------------|-------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|---------------------------------|---------------------|-------|----------|----------|---|----------|-------------|

Steel wire (ST)

| | | | | | | | | | | |
|-----|----|----|------|------|----|----------------|--------|---|----------|-------------------------------|
| 115 | 12 | 22 | 22.2 | 0.50 | 24 | 6,300 – 12,500 | 12,500 | 1 | 43312011 | POS RBG 11512/22,2 CT ST 0,50 |
| 125 | 12 | 28 | 22.2 | 0.50 | 24 | 5,500 – 12,500 | 12,500 | 1 | 43303010 | POS RBG 12512/22,2 CT ST 0,50 |
| 178 | 13 | 38 | 22.2 | 0.50 | 30 | 4,500 – 8,500 | 9,000 | 1 | 43304011 | POS RBG 17813/22,2 CT ST 0,50 |

Stainless steel wire (INOX) – All INOX brushes are degreased.

| | | | | | | | | | | |
|-----|----|----|------|------|----|----------------|--------|---|----------|---------------------------------|
| 125 | 12 | 28 | 22.2 | 0.35 | 24 | 4,400 – 12,500 | 12,500 | 1 | 43303011 | POS RBG 12512/22,2 CT INOX 0,35 |
|-----|----|----|------|------|----|----------------|--------|---|----------|---------------------------------|



RBG PIPE, Pipeline

Aggressive and robust brush that is able to withstand high mechanical loads. Perfect for heavy-duty brushing in pipeline and container construction.



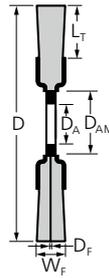
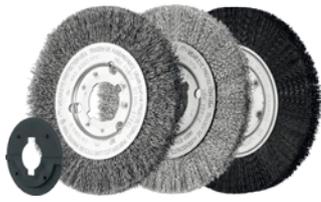
Special features:

- Extra-slim design enables optimal access to hard-to-reach areas such as root weld seams.
- Aggressive brushing effect due to the very stiff wire knots.

| D [mm] | W _f [mm] | L _T [mm] | D _A / D _T | D _f [mm] | Knots | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--|---------------------|---------------------|---------------------------------|---------------------|-------|----------------|----------|---|----------|---------------------------------|
| Steel wire (ST) | | | | | | | | | | |
| 125 | 6 | 18 | 22.2 | 0.50 | 48 | 6,300 – 12,500 | 12,500 | 10 | 43302501 | RBG 12506/22,2 PIPE ST 0,50 |
| | | | M14x2 | 0.50 | 48 | 6,300 – 12,500 | 12,500 | 10 | 43302502 | RBG 12506/M14 PIPE ST 0,50 |
| 178 | 6 | 28 | 22.2 | 0.50 | 76 | 4,500 – 8,500 | 9,000 | 10 | 43303804 | RBG 17806/22,2 PIPE ST 0,50 76Z |
| | | | M14x2 | 0.50 | 76 | 4,500 – 8,500 | 9,000 | 10 | 43303805 | RBG 17806/M14 PIPE ST 0,50 76Z |
| Stainless steel wire (INOX) – All INOX brushes are degreased. | | | | | | | | | | |
| 100 | 6 | 19 | 16 | 0.50 | 32 | 8,000 – 15,000 | 20,000 | 2 | 43301006 | RBG 10006/16,0 PIPE INOX 0,50 |
| 125 | 6 | 18 | 22.2 | 0.50 | 48 | 5,000 – 12,500 | 12,500 | 2 | 43302506 | RBG 12506/22,2 PIPE INOX 0,50 |
| | | | M14x2 | 0.50 | 48 | 5,000 – 12,500 | 12,500 | 1 | 43302507 | RBG 12506/M14 PIPE INOX 0,50 |

Wheel brushes

crimped, with hole



RBU, slim

Excellent for medium-duty hand-held or automated brushing of workpieces with large surfaces.

Special features:

- Can be used with all commercially available stationary drive systems and bench grinders thanks to the variable hole diameter.
- The special design enables bunching to create wide gapless rollers. This enables a uniform surface finish to be achieved.
- Highly flexible, enabling optimal adjustment to the workpiece contour.

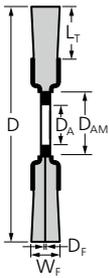
| D [mm] | W _F [mm] | L _T [mm] | D _A [mm] | D _{AM} [mm] | D _F [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|---------------------|----------------------|---------------------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|---------------------|----------------------|---------------------|----------|----------|---|----------|-------------|

Steel wire (ST)

| | | | | | | | | | | |
|-----|----|----|------|------|------|---------------|-------|---|----------|------------------------|
| 150 | 12 | 28 | 22.2 | 31.8 | 0.25 | 3,000 – 4,500 | 6,000 | 1 | 43505005 | RBU 15012/22,2 ST 0,25 |
| 200 | 16 | 44 | 22.2 | 31.8 | 0.25 | 3,000 – 4,500 | 6,000 | 1 | 43506005 | RBU 20016/22,2 ST 0,25 |
| 250 | 20 | 70 | 22.2 | 31.8 | 0.25 | 1,800 – 2,700 | 3,600 | 1 | 43506505 | RBU 25020/22,2 ST 0,25 |

Stainless steel wire (INOX) – All INOX brushes are degreased.

| | | | | | | | | | | |
|-----|----|----|------|------|------|---------------|-------|---|----------|--------------------------|
| 150 | 12 | 28 | 22.2 | 31.8 | 0.30 | 2,400 – 3,900 | 6,000 | 2 | 43505006 | RBU 15012/22,2 INOX 0,30 |
|-----|----|----|------|------|------|---------------|-------|---|----------|--------------------------|



RBU, wide, universal use

Excellent for medium-duty hand-held or automated brushing of workpieces with large surfaces. Developed for general use in the workshop.



Special features:

- Can be used with all commercially available stationary drive systems and bench grinders thanks to the variable hole diameter.
- Highly flexible, enabling optimal adjustment to the workpiece contour.

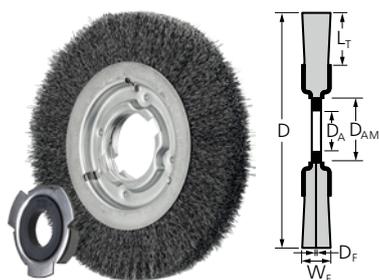
| D [mm] | W _F [mm] | L _T [mm] | D _A [mm] | D _{AM} [mm] | D _F [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|---------------------|----------------------|---------------------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|---------------------|----------------------|---------------------|----------|----------|---|----------|-------------|

Steel wire (ST)

| | | | | | | | | | | |
|-----|----|----|--------------------|----|------|---------------|-------|---|----------|----------------------------|
| 100 | 20 | 25 | 12/14/18/22.2/25.4 | 30 | 0.30 | 4,000 – 6,000 | 8,000 | 1 | 43701105 | POS RBU 10020/14,0 ST 0,30 |
|-----|----|----|--------------------|----|------|---------------|-------|---|----------|----------------------------|

Wheel brushes

crimped, with hole



RBU, wide, industrial use

Excellent for medium-duty hand-held or automated brushing of workpieces with large surfaces. Developed specially for industrial use. The brush impresses with its very long tool life, which ensures high economic efficiency.



Special features:

- Can be used with all commercially available stationary drive systems and bench grinders thanks to the variable hole diameter.
- The special design enables bunching to create wide gapless rollers. This enables a uniform surface finish to be achieved.
- Highly flexible, enabling optimal adjustment to the workpiece contour.

| D [mm] | W _F [mm] | L _T [mm] | D _A [mm] | D _{AM} [mm] | D _F [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|-----------|------------------------|------------------------|------------------------|-------------------------|------------------------|----------|-------------|---|----------|-------------|
|-----------|------------------------|------------------------|------------------------|-------------------------|------------------------|----------|-------------|---|----------|-------------|

Steel wire (ST)

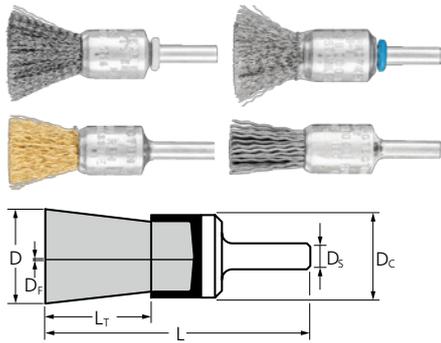
| | | | | | | | | | | |
|-----|----|----|----------------|------|------|---------------|-------|---|----------|--------------------------|
| 100 | 28 | 19 | 14.0/18.0/22.2 | 25.4 | 0.30 | 4,000 – 6,000 | 8,000 | 1 | 43502001 | RBU 10028/14,0 ST 0,30 |
| 150 | 25 | 25 | AK 32-2 | 50.8 | 0.30 | 3,000 – 4,500 | 6,000 | 1 | 43505101 | RBU 15025/AK32-2 ST 0,30 |
| 200 | 25 | 38 | AK 32-2 | 50.8 | 0.30 | 2,300 – 3,400 | 4,500 | 1 | 43506101 | RBU 20025/AK32-2 ST 0,30 |
| | 38 | 38 | AK 32-2 | 50.8 | 0.30 | 2,300 – 3,400 | 4,500 | 1 | 43506001 | RBU 20038/AK32-2 ST 0,30 |

Stainless steel wire (INOX) in blister packaging

| | | | | | | | | | | |
|-----|----|----|---------|------|------|---------------|-------|---|----------|------------------------------|
| 150 | 25 | 25 | AK 32-2 | 50.8 | 0.30 | 2,400 – 3,900 | 6,000 | 1 | 43505103 | POS RBU 15025/25,4 INOX 0,30 |
| 200 | 25 | 38 | AK 32-2 | 50.8 | 0.30 | 1,800 – 2,900 | 4,500 | 1 | 43506103 | POS RBU 20025/25,4 INOX 0,30 |

Shank-mounted end brushes

crimped



PBU

Suitable for light brushing such as deburring, cleaning and derusting.



Special features:

- Optimal access to hard-to-reach areas such as drilled holes and cavities as the wires spread out upon rotation.
- Creates fine surfaces.

| D [mm] | D _c [mm] | D _s [mm] | L _r [mm] | D _f [mm] | L [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|---------------------|---------------------|--------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|---------------------|---------------------|--------|----------|----------|---|----------|-------------|

Steel wire (ST)

| | | | | | | | | | | |
|----|----|---|----|------|----|-----------------|--------|----|----------|------------------------|
| 10 | 10 | 6 | 20 | 0.35 | 65 | 10,000 – 15,000 | 20,000 | 10 | 43204001 | PBU 1010/6 ST 0,35 |
| 13 | 12 | 6 | 20 | 0.35 | 65 | 10,000 – 15,000 | 20,000 | 10 | 43204101 | PBU 1312/6 ST 0,35 |
| 15 | 16 | 6 | 22 | 0.20 | 65 | 9,000 – 13,500 | 18,000 | 10 | 43203005 | PBU 1516/6 ST 0,20 |
| | | | | 0.35 | 65 | 9,000 – 13,500 | 18,000 | 10 | 43203001 | PBU 1516/6 ST 0,35 |
| 20 | 22 | 6 | 25 | 0.20 | 70 | 9,000 – 13,500 | 18,000 | 1 | 43704001 | POS PBU 1516/6 ST 0,35 |
| | | | | | | | | 10 | 43202005 | PBU 2022/6 ST 0,20 |
| | | | | | | | | 10 | 43202001 | PBU 2022/6 ST 0,50 |
| 30 | 29 | 6 | 25 | 0.50 | 70 | 7,500 – 11,300 | 15,000 | 1 | 43704005 | POS PBU 2022/6 ST 0,50 |
| | | | | | | | | 10 | 43201001 | PBU 3029/6 ST 0,50 |

Stainless steel wire (INOX) – Supplied with plastic-covered brush body. All INOX brushes are degreased.

| | | | | | | | | | | |
|----|----|---|----|------|----|----------------|--------|----|----------|--------------------------|
| 10 | 10 | 6 | 20 | 0.35 | 65 | 8,000 – 13,000 | 20,000 | 10 | 43204003 | PBU 1010/6 INOX 0,35 |
| 13 | 12 | 6 | 20 | 0.35 | 65 | 8,000 – 13,000 | 20,000 | 10 | 43204103 | PBU 1312/6 INOX 0,35 |
| 15 | 16 | 6 | 22 | 0.35 | 65 | 7,200 – 11,700 | 18,000 | 10 | 43203003 | PBU 1516/6 INOX 0,35 |
| | | | | | | | | 1 | 43704002 | POS PBU 1516/6 INOX 0,35 |
| 20 | 22 | 6 | 25 | 0.50 | 70 | 7,200 – 11,700 | 18,000 | 10 | 43202003 | PBU 2022/6 INOX 0,50 |
| | | | | | | | | 1 | 43704006 | POS PBU 2022/6 INOX 0,50 |
| 30 | 29 | 6 | 25 | 0.50 | 70 | 6,000 – 9,800 | 15,000 | 10 | 43201003 | PBU 3029/6 INOX 0,50 |

Brass wire (MES)

| | | | | | | | | | | |
|----|----|---|----|------|----|----------------|--------|----|----------|---------------------|
| 20 | 22 | 6 | 25 | 0.50 | 70 | 7,200 – 11,700 | 18,000 | 10 | 43202002 | PBU 2022/6 MES 0,50 |
|----|----|---|----|------|----|----------------|--------|----|----------|---------------------|

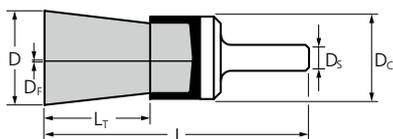


PBV, encapsulated

Particularly aggressive brushing effect for heavy-duty brushing.

Special features:

- Focused working thanks to high dimensional stability.
- Maximum tool life as premature wire breakage is prevented.



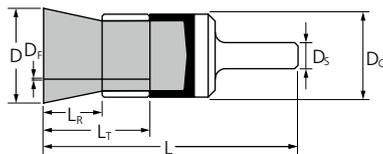
| D [mm] | D _c [mm] | D _s [mm] | L _r [mm] | D _f [mm] | L [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|---------------------|---------------------|--------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|---------------------|---------------------|--------|----------|----------|---|----------|-------------|

Steel wire (ST)

| | | | | | | | | | | |
|----|----|---|----|------|----|---------------|--------|----|----------|--------------------|
| 22 | 22 | 6 | 25 | 0.25 | 70 | 6,500 – 9,800 | 13,000 | 10 | 43208001 | PBV 2222/6 ST 0,25 |
|----|----|---|----|------|----|---------------|--------|----|----------|--------------------|

Shank-mounted end brushes

crimped



PBUR, with bridle

Suitable for light brushing such as deburring, cleaning and derusting. The bridle prevents the wires spreading out sideways. The bridle enables the spreading out and flexibility of the brush filament to be strictly controlled.



- If the filament has worn away down to the bridle, it can be removed from the bridle for further use. This does not affect the brushing behaviour.
- Creates fine surfaces.

Special features:

- Optimal access to hard-to-reach areas such as recesses and drilled holes.

| D [mm] | D _c [mm] | D _s [mm] | L _r [mm] | L _t [mm] | L [mm] | D _f [mm] | Opt. RPM | Max. RPM | | Item no. | Designation |
|--------|---------------------|---------------------|---------------------|---------------------|--------|---------------------|----------|----------|--|----------|-------------|
|--------|---------------------|---------------------|---------------------|---------------------|--------|---------------------|----------|----------|--|----------|-------------|

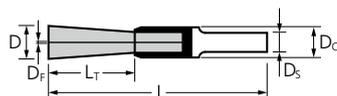
Steel wire (ST)

| | | | | | | | | | | | |
|----|----|---|----|----|----|------|---------------|--------|----|----------|---------------------|
| 25 | 30 | 6 | 13 | 25 | 70 | 0.20 | 6,300 – 9,400 | 12,500 | 10 | 43214001 | PBUR 2530/6 ST 0,20 |
|----|----|---|----|----|----|------|---------------|--------|----|----------|---------------------|

Stainless steel wire (INOX) – Supplied with plastic-covered brush body. All INOX brushes are degreased.

| | | | | | | | | | | | |
|----|----|---|----|----|----|------|---------------|--------|----|----------|-----------------------|
| 20 | 22 | 6 | 13 | 25 | 70 | 0.20 | 5,000 – 8,100 | 12,500 | 10 | 43213004 | PBUR 2022/6 INOX 0,20 |
|----|----|---|----|----|----|------|---------------|--------|----|----------|-----------------------|

knotted



PBGS, SINGLETWIST

Particularly flexible single-knot brush for special applications.



Special features:

- Optimal access to hard-to-reach areas such as inside corners, as the knot is less likely to unravel.

| D [mm] | D _c [mm] | D _s [mm] | L _r [mm] | L [mm] | D _f [mm] | Opt. RPM | Max. RPM | | Item no. | Designation |
|--------|---------------------|---------------------|---------------------|--------|---------------------|----------|----------|--|----------|-------------|
|--------|---------------------|---------------------|---------------------|--------|---------------------|----------|----------|--|----------|-------------|

Steel wire (ST)

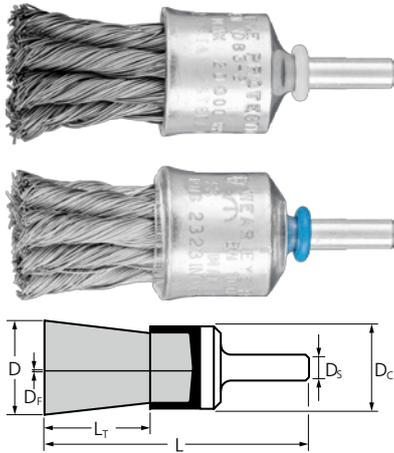
| | | | | | | | | | | |
|----|----|---|----|----|------|---------------|--------|----|----------|---------------------|
| 10 | 10 | 6 | 25 | 65 | 0.20 | 5,000 – 7,500 | 10,000 | 10 | 43218001 | PBGS 1010/6 ST 0,20 |
| | | | | | 0.35 | 5,000 – 7,500 | 10,000 | 10 | 43218002 | PBGS 1010/6 ST 0,35 |
| | | | | | 0.50 | 5,000 – 7,500 | 10,000 | 10 | 43218003 | PBGS 1010/6 ST 0,50 |

Stainless steel wire (INOX) – Supplied with plastic-covered brush body. All INOX brushes are degreased.

| | | | | | | | | | | |
|----|----|---|----|----|------|---------------|--------|----|----------|-----------------------|
| 10 | 10 | 6 | 25 | 65 | 0.20 | 4,000 – 6,500 | 10,000 | 10 | 43218005 | PBGS 1010/6 INOX 0,20 |
| | | | | | 0.35 | 4,000 – 6,500 | 10,000 | 10 | 43218006 | PBGS 1010/6 INOX 0,35 |
| | | | | | 0.50 | 4,000 – 6,500 | 10,000 | 10 | 43218007 | PBGS 1010/6 INOX 0,50 |

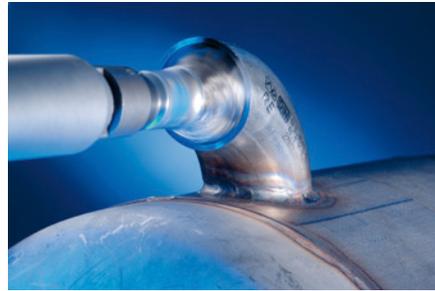
Shank-mounted end brushes

knotted



PBG

Aggressive brush. Suitable for medium-duty brushing such as deburring, cleaning, derusting and descaling, as well as removing spatter.



Special features:

- Optimal access to hard-to-reach areas such as recesses and drilled holes.
- Aggressive brushing effect due to the very stiff wire knots.

| D [mm] | D _c [mm] | D _s [mm] | L _T [mm] | D _f [mm] | L [mm] | Knots | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|---------------------|---------------------|--------|-------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|---------------------|---------------------|--------|-------|----------|----------|---|----------|-------------|

Steel wire (ST)

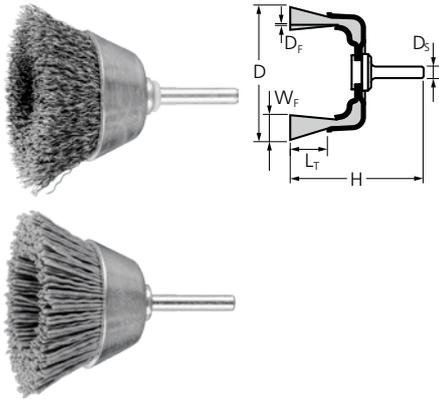
| | | | | | | | | | | | |
|----|----|---|----|------|----|----|-----------------|--------|----|----------|------------------------|
| 19 | 19 | 6 | 28 | 0.35 | 68 | 6 | 10,000 – 15,000 | 20,000 | 1 | 43706001 | POS PBG 1919/6 ST 0,35 |
| | | | | 0.50 | 68 | 6 | 10,000 – 15,000 | 20,000 | 10 | 43207005 | PBG 1919/6 ST 0,50 |
| 30 | 28 | 6 | 25 | 0.35 | 68 | 12 | 8,000 – 11,300 | 20,000 | 1 | 43706005 | POS PBG 3028/6 ST 0,35 |
| | | | | 0.50 | 68 | 12 | 8,000 – 11,300 | 20,000 | 10 | 43209002 | PBG 3028/6 ST 0,50 |

Stainless steel wire (INOX) – Supplied with plastic-covered brush body. All INOX brushes are degreased.

| | | | | | | | | | | | |
|----|----|---|----|------|----|----|----------------|--------|----|----------|--------------------------|
| 19 | 19 | 6 | 28 | 0.35 | 68 | 6 | 8,000 – 13,000 | 20,000 | 1 | 43706002 | POS PBG 1919/6 INOX 0,35 |
| | | | | 0.60 | 68 | 6 | 8,000 – 13,000 | 20,000 | 10 | 43207007 | PBG 1919/6 INOX 0,60 |
| 30 | 28 | 6 | 25 | 0.35 | 68 | 12 | 6,000 – 9,800 | 20,000 | 1 | 43706006 | POS PBG 3028/6 INOX 0,35 |
| | | | | 0.60 | 68 | 12 | 6,000 – 9,800 | 20,000 | 10 | 43209005 | PBG 3028/6 INOX 0,60 |

Shank-mounted cup brushes

crimped



TBU

Generally suitable for cleaning, derusting and smoothing, as well as removal of corrosion and paint. Particularly suitable for brushing on large, flat and easily accessible surfaces due to face-down use with the entire brush face applied to the workpiece.



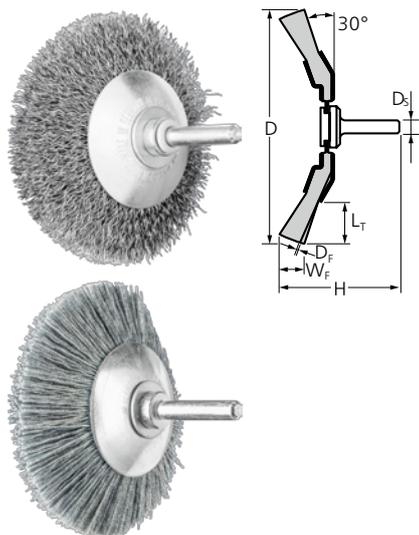
Special features:

- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

| D [mm] | W _f [mm] | D _s [mm] | L _r [mm] | D _f [mm] | H [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--|------------------------|------------------------|------------------------|------------------------|-----------|---------------|-------------|---|----------|----------------------|
| Steel wire (ST) | | | | | | | | | | |
| 50 | 10 | 6 | 20 | 0.30 | 75 | 5,300 – 7,900 | 10,500 | 10 | 43210001 | TBU 5010/6 ST 0,30 |
| | | | | | | | | | 1 | 43703001 |
| 60 | 15 | 6 | 20 | 0.30 | 85 | 2,200 – 3,400 | 4,500 | 10 | 43211001 | TBU 6015/6 ST 0,30 |
| Stainless steel wire (INOX) – Supplied with plastic-covered brush body. | | | | | | | | | | |
| 50 | 10 | 6 | 20 | 0.30 | 75 | 4,200 – 6,800 | 10,500 | 10 | 43210003 | TBU 5010/6 INOX 0,30 |
| | | | | | | | | | 1 | 43703002 |

Shank-mounted bevel brushes

crimped



External nut, crimped

Excellent for medium-duty brushing such as deburring, cleaning and derusting.



Special features:

- Optimal access to hard-to-reach areas such as inner edges, grooves and keyways.
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

| D [mm] | W _F [mm] | D _S [mm] | L _T [mm] | D _F [mm] | H [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|-----------|------------------------|------------------------|------------------------|------------------------|-----------|----------|-------------|---|----------|-------------|
|-----------|------------------------|------------------------|------------------------|------------------------|-----------|----------|-------------|---|----------|-------------|

Steel wire (ST)

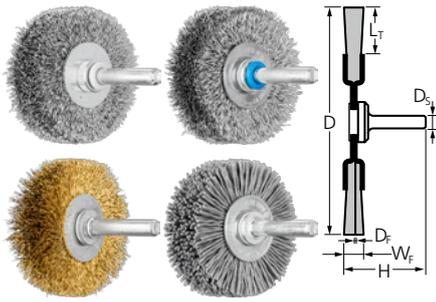
| | | | | | | | | | | |
|----|----|---|----|------|----|---------------|--------|----|----------|--------------------|
| 95 | 10 | 6 | 25 | 0.30 | 62 | 6,000 – 9,000 | 12,000 | 10 | 43312501 | KBU 9510/6 ST 0,30 |
|----|----|---|----|------|----|---------------|--------|----|----------|--------------------|

Stainless steel wire (INOX) – All INOX brushes are degreased.

| | | | | | | | | | | |
|----|----|---|----|------|----|---------------|--------|----|----------|----------------------|
| 95 | 10 | 6 | 25 | 0.30 | 62 | 4,800 – 7,800 | 12,000 | 10 | 43312503 | KBU 9510/6 INOX 0,30 |
|----|----|---|----|------|----|---------------|--------|----|----------|----------------------|

Shank-mounted wheel brushes

crimped



RBU

Generally suitable for cleaning, derusting, smoothing, cleaning of weld seams, light deburring, and removal of corrosion and paint.



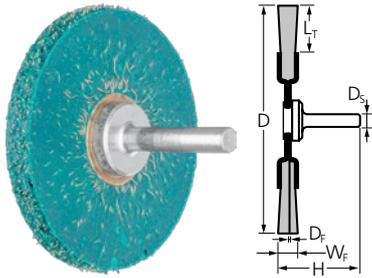
Special features:

- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

| D [mm] | W _f [mm] | D _s [mm] | L _r [mm] | Grit size | D _f [mm] | H [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|---|---------------------|---------------------|---------------------|-----------|---------------------|--------|-----------------|----------|---|----------|---------------------------|
| Steel wire (ST) | | | | | | | | | | | |
| 20 | 4 | 6 | 3 | - | 0.20 | 37 | 10,000 – 15,000 | 20,000 | 10 | 43101001 | RBU 2004/6 ST 0,20 |
| 30 | 6 | 6 | 7 | - | 0.20 | 40 | 10,000 – 15,000 | 20,000 | 10 | 43102001 | RBU 3006/6 ST 0,20 |
| | | | | | | | | | 1 | 43701005 | POS RBU 3006/6 ST 0,20 |
| 40 | 9 | 6 | 9 | - | 0.20 | 46 | 9,000 – 13,500 | 18,000 | 10 | 43103001 | RBU 4009/6 ST 0.20 |
| 50 | 4 | 6 | 9 | - | 0.20 | 41 | 7,500 – 11,300 | 15,000 | 10 | 43103021 | RBU 5004/6 ST 0,20 |
| | | | | | | | | | 10 | 43104001 | RBU 5015/6 ST 0,20 |
| | 15 | 6 | 13 | - | 0.20 | 50 | 7,500 – 11,300 | 15,000 | 10 | 43701013 | POS RBU 5015/6 ST 0,20 |
| 60 | 15 | 6 | 15 | - | 0.20 | 50 | 7,500 – 11,300 | 15,000 | 10 | 43104011 | RBU 6015/6 ST 0,20 |
| 70 | 10 | 6 | 19 | - | 0.30 | 50 | 7,500 – 11,300 | 15,000 | 10 | 43104101 | RBU 7010/6 ST 0,30 |
| | | | | | | | | | 10 | 43105001 | RBU 7015/6 ST 0,30 |
| | 15 | 6 | 19 | - | 0.30 | 50 | 7,500 – 11,300 | 15,000 | 10 | 43701017 | POS RBU 7015/6 ST 0,30 |
| 80 | 15 | 6 | 19 | - | 0.30 | 50 | 6,000 – 9,000 | 12,000 | 10 | 43106001 | RBU 8015/6 ST 0,30 |
| 100 | 10 | 6 | 25 | - | 0.30 | 50 | 6,000 – 9,000 | 12,000 | 10 | 43109001 | RBU 10010/6 ST 0,30 |
| | | | | | | | | | 1 | 43701018 | POS RBU 10010/6 ST 0,30 |
| Stainless steel wire (INOX) | | | | | | | | | | | |
| 30 | 6 | 6 | 7 | - | 0.20 | 40 | 8,000 – 13,000 | 20,000 | 10 | 43102003 | RBU 3006/6 INOX 0,20 |
| | | | | | | | | | 1 | 43701006 | POS RBU 3006/6 INOX 0,20 |
| 40 | 9 | 6 | 9 | - | 0.20 | 46 | 7,200 – 11,700 | 18,000 | 10 | 43103003 | RBU 4009/6 INOX 0,20 |
| 50 | 15 | 6 | 13 | - | 0.20 | 50 | 6,000 – 9,800 | 15,000 | 10 | 43104003 | RBU 5015/6 INOX 0,20 |
| | | | | | | | | | 1 | 43701014 | POS RBU 5015/6 INOX 0,20 |
| 60 | 15 | 6 | 15 | - | 0.20 | 50 | 6,000 – 9,800 | 15,000 | 10 | 43104033 | RBU 6015/6 INOX 0,20 |
| 70 | 10 | 6 | 19 | - | 0.20 | 50 | 6,000 – 9,800 | 15,000 | 10 | 43104102 | RBU 7010/6 INOX 0,20 |
| | | | | | | | | | 10 | 43105003 | RBU 7015/6 INOX 0,30 |
| | 15 | 6 | 19 | - | 0.30 | 50 | 6,000 – 9,800 | 15,000 | 10 | 43701019 | POS RBU 7015/6 INOX 0,30 |
| 80 | 10 | 6 | 19 | - | 0.20 | 50 | 4,800 – 7,800 | 12,000 | 10 | 43105103 | RBU 8010/6 INOX 0,20 |
| | | | | | | | | | 10 | 43106003 | RBU 8015/6 INOX 0,30 |
| 100 | 10 | 6 | 25 | - | 0.30 | 50 | 4,800 – 7,800 | 12,000 | 10 | 43109003 | RBU 10010/6 INOX 0,30 |
| | | | | | | | | | 1 | 43701020 | POS RBU 10010/6 INOX 0,30 |
| Brass wire (MES) | | | | | | | | | | | |
| 80 | 15 | 6 | 19 | - | 0.30 | 50 | 4,800 – 7,800 | 12,000 | 10 | 43106002 | RBU 8015/6 MES 0,30 |
| Silicon carbide (SiC) plastic filament | | | | | | | | | | | |
| 50 | 15 | 6 | 13 | 180 | 0.90 | 50 | 6,000 – 9,800 | 15,000 | 10 | 43104004 | RBU 5015/6 SiC 180 0,90 |

Shank-mounted wheel brushes

crimped



RBV, encapsulated

Particularly aggressive brushing effect for heavy-duty brushing.



Special features:

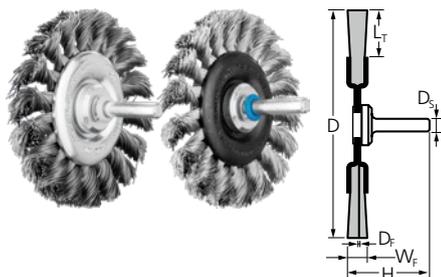
- Focused working thanks to high dimensional stability.
- Maximum tool life as premature wire breakage is prevented.

| D [mm] | W _f [mm] | D _s [mm] | L _t [mm] | D _f [mm] | H [mm] | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|---------------------|---------------------|--------|----------|----------|---|----------|-------------|
|--------|---------------------|---------------------|---------------------|---------------------|--------|----------|----------|---|----------|-------------|

Steel wire (ST) – ST = brass-plated steel wire

| | | | | | | | | | | |
|----|---|---|----|------|----|----------------|--------|---|----------|--------------------|
| 63 | 7 | 6 | 20 | 0.30 | 40 | 7,500 – 11,300 | 15,000 | 1 | 43507501 | RBV 6307/6 ST 0,30 |
|----|---|---|----|------|----|----------------|--------|---|----------|--------------------|

knotted



RBG

Aggressive brush for cleaning, derusting and work on weld seams.

Special features:

- Optimal access to hard-to-reach areas such as grooves and recesses.
- Aggressive brushing effect due to the very stiff wire knots.

| D [mm] | W _f [mm] | D _s [mm] | L _t [mm] | D _f [mm] | H [mm] | Knots | Opt. RPM | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|---------------------|---------------------|--------|-------|----------|----------|--|----------|-------------|
|--------|---------------------|---------------------|---------------------|---------------------|--------|-------|----------|----------|--|----------|-------------|

Steel wire (ST)

| | | | | | | | | | | | |
|-----|----|---|----|------|----|----|-----------------|--------|----|----------|------------------------|
| 76 | 6 | 6 | 16 | 0.35 | 42 | 18 | 12,500 – 18,800 | 25,000 | 10 | 43107001 | RBG 7006/6 ST 0,35 |
| | | | | | | | | | 1 | 43702001 | POS RBG 7006/6 ST 0,35 |
| 100 | 12 | 6 | 19 | 0.35 | 42 | 22 | 10,000 – 15,000 | 20,000 | 10 | 43108001 | RBG 10012/6 ST 0,35 |
| | | | | 0.50 | 42 | 22 | 10,000 – 15,000 | 20,000 | 10 | 43108002 | RBG 10012/6 ST 0,50 |

Stainless steel wire (INOX) – All INOX brushes are degreased.

| | | | | | | | | | | | |
|----|---|---|----|------|----|----|-----------------|--------|----|----------|--------------------------|
| 76 | 6 | 6 | 16 | 0.35 | 42 | 18 | 10,000 – 16,300 | 25,000 | 10 | 43107003 | RBG 7006/6 INOX 0,35 |
| | | | | | | | | | 1 | 43702002 | POS RBG 7006/6 INOX 0,35 |

Brush sets

Brush sets



BSO

Set of different wheel, cup and end brushes with a 6 mm shank.

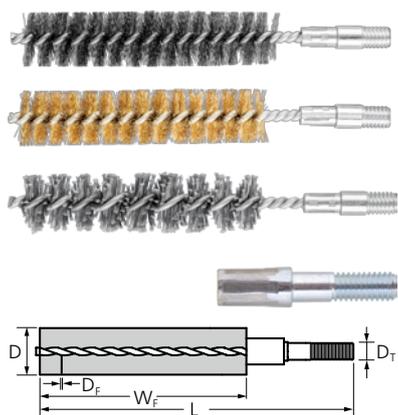
Special features:

- Selection of the most common versions.
- Promotional display box.

| Contents | Contents [Piece] |  | Item no. | Designation |
|--|------------------|---|----------|-------------|
| TBU 5010/6 ST 0,30, PBU 1010/6 ST 0,35, PBU 1516/6 ST 0,35, PBU 2022/6 ST 0,50, RBU 3006/6 ST 0,20, RBU 4009/6 ST 0,20, RBU 5015/6 ST 0,20, RBU 7015/6 ST 0,30 | 80 | 1 | 43900001 | BSO 5500 ST |

Tube brushes

Tube brushes



IBU, with thread

Particularly suitable for deburring and cleaning pipes, threads, coupling sleeves and cylinders.



Special features:

- Can be clamped in collets thanks to integrated shank (M6 = 6 mm and 3/8 = 10 mm).
- Creates fine surfaces.

| D [mm] | W _F [mm] | D ₁ [mm] | D _F [mm] | L [mm] | Max. RPM |  | Item no. | Designation |
|--------|---------------------|---------------------|---------------------|--------|----------|---|----------|-------------|
|--------|---------------------|---------------------|---------------------|--------|----------|---|----------|-------------|

Steel wire (ST)

| | | | | | | | | |
|----|----|----|------|-----|-------|----|----------|---------------------|
| 8 | 80 | M6 | 0.15 | 120 | 1,000 | 10 | 43679001 | IBU 0880/M6 ST 0,15 |
| 10 | 80 | M6 | 0.15 | 120 | 1,000 | 10 | 43679011 | IBU 1080/M6 ST 0,15 |
| 12 | 80 | M6 | 0.15 | 120 | 1,000 | 10 | 43679021 | IBU 1280/M6 ST 0,15 |
| 13 | 80 | M6 | 0.20 | 120 | 1,000 | 10 | 43679031 | IBU 1380/M6 ST 0,20 |
| 15 | 80 | M6 | 0.20 | 120 | 1,000 | 10 | 43679041 | IBU 1580/M6 ST 0,20 |
| 16 | 80 | M6 | 0.20 | 120 | 1,000 | 10 | 43679051 | IBU 1680/M6 ST 0,20 |
| 18 | 80 | M6 | 0.20 | 120 | 1,000 | 10 | 43679061 | IBU 1880/M6 ST 0,20 |
| 20 | 80 | M6 | 0.20 | 120 | 1,000 | 10 | 43679071 | IBU 2080/M6 ST 0,20 |

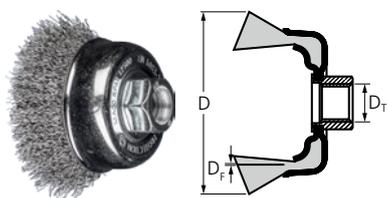
Stainless steel wire (INOX)

| | | | | | | | | |
|----|----|----|------|-----|-------|----|----------|-----------------------|
| 8 | 80 | M6 | 0.15 | 120 | 1,000 | 10 | 43679003 | IBU 0880/M6 INOX 0,15 |
| 10 | 80 | M6 | 0.15 | 120 | 1,000 | 10 | 43679013 | IBU 1080/M6 INOX 0,15 |
| 12 | 80 | M6 | 0.15 | 120 | 1,000 | 10 | 43679023 | IBU 1280/M6 INOX 0,15 |
| 13 | 80 | M6 | 0.20 | 120 | 1,000 | 10 | 43679033 | IBU 1380/M6 INOX 0,20 |
| 15 | 80 | M6 | 0.20 | 120 | 1,000 | 10 | 43679043 | IBU 1580/M6 INOX 0,20 |
| 16 | 80 | M6 | 0.20 | 120 | 1,000 | 10 | 43679053 | IBU 1680/M6 INOX 0,20 |
| 18 | 80 | M6 | 0.20 | 120 | 1,000 | 10 | 43679063 | IBU 1880/M6 INOX 0,20 |
| 20 | 80 | M6 | 0.20 | 120 | 1,000 | 10 | 43679073 | IBU 2080/M6 INOX 0,20 |

The Universal Line offers a range of brushes in the most common profiles and dimensions. Developed for general and cost-efficient use and for the most common applications. Manufactured to the usual high quality standards according to EN 1083.



Threaded cup brushes, crimped



TBU

Excellent for medium-duty brushing such as deburring, cleaning and derusting on large surfaces.

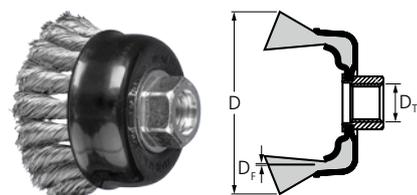
Special features:

- Highly flexible, enabling optimal adjustment to the workpiece contour.

- Creates fine surfaces.

| D [mm] | D _T | D _f [mm] | Max. RPM |  | Item no. | Designation |
|------------------------|----------------|---------------------|----------|--|----------|-------------------------------------|
| Steel wire (ST) | | | | | | |
| 65 | M14/M10 | 0.30 | 12,500 | 1 | 47701011 | POS TBU 65/M14M10 ST 0.30 Universal |

Threaded cup brushes, knotted



TBG

Aggressive brush. Excellent for heavy-duty brushing such as deburring, cleaning, derusting and descaling and removal of spatter.

Special features:

- Aggressive brushing effect due to the very stiff wire knots.

| D [mm] | D _T | D _f [mm] | Max. RPM |  | Item no. | Designation |
|------------------------|----------------|---------------------|----------|---|----------|-------------------------------------|
| Steel wire (ST) | | | | | | |
| 65 | M14/M10 | 0.35 | 12,500 | 1 | 47701009 | POS TBG 65/M14M10 ST 0.35 Universal |

Steel wire (ST) in blister packaging

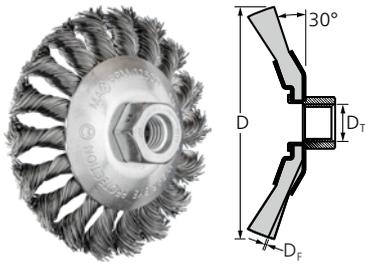
| | | | | | | |
|-----|-------|------|-------|---|----------|-----------------------------------|
| 100 | M14x2 | 0.35 | 9,000 | 1 | 43740101 | POS TBG 100/M14 ST 0,35 Universal |
| 125 | M14x2 | 0.50 | 7,000 | 1 | 43740112 | POS TBG 125/M14 ST 0,50 Universal |

Stainless steel wire (INOX)

| | | | | | | |
|----|---------|------|--------|---|----------|---------------------------------------|
| 65 | M14/M10 | 0.35 | 12,500 | 1 | 47701010 | POS TBG 65/M14M10 INOX 0.35 Universal |
|----|---------|------|--------|---|----------|---------------------------------------|

Universal brushes

Threaded bevel brushes, knotted



KBG

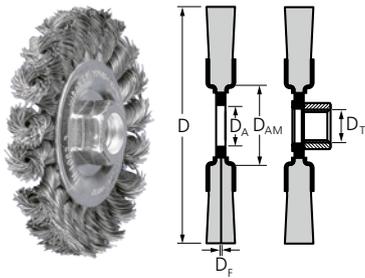
Aggressive brush. Excellent for heavy-duty brushing such as deburring, cleaning and derusting.

Special features:

- Optimal access to hard-to-reach areas such as inner edges, grooves and keyways.
- Aggressive brushing effect due to the very stiff wire knots.

| D [mm] | D _T | D _F [mm] | Max. RPM |  | Item no. | Designation |
|------------------------------------|----------------|---------------------|----------|---|----------|--|
| Steel wire (ST) | | | | | | |
| 100 | M14/M10 | 0.50 | 12,500 | 1 | 47701012 | POS KBG 10013/M14M10 ST 0.35 Universal |
| Stainless steel wire (INOX) | | | | | | |
| 100 | M14/M10 | 0.50 | 12,500 | 1 | 47701013 | POS KBG 10013/M14M10 INOX 0.35 Universal |

Wheel brushes, knotted



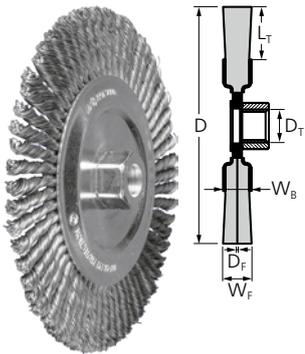
RBG

Aggressive brush. Suitable for heavy-duty brushing in metalwork such as descaling, derusting, deburring, cleaning of weld seams, removal of adhesive residues and spatter.

Special features:

- Aggressive brushing effect due to the very stiff wire knots.
- Cost-efficient and suitable for general use.

| D [mm] | D _A / D _T | D _F [mm] | Max. RPM |  | Item no. | Designation |
|------------------------------------|---------------------------------|---------------------|----------|---|----------|--|
| Steel wire (ST) | | | | | | |
| 115 | 22.2 | 0.50 | 12,500 | 1 | 43740070 | POS RBG 11512/22,2 ST 0,50 Universal |
| 125 | 22.2 | 0.50 | 12,500 | 1 | 43740111 | POS RBG 12512/22,2 ST 0,50 Universal |
| 178 | 22.2 | 0.50 | 9,000 | 1 | 43740074 | POS RBG 17813/22,2 ST 0,50 Universal |
| Stainless steel wire (INOX) | | | | | | |
| 125 | 22.2 | 0.35 | 12,500 | 1 | 47701745 | POS RBG 12512/22.2 INOX 0.35 Universal |



RBG PIPE, Pipeline

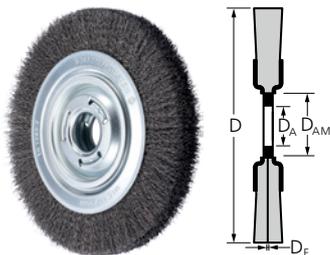
Aggressive and robust brush that is able to withstand high mechanical loads. Perfect for heavy-duty brushing in pipeline and container construction.

Special features:

- Aggressive brushing effect due to the very stiff wire knots.
- Extra-slim design enables optimal access to hard-to-reach areas such as root weld seams.

| D [mm] | D _A / D _T | D _F [mm] | Max. RPM |  | Item no. | Designation |
|------------------------------------|---------------------------------|---------------------|----------|---|----------|---|
| Steel wire (ST) | | | | | | |
| 125 | 22.2 | 0.50 | 20,000 | 1 | 43740076 | POS RBG 12506/22,2 ST 0,50 PIPE Univ. |
| 178 | 22.2 | 0.50 | 9,000 | 1 | 43740078 | POS RBG 17806/22,2 ST 0,50 PIPE Univ. |
| Stainless steel wire (INOX) | | | | | | |
| 125 | 22.2 | 0.50 | 20,000 | 1 | 43740170 | POS RBG 12506/22.2 PIPE INOX 0.50 Universal |

Wheel brushes, crimped



RBU, wide

Excellent for medium-duty hand-held or automated brushing of workpieces with large surfaces. Developed for general use in the workshop.

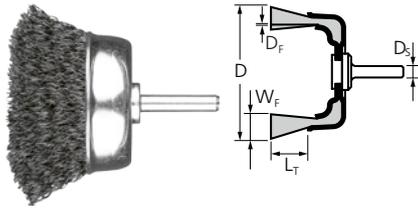
Special features:

- Can be used with all commercially available stationary drive systems and bench grinders thanks to the variable hole diameter.
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

| D [mm] | D _A [mm] | D _{AM} [mm] | D _F [mm] | Max. RPM |  | Item no. | Designation |
|------------------------------------|---|----------------------|---------------------|----------|---|----------|--|
| Steel wire (ST) | | | | | | | |
| 150 | 31.75/20/18/14/12/25.4 (1)/22.2 (7/8)/19.2 (.750)/16 (5/8)/12.7 (1/2) | 50.8 | 0.30 | 6,000 | 1 | 43740015 | POS RBU 15025/50,8 ST 0,30 Universal |
| 200 | 31.75/20/18/14/12/25.4 (1)/22.2 (7/8)/19.2 (.750)/16 (5/8)/12.7 (1/2) | 50.8 | 0.30 | 4,500 | 1 | 43740017 | POS RBU 20025/50,8 ST 0,30 Universal |
| Stainless steel wire (INOX) | | | | | | | |
| 150 | 31.75/20/18/14/12/25.4 (1)/22.2 (7/8)/19.2 (.750)/16 (5/8)/12.7 (1/2) | 50.8 | 0.30 | 6,000 | 1 | 43740171 | POS RBU 15025/50.8 INOX 0.30 Universal |
| 200 | 31.75/20/18/14/12/25.4 (1)/22.2 (7/8)/19.2 (.750)/16 (5/8)/12.7 (1/2) | 50.8 | 0.30 | 4,500 | 1 | 43740172 | POS RBU 20025/50.8 INOX 0.30 Universal |

Universal brushes

Shank-mounted universal cup brushes, crimped



TBU, for straight grinder

Generally suitable for cleaning, derusting and smoothing, as well as removal of corrosion and paint. Particularly suitable for brushing on large, flat and easily accessible surfaces due to face-down use with the entire brush face applied to the workpiece.

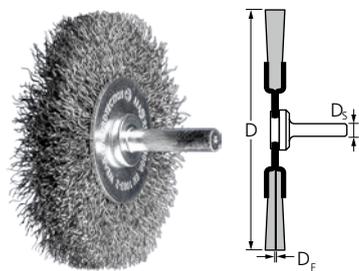
Special features:

- Highly flexible, enabling optimal adjustment to the workpiece contour.

- Creates fine surfaces.

| D [mm] | D _s [mm] | D _f [mm] | Max. RPM | | Item no. | Designation |
|------------------------|---------------------|---------------------|----------|---|----------|-------------------------------------|
| Steel wire (ST) | | | | | | |
| 50 | 6.35 | 0.30 | 13,000 | 1 | 43740003 | POS TBU 5015/6,35 ST 0,30 Universal |

Shank-mounted universal wheel brushes, crimped



RBU, for straight grinder

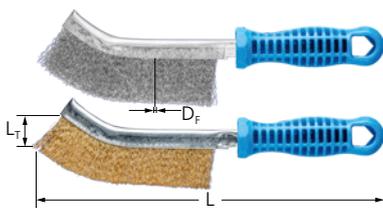
Generally suitable for cleaning, derusting, smoothing, cleaning of weld seams, light deburring, and removal of corrosion and paint.

Special features:

- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

| D [mm] | D _s [mm] | D _f [mm] | Max. RPM | | Item no. | Designation |
|------------------------|---------------------|---------------------|----------|---|----------|-------------------------------------|
| Steel wire (ST) | | | | | | |
| 50 | 6.35 | 0.30 | 20,000 | 1 | 43740004 | POS RBU 5015/6,35 ST 0,30 Universal |

Universal scratch brushes, curved



HBG, curved

Excellent for cleaning work in hard-to-reach areas, e.g. angles, corners and pipes.

Special features:

- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

| Rows | L _r [mm] | L [mm] | D _f [mm] | | Item no. | Designation |
|------------------------------------|---------------------|--------|---------------------|---|----------|--------------------------------|
| Steel wire (ST) | | | | | | |
| 1 | 30 | 255 | 0.30 | 1 | 43740044 | POS HBG 10 ST 0,30 Universal |
| Stainless steel wire (INOX) | | | | | | |
| 1 | 30 | 255 | 0.30 | 1 | 43740045 | POS HBG 10 INOX 0,30 Universal |
| Brass wire (MES) | | | | | | |
| 1 | 30 | 255 | 0.30 | 1 | 43740043 | POS HBG 10 MES 0,30 Universal |





Arbor for POLISCRATCH

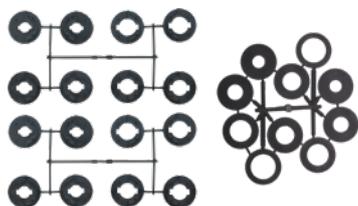
For mounting POLISCRATCH brushes on straight grinders, flexible shafts or power drills.

Special features:

- Secure hold of the brush thanks to highly accurate fit.

| D_T | D_S [mm] | Suitable for |  | Item no. | Designation |
|-------|---------------|--------------------------------|---|----------|-------------|
| M14x2 | 8 | Wheel brushes RBU, POLISCRATCH | 1 | 43595014 | BO 8/M14 |

Adapter



Adapter set AK 32

The adapter set AK 32 is suitable for wheel brushes with a brush diameter from 150 mm in the narrow versions.

Special features:

- Enable the use of brushes on all tool drives as the hole diameter is adjusted to the required dimension.
- Secure hold of the brush thanks to highly accurate fit.

| Suitable for | Centre hole dia. D_A included [mm/inch] |  | Item no. | Designation |
|-----------------------------------|---|---|----------|-------------|
| RBU, slim type \geq dia. 150 mm | 20/18/14/12/25.4 (1)/22.2 (7/8)/16 (5/8)/12.7 (1/2) | 1 | 43690100 | AS AK 32 |



Adapter set AK 32-2

The adapter set AK 32-2 is suitable for wheel brushes with a brush diameter from 150 mm in the wide versions.

Special features:

- Enable the use of brushes on all tool drives as the hole diameter is adjusted to the required dimension.
- Secure hold of the brush thanks to highly accurate fit.

| Suitable for | Centre hole dia. D_A included [mm/inch] |  | Item no. | Designation |
|-----------------------------------|--|---|----------|-------------|
| RBU, wide type \geq dia. 150 mm | 31.75/20/18/14/12/25.4 (1)/22.2 (7/8)/19.2 (3/4)/16 (5/8)/12.7 (1/2) | 1 | 43690102 | AS AK 32-2 |



Quick-change handle SWG

Suitable for manual work with tube brushes.



Special features:

- Comfortable to use thanks to ergonomic shape.
- Combine with the IBUV extensions in order to access hard-to-reach areas.

| L [mm] | Thread |  | Item no. | Designation |
|--------|--------|---|----------|-------------|
| 135 | M6 | 1 | 43690208 | SWG-M6 |



IBUV extension

Suitable for work with tube brushes with a thread.

Special features:

- Optimal access to hard-to-reach areas.
- To achieve a longer overall length, combine the IBUV extensions with the IBUS wire stems or with the SWG quick-change handles.

| L [mm] | Thread | Outer dia. of screw socket [mm] |  | Item no. | Designation |
|--------|--------|---------------------------------|---|----------|--------------|
| 300 | M6 | 12 | 1 | 43690211 | IBUV M6 300 |
| 1,000 | M6 | 12 | 1 | 43690200 | IBUV M6 1000 |



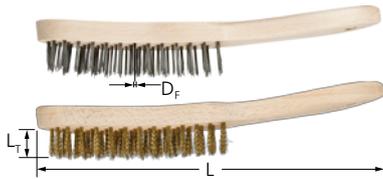
IBUS wire stem

Suitable for work with tube brushes with a thread.

Special features:

- Optimal access to hard-to-reach areas.
- To achieve a longer overall length, combine the IBUS wire stem with the IBUV extensions.

| L [mm] | Thread | Outer dia. of screw socket [mm] |  | Item no. | Designation |
|--------|--------|---------------------------------|---|----------|--------------|
| 1,000 | M6 | 12 | 1 | 43690204 | IBUS M6 1000 |



HBU, universal use

Generally suitable for all light cleaning and derusting work.



Special features:

- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

| Rows | L _T [mm] | L [mm] | D _F [mm] |  | Item no. | Designation |
|------------------------------------|------------------------|-----------|------------------------|---|----------|------------------|
| Steel wire (ST) | | | | | | |
| 3 | 25 | 290 | 0.35 | 10 | 43672001 | HBU 30 ST 0,35 |
| 4 | 25 | 290 | 0.35 | 10 | 43673001 | HBU 40 ST 0,35 |
| 5 | 25 | 290 | 0.35 | 10 | 43670001 | HBU 50 ST 0,35 |
| Stainless steel wire (INOX) | | | | | | |
| 2 | 25 | 290 | 0.30 | 10 | 43671003 | HBU 20 INOX 0,30 |
| 3 | 25 | 290 | 0.30 | 10 | 43672003 | HBU 30 INOX 0,30 |
| 4 | 25 | 290 | 0.30 | 10 | 43673003 | HBU 40 INOX 0,30 |
| 5 | 25 | 290 | 0.30 | 10 | 43670003 | HBU 50 INOX 0,30 |
| Brass wire (MES) | | | | | | |
| 3 | 25 | 290 | 0.30 | 10 | 43672002 | HBU 30 MES 0,30 |



HBU LH, Long Handle

Suitable for cleaning, derusting, and cleaning of weld seams and surfaces. Extra-long handle.

Special features:

- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

| Rows | L _T [mm] | L [mm] | D _F [mm] |  | Item no. | Designation |
|------------------------|------------------------|-----------|------------------------|---|----------|-------------------|
| Steel wire (ST) | | | | | | |
| 3 | 25 | 350 | 0.35 | 10 | 43672011 | HBU LH 30 ST 0,35 |
| 4 | 25 | 350 | 0.35 | 10 | 43673011 | HBU LH 40 ST 0,35 |



HBK, for fillet welds

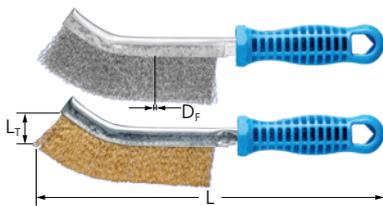
Suitable for cleaning and derusting fillet welds and V-shaped welds thanks to the V shape.



Special features:

- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

| Rows | L _T [mm] | L [mm] | D _F [mm] |  | Item no. | Designation |
|------------------------------------|------------------------|-----------|------------------------|---|----------|------------------|
| Steel wire (ST) | | | | | | |
| 3 | 35 | 290 | 0.35 | 10 | 43676001 | HBK 30 ST 0,35 |
| Stainless steel wire (INOX) | | | | | | |
| 3 | 35 | 290 | 0.35 | 10 | 43676003 | HBK 30 INOX 0,35 |



HBG, curved

Excellent for cleaning work in hard-to-reach areas, e.g. angles, corners and pipes.



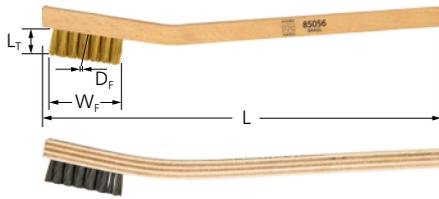
Special features:

- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

| Rows | L _T [mm] | L [mm] | D _F [mm] |  | Item no. | Designation |
|---|------------------------|-----------|------------------------|---|----------|------------------|
| Steel wire (ST) – ST = brass-plated steel wire | | | | | | |
| 1 | 25 | 265 | 0.30 | 10 | 43660001 | HBG 10 ST 0,30 |
| Stainless steel wire (INOX) | | | | | | |
| 1 | 25 | 265 | 0.30 | 10 | 43662003 | HBG 10 INOX 0,30 |
| Brass wire (MES) | | | | | | |
| 1 | 25 | 265 | 0.30 | 10 | 43662002 | HBG 10 MES 0,30 |

Scratch brushes

Scratch brushes



HBZ GR, stitched back

Particularly well suited to cleaning spark plugs, small workpieces and tools.

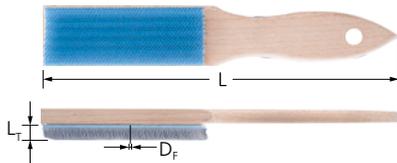
Special features:

- Excellent for the precise cleaning of small weld seams.

| Rows | L _T [mm] | L [mm] | D _F [mm] | Version |  | Item no. | Designation |
|------|------------------------|-----------|------------------------|---------|---|----------|-------------|
|------|------------------------|-----------|------------------------|---------|---|----------|-------------|

Stainless steel wire (INOX)

| | | | | | | | |
|---|----|-----|------|--------------|----|----------|------------------------|
| 3 | 13 | 191 | 0.15 | Punched type | 36 | 79185055 | HBZ 30 INOX 0,15 GL190 |
|---|----|-----|------|--------------|----|----------|------------------------|



HBF, for files

The file brush effortlessly cleans chips from a clogged file.

Special features:

- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

| Rows | L _T [mm] | L [mm] | D _F [mm] |  | Item no. | Designation |
|------|------------------------|-----------|------------------------|---|----------|-------------|
|------|------------------------|-----------|------------------------|---|----------|-------------|

Steel wire (ST)

| | | | | | | |
|---|---|-----|------|---|----------|----------------|
| 1 | 7 | 232 | 0.30 | 5 | 12601000 | HBF 10 ST 0,30 |
|---|---|-----|------|---|----------|----------------|