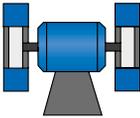
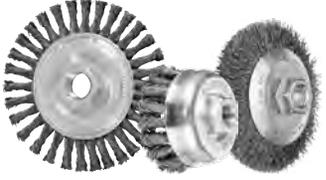
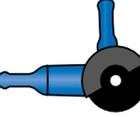
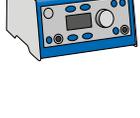
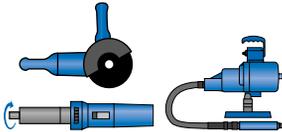
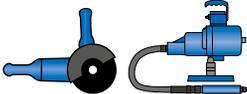
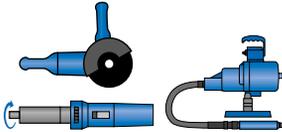
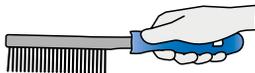
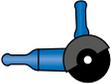
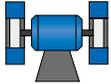
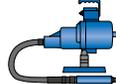
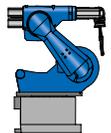
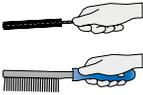


# Power and maintenance brushes

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PFERD INC. Milwaukee, Wisconsin, USA



PFERD offers a full and comprehensive range of high-grade products for cutting and machining materials to any desired condition, from coarse to mirror-polish. PFERD power brushes are used where exacting demands are placed on efficiency and outcome of cutting and surface conditioning operations.

### Special products made to order

If you cannot find the solution for your particular application in our extensive catalogue range, we can produce brushes to meet your application requirements upon request.

Contact your local sales representatives who will be happy to assist you.

### Technical customer support

Our sales consultants, customer service and technical support team will be glad to assist you by phone or on-site to optimize your brushing applications. Please contact us:

**Canada Phone: (905) 501-1555**

**Toll-Free: (866) 245-1555**

**USA Phone: (262) 255-3200**

**Toll-Free: (800) 342-9015**

You will find our worldwide contact information at [pferd.com](http://pferd.com).

## Filament composition and construction

### Wire filament

**Crimped brushes:** For work requiring high flexibility, such as brushing of highly contoured workpieces.

**Knot brushes:** For work that requires aggressive brushing behaviour, such as work on weld seams.

Filament material	Temperature resistance	Advantages/properties
Carbon steel wire	up to 600°F	Proprietary PFERD wire with high tensile strength and bending fatigue strength. Ensures long service life, excellent abrasion, and wear-resistance.
Stainless steel wire (INOX)	up to 850°F	Corrosion-resistant. Works well with solvents; Excellent bend recovery. PFERD brushes with INOX filament can be degreased upon request.
Stainless steel wire (INOX)/ Diamond (DIA)		Ideal for aggressive surface conditioning applications.
Further information about working with stainless steel (INOX) can be found on page 11.		
Brass wire	up to 350°F	Brass wire is softer than steel wire, and is more flexible. It is low-sparking and produces fine surface finishes.

### M-BRAD® nylon abrasive 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:** for applications that place particular demands on the aggressiveness of the brush.

Recommendation for use: Use coolant for applications where a large amount of heat is produced.

Filament material (abrasive grain)	Temperature resistance	Advantages/properties
Silicon carbide (SiC)	up to 410°F	Ideal for deburring work and for improving surfaces.
Aluminum oxide (AO)		Recommended for use on wood and softer workpieces like brass and bronze. Yields smoother matte finishes on softer material.
Ceramic oxide grain (CO)		Offers good toughness and excellent sharpness. For high stock removal rates and aggressive brushing action.
Diamond (DIA)		Particularly suitable for aggressive surface conditioning applications. Primarily used on extremely hard materials.

### Nylon filament (non-abrasive)

Filament material	Temperature resistance	Advantages/properties
Nylon (non-abrasive)	up to 410°F	Particularly suited to working with materials that would otherwise be scratched or damaged, e.g. soft plastics.

### Natural bristles

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

Filament material	Temperature resistance	Advantages/properties
Tampico	up to 300°F	Natural fiber will not scratch. Very good durability with excellent liquid retention in maintenance applications.
Natural bristle		Includes various animal hairs, which generally have excellent moisture-retention properties. Bristle coarseness varies from coarse (China bristle) to fine (camel hair).

### Selecting the filament material

Filament material	Workpiece materials						
	Carbon steel	Stainless steel (INOX)	Non-ferrous metals			Cast iron	Plastics
			Aluminum	Soft non-ferrous metals Brass, copper, zinc	Hard non-ferrous metals Titanium, bronze, nickel-based and cobalt-based alloys		
Carbon steel wire		-	-	-	-		
Stainless steel wire (INOX)						-	
Stainless steel wire (INOX) Diamond (DIA)				-			
Brass wire	-	-	-		-	-	
Silicon carbide SiC							
Aluminum oxide A				-	-		
Ceramic oxide grain CO				-		-	
Diamond DIA		-	-	-		-	
Nylon (non-abrasive)	-	-			-		
Natural bristle (with polishing paste)							

= highly recommended    = recommended    - = not recommended

### Quick product selection guide

To help you find the optimum tool for your needs easily, we have summarized the appropriate brushes for the most important applications on pages 6 to 7.

#### Select the filament material

The material that you are working with is key to determining the optimum filament material.

Carbon steel wire	-	grey
Stainless steel (INOX) wire	-	blue
M-BRAD® abrasive filament	-	red
Brass/bronze wire	-	yellow
Nylon/natural bristle	-	brown

#### Select the filament type

The brushing effect you want determines which filament type to choose.

#### Select the brush

The application and geometry of the workpiece indicate the optimum brush.

PFERD power brushes are mainly used for:

#### Deburring

- Removal of secondary burrs produced by milling, grinding, turning or drilling

#### Cleaning

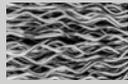
- Rust removal, descaling
- Work on weld seams
- Cleaning, removal of paint

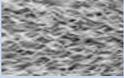
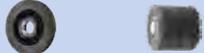
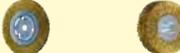
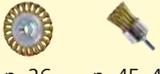
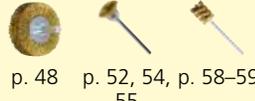
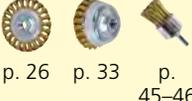
#### Structuring surfaces

- Matte finishing, satinizing
- Roughing

# Power and maintenance brushes

## Quick product selection guide

Workpiece materials	Steel, cast iron, plastics			Stainless steel (INOX), aluminum, other non-ferrous metals	
Filament material	Carbon steel wire Colour code: grey			Stainless steel wire (INOX) colour code: blue	
Filament construction	 knotted	 crimped	 ECAP® encapsulation	 knotted	
Brushing effect	Aggressive brushing effect, less flexible	Light brushing effect, flexible	Very aggressive brushing effect, not flexible	Aggressive brushing effect, less flexible	
<b>Weld cleaning</b> 	 p. 27–30, 37, 49	   p. 32 p. 43–44 p. 82–86	  p. 31 p. 50	    p. 27–30, 65 p. 37 p. 45–47 p. 49, 64	
<b>Structuring surfaces</b> 	 p. 66	  p. 14–18 p. 19	 p. 44	 p. 66	
<b>Edge deburring</b> 	  p. 21–23	   p. 14–18 p. 32 p. 36	  p. 31 p. 50	   p. 27–30 p. 37 p. 49	
<b>Surface deburring</b> 	  p. 33–35 p. 37	    p. 32 p. 36 p. 43–44 p. 48	  p. 31 p. 50	  p. 33–35 p. 37	
<b>Interior deburring</b> 	  p. 45–47 p. 49	    p. 43–44, 57 p. 48, 50, 52 p. 51, 53 p. 58–59	 p. 44	  p. 45–47 p. 49, 64	
<b>Surface cleaning</b> 	  p. 33–35 p. 37	   p. 19 p. 32 p. 36	  p. 32 p. 44	  p. 33–35 p. 37	
<b>Interior cleaning</b> 	  p. 45–46 p. 47	    p. 43–44 p. 48, 50 p. 52–55 p. 58–59	 p. 44	  p. 45–46 p. 47	
<b>Polishing</b> 					

Stainless steel (INOX), aluminum, other non-ferrous metals	Brass, copper, other non-ferrous metals		Stainless steel (INOX), aluminum, non-ferrous metals, titanium, cast, plastics, wood	Stainless steel (INOX), non-ferrous metals, cast iron
Stainless steel wire (INOX) colour code: blue	Brass wire Colour code: yellow		M-BRAD® abrasive filament colour code: red	Natural materials/nylon Colour code: brown
 crimped Light brushing effect, flexible	 knotted Light Brushing and cleaning effect, less flexible	 crimped Light brushing effect, flexible	 crimped Grinding brushing effect, very flexible	 crimped Light brushing effect (use with polishing pastes)
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# Power and maintenance brushes

## Safety information

### PFERD – committed to safety

PFERD power brushes are designed, tested, manufactured, and inspected to ensure quality with a particular concern for safety considerations. To promote safety, users must be aware of potential hazards and their responsibilities for safe and proper operation of power brushes.

Warnings, safety requirements, and product limitations and application suggestions are printed in this catalogue and in other literature, marked

on brushes (when feasible), and/or supplied on or in the product container.

These warnings and requirements must be observed by all power brush operators. Failure to do so may endanger the brush operator and others in the area of the brushing operation.

### Personal protection

In normal power brushing operations, the material being removed, such as burrs, scale, dirt, weld slag, or other residue, will fly off the brush with considerable force along with the brush filaments, which break off due to fatigue.

The potential for serious injury exists for both the brush operator and others in the work area (possibly 50 feet or more from the brush).

To protect against this hazard, operators and others in the area must wear SAFETY GOGGLES WITH SIDE SHIELDS or FULL FACE SHIELDS OVER SAFETY GLASSES WITH SIDE SHIELDS, along with PROTECTIVE CLOTHING such as GLOVES, MASKS, and PROPER FOOTWEAR.

### Safety requirements summary

**1. Protective goggles:** Safety goggles or full face shields worn over safety glasses with side shields MUST BE WORN BY ALL OPERATORS AND OTHERS IN THE AREA OF POWER BRUSH OPERATIONS. Comply with the requirements of ANSI Z87.1 "Occupational Eye and Face Protection".

**2. Guards:** Keep all machine guards in place.

**3. Speeds:** Observe all speed restrictions indicated on the brushes, containers, labels, or printed in pertinent literature. "MSFS" means Maximum Safe Free Speed [RPM] – spinning free with no work applied. For reasons of safety, the "MSFS" should not be exceeded under any circumstances.

**4. Safety standards:** Comply with the safety standards of the American Brush Manufacturers' Association and the American National Standards Institute standard ANSI B165.1, "Safety Requirements – Power Brushes".

**5. Protective equipment:** Appropriate protective clothing and equipment must be used where a possibility of injury exists that can be prevented by such clothing or equipment.

**6. Dust warning:** Use of the products in this catalogue may create dust and other particles. To avoid any risk of adverse health effects, the operator must use appropriate protective measures, including a respirator, during and after operation. Refer to our Safety Data Sheet (SDS) for further information regarding the product to be used. Furthermore, additional health hazards may result from dust in the surrounding environment and from dust generated from the workpiece material. PROTECTIVE MEASURES FOR THE OPERATOR MUST ADDRESS DUST AND OTHER PARTICULATES ARISING FROM ALL SOURCES. Always use our products in a well-ventilated workspace.

**7. California Proposition 65:** PFERD brushes comply with all California Proposition 65 requirements.

### Read all safety information and follow all instructions on packaging

You must follow all operator and safety instructions, as well as common safety practices which will reduce the likelihood or severity of physical injury.

Many brush manufacturers mark some safety warnings, recommendations, and usage restrictions directly on the product. It is not always practical to include even the most limited safety information on the brush itself. Therefore, the operator MUST READ and FOLLOW

all instructions supplied in or on the product packaging as well as those marked on the product itself. The operator should also refer to the safety and operating information printed in the brush manufacturer's catalogue and other literature.

### Prevent problems due to mechanical failure

Do not allow unsafe conditions to continue. Occasionally, due to worn bearings, a bent spindle, an unusual application, operator abuse or inappropriate use, a brush may fail. A brush which is not received in acceptable condition for trouble-free operation may also fail. Do not use or continue to use a failed brush, or one which is functioning improperly (i.e., throwing filaments, out-of-balance, etc.), as this increases the

possibility for further brush failure and hazard of injury. The cause of the failure should be evaluated and corrected immediately.

### Availability of ANSI standards

In this catalogue, reference is made to these ANSI standards: ANSI B-165.1, ANSI Z87.1. Copies of these standards are available at public libraries and from the American Brush Manufacturers' Association, 736 Main Ave., Suite 7, Durango, CO 81301, Tel: (720) 392-ABMA (2262), Fax: (866) 837-8450, email: info@ABMA.org; or American National Standards Institute, Inc. (ANSI), 1900 Arch Street, Philadelphia, PA 19103 (B165.1 only).



### Safety recommendations



= Wear protective goggles!



= Wear dust respirator!



= Wear protective gloves!



= Observe safety recommendations!



Read the Safety Data Sheets (SDS) before using any materials! (pferdusa.com).

### Warning!

Failure to observe safety precautions may result in injury.



### ANSI standard B165.1 arbor holes

ANSI standard B165.1-2013 dictates maximum face widths and minimum arbor hole sizes allowable. All brushes listed in this catalogue conform to all ANSI standards.

If you require a brush that does not conform to these standards, please contact your distributor for assistance.

#### Note:

The maximum face width listed in this table refers to shafts that are supported by one end only, such as angle and bench grinders. It does not apply to shafts that are supported by bearings at both ends.

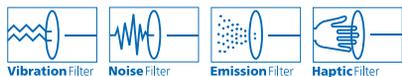
Wheel diameter [Inches]	Minimum arbor hole [Inches]	Maximum face width [Inches]
2	1/4	3/4
3	1/4	3/4
4	3/8	1
6	1/2	1-1/4
8	5/8	1-1/4
10	3/4	2
12	1	3
14	1-1/4	3
15	2	3
16	2	3

### PFERDVALUE® – Your added value with PFERD

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

Discover **PFERDERGONOMICS®** and **PFERDEFFICIENCY®**:

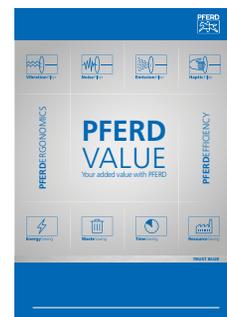
As part of **PFERDERGONOMICS®**, PFERD offers ergonomically optimized products and power tools that contribute to greater safety and working comfort, and thus to health protection.



As part of **PFERDEFFICIENCY®**, PFERD offers innovative, high-performance product solutions and power tools with outstanding added value.



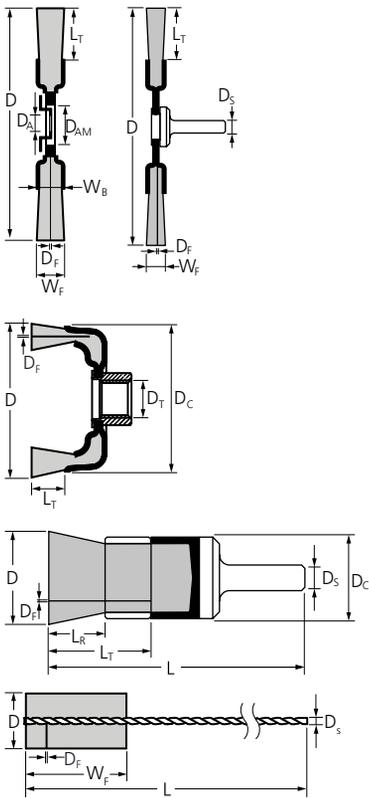
For more information on this topic, please refer to our brochure "PFERDVALUE® – Your added value with PFERD".



# Power and maintenance brushes

## Brush dimensions

### Explanation of dimensions



Abbreviation	Unit	Description
D	Inches	Nominal outer diameter/width of the brush, the working surface for end brushes
D <sub>A</sub>	Inches	Arbor hole diameters with adapters
D <sub>AM</sub>	Inches	Maximum brush arbor hole diameter without adapters
D <sub>C</sub>	Inches	Cup diameter, for stem mounted end brushes
D <sub>F</sub>	Inches	Nominal diameter/thickness of the filament material
D <sub>S</sub>	Inches	Shank diameter
D <sub>T</sub>	Inches	Thread size
L	Inches	Nominal total length for tube brushes, block length for maintenance brushes
L <sub>S</sub>	Inches	Total length of the mounting shank
L <sub>T</sub>	Inches	Trim length of the filament material, including bridled filament
L <sub>R</sub>	Inches	Total exposed length of the filament material (free length without bridle)
W <sub>A</sub>	Inches	Width of the main body at width of brush at arbor hole/thread
W <sub>B</sub>	Inches	"Width on arbor", mounting width, widest point of the main body
W <sub>F</sub>	Inches	"Face width", nominal dimensions of the working contact width

### Conversion table [Inches – mm – gauge]

Brush diameter		Arbor hole diameter		Face width		Wire diameter		
D [Inches]	D [mm]	D <sub>A</sub> [Inches]	D <sub>A</sub> [mm]	W <sub>F</sub> [Inches]	W <sub>F</sub> [mm]	D <sub>F</sub> [Inches]	D <sub>F</sub> [mm]	D <sub>F</sub> wire gauge
2-3/4	70	1/4	6.4	1/8	3	.004	0.10	50
3	75	3/8	9.5	1/4	6	.006	0.15	43
3-1/2	90	1/2	12.7	3/8	10	.008	0.20	38
4	100	5/8	15.9	1/2	12	.010	0.25	34
5	125	3/4	19.0	5/8	16	.012	0.30	33
6	150	7/8	22.2	3/4	19	.014	0.35	30
7	178	1	25.4	7/8	22	.016	0.40	28
8	200	1-1/8	28.6	1	25	.018	0.45	26
10	250	1-1/4	31.8	1-1/8	29	.020	0.50	25
12	300	1-1/2	38.1	1-1/4	32	.023	0.60	24
14	350	1-3/4	44.5	1-1/2	38	.026	0.65	23
15	380	2	50.8	2	50	.032	0.80	21
16	400	3	76.2	3	75	.035	0.90	20
						.040	1.01	19

### Expertise in working with stainless steel (INOX)

The PFERD TOOL MANUAL provides a comprehensive range of solutions which meet the demands for work on stainless steel. We are happy to help find solutions to your application problems.



The PRAXIS brochure "PFERD tools for use on stainless steel (INOX)" contains much valuable information on material properties and application recommendations.

Due to its resistance against corrosion, good forming and welding qualities, and its attractive appearance, stainless steel (INOX) is becoming increasingly popular for various products. These properties also place special requirements and demands on the stainless steel (INOX) wire brush used.

### PFERD brush wire qualities

In order to fulfill the requirements for brushing stainless steel (INOX), PFERD produces all stainless steel (INOX) brushes using 302 stainless steel wire. Practical experience gained from industrial use confirms that this wire quality achieves excellent corrosion resistance with optimum brush life.

### Magnetism of stainless steel

The wire found in stainless steel (INOX) brushes tends to become magnetic after cold working. The reason for this is a change in the microstructure caused through deformation (e.g. in wire drawing process). This change in microstructure and the resulting magnetic qualities have no influence on the quality and

corrosion resistance of the stainless steel (INOX) wire. It retains its corrosion resistant properties.

All PFERD brush products with stainless steel wire (INOX) are colour-coded blue in this catalogue. All of these brushes are recommended for use on all stainless steels (INOX), such as 316.

### INOX-TOTAL brushes

For extremely difficult operating conditions, PFERD offers a range of "INOX-TOTAL" (IT) brushes. These are characterized by the fact that all parts of the brush are made of stainless steel in quality 302, which ensures optimum corrosion protection.

Detailed information and ordering data can be found on page 64.



### Recommendations for avoiding corrosion

Cause of corrosion	Solution
Change in the microstructure due to too much heat build-up.	Avoid heat build-up through: Lower rotational speed Reduced contact pressure Oscillated brushing action over the workpiece surface
Contact between the workpiece and the parts of the brush that are made of steel.	Use INOX-TOTAL type brushes. Avoid contact between the face plates and workpiece. Use end brushes with plastic protection.
Mixture of work on steel and stainless steel (INOX).	Do not use brushes that have already been used to work on steel, copper or other metals. Do not work on steel in the vicinity of stainless steel (INOX) applications.
Wire particles are introduced into the surface (crevice corrosion).	Reduce contact pressure. Use a low rotational speed.
Stock removal rate is too low.	Removal of deep structural changes by: Extending the brushing time Using grinding tools

### Note

To avoid possible problems, it makes sense to run preliminary tests to check the corrosion resistance of the workpiece. General cleaning of the workpieces after brushing is recommended in order to prevent loose particles sticking to the workpiece.

For workpieces that are used in a heavily corrosive environment, processing with grinding tools and etching or passivation is recommended. This also applies when not only stainless steel (INOX) but also non-alloyed steels are processed and it cannot be completely ruled out that abrasion particles will land on the stainless steel.



For additional PFERD products designed for use on stainless steel workpieces please see catalogue sections 1, 2, 4 and 6.

# Power and maintenance brushes

## Peripheral speeds and recommendations for use

### Determining the recommended speed

Select brush type.  
Read recommended peripheral speed.  
Determine the speed using the brush diameter and peripheral speed.

Brush type	Peripheral speed
End brushes	2,500–4,000 SFPM
Cup brushes	8,000–10,000 SFPM
Wheel brushes / bevel cup brushes	see chart below

Key to the colour bars on the chart below:

Carbon steel wire	– grey
Stainless steel wire (INOX)	– blue
Brass/bronze wire	– yellow
M-BRAD® abrasive filament	– red

### Recommended peripheral speeds for brushing applications

Application	Surface feet per minute [SFPM]										
	1,250	2,000	2,750	3,500	4,250	5,000	5,750	6,500	7,250	8,000	8,750
Burr removal/ edge blending	3,500–7,250 SFPM										
	2,000–5,750 SFPM										
	2,000–5,750 SFPM										
	1,250–5,400 SFPM										
Scale removal	5,000–9,500 SFPM										
	3,500–7,250 SFPM										
Surface conditioning	1,250–4,250 SFPM										
	1,250–3,500 SFPM										
	1,250–3,500 SFPM										
	2,000–5,750 SFPM										
Weld cleaning	5,000–9,500 SFPM										
	3,500–7,250 SFPM										

### Peripheral speeds in surface feet per minute [SFPM]

RPM	Brush diameter [Inches]									
	2	3	4	5	6	8	10	12	14	15
800	400	600	800	1,000	1,250	1,650	2,050	2,500	2,900	3,100
1,150	600	900	1,200	1,500	1,800	2,400	3,000	3,600	4,200	4,500
1,200	600	900	1,250	1,550	1,850	2,500	3,100	3,750	4,350	4,700
1,750	900	1,350	1,800	2,250	2,700	3,650	4,550	5,450	6,400	6,850
2,000	1,000	1,550	2,050	2,600	3,100	4,150	5,200	6,250	7,300	7,850
2,400	1,250	1,850	2,500	3,100	3,750	5,000	6,250	7,500	8,750	9,400
3,000	1,550	2,350	3,100	3,900	4,700	6,250	7,850	9,400	10,950	11,750
3,450	1,800	2,700	3,600	4,500	5,400	7,200	9,000	10,800	12,600	13,500
3,750	1,950	2,900	3,900	4,900	5,850	7,850	9,800	11,750		
4,000	2,050	3,100	4,150	5,200	6,250	8,350	10,450	12,550		
4,500	2,350	3,500	4,700	5,850	7,050	9,400	11,750	14,100		
5,000	2,600	3,900	5,200	6,500	7,850	10,450	13,050			
5,400	2,800	4,200	5,650	7,050	8,450	11,300				
6,000	3,100	4,700	6,250	7,850	9,400					
8,500	4,400	6,650	8,850	11,100						
9,000	4,700	7,050	9,400	11,750						
10,000	5,200	7,850	10,450	13,050						
12,000	6,250	9,400	12,550	15,700						
15,000	7,850	11,750	15,700	19,600						
18,000	9,400	14,100	18,800							
20,000	10,450	15,700	16,400							

**Example:**  
Crimped wire wheel, 6" diameter  
Peripheral speed: 5,400 SFPM  
Rotational speed: 3,450 RPM

$$\text{SFPM} = \frac{\pi \times \text{Diameter [Inches]} \times \text{RPM}}{12}$$

### Recommendations for use

#### Brushing pressure and work position



When working with wire brushes, only use the filament tips (Fig. 2).

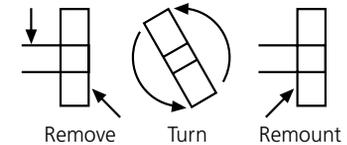
Wire brushes work when the tips of the filament come into contact with the workpiece. The tips are the only sharp point on the filament. Avoid applying excessive pressure. Excessive pressure causes overbending of the filaments and heat build-up resulting in filament breakage, rapid dulling, and reduced brush life.

Apply work to brush, or vice versa, in such a way that as much of the brush face as possible is in full contact with the workpiece. Applying the work to the side or edge of the brush will result in wire breakage and reduce brush life.

#### Self-sharpening effect

The self-sharpening effect can be improved by changing the brush operating direction.

Spindle



### Solutions to common problems

Problem	Solution
Inadequate brushing action	Increase RPM or use larger brush diameter at same RPM. Use a brush with shorter trim, or with thicker filaments.
Excessively strong brushing action	Reduce RPM or use a smaller brush diameter at same RPM. Reduce contact pressure. Use a brush with longer trim or thinner filaments.
Surface is too rough and irregular	Use a wider brush or a longer trim length. Select a brush with thinner filaments. Increase RPM.
Excessively fine finish/surface appears too polished	Select a brush with thicker filaments. Use a brush with shorter trim. Reduce RPM.
Secondary burr formation	Change brush-to-workpiece operating angle. Use a brush with shorter trim or thicker filaments.

### Standard industrial packaging

All brushes ship in a robust blue PFERD standard box. Box label information includes box quantity, physical product description, and maximum safe free speed guidelines.

The box also contains ABMA/ANSI safety information and, in many cases, vapor corrosion inhibitors.

#### Advantages:

Robust packaging suited to the product. EDP number on the packaging label. Guidelines for safe use in each brush package.



### Point-of-purchase packaging (POP range)

A selection of the most widely used industrial power brushes is available in singular sales promoting self-service packs. These products can be neatly displayed in our PFERD TOOL-CENTER for maximum impact and appeal at the point of sale.

The brush and its characteristics are easy to see through the clear plastic clamshell. A multi-language safety sheet is enclosed with every brush and provides valuable advice on the use of PFERD power brushes.

Brushes available in POP packaging are marked with a "P" in this catalogue. To order brushes in POP versions, please add a "P" to the end of the EDP number. The minimum order quantity of POP items is printed in "blue" accordingly.

#### Advantages

- Clear plastic clamshell.
- Easy identification of brush.
- Individually labelled clamshell packaging.
- Brush fully enclosed; keeps brush protected from contaminants.
- Handle without risk of wire cuts.
- Reusable storage container.
- Encourages safety on the job with easy reference.
- Includes safety inserts in English, French and Spanish.

No need to purchase more than you want. Useful hanging hole for optimum product presentation on your sales wall.



For more information on our range of POP packaged brushes, refer to the POINT OF PURCHASE BRUSHES brochure.



### Packaging label

#### Advantages:

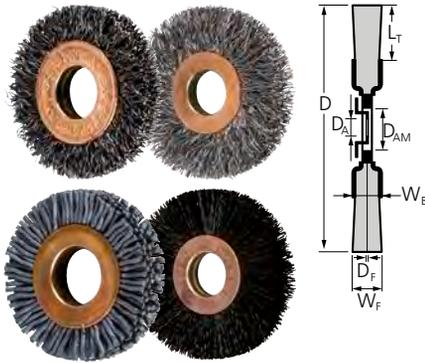
- Includes EDP and detailed product description
- Pictograms for clarification of the most important product features.
- Information regarding the safe and best use of brushes.

- Filament material
- Product description
- Technical information
- EDP
- Packaging unit
- Brush type



# Unthreaded power brushes

## Crimped wheels



### Small diameter copper centre

Designed for individual use in confined areas, or mounted on a shaft. They are best suited for brushing uneven surfaces and areas inaccessible to wider brushes. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.  
Can be gang-mounted for wide face use.

#### Ordering note:

Please see page 78 for a complete listing of drive arbors and adapters.

D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	Adapter style	
						.006	.008	.012	.014				

#### Carbon steel wire

1-1/4	3/8	3/8	1/4	7/32	1/4	-	81504	-	-	10,000–15,000	20,000	F	10
1-1/2	3/8	7/16	1/4	7/32	-	-	81515	81517	-	10,000–15,000	20,000	F	10
2	1/2	1/2	3/8	7/32	3/8	-	81527	81529	81530	10,000–15,000	20,000	F	10
2-1/2	1/2	3/4	1/2	5/16	3/8	-	-	81534	81535	10,000–15,000	20,000	F	10
3	1/2	1	5/8	5/16	3/8	81542	81543	81545	81546	10,000–15,000	20,000	F	10
4	5/8	1-1/2	1/2	5/16	-	-	81553	-	-	5,000–7,500	10,000	F	10

#### Stainless steel wire (INOX)

2	1/2	1/2	3/8	7/32	3/8	81575	-	81578	-	8,000–13,000	20,000	F	10
3	1/2	1	5/8	5/16	3/8	81586	81587	81589	81590	8,000–13,000	20,000	F	10

D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches]/Grit size and EDP number			Opt. RPM	Max. RPM	Adapter style	
						.022/320	.035/180	.040/120				

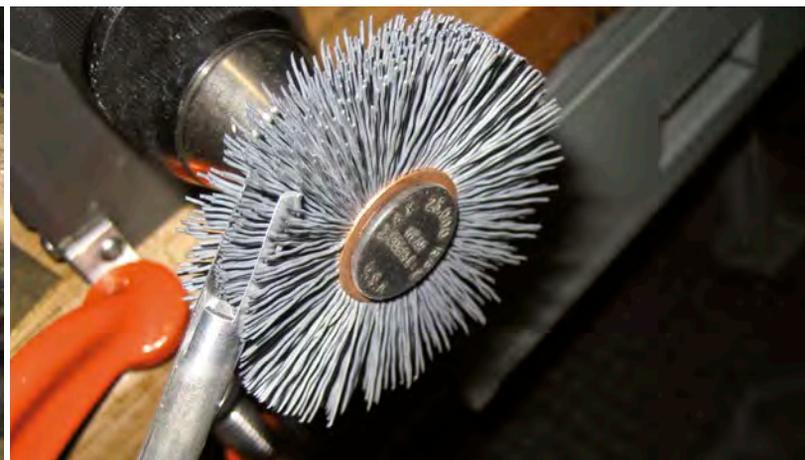
#### M-BRAD® nylon abrasive filament, silicon carbide SiC

1-1/2	1/2	7/16	3/8	7/32	3/8	-	83782	-	-	4,000–6,000	10,000	F	10
2	1/2	1	5/8	7/32	3/8	83784	-	83785	-	4,000–6,000	10,000	F	10
2-1/2	5/8	11/16	5/8	5/16	-	-	-	83792	-	4,000–6,000	10,000	F	10
3	1/2	15/16	5/8	5/16	3/8	83793	83794	83795	-	4,000–6,000	10,000	F	10

D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	Adapter style	
						.014 nylon	.016 nylon				

#### Nylon plastic filament

2	1/2	1/2	3/8	7/32	-	84340	-	-	-	5,200–9,000	20,000	F	10
3	1/2	1	3/8	5/16	-	-	84343	-	-	5,200–9,000	20,000	F	10



### Narrow face

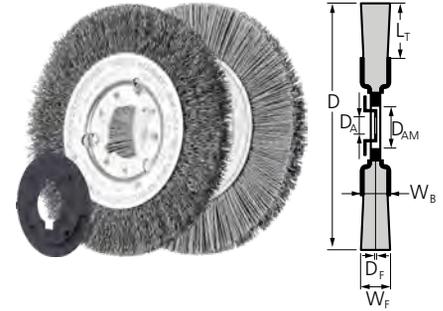
Designed for individual use in confined areas, or in assemblies mounted on a shaft. They are best suited for brushing uneven surfaces and areas inaccessible to wider brushes. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.
- Can be used with all common stationary drive systems and bench grinders.
- Can be gang-mounted for wide face use.

#### Ordering note:

Wheels with 1-1/4" arbor hole are provided with 1/4" x 1/8" keyways. Please refer to page 9 for ANSI recommended arbor hole mounting requirements. Please see page 78 for a complete listing of drive arbors and adapters.



D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number					Opt. RPM	Max. RPM	Adapter style	
						.006	.008	.010	.012	.014				

#### Carbon steel wire

3	1/2	3/4	9/16	7/16	3/8	-	-	-	-	80003	5,000–7,500	10,000	D	2
4	1/2	3/4	1/2	7/16	1/2, 3/8	-	81442	-	80017	80018	6,000–9,000	12,500	D	2
6	5/8	1-1/8	5/8	7/16	1/2	80038	80039P	80040	80041	80042P	4,000–6,000	8,000	D	10/5
8	5/8	1-1/2	5/8	5/8	-	80158	80159	-	80161	80162	3,000–4,500	6,000	-	2
	1-1/4	1-1/2	3/4	1/2	-	-	-	-	80167	81449	3,000–4,500	6,000	A	2
10	1-1/4	1-7/8	1	1/2	-	-	80225	-	-	80228	2,000–3,000	4,200	A	2
12	1-1/4	2-7/8	1-1/4	11/16	-	-	-	-	80283	80284	1,500–2,500	3,400	A	2

#### Stainless steel wire (INOX)

4	5/8	3/4	1/2	7/16	1/2, 3/8	80344	-	-	80347	-	5,000–8,000	12,500	D	2
6	5/8	1-1/8	5/8	7/16	1/2	80368	80369	80370	80371	-	3,000–5,000	8,000	D	2
8	5/8	1-1/2	5/8	5/8	-	-	-	-	80491	-	2,000–4,000	6,000	-	2
		2-1/8	3/4	1/2	-	80518	-	-	-	-	2,000–4,000	6,000	-	2
	1-1/4	1-1/2	3/4	1/2	-	-	-	-	80497	-	2,000–4,000	6,000	A	2
10	1-1/4	1-7/8	1	1/2	-	-	-	-	80557	-	1,500–2,500	4,200	A	2

#### Brass wire

6	5/8	1-1/8	5/8	7/16	1/2	-	80666	-	-	80667	3,000–5,000	8,000	D	2
8	1-1/4	1-1/2	3/4	1/2	-	-	80682	-	-	-	2,000–4,000	6,000	A	2

D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches]/Grit size and EDP number					Opt. RPM	Max. RPM	Adapter style	
						.022/320	.035/180	.022/120	.040/120	.040/80				

#### M-BRAD® nylon abrasive filament, silicon carbide SiC

4	5/8	3/4	3/4	3/4	1/2	83683	83682	-	83681	83680	3,000–5,000	12,500	D	2
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#### M-BRAD® nylon abrasive filament, ceramic oxide CO

4	5/8	3/4	3/4	3/4	1/2	-	-	84226	84227	84225	3,000–5,000	12,500	D	2
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D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	EDP number					Opt. RPM	Max. RPM	Adapter style	
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#### Untreated tampico filament

6	1-1/4	1-1/2	5/8	7/16	-	84324					1,500–2,500	6,000	A	1
8	1-1/4	1-1/2	5/8	5/8	-	84327					1,200–2,000	4,500	A	1
12	1-1/4	2-7/8	1	11/16	-	84332					900–1,500	3,600	A	1

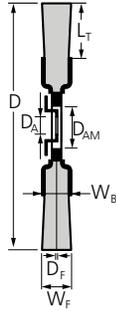
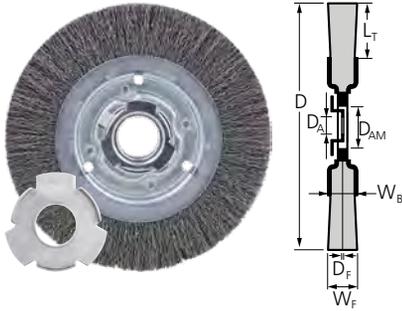
D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number					Opt. RPM	Max. RPM	Adapter style	
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#### Nylon plastic filament

6	1-1/4	1-1/2	3/4	7/16	-	84344					1,500–2,500	6,000	A	2
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# Unthreaded power brushes

## Crimped wheels



### Medium face

Medium face brushes are designed for medium- to heavy-duty use, either individually or gang-mounted. As with all PFERD crimped wire wheel brushes, the metal components and adapters are designed for a flush fit when gang-mounting, ensuring a consistent surface finish. Maximum productivity with long service life.

#### Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.
- Can be used with all common stationary drive systems and bench grinders.
- Can be gang-mounted for wide face use.

#### Ordering note:

All Medium face crimped wheel brushes are supplied with metal adapters that reduce the

2" AH to 1-1/4" AH. In addition a selection of plastic reducing adapters are also included in every box. Please refer to page 9 for ANSI recommended arbor hole mounting requirements. For additional arbor hole reduction options, use adapter style K, see page 79 for information.

D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number						Opt. RPM	Max. RPM	Adapter style	
						.006	.008	.010	.012	.014	.020				

#### Carbon steel wire

6	2	1-1/8	1-1/16	13/16	1-1/4	81112	81113	81114	81115	81116P	-	3,000–4,500	6,000	C, K	1/5
7	2	1-5/16	1	7/8	1-1/4	-	-	81120	81121	81122P	-	3,000–4,500	6,000	C, K	1/5
8	2	1-1/2	1	7/8	1-1/4	-	-	81126	81127	81128P	81129	2,300–3,400	4,500	C	1/5
10	2	1-7/8	1-1/4	15/16	1-1/4	-	-	-	81133	81134	81135	1,800–2,700	3,600	C	1
12	2	2-7/8	1-1/2	15/16	1-1/4	-	-	-	81138	81139	81140	1,500–2,500	3,000	C	1

#### Stainless steel wire (INOX)

6	2	1-1/8	1-1/16	13/16	1-1/4	81157	-	81159	81160	-	-	2,400–3,900	6,000	C, K	1
8	2	1-1/2	1	7/8	1-1/4	81169	-	-	81172	81173	-	1,800–2,900	4,500	C	1
10	2	1-7/8	1-1/4	15/16	1-1/4	-	-	-	81178	-	-	1,400–2,300	3,600	C	1
12	2	2-7/8	1-3/4	1-5/16	1-1/4	-	-	-	-	81184	-	1,200–1,900	3,000	C	1



Brushes available in POP packaging are marked with a "P" in this catalogue. To order brushes in POP versions, please add a "P" to the end of the EDP number.



The box quantity of POP items is printed in "blue" accordingly.

Metric and imperial size adapters are available on pages 78-79 in styles C and K.



### Wide face

Wide face brushes are designed for medium- to heavy-duty use whether individually or gang-mounted. As with all PFERD crimped wire wheel brushes, the metal components and adapters are designed for a flush fit when gang-mounting, ensuring a consistent surface finish. Maximum productivity with long service life.

#### Advantages:

- Flexible, enabling optimal adjustment to the workpiece contours.
- Can be used with all common stationary drive systems and bench grinders.
- Can be gang-mounted for wide face use.

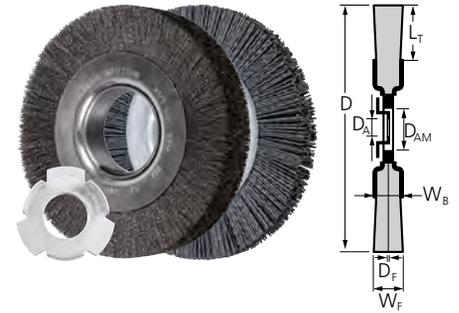
#### Ordering note:

All Wide face crimped wheel brushes are supplied with metal adapters that reduce the

2" AH to 1-1/4" AH. In addition a selection of plastic reducing adapters are also included in every box.

Please refer to page 9 for ANSI recommended arbor hole mounting requirements.

For additional arbor hole reduction options, use adapter style K, see page 79 for information.



D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number					Opt. RPM	Max. RPM	Adapter style	
						.006	.010	.012	.014	.020				

#### Carbon steel wire

6	2	1-1/8	1-1/8	1-3/32	1-1/4	81232	-	81235	81236	-	3,000-4,500	6,000	C	1
8	2	1-1/2	1-3/8	1-1/4	1-1/4	81244	-	81247	81248	81249	2,300-3,400	4,500	C	1
10	2	1-7/8	2	1-3/8	1-1/4	-	81252	81253	81254	81255	1,800-2,700	3,600	C	1
12	2	2-7/8	2-1/4	1-3/8	1-1/4	-	-	81257	81258	81259	1,500-2,500	3,000	C	1
15	2	3-1/8	2-1/2	1-3/4	1-1/4	-	-	81261	-	-	1,000-1,800	2,400	C	1

#### Stainless steel wire (INOX)

6	2	1-1/8	1-1/8	1-3/32	1-1/4	81276	-	-	81280	-	2,400-3,900	6,000	C	1
8	2	1-1/2	1-3/8	1-1/4	1-1/4	-	-	81291	-	-	1,800-2,900	4,500	C	1
10	2	1-7/8	2	1-3/8	1-1/4	-	-	81297	-	-	1,400-2,300	3,600	C	1

D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches]/Grit size and EDP number					Opt. RPM	Max. RPM	Adapter style	
						.022/320	.022/120	.035/180	.040/120	.040/80				

#### M-BRAD® nylon abrasive filament, silicon carbide SiC

6	2	1-1/8	7/8	13/16	1-1/4	83702	-	83701	83700	83699	1,500-2,500	6,000	C	1
8	2	1-1/2	1	7/8	1-1/4	83706	-	83705	83704	83703	1,200-2,000	4,500	C	1

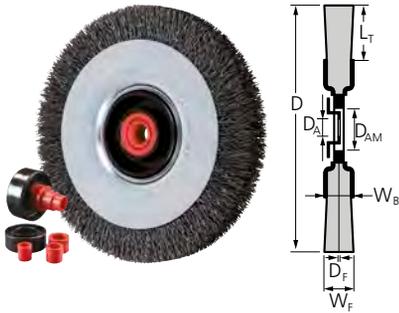
#### M-BRAD® nylon abrasive filament, ceramic oxide CO

4	5/8	7/8	3/4	13/16	1/2	-	84213	-	84211	84210	3,000-5,000	12,000	D	1
---	-----	-----	-----	-------	-----	---	-------	---	-------	-------	-------------	--------	---	---



# Unthreaded power brushes

## Crimped wheels



### EZmount® bench wheels

EZmount® crimped wire wheels eliminate mounting problems commonly found with other bench brushes. They are designed with a flat side profile that matches all mounting flanges on pedestal and bench grinders for a correct fit. Easy installation takes seconds. The telescoping bushing is self-sizing and makes full width contact to prevent the brush from falling into spindle threads.

#### Advantages:

- Flexible, enabling optimal adjustment to the workpiece contours.
- Can be used with all common stationary drive systems and bench grinders.
- Flat side profile ensures a correct fit with bench grinder flanges.

#### Ordering note:

- Please refer to page 9 for ANSI recommended arbor hole mounting requirements.
- Supplied with style E telescoping adapter.
- Please see page 78 for a complete listing of drive arbors and adapters.

D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	Adapter style	
						.014				
<b>Carbon steel wire</b>										
6	2	7/8	7/8	3/4	1, 3/4, 5/8, 1/2	81474 <b>P</b>	3,000–4,500	6,000	E	1/5
8	2	7/8	7/8	3/4	1, 3/4, 5/8	81478 <b>P</b>	2,000–3,000	4,500	E	1/5
10	2	2-1/4	7/8	3/4	1, 3/4	81480	1,500–2,500	3,600	E	1



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The box quantity of POP items is printed in "blue" accordingly.



### Drum brushes

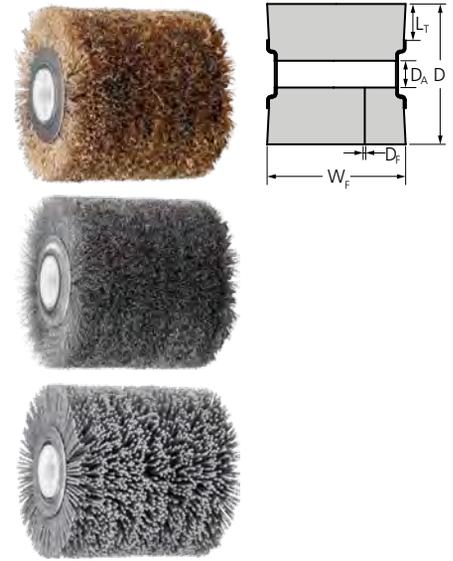
Excellent for surface structuring work on large surfaces. The high-density construction method used is designed for aggressive, heavy-duty brushing.

#### Advantages:

Can be used on all common burnishing machines due to keyed arbor hole.

#### Ordering note

For use with PFERD linear finishing machine, EDP 91217.



D [Inches]	D <sub>A</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
				.008	.010			
<b>Carbon steel wire, brass plated</b>								
4	3/4	1	4	-	81330	3,000–4,500	6,000	1
<b>Stainless steel wire (INOX)</b>								
4	3/4	1	4	81331	-	2,400–3,900	6,000	1

D [Inches]	D <sub>A</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches]/Grit size and EDP number		Opt. RPM	Max. RPM	
				.040/80				
<b>M-BRAD® nylon abrasive filament, silicon carbide SiC</b>								
4	3/4	1	4	81332		2,400–3,900	6,000	1



For detailed information and ordering data on other drum tools and roller sets, please refer to catalogue section 4.



For detailed information and ordering data on PFERD's linear finishing machine, please refer to catalogue section 9.



# Unthreaded power brushes

## Knot wheels



### Standard twist, single row standard flag

This brush features knots that are twisted approximately 75% of the trim length. The loosely-twisted knots cover a larger surface area and are ideal for heavy-duty cleaning and surface conditioning on uneven surfaces. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

- Loosely-twisted knots cover a large surface area.
- Good balance between aggressiveness and flexibility.

#### Ordering note:

All wheels with 1-1/4" arbor holes include 1/4" x 1/8" keyways. All wheels with 2" arbor hole include 1/2" x 1/4" keyways. Please refer to page 9 for ANSI recommended arbor hole mounting requirements. Please see page 78 for a complete listing of drive arbors and adapters.

D [Inches]	D <sub>AM</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number					Opt. RPM	Max. RPM	Adapter style		
							.012	.014	.016	.020	.023					
<b>Carbon steel wire</b>																
3	1/2	18	5/8	1/2	7/16	3/8	81650	81651	-	81652	-	12,500–18,700	25,000	F	10	
3-1/4	1/2	20	3/4	1/2	7/16	3/8	-	81654	-	-	-	12,500–18,700	25,000	F	10	
4	1/2	22	3/4	5/8	7/16	3/8	81656	81657P	-	81658	-	10,000–15,000	20,000	F	10/5	
	5/8	22	3/4	5/8	7/16	1/2	-	81660	-	-	-	10,000–15,000	20,000	F	10	
6	5/8	32	1-1/8	5/8	9/16	1/2	81665	81666P	81667P	-	81668	4,500–6,500	9,000	F	10/5	
7	5/8	32	1-5/8	5/8	9/16	-	-	81694	-	-	-	4,500–6,500	9,000	-	2	
8	5/8	42	1-5/8	5/8	5/8	-	81702	81703	81704P	-	81706	3,500–5,000	7,000	-	2/5	
	3/4	42	1-5/8	5/8	5/8	-	-	81698	-	-	-	3,500–5,000	7,000	-	2	
	1-1/4	42	1-1/8	5/8	5/8	-	-	81708	-	-	81711	3,500–5,000	7,000	H	2	
10	3/4	50	2-1/8	3/4	5/8	-	-	81723	-	-	-	2,500–4,000	5,400	-	2	
	1-1/4	50	2-1/8	3/4	5/8	-	81727	81728	81729	-	-	2,500–4,000	5,400	H	2	
12	2	60	2	3/4	5/8	-	-	-	-	-	81766	2,000–3,000	4,500	-	2	
15	1-1/4	60	3-1/2	7/8	5/8	-	-	-	81773	-	-	1,500–2,500	3,600	-	2	
<b>Stainless steel wire (INOX)</b>																
3	1/2	18	3/4	7/16	7/16	3/8	81800	81801	-	-	-	10,000–16,000	25,000	F	10	
4	1/2	22	3/4	5/8	7/16	3/8	81806	81807P	-	81808	-	8,000–13,000	20,000	F	10/5	
6	5/8	32	1-1/8	5/8	9/16	1/2	-	-	81816	-	-	3,500–5,500	9,000	F	10	



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### Standard twist, single row, long flag

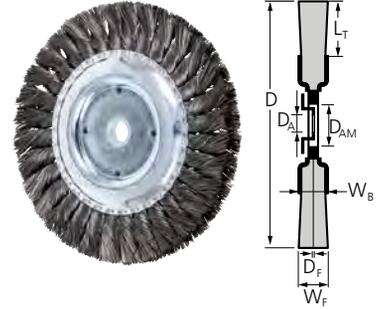
This brush features extended knot flag length, providing a better surface finish than conventional standard twist wheels on uneven surfaces.

**Advantages:**

- Loosely-twisted knots cover a large surface area.
- Good balance between aggressiveness and flexibility.

**Ordering note:**

- All wheels with 1-1/4" arbor holes include 1/4"x 1/8" keyways.
- Please refer to page 9 for ANSI recommended arbor hole mounting requirements.
- Please see page 78 for a complete listing of drive arbors and adapters.



D [Inches]	D <sub>AM</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	Adapter style	
							.014	.020						

**Carbon steel wire**

6	5/8	32	1-1/8	5/8	9/16	1/2	81881	-			4,500–6,500	9,000	F	10
8	5/8	42	1-5/8	5/8	5/8	-	81889	-			3,500–5,000	7,000	-	2
12	1-1/4	60	2	3/4	5/8	-	-	81930			2,000–3,500	4,500	H	2

### Standard twist, double row, long flag

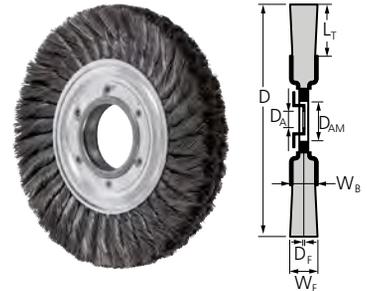
This brush features extended knot flag length, providing a better surface finish than conventional standard twist wheels on uneven surfaces.

**Advantages:**

- Double row for heavy deburring with large contact area.
- Good balance between aggressiveness and flexibility.

**Ordering note:**

- Please refer to page 9 for ANSI recommended arbor hole mounting requirements.
- Please see page 78 for a complete listing of drive arbors and adapters.



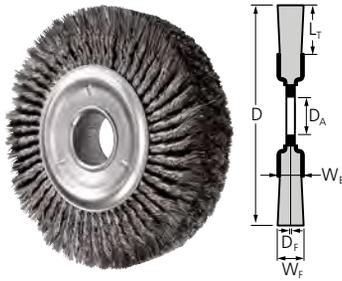
D [Inches]	D <sub>AM</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	Adapter style	
							.012	.014	.016	.023				

**Carbon steel wire**

4	5/8	44	3/4	1	1-1/8	1/2	-	82032	-	-	6,000–12,000	20,000	D	5
6	2	60	1-1/8	1	1-1/8	-	82033	-	82034	-	4,000–6,000	7,800	C	5
8	2	72	1-5/8	1-1/8	1-1/8	-	82035	-	82036	82037	3,000–4,500	6,000	C	1
10	2	100	2-1/8	1-1/4	1-1/4	-	82038	-	82039	82040	2,500–3,500	4,800	C	1
12	2	120	2	1-5/8	1-1/4	-	82041	-	82042	82043	2,000–3,000	4,000	C	1

# Unthreaded power brushes

## Knot wheels



### Pipe cleaning, standard twist

Long-lasting, aggressive multi-section wheel is easy to install. Ideal for cleaning drill pipe OD.

#### Advantages:

Loosely-twisted knots cover a large surface area.  
Good balance between aggressiveness, flexibility, and productivity.  
Long service life.

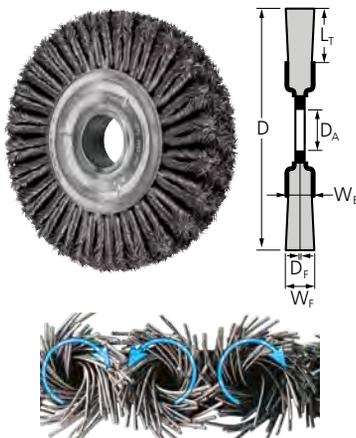
#### Ordering note:

Available in single-section or multi-section versions.  
Please refer to page 9 for ANSI recommended arbor hole mounting requirements.

D [Inches]	D <sub>A</sub> [Inches]	Knots [pcs.]	No. rows [pcs]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	Incl. keyway [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	Adapter style	
								.020				

#### Carbon steel wire

10	2	50	1	2-1/4	3/4	3/4	1/2 x 1/4	82083	2,500–4,000	5,400	C	1
		200	4	2-1/4	2-1/8	2	-	82084	2,500–3,500	4,800	C	1



### Pipe cleaning, multisection full cable COMBITWIST®

Long-lasting, aggressive multi-section wheel is easy to install. Ideal for cleaning drill pipe OD.

#### Advantages:

Very aggressive brushing with good surface finish  
COMBITWIST® knot construction results in improved balance, reduced vibration, extended service life and increased aggressiveness.

#### Ordering note:

Please refer to page 9 for ANSI recommended arbor hole mounting requirements.

#### PFERDVALUE®:



D [Inches]	D <sub>A</sub> [Inches]	Knots [pcs.]	No. rows [pcs]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	Adapter style	
							.020				

#### Carbon steel wire

10	2	200	4	2-1/4	2-1/8	2	82094	2,500–3,500	4,800	C	1
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### Full cable twist, single row

These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

Tightly-twisted knots result in very aggressive brushing action.

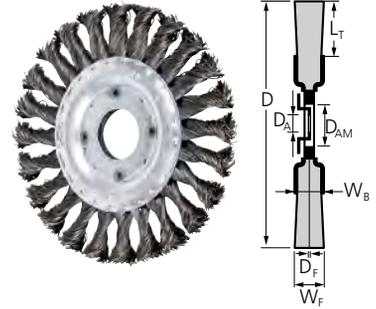
#### Recommendations for use

When mounting on bench grinders, use with adapter style F.

#### Ordering note:

Please refer to page 9 for ANSI recommended arbor hole mounting requirements.

Please see page 78 for a complete listing of drive arbors and adapters.



D [Inches]	D <sub>AM</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	Adapter style	
							.020	.023				

#### Carbon steel wire

4	1/2	22	3/4	3/8	7/16	3/8	82101	-	10,000–15,000	20,000	F	10
4-1/2	7/8	24	13/16	1/2	7/16	-	82452	-	6,000–9,000	12,500	F	10
6	5/8	30	1-1/4	1/2	9/16	1/2	-	82113	5,000–7,500	10,000	F	10
8	5/8	42	1-5/8	3/8	5/8	-	-	82118	3,500–5,000	7,000	-	2
10	3/4	36	2-5/8	3/8	5/8	-	-	82120	2,500–4,000	5,400	-	2

### Full cable twist, single row COMBITWIST®

These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

Tightly-twisted knots result in very aggressive brushing action.

COMBITWIST® knot construction results in improved balance, reduced vibration, extended service life and increased aggressiveness.

#### Recommendation for use:

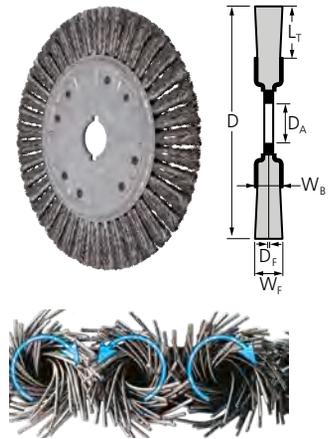
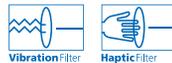
Designed for use on custom-built or industrial deburring/brushing machines. Ideal for gear deburring.

#### Ordering note:

Please refer to page 9 for ANSI recommended arbor hole mounting requirements.

Please see page 78 for a complete listing of drive arbors and adapters.

#### PFERDVALUE®:



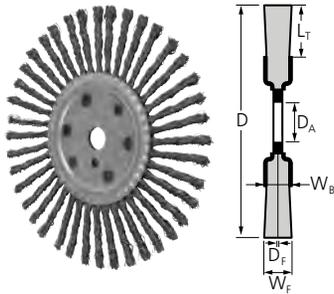
D [Inches]	D <sub>A</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	Incl. keyway [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	Adapter style	
							.020					

#### Carbon steel wire

14	2	80	2-1/4	3/4	3/4	1/2 x 1/4	82019		700–3,000	3,600	C	1
15	2	80	2-5/8	3/4	3/4	1/2 x 1/4	82020		700–3,000	3,600	C	1

# Unthreaded power brushes

## Knot wheels



### Expansion joint cleaning

Designed for removing expansion joint fillers, and cleaning expansion joints on concrete surfaces.

#### Advantages:

- Long and narrow face width for extended service life.
- Narrow face width for optimal penetration.

#### Recommendation for use:

Designed to fit on popular hand-held concrete saws.

#### Ordering note:

Features 3/8" drive pin hole.

#### Safety note:

Please ensure that maximum RPM of saw is lower than maximum RPM of the brush.

D [Inches]	D <sub>A</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
						.028	.035			

#### Carbon steel wire

12	1	40	3	3/8	1/2	82077	82078	2,000–3,000	6,000	2
	20 mm	40	3	3/8	1/2	82085	82086	2,000–3,000	6,000	2

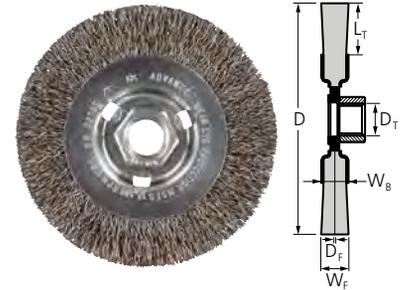


### Crimped wheel for angle grinders

Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.
- Designed for use on 4-1/2" and 5" right angle grinders.



D [Inches]	D <sub>T</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number .014	Opt. RPM	Max. RPM	
<b>Carbon steel wire</b>							
4	5/8-11	11/16	1/2	82195 <b>P</b>	6,000–12,500	12,500	5/5
4-1/2	5/8-11	15/16	1/2	80024	6,000–12,500	12,500	5
5	5/8-11	1-1/8	1/2	80036	6,000–12,500	12,500	5
<b>Stainless steel wire (INOX)</b>							
4	5/8-11	11/16	1/2	82316	6,000–12,500	12,500	5
4-1/2	5/8-11	15/16	1/2	80354	6,000–12,500	12,500	5
5	5/8-11	1-1/8	1/2	80366	6,000–12,500	12,500	5
<b>Brass wire</b>							
4	5/8-11	11/16	1/2	82367	6,000–12,500	12,500	5

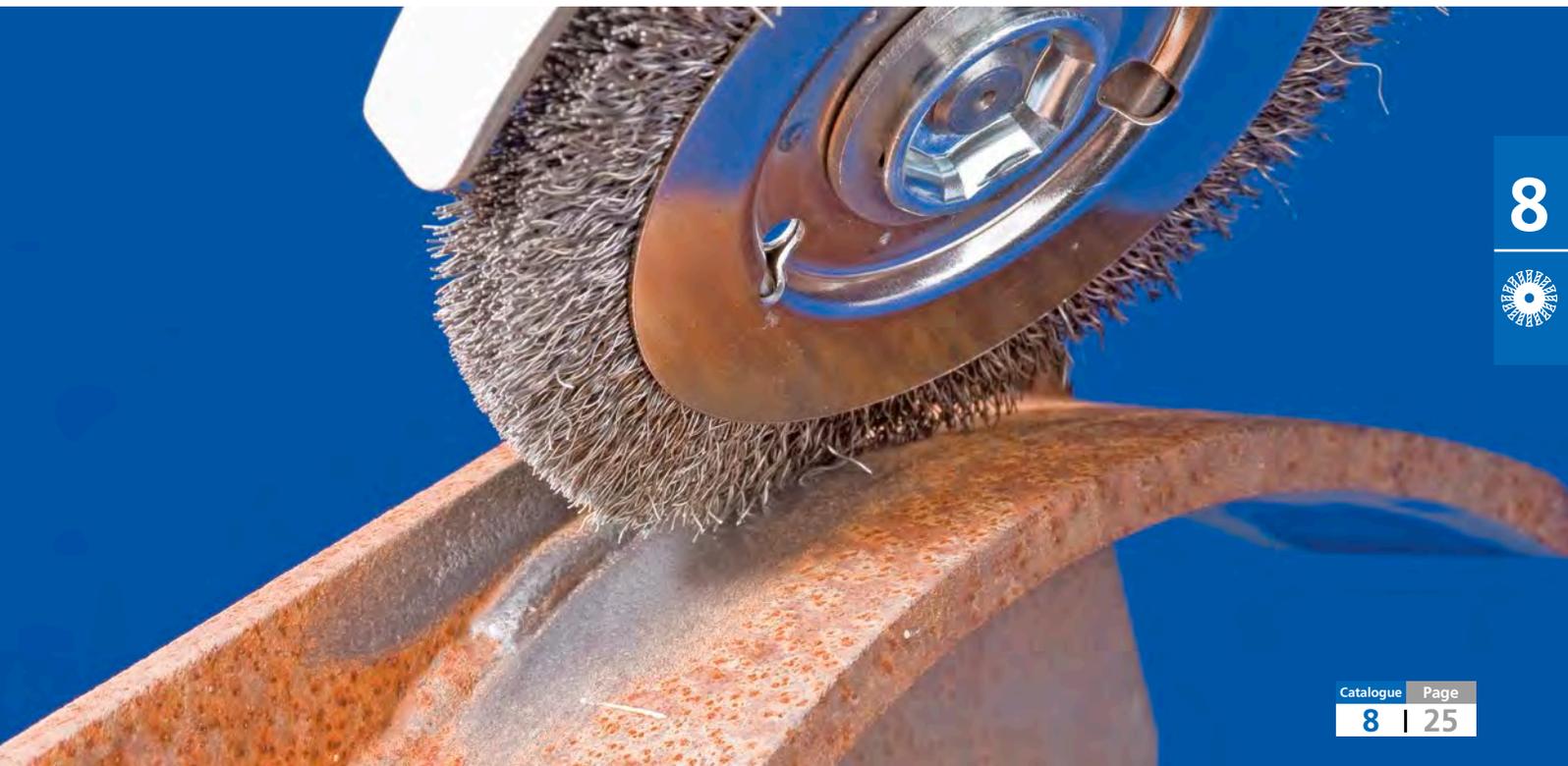


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Thread adapters to adapt 5/8-11 threaded wheels to other common grinder spindles are available, please see page 79 for information.

The box quantity of POP items is printed in "blue" accordingly.



# Threaded power brushes

## Knot wheels



### Standard twist

This brush features knots that are twisted approximately 75% of the trim length. The loosely-twisted knots cover a larger surface area and are ideal for heavy-duty cleaning and surface conditioning on uneven surfaces. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

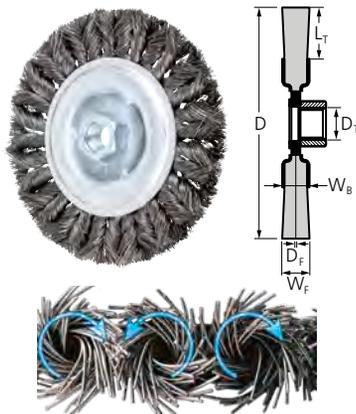
#### Advantages:

Loosely-twisted knots cover a large surface area.  
Good balance between aggressiveness and flexibility.

#### Recommendations for use:

For use on right angle grinders.

D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	
					.014	.016	.020	.023			
<b>Carbon steel wire</b>											
4	5/8-11	22	7/8	5/8	82153 <b>P</b>	-	82154	-	10,000–15,000	20,000	10/5
5	5/8-11	24	5/8	5/8	-	-	82470	-	7,500–15,000	15,000	10
6	5/8-11	32	1-1/8	5/8	82471	82472	-	82473	4,500–9,000	9,000	10
<b>Stainless steel wire (INOX)</b>											
4	5/8-11	22	7/8	5/8	82283 <b>P</b>	-	82284	-	8,000–15,000	20,000	10/5
5	5/8-11	24	5/8	5/8	-	-	82596	-	6,000–15,000	15,000	10
6	5/8-11	32	1-1/8	5/8	-	82597	-	82598	3,500–9,000	9,000	10
<b>Brass wire</b>											
4	5/8-11	22	7/8	5/8	82366	-	-	-	8,000–15,000	20,000	10



### Standard twist, COMBITWIST®

This brush features knots that are twisted approximately 75% of the trim length. The loosely-twisted knots cover a larger surface area and are ideal for heavy-duty cleaning and surface conditioning on uneven surfaces. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

Loosely-twisted knots cover a large surface area.  
Good balance between aggressiveness and flexibility.  
COMBITWIST® knot construction results in improved balance, reduced vibration, and extended service life.

#### Recommendations for use:

For use on right angle grinders.

#### PFERDVALUE®:



D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	
					.014	.016	.020	.023			
<b>Carbon steel wire</b>											
4	5/8-11	22	7/8	5/8	82383	-	82384	-	10,000–15,000	20,000	10
5	5/8-11	24	5/8	5/8	-	-	82680	-	7,500–15,000	15,000	10
6	5/8-11	32	1-1/8	5/8	82681	82682	-	82683	4,500–9,000	9,000	10
<b>Stainless steel wire (INOX)</b>											
4	5/8-11	22	7/8	5/8	82412	-	82413	-	8,000–15,000	20,000	10
5	5/8-11	24	5/8	5/8	-	-	82749	-	6,000–15,000	15,000	10
6	5/8-11	32	1-1/8	5/8	-	82752	-	82753	3,500–9,000	9,000	10



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### Full cable twist

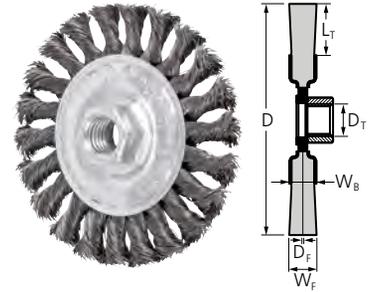
These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

Tightly-twisted knots result in very aggressive brushing action.

#### Recommendations for use:

For use on right angle grinders.



D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	
					.014	.016	.020	.023			
<b>Carbon steel wire</b>											
4	5/8-11	22	3/4	1/2	82165P	-	82166P	-	10,000–15,000	20,000	10/5
	1/2-13	22	3/4	1/2	-	-	82168	-	10,000–15,000	20,000	10
	3/8-24	22	3/4	1/2	-	-	82170	-	10,000–15,000	20,000	10
5	5/8-11	24	3/4	1/2	-	-	-	82474P	7,500–1,5000	15,000	10/5
6	5/8-11	24	1-1/4	1/2	-	-	-	82477P	5,000–10,000	10,000	10/5
		30	1-1/4	1/2	-	82476P	-	82478P	5,000–10,000	10,000	10/5
<b>Stainless steel wire (INOX)</b>											
4	5/8-11	22	3/4	1/2	82295P	-	82296	-	8,000–15,000	20,000	10/5
5	5/8-11	24	3/4	1/2	-	-	-	82599	6,000–15,000	15,000	10
6	5/8-11	24	1-1/4	1/2	-	-	-	82602	4,000–10,000	10,000	10
		30	1-1/4	1/2	-	-	-	82603	4,000–10,000	10,000	10

### Full cable twist, COMBITWIST®

These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

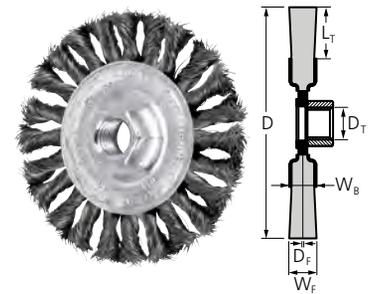
#### Advantages:

Tightly-twisted knots result in very aggressive brushing action. COMBITWIST® knot construction results in improved balance, reduced vibration, extended service life and increased aggressiveness.

#### Recommendations for use:

For use on right angle grinders.

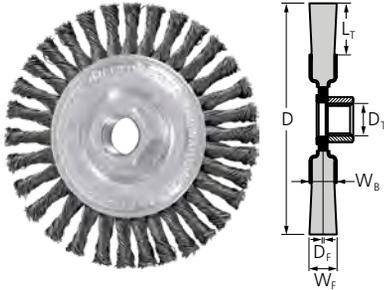
#### PFERDVALUE®:



D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number			Opt. RPM	Max. RPM		
					.014	.020	.023				
<b>Carbon steel wire</b>											
4	5/8-11	22	3/4	1/2	82387	82388	-	10,000–15,000	20,000	10	
5	5/8-11	24	3/4	1/2	-	-	82684	7,500–15,000	15,000	10	
6	5/8-11	30	1-1/4	1/2	-	-	82688	5,000–10,000	10,000	10	
<b>Stainless steel wire (INOX)</b>											
4	5/8-11	22	3/4	1/2	82416	82417	-	8,000–15,000	20,000	10	

# Threaded power brushes

## Knot wheels



### Stringer bead twist

Most aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction.

#### Advantages:

Narrow face width enables optimal access to hard-to-reach areas such as root weld seams.

#### Recommendations for use:

For use on right angle grinders.

D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number .020	Opt. RPM	Max. RPM		
<b>Carbon steel wire</b>									
4	5/8-11	32	3/4	3/16	82186P	10,000–15,000	20,000	10/5	
	1/2-13	32	3/4	3/16	82187P	10,000–15,000	20,000	10/5	
	3/8-24	32	3/4	3/16	82188	10,000–15,000	20,000	10	
	M10x1.25	32	3/4	3/16	82190P	10,000–15,000	20,000	10/5	
	1/2-3/8	32	3/4	3/16	82193	10,000–15,000	20,000	10	
4-1/2	5/8-11	32	1	3/16	82194P	10,000–15,000	20,000	10/5	
4-7/8	5/8-11	38	3/4	3/16	82479	7,500–15,000	15,000	10	
		48	3/4	3/16	82483P	7,500–15,000	15,000	10/5	
6	5/8-11	40	1-1/8	3/16	82486	6,000–12,500	12,500	10	
		48	1-1/8	3/16	82487P	6,000–12,500	12,500	10/5	
		56	1-1/8	3/16	82488P	6,000–12,500	12,500	10/5	
		64	1-1/8	1/8	82489	6,000–12,500	12,500	10	
6-7/8	5/8-11	56	1-1/8	3/16	82494	4,500–9,000	9,000	10	
		76	1-1/8	3/16	82495	4,500–9,000	9,000	10	
<b>Stainless steel wire (INOX)</b>									
4	5/8-11	32	3/4	3/16	82307P	8,000–15,000	20,000	10/5	
	3/8-24	32	3/4	3/16	82309	8,000–15,000	20,000	10	
4-1/2	5/8-11	32	1	3/16	82315	8,000–15,000	20,000	10	
4-7/8	5/8-11	38	3/4	3/16	82604	6,000–15,000	15,000	10	
		48	3/4	3/16	82608P	6,000–15,000	15,000	10/5	
6	5/8-11	40	1-1/8	3/16	82611	5,000–12,500	12,500	10	
		48	1-1/8	3/16	82612P	5,000–12,500	12,500	10/5	
		56	1-1/8	3/16	82613	5,000–12,500	12,500	10	
6-7/8	5/8-11	56	1-1/8	3/16	82619	3,500–9,000	9,000	10	
		76	1-1/8	3/16	82728	3,500–9,000	9,000	10	



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Thread adapters to adapt 5/8-11 threaded wheels to other common grinder spindles are available, please see page 79 for information.



For products specially suited to pipeline construction, see the brochure "PFERD tools for pipeline construction".

The box quantity of POP items is printed in "blue" accordingly.

### Stringer bead twist, COMBITWIST®

Most aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction.

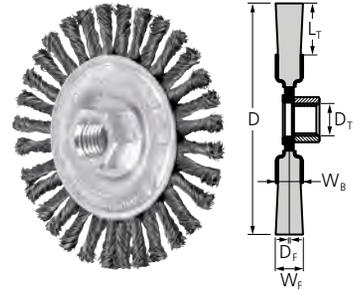
#### Advantages:

Narrow face width enables optimal access to hard-to-reach areas such as root weld seams. COMBITWIST® knot construction results in improved balance, reduced vibration, extended service life and increased aggressiveness.

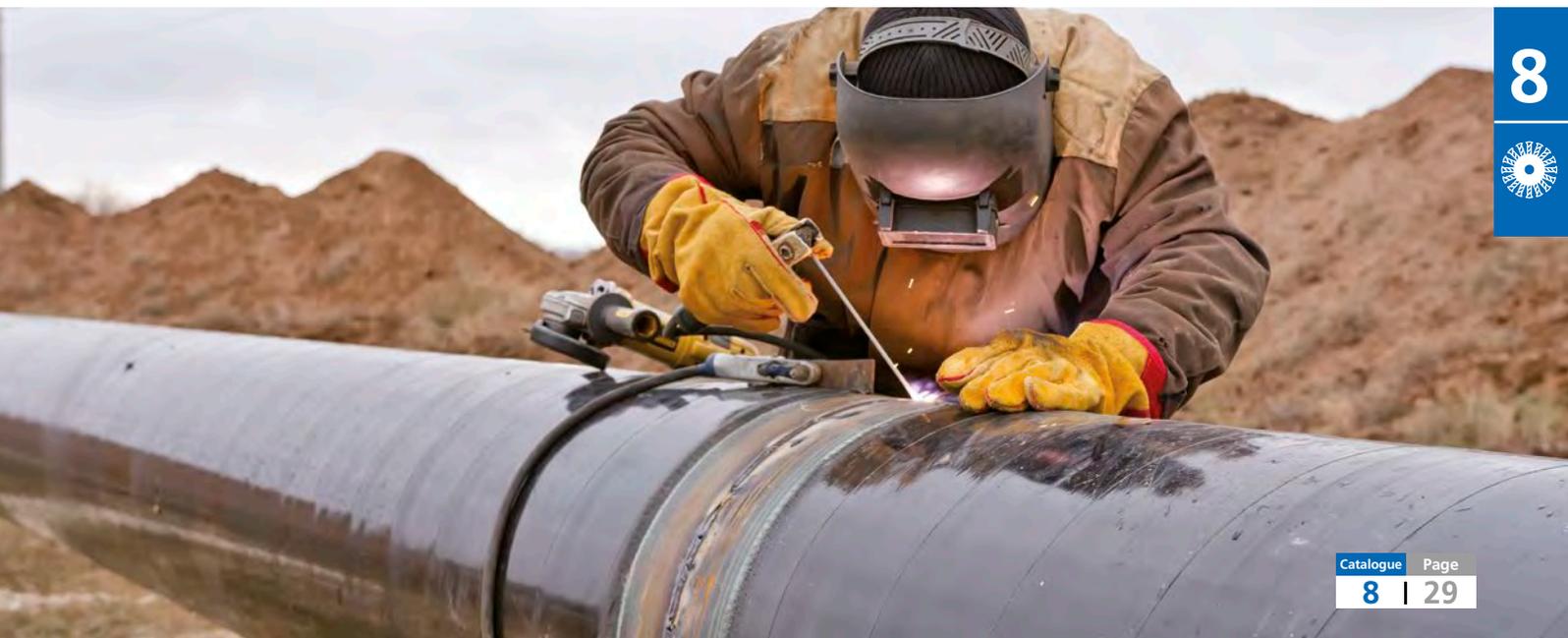
#### Recommendations for use:

For use on right angle grinders.

#### PFERDVALUE®:

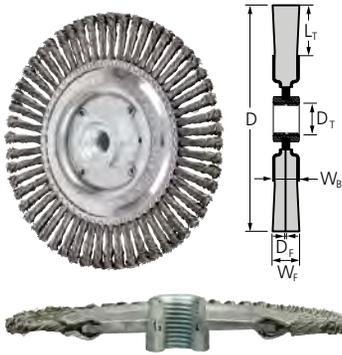


D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM		
					.020				
<b>Carbon steel wire</b>									
4	5/8-11	32	3/4	3/16	82391	10,000–15,000	20,000	10	
4-1/2	5/8-11	32	1	3/16	82392P	10,000–15,000	20,000	10/5	
4-7/8	5/8-11	48	3/4	3/16	82689	7,500–15,000	15,000	10	
6	5/8-11	48	1-1/8	3/16	82693	6,000–12,500	12,500	10	
		56	1-1/8	3/16	82694	6,000–12,500	12,500	10	
6-7/8	5/8-11	56	1-1/8	3/16	82700	4,500–9,000	9,000	10	
		76	1-1/8	3/16	82701	4,500–9,000	9,000	10	
<b>Stainless steel wire (INOX)</b>									
4	5/8-11	32	3/4	3/16	82420	8,000–15,000	20,000	10	
4-1/2	5/8-11	32	1	3/16	82421	8,000–15,000	20,000	10	
4-7/8	5/8-11	48	3/4	3/16	82759	7,000–15,000	15,000	10	
6	5/8-11	48	1-1/8	3/16	82763	5,000–12,500	12,500	10	
		56	1-1/8	3/16	82764	5,000–12,500	12,500	10	



# Threaded power brushes

## Knot wheels



### TWIN-NUT, stringer bead twist

Most aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction. Patented nut design (US patent no. 8425282) prevents brush from interfering with guard.

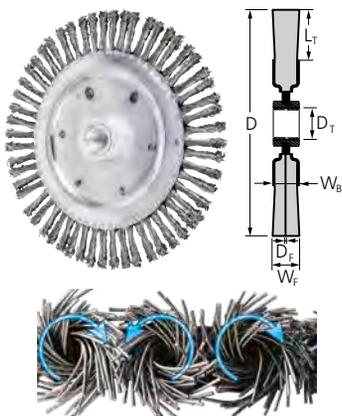
#### Advantages:

Narrow face width enables optimal access to hard-to-reach areas such as root weld seams. TWIN-NUT reversible mounting greatly extends performance and service life.

#### Recommendations for use:

For use on right angle grinders.

D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM		
					.020				
<b>Carbon steel wire</b>									
6	5/8-11	48	1-1/8	3/16	88028	6,000–12,500	12,500	5	
		56	1-1/8	3/16	88029	6,000–12,500	12,500	5	
6-7/8	5/8-11	56	1-1/8	3/16	88032	4,500–9,000	9,000	5	
<b>Stainless steel wire (INOX)</b>									
All TWIN-NUT INOX brushes are degreased									
6	5/8-11	48	1-1/8	3/16	88041	5,000–12,500	12,500	5	
6-7/8	5/8-11	56	1-1/8	3/16	88044	3,500–9,000	9,000	5	



### TWIN-NUT, stringer bead twist COMBITWIST®

Most aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction. Patented nut design prevents brush from interfering with guard.

#### Advantages:

Narrow face width enables optimal access to hard-to-reach areas such as root weld seams. TWIN-NUT reversible mounting greatly extends performance and service life. COMBITWIST® knot construction results in improved balance, reduced vibration, and extended service life.

#### Recommendations for use:

For use on right angle grinders.

#### PFERDVALUE®:



D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM		
					.020				
<b>Carbon steel wire</b>									
4-7/8	5/8-11	48	3/4	3/16	88049	5,000–12,500	12,500	5	
6	5/8-11	56	1-1/8	3/16	88050	6,000–12,500	12,500	5	
6-7/8	5/8-11	56	1-1/8	3/16	88052	4,500–9,000	9,000	5	
<b>Stainless steel wire (INOX)</b>									
All TWIN-NUT INOX brushes are degreased									
6	5/8-11	56	1-1/8	3/16	88042	5,000–12,500	12,500	5	

### Stringer bead twist, ECAP® encapsulated

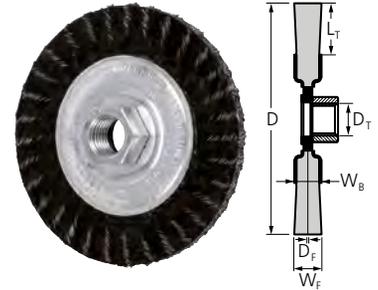
Extremely aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction.

#### Advantages:

Narrow face width enables optimal access to hard-to-reach areas such as root weld seams. ECAP® elastomer eliminates flare for precision control of brush contact area. Extremely aggressive brushing. Encapsulation prevents long wire breakage, contributing to workplace safety.

#### Recommendations for use:

For use on right angle grinders. E4 is good for higher pressure applications. Black colour. E5 is for super-aggressive, tough cleaning, for most severe applications. Blue colour.



D [Inches]	D <sub>T</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	ECAP® grade	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
					.014	.020			
<b>Carbon steel wire (crimped)</b>									
6	5/8-11	1-1/16	3/16	E4	83507	-	4,500–9,000	9,000	10
7	5/8-11	1-9/16	3/16	E4	83509	-	4,500–9,000	9,000	10
				E5	83517	-	4,500–9,000	9,000	10
<b>Carbon steel wire (knot)</b>									
4	5/8-11	7/8	3/16	E4	-	83511	10,000–15,000	20,000	10
6-7/8	5/8-11	1-9/16	3/16	E4	-	83513	4,500–9,000	9,000	10

### J-BEVEL, stringer bead twist, ECAP® encapsulated

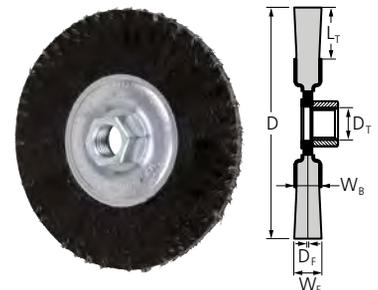
Extremely aggressive brushing action, designed for heavy-duty brushing on welds created by automatic welding equipment.

#### Advantages:

Narrow face width enables optimal access to hard-to-reach areas such as root weld seams. ECAP® elastomer eliminates flare for precision control of brush contact area. Extremely aggressive brushing. Encapsulation prevents long wire breakage, contributing to workplace safety.

#### Recommendations for use:

For use on right angle grinders. E4 is good for higher pressure applications. Black colour.



D [Inches]	D <sub>T</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	ECAP® grade	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
					.014				
5	5/8-11	1-1/4	3/16	E4	83515		7,500–15,000	15,000	5



Thread adapters to adapt 5/8-11 threaded wheels to other common grinder spindles are available, please see page 79 for information.



For products specially suited to pipeline construction, see the brochure "PFERD tools for pipeline construction".

Wire is bonded in a synthetic elastomer material which firmly supports the wire filaments, providing precisely controlled brush face, longer brush life and very aggressive removal rates. Limited flexibility. ECAP® brushes are available in three hardness grades:



**E3** is aggressive enough for most applications. Best grade for general use. Green colour.



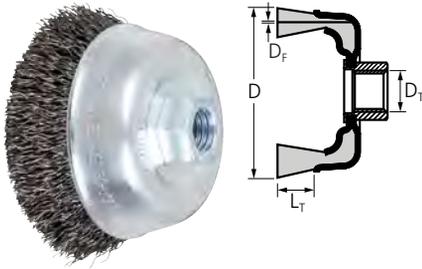
**E4** is good for higher pressure applications. Black colour.



**E5** is for super-aggressive, tough cleaning, for most severe applications. Blue colour.

# Threaded power brushes

## Crimped cup brushes



### External nut

Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.

#### Recommendations for use:

For use on right angle grinders.

D [Inches]	D <sub>T</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
			.014	.020			
<b>Carbon steel wire</b>							
2-3/4	5/8-11	7/8	82243P	-	7,000–14,000	14,000	5/5
	M10x1.50	7/8	82246P	-	7,000–14,000	14,000	5
	M10x1.25	7/8	82247P	-	7,000–14,000	14,000	5
3-1/2	5/8-11	7/8	82249	82255P	6,000–12,500	12,500	1/5
4	5/8-11	1-1/4	82510P	82511P	4,500–9,000	9,000	1/2
5	5/8-11	1-1/4	82514	82515P	4,000–8,000	8,000	1/2
6	5/8-11	1-3/8	82516P	82517P	3,000–6,000	6,000	1/2

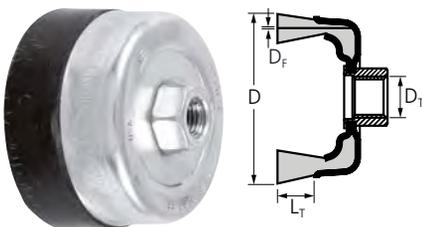
### Stainless steel wire (INOX)

2-3/4	5/8-11	7/8	82353P	-	5,500–14,000	14,000	5/5
3-1/2	5/8-11	7/8	82359	82365	5,000–12,500	12,500	1
4	5/8-11	1-1/4	-	82635	3,500–9,000	9,000	1
6	5/8-11	1-3/8	-	82638	2,000–6,000	6,000	1

D [Inches]	D <sub>T</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches]/Grit size and EDP number		Opt. RPM	Max. RPM	
			.040/120	.040/80			

### M-BRAD® nylon abrasive filament, silicon carbide SiC

3-1/2	5/8-11	7/8	83810	-	3,000–5,000	12,000	1
4	5/8-11	1	83814	83813	1,500–2,500	6,000	1
6	5/8-11	1-1/4	83822	83821	1,500–2,000	5,000	1



### External nut, ECAP® encapsulated

Extremely aggressive brushing action, best suited for brushing large surfaces. Ideal for removing weld slag and scale in pipeline applications.

#### Advantages:

ECAP® elastomer eliminates flare for precision control of brush contact area.  
Extremely aggressive brushing.  
Encapsulation prevents long wire breakage, contributing to workplace safety.

#### Recommendations for use:

For use on right angle grinders.  
E4 is good for higher pressure applications.  
Black colour.

D [Inches]	D <sub>T</sub> [Inches]	L <sub>T</sub> [Inches]	ECAP® grade	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
				.020				
<b>Carbon steel wire</b>								
4	5/8-11	1-1/8	E4	83570		3,500–7,000	7,000	1
6	5/8-11	1-1/4	E4	83571		3,000–6,000	6,000	1

### External nut, single row, standard twist

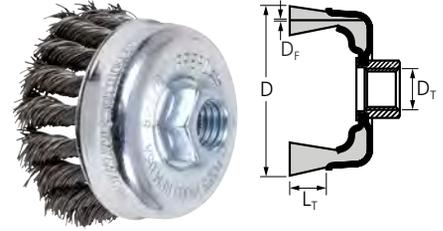
This brush features knots that are twisted approximately 75% of the trim length. The loosely-twisted knots cover a larger surface area and are ideal for heavy-duty cleaning and surface conditioning on uneven surfaces. For weld cleaning, weld spatter removal, cleaning, deburring, and flash removal.

#### Advantages:

- Loosely-twisted knots cover a large surface area.
- Good balance between aggressiveness and flexibility.

#### Recommendations for use:

For use on right angle grinders.



D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	
				.014	.020	.023	.035			

#### Carbon steel wire

2-3/4	5/8-11	18	7/8	82219P	82220P	-	-	7,000-14,000	14,000	5/5
	3/8-24	18	7/8	82223	82224	-	-	7,000-14,000	14,000	5
	M10x1.50	18	7/8	-	82226P	-	-	7,000-14,000	14,000	5
	M10x1.25	18	7/8	-	82228P	-	-	7,000-14,000	14,000	5/5
3-1/2	5/8-11	20	7/8	82231P	82232P	-	-	6,000-12,500	12,500	1/2
	3/8-24	20	7/8	-	82236	-	-	6,000-12,500	12,500	1
4	5/8-11	24	1-1/4	82522P	-	82523P	82524	4,500-9,000	9,000	1/2
5	5/8-11	30	1-3/8	-	-	82529	-	3,500-7,000	7,000	1
6	5/8-11	36	1-1/2	82530	-	82531	82532	3,000-6,000	6,000	1

#### Stainless steel wire (INOX)

2-3/4	5/8-11	18	7/8	82329P	82330P	-	-	5,500-14,000	14,000	5/5
	3/8-24	18	7/8	-	82334	-	-	5,500-14,000	14,000	5
3-1/2	5/8-11	20	7/8	-	82342P	-	-	5,000-12,500	12,500	1/2
4	5/8-11	24	1-1/4	82647	-	82648	-	3,500-9,000	9,000	1
6	5/8-11	36	1-1/2	82653	-	82654	-	2,000-6,000	6,000	1

#### Brass wire

3-1/2	5/8-11	20	7/8	-	82368	-	-	5,000-12,500	12,500	1
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The box quantity of POP items is printed in "blue" accordingly.

# Threaded power brushes

## Knot cup brushes



### External nut, standard twist COMBITWIST®

This brush features knots that are twisted approximately 75% of the trim length. The loosely-twisted knots cover a larger surface area and are ideal for heavy-duty cleaning and surface conditioning on uneven surfaces. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

Loosely-twisted knots cover a large surface area.  
 Good balance between aggressiveness and flexibility.  
 COMBITWIST® knot construction results in improved balance, reduced vibration, and extended service life.

#### Recommendations for use

Choose double-row for the most severe applications.  
 For use on right angle grinders.

#### PFERDVALUE®:



D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	
				.014	.020	.023	.035			

#### Carbon steel wire, single row

2-3/4	5/8-11	18	7/8	82750P	82751P	-	-	7,000–14,000	14,000	5/5
3-1/2	5/8-11	20	7/8	82401	82402	-	-	6,000–12,500	12,500	1
4	5/8-11	24	1-1/4	82716	-	82717	-	4,500–9,000	9,000	1
5	5/8-11	30	1-3/8	-	-	82723	-	3,500–7,000	7,000	1
6	5/8-11	36	1-1/2	-	-	82725	-	3,000–6,000	6,000	1

#### Carbon steel wire, double row

4	5/8-11	48	1-3/8	-	-	82553	-	3,500–7,000	7,000	1
6	5/8-11	66	1-1/2	-	-	82557	82558	3,000–6,000	6,000	1

#### Stainless steel wire (INOX), single row

2-3/4	5/8-11	18	7/8	82855	82856	-	-	5,500–14,000	14,000	5
3-1/2	5/8-11	20	7/8	-	82431	-	-	4,000–9,000	12,500	5
4	5/8-11	24	1-1/4	82789	-	82790	-	3,500–9,000	9,000	5

#### Stainless steel wire (INOX), double row

4	5/8-11	48	1-3/8	-	82657	-	-	2,500–7,000	7,000	1
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Brushes available in POP packaging are marked with a "P" in this catalogue. To order brushes in POP versions, please add a "P" to the end of the EDP number.

The box quantity of POP items is printed in "blue" accordingly.



### Internal nut, single row, standard twist

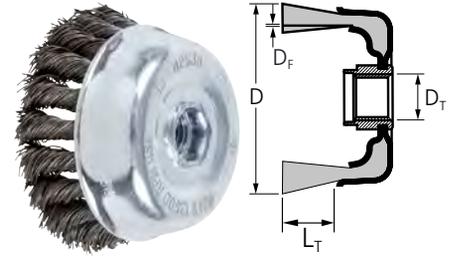
This brush features knots that are twisted approximately 75% of the trim length. The loosely-twisted knots cover a larger surface area and are ideal for heavy-duty cleaning and surface conditioning on uneven surfaces. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

**Advantages:**

- Loosely-twisted knots cover a large surface area.
- Good balance between aggressiveness and flexibility.
- Internal nut results in reduced operator fatigue and improved control.

**Recommendations for use:**

For use on right angle grinders.



D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number			Opt. RPM	Max. RPM	
				.014	.020	.023			
<b>Carbon steel wire</b>									
3-1/2	5/8-11	20	7/8	-	82538	-	6,000-12,500	12,500	1
4	5/8-11	24	1-1/2	82539	-	82540	3,500-7,000	7,000	1
6	5/8-11	36	1-5/8	82545P	-	82546P	3,000-6,000	6,000	1/2

### Internal nut, single row, full cable twist

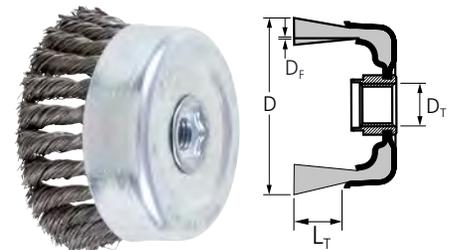
These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

**Advantages:**

- Tightly-twisted knots result in very aggressive brushing action.
- Internal nut results in reduced operator fatigue and improved control.

**Recommendations for use:**

For use on right angle grinders.



D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
				.020	.023			
<b>Carbon steel wire</b>								
4	5/8-11	24	1-3/8	82567	-	3,500-7,000	7,000	1
6	5/8-11	36	1-1/2	-	82571	3,000-6,000	6,000	1

### Internal nut, double row, full cable twist

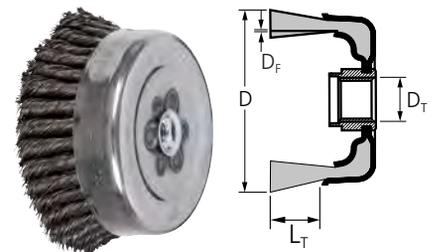
These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

**Advantages:**

- Tightly-twisted knots result in very aggressive brushing action.
- Internal nut results in reduced operator fatigue and improved control.

**Recommendations for use:**

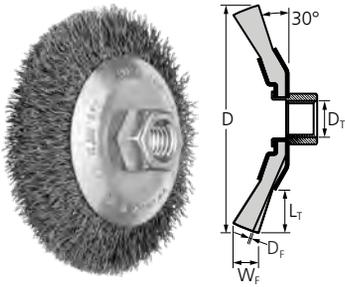
For use on right angle grinders.



D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
				.023				
<b>Carbon steel wire</b>								
6	5/8-11	66	1-1/2	82574		3,000-6,000	6,000	1

# Threaded power brushes

## Bevel brushes



### Crimped wire

Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

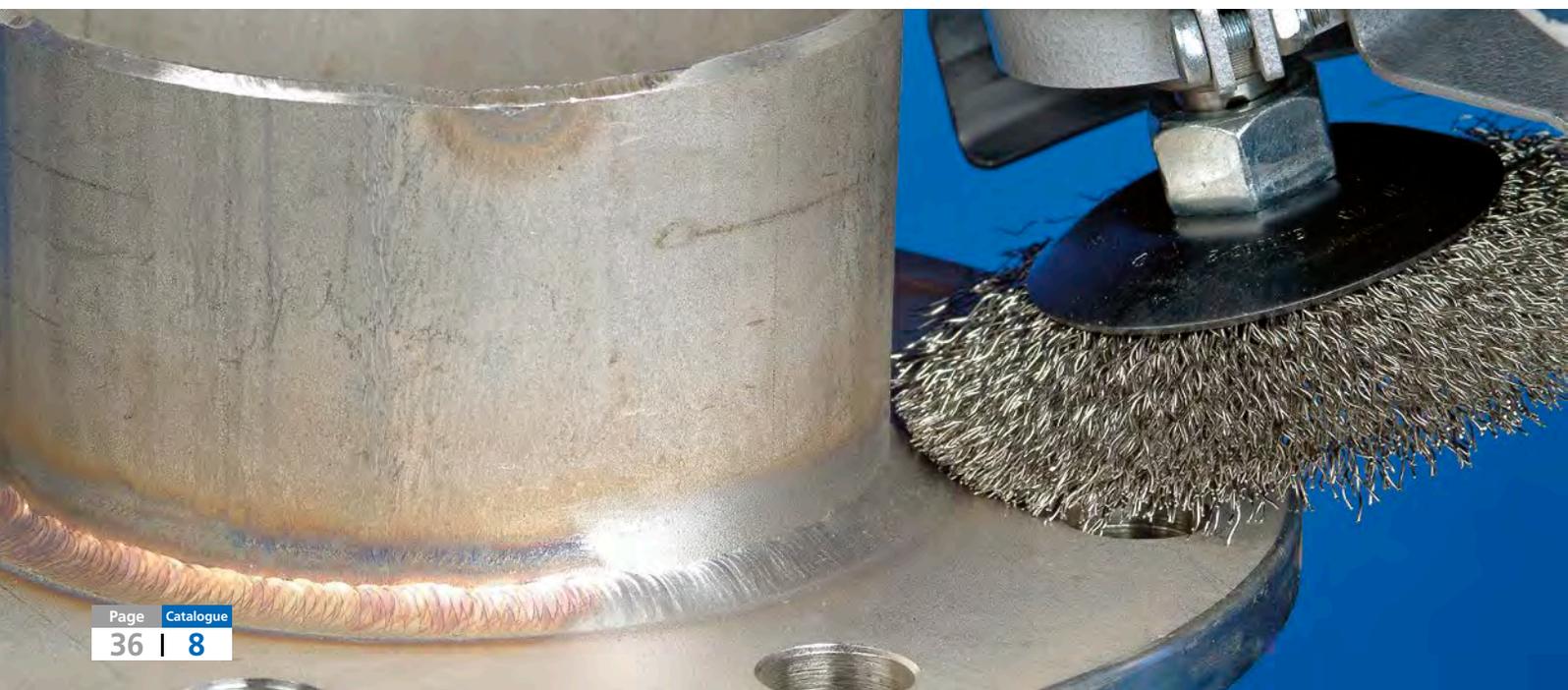
#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.  
Ideal for cleaning narrow or hard-to-reach areas such as grooves, fillets, and inside edges.

#### Recommendations for use

Designed for use on right angle grinders.

D [Inches]	D <sub>T</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
				.014			
<b>Carbon steel wire</b>							
4	5/8-11	3/4	1/2	82213	6,000–12,500	12,500	5
4-1/2	5/8-11	1-1/8	1/2	82256	6,000–12,500	12,500	5
5	5/8-11	7/8	3/8	82257	6,000–11,000	11,000	5
<b>Stainless steel wire (INOX)</b>							
4	5/8-11	3/4	1/2	82370	5,000–12,500	12,500	5
4-1/2	5/8-11	1-1/8	1/2	82371	5,000–12,500	12,500	5
5	5/8-11	7/8	3/8	82372	5,000–11,000	11,000	5



### Knot wire, full cable twist

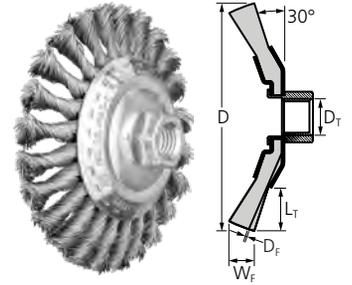
These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

Tightly-twisted knots result in very aggressive brushing action.  
Ideal for cleaning narrow or hard-to-reach areas such as grooves, fillets, and inside edges.

#### Recommendations for use

Designed for use on right angle grinders.



D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
					.014	.020			

#### Carbon steel wire

4	5/8-11	22	3/4	1/2	82201	82202 <b>P</b>	10,000–15,000	20,000	<b>5/5</b>
4-1/2	5/8-11	24	1	1/2	82500	82501	7,500–15,000	15,000	1
5	5/8-11	28	3/4	1/2	-	82505	7,500–15,000	15,000	1
7	5/8-11	28	1-1/8	1/2	-	82509	5,000–9,000	9,000	1

#### Stainless steel wire (INOX)

4	5/8-11	22	3/4	1/2	82317	-	8,000–15,000	20,000	5
4-1/2	5/8-11	24	1	1/2	82625	-	6,000–15,000	15,000	1
5	5/8-11	28	3/4	1/2	82629	-	6,000–15,000	15,000	1



Brushes available in POP packaging are marked with a "P" in this catalogue. To order brushes in POP versions, please add a "P" to the end of the EDP number.



Thread adapters to adapt 5/8-11 threaded wheels to other common grinder spindles are available, please see page 79 for information.

The box quantity of POP items is printed in "blue" accordingly.



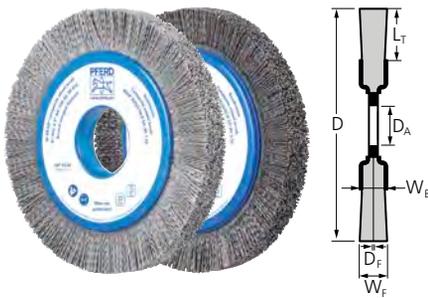
# Composite brushes

## Wheel brushes

Composite brushes from PFERD have been specifically developed for industrial, automated use. They are suitable for a variety of applications and their variable mounting options mean that they can be used on many different drive systems. This offers the advantage that the workpiece can be produced and finished on the same machine. As a result, labour-intensive, manual work is reduced and repeatable results are achieved with short cycle times.

The trim length on standard composite brushes makes them ideal for aggressive deburring and surface conditioning applications. For work pieces with contours or uneven surfaces, the FLEX style of composite brushes are recommended. The FLEX composite brush style is characterized by longer trim length and in many cases narrower face width.

The application parameters for using composite brushes is influenced by many factors. Type of workpiece material, available machine, and required results all affect the application parameters. PFERD offers a wide range of products for various applications. Our sales and technical advisers will be happy to assist or even visit your facility to determine proper application parameters for your requirements. Please visit our website at [www.pferd.com](http://www.pferd.com), or call our customer service department for more information at 1-800-342-9015.



### Composite wheels

M-BRAD® nylon abrasive filament makes this product ideal for aggressive deburring and other surface conditioning applications. Developed specially for industrial use on stationary machines.

#### Advantages:

- Long tool life and aggressive brushing effect due to a very high filament density.
- Even distribution of fill material results in perfect balance, eliminating vibration.

#### Recommendations for use

- Use ceramic oxide CO filament for fast, aggressive deburring.
- Use rectangular .045" x .090" filament for removal of larger burs.
- For better surface finish, the use of coolant is recommended.

#### Ordering note:

Please refer to page 9 for ANSI recommended arbor hole mounting requirements.

#### PFERDVALUE®:



D [Inches]	D <sub>A</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	Incl. keyway [Inches]	D <sub>F</sub> [Inches]/Grit size and EDP number					Opt. RPM	Max. RPM	Adapter style	
						round crimped				rectangular				
						.022/320	.022/120	.040/120	.040/80					

#### M-BRAD® nylon abrasive filament, silicon carbide SiC

6	2	1-1/4	1	1	-	83723	-	83722	83720	83721	900-1,500	3,600	C	1
8	2	1-1/4	1	1	-	83729	-	83728	83726	83727	900-1,500	3,600	C	1
10	2	1-1/2	1	1	-	83741	83742	83740	83738	83739	900-1,500	3,600	C	1
12	4-1/4	1-1/2	1	1	-	83753	-	83752	83750	83751	500-800	1,800	G	1
14	5-1/4	1-1/2	1	1	-	83765	-	83764	83762	83763	500-800	1,800	G	1

#### M-BRAD® nylon abrasive filament, ceramic oxide CO

6	2	1-1/4	1	1	-	-	-	-	84165	-	900-1,500	3,600	C	1
8	2	1-1/4	1/2	1/2	1/2 x 1/4	-	-	84132	84127	-	900-1,500	3,600	C	1
			1	1	-	-	-	84169	-	900-1,500	3,600	C	1	
10	2	1-1/2	1	1	-	-	-	-	84173	-	500-800	3,600	C	1
12	4-1/4	1-1/2	1	1	-	-	-	-	84177	-	500-800	1,800	G	1
14	5-1/4	1-1/2	1	1	-	-	-	-	84181	-	500-800	1,800	G	1

### Composite wheels, FLEX type

Long-trim M-BRAD® nylon abrasive filament makes this product particularly suitable for deburring complex geometries such as camshafts and gears. Developed specially for industrial use on stationary machines.

#### Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.
- Long tool life and aggressive brushing action due to a very high filament density.
- Even distribution of fill material results in perfect balance, eliminating vibration.

#### Recommendations for use

- Use ceramic oxide CO filament for fast, aggressive deburring.
- Use rectangular .045" x .090" filament for removal of larger burs.
- For better surface finish, the use of coolant is recommended.

#### Ordering note:

Please refer to page 9 for ANSI recommended arbor hole mounting requirements.

#### PFERDVALUE®:



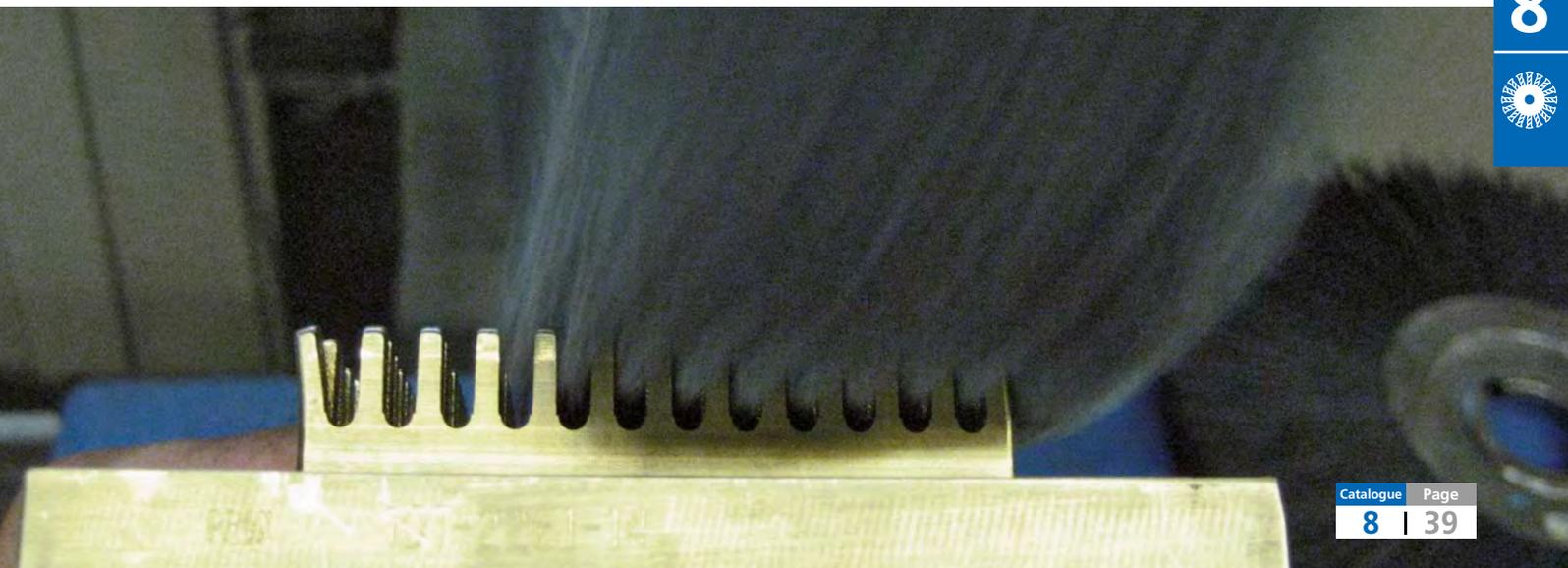
D [Inches]	D <sub>A</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	Incl. keyway [Inches]	D <sub>F</sub> [Inches]/Grit size and EDP number						Opt. RPM	Max. RPM	Adapter style	
						round crimped					rectangular				
						.022/320	.022/120	.035/180	.040/120	.040/80	.045x.090/80				

#### M-BRAD® nylon abrasive filament, silicon carbide SiC

8	2	2-1/4	1	1	-	83735	-	-	83734	83732	83733	900-1,500	3,600	C	1
10	2	2-3/4	1	1	-	83747	-	-	83746	83744	83745	900-1,500	3,600	C	1
					1/2 x 1/4	-	-	83657	-	-	-	900-1,500	3,600	C	1
12	2	2-3/8	1	1	1/2 x 1/4	84150	-	83661	83660	83659	-	500-800	1,800	C	1
					-	83759	-	-	83758	83756	83757	500-800	1,800	G	1
14	2	3-1/2	1	1	1/2 x 1/4	-	-	83665	-	83663	-	500-800	1,800	C	1
					-	83771	-	-	83770	83768	83769	500-800	1,800	G	1

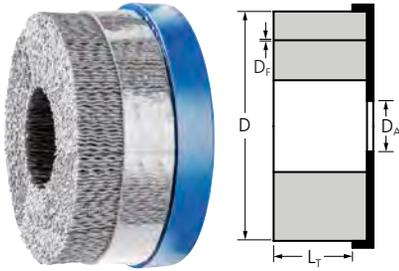
#### M-BRAD® nylon abrasive filament, ceramic oxide CO

6	2	1-1/4	1/2	1/2	-	-	-	-	84119	84118	-	900-1,500	3,600	C	1
8	2	2-1/4	1/2	1/2	-	-	-	-	84126	84124	-	900-1,500	3,600	C	1
10	2	2-3/4	1/2	1/2	1/2 x 1/4	-	84138	-	84139	84133	-	900-1,500	3,600	C	1
12	2	2-3/8	1/2	1/2	1/2 x 1/4	-	-	-	84145	84144	-	500-800	1,800	C	1
					1	1	1/2 x 1/4	-	-	-	84190	84189	-	500-800	1,800
14	2	3-1/2	1/2	1/2	1/2 x 1/4	-	-	-	84152	84151	-	500-800	1,800	C	1
					1	1	1/2 x 1/4	-	-	-	84194	84193	-	500-800	1,800



# Composite brushes

## Disc brushes



### High density, bridled

M-BRAD® nylon abrasive filament makes this product particularly suitable for aggressive deburring. Developed specially for industrial use on stationary machines.

#### Advantages:

Long tool life and aggressive brushing effect due to a very high filament density. Even distribution of fill material results in perfect balance, eliminating vibration. Removable bridle reduces filament flare for consistently aggressive deburring action.

#### Ordering note:

For better surface finish, the use of coolant is recommended. Angled trim version for use in tight corners.

#### Recommendations for use

Use ceramic oxide CO filament for fast, aggressive deburring. Use rectangular .045" x .090" filament for removal of larger burs.

#### Ordering note:

See page 81 for information on drive arbors.

#### PFERDVALUE®:



D [Inches]	D <sub>A</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches]/Grit size and EDP number					Opt. RPM	Max. RPM	
			round crimped				rectangular			
			.022/320	.022/120	.040/120	.040/80				

#### M-BRAD® nylon abrasive filament, silicon carbide SiC

3	7/8	1-1/2	84125	84123	84122	84120	84121	2,400–3,900	4,500	1
4	7/8	1-1/2	84131	-	84130	84128	84129	1,400–2,300	3,500	1
5	7/8	1-1/2	84137	-	84136	84134	84135	1,200–2,000	3,000	1
6	7/8	1-1/2	84143	-	84142	84140	84141	1,000–1,600	2,500	1
8	7/8	1-1/2	84149	-	84148	84146	84147	500–800	1,800	1

#### M-BRAD® nylon abrasive filament, ceramic oxide CO

3	7/8	1-1/2	-	-	84232	84231	-	2,400–3,900	4,500	1
4	7/8	1-1/2	-	84238	84237	84236	-	1,400–2,300	3,500	1
5	7/8	1-1/2	-	-	-	84241	-	1,200–2,000	3,000	1
6	7/8	1-1/2	-	-	-	84246	-	1,000–1,600	2,500	1

D [Inches]	D <sub>A</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number					Opt. RPM	Max. RPM	
			.016							

#### Nylon filament

4	7/8	1-1/2	84268					1,400–2,300	3,500	1
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#### Nylon filament, angled trim

6	7/8	1-1/2	84269					1,000–1,600	2,500	1
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See page 81 for information on drive arbors.

### Standard density, FLEX type

The M-BRAD nylon abrasive filament makes this product suitable for deburring multiple maternal types and alloys. The density profile insures deburring action even on complex part geometries. Developed specially for industrial use on stationary machines with magnetic conveyor belts.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.  
 Long tool life and aggressive brushing effect due to a very high filament density.  
 Even distribution of fill material results in perfect balance, eliminating vibration.  
 Lighter fill density allows for better coolant flow.

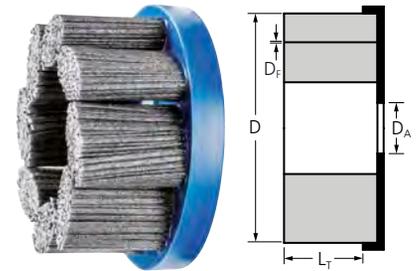
#### Recommendations for use

Use rectangular .045" x .090" filament for removal of larger burs.  
 For better surface finish, the use of coolant is recommended.

#### Ordering note:

See page 81 for information on drive arbors.

#### PFERDVALUE®:



D [Inches]	D <sub>A</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches]/Grit size and EDP number					Opt. RPM	Max. RPM	
			round crimped				rectangular			
			.022/320	.035/180	.040/120	.040/80	.045x.090/180			

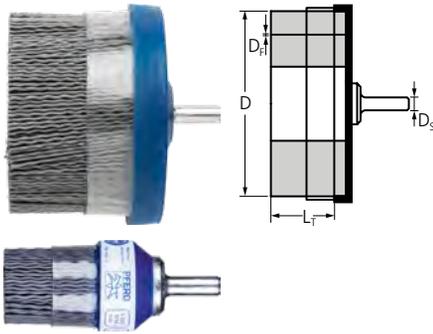
#### M-BRAD® nylon abrasive filament, silicon carbide SiC

3	7/8	1-1/2	83944	83943	83942	83941	83966	2,400–3,900	4,500	1
4	7/8	1-1/2	83948	83947	83946	83945	83968	1,400–2,300	3,500	1
6	7/8	1-1/2	83952	83951	83950	83949	83970	1,000–1,600	2,500	1
8	7/8	1-1/2	83956	83955	83954	83953	83972	500–800	1,800	1
10	7/8	1-1/2	83960	83959	83958	83957	83974	350–600	1,340	1



# Composite brushes

## Disc brushes



### Shank-mounted, bridled

M-BRAD® nylon abrasive filament makes this product particularly suitable for aggressive deburring. Developed for deburring and surface conditioning applications with limited access.

#### Advantages:

Long tool life and aggressive brushing effect due to a very high filament density. Even distribution of fill material results in perfect balance, eliminating vibration.

#### Recommendations for use

Use ceramic oxide CO filament for fast, aggressive deburring. Use rectangular .045" x .090" filament for removal of larger burs. Removable bridle reduces filament flare for consistently aggressive deburring action. For better surface finish, the use of coolant is recommended.

#### PFERDVALUE®:



D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches]/Grit size and EDP number								Opt. RPM	Max. RPM	
			round crimped					rectangular	rectangular crimped				
			.022/320	.022/120	.035/180	.040/120	.040/80	.045x.090/80	.045x.090/80				
2	1/4	1-1/2	84254	-	84253	84252	84251	84250	-	1,500–3,500	5,000	1	
2-1/2	1/4	1-1/2	84259	-	-	84257	84256	84255	-	1,500–3,500	5,000	1	
3	1/4	1-1/2	84264	-	-	84262	84261	84260	-	1,500–3,500	5,000	1	

#### M-BRAD® nylon abrasive filament, silicon carbide SiC

2	1/4	1-1/2	84254	-	84253	84252	84251	84250	-	1,500–3,500	5,000	1
2-1/2	1/4	1-1/2	84259	-	-	84257	84256	84255	-	1,500–3,500	5,000	1
3	1/4	1-1/2	84264	-	-	84262	84261	84260	-	1,500–3,500	5,000	1

#### M-BRAD® nylon abrasive filament, ceramic oxide CO

1	1/4	1	-	84244	-	84243	84242	-	84240	1,500–3,500	5,000	1
2	1/4	1-1/2	-	-	-	84271	84270	-	84245	1,500–3,500	5,000	1
2-1/2	1/4	1-1/2	-	-	84279	-	84275	-	-	1,500–3,500	5,000	1
3	1/4	1-1/2	-	-	-	84281	84280	-	-	1,500–3,500	5,000	1

D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches] and EDP number								Opt. RPM	Max. RPM	
			.016										
2	1/4	1-1/2	84267								1,500–3,500	5,000	1

#### Nylon filament

2	1/4	1-1/2	84267								1,500–3,500	5,000	1
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Use spindle extension, EDP 95826, for longer reach.  
See catalogue section 9, page 64 for details.



### Crimped wire

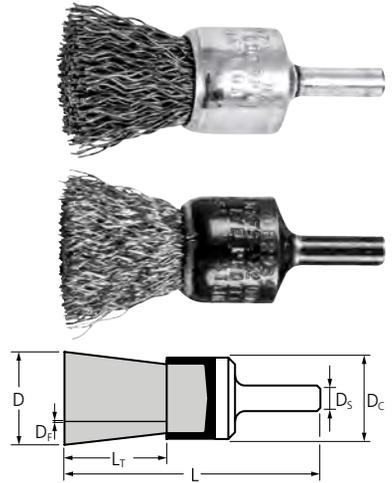
Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.  
Coated cup style end brushes minimize workpiece contamination risk.

#### Recommendations for use:

Designed for use on straight grinders.



D [Inches]	D <sub>c</sub> [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>s</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	
				.006	.010	.014	.020			

#### Carbon steel wire

1/2	3/4	1/4	1	82962	82964	82965	82966P	12,500–18,700	25,000	10/5
3/4	1	1/4	1	82967	82969	82970	82971P	11,000–16,500	22,000	10/5
1	1-1/4	1/4	1	82972P	82974P	82975	82976P	10,000–15,000	20,000	10/5

#### Stainless steel wire (INOX)

All INOX end brushes are degreased

1/2	3/4	1/4	1	82981	82983	82984	82985	10,000–16,000	25,000	10
3/4	1	1/4	1	82986P	82988	82989	82990	8,500–14,000	22,000	10/5
1	1-1/4	1/4	1	82991P	82993P	82994	-	8,000–13,000	20,000	10/5

#### Stainless steel wire (INOX) – coated cup

All INOX end brushes are degreased

1/2	3/4	1/4	1	83050	83052	-	-	10,000–16,000	25,000	10
3/4	1	1/4	1	83053	83055	-	-	8,500–14,000	22,000	10
1	1-1/4	1/4	1	83056	83058	-	-	8,000–13,000	20,000	10



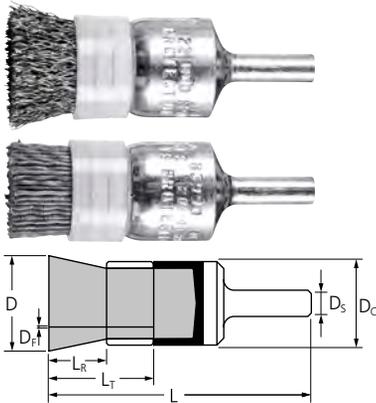
Brushes available in POP packaging are marked with a "P" in this catalogue. To order brushes in POP versions, please add a "P" to the end of the EDP number.

The box quantity of POP items is printed in "blue" accordingly.

**Note:** Please do not insert the entire stem of a brush into the chuck. Per ANSI B165.1-2013, 6.7: The shank shall be inserted into the chuck or collet as far as possible on the uniform diameter of the shank, with minimum possible overhang of the brush.

# Stem mounted brushes

## End brushes



### Crimped, bridled

Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.  
Removable bridles provide controlled trim length.

#### Recommendations for use:

Designed for use on straight grinders.

D [Inches]	D <sub>C</sub> [Inches]	D <sub>S</sub> [Inches]	L <sub>T</sub> [Inches]	L <sub>R</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	
					.006	.008	.010	.014			

#### Carbon steel wire

1/2	5/8	1/4	1	1/2	83005	-	83007	-	7,500–11,200	15,000	10
3/4	7/8	1/4	1	1/2	83010	-	83012	-	7,500–11,200	15,000	10
1	1-1/8	1/4	1	1/2	83015	83016	83017	83018	7,500–11,200	15,000	10

#### Stainless steel wire (INOX)

All INOX end brushes are degreased

1/2	5/8	1/4	1	1/2	83024	-	83026	-	6,000–10,000	15,000	10
3/4	7/8	1/4	1	1/2	83027	-	83029	-	6,000–10,000	15,000	10
1	1-1/8	1/4	1	1/2	83030	-	83032	-	6,000–10,000	15,000	10

D [Inches]	D <sub>C</sub> [Inches]	D <sub>S</sub> [Inches]	L <sub>T</sub> [Inches]	L <sub>R</sub> [Inches]	D <sub>F</sub> [Inches]/Grit size and EDP number					Opt. RPM	Max. RPM	
					.022/320	.022/120	.035/180	.040/120	.040/80			

#### M-BRAD® nylon abrasive filament, silicon carbide SiC

1/2	5/8	1/4	1	1/2	83988	-	-	83996	-	5,200–9,000	20,000	10
3/4	7/8	1/4	1	1/2	83991	-	83990	84000	-	5,200–9,000	20,000	10
1	1-1/8	1/4	1	1/2	83994	-	84005	84004	-	5,200–9,000	20,000	10

#### M-BRAD® nylon abrasive filament, ceramic oxide CO

1	1-1/8	1/4	1	1/2	-	84313	-	84311	84310	5,200–9,000	20,000	10
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### Crimped, ECAP® encapsulated

Extremely aggressive brushing action, perfect for heavy-duty brushing.

#### Advantages:

ECAP® elastomer eliminates flare for precision control of brush contact area.  
Extremely aggressive brushing.

#### Recommendations for use:

Designed for use on straight grinders.  
E3 is aggressive enough for most applications. Best grade for general use. Green colour.  
E4 is good for higher pressure applications. Black colour.

D [Inches]	D <sub>C</sub> [Inches]	D <sub>S</sub> [Inches]	L <sub>T</sub> [Inches]	ECAP® grade	D <sub>F</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	
					.010						

#### Carbon steel wire

1/2	5/8	1/4	7/8	E3	83580				9,000–13,500	18,000	10
3/4	7/8	1/4	7/8	E3	83583				7,500–11,200	15,000	10
1	1-1/8	1/4	7/8	E4	83596				6,500–10,000	13,000	10

### Knot, flared cup

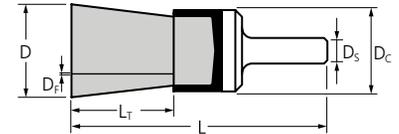
These brushes feature tightly twisted knots for low flex, high impact brushing action. Ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

Tightly-twisted knots result in very aggressive brushing action.  
Easily-controlled flare of knots makes this brush ideal for cleaning pipe and tube internal diameters.

#### Recommendations for use:

Designed for use on straight grinders.



D [Inches]	D <sub>c</sub> [Inches]	D <sub>s</sub> [Inches]	L <sub>r</sub> [Inches]	No. knots [pcs]	D <sub>f</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	
					.006	.010	.014	.020			
<b>Carbon steel wire</b>											
1/2	5/8	1/4	1	6	83063	83064	83065	-	10,000–15,000	20,000	10
3/4	7/8	1/4	1	8	83070	83071	83072P	83073	10,000–15,000	20,000	10/5
1	1-1/8	1/4	1	12	-	83078	83079P	83080P	10,000–15,000	20,000	10/5
			1-3/8	12	-	80187	-	-	8,000–12,000	15,000	10
<b>Stainless steel wire (INOX)</b>											
All INOX end brushes are degreased											
1/2	5/8	1/4	1	6	-	-	83087	-	8,000–13,000	20,000	10
3/4	7/8	1/4	1	8	83090	83091	83092	83093	8,000–13,000	20,000	10
1	1-1/8	1/4	1	12	83096	83097	83098P	83099	8,000–13,000	20,000	10/5
<b>Stainless steel wire (INOX), coated cup</b>											
All INOX end brushes are degreased											
3/4	7/8	1/4	1	8	83178	-	-	-	8,000–13,000	20,000	10
1	1-1/8	1/4	1	12	-	83183	83184	-	8,000–13,000	20,000	10
<b>Brass wire</b>											
1	1-1/8	1/4	1	12	-	-	83104	-	8,000–13,000	20,000	10



Brushes available in POP packaging are marked with a "P" in this catalogue. To order brushes in POP versions, please add a "P" to the end of the EDP number.

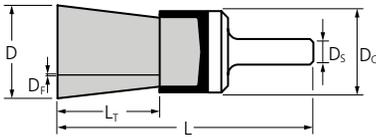
The box quantity of POP items is printed in "blue" accordingly.

**Note:** Please do not insert the entire stem of a brush into the chuck. Per ANSI B165.1-2013, 6.7: The shank shall be inserted into the chuck or collet as far as possible on the uniform diameter of the shank, with minimum possible overhang of the brush.



# Stem mounted brushes

## End brushes



### Knot, straight cup

These brushes feature tightly twisted knots for low flex, high impact brushing action. Ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

Tightly-twisted knots result in very aggressive brushing action.  
Reduced flare for more precise surface contact.

#### Recommendations for use:

Designed for use on straight grinders.

D [Inches]	D <sub>c</sub> [Inches]	D <sub>s</sub> [Inches]	L <sub>t</sub> [Inches]	No. knots [pcs]	D <sub>f</sub> [Inches] and EDP number			Opt. RPM	Max. RPM	
					.010	.014	.020			
<b>Carbon steel wire</b>										
1/2	5/8	1/4	1-1/8	6	83124	83125	-	10,000–15,000	20,000	10
3/4	7/8	1/4	1-1/8	8	83131	83132	83133	10,000–15,000	20,000	10
1	1-1/8	1/4	1-1/8	12	83138 <sup>P</sup>	83139	83140	10,000–15,000	20,000	10/5
<b>Stainless steel wire (INOX)</b>										
All INOX end brushes are degreased										
1/2	5/8	1/4	1-1/8	6	-	83147	-	8,000–13,000	20,000	10
3/4	7/8	1/4	1-1/8	8	83151	83152	83153	8,000–13,000	20,000	10
1	1-1/8	1/4	1-1/8	12	83157	83158	83159	8,000–13,000	20,000	10
<b>Brass wire</b>										
1	1-1/8	1/4	1	12	-	83164	-	8,000–13,000	20,000	10



### Knot, SINGLETWIST®

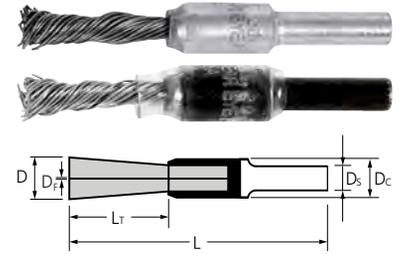
SINGLETWIST® end brushes are produced with a single, twisted wire knot, designed specially for brushing confined areas such as inside corners and edges.

#### Advantages:

- Tightly-twisted knots result in very aggressive brushing action.
- Direction of knot twist prevents unraveling.
- Coated cup style end brushes minimize workpiece contamination risk.

#### Recommendations for use:

Designed for use on straight grinders.



D [Inches]	D <sub>c</sub> [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	No. knots [pcs]	D <sub>F</sub> [Inches] and EDP number			Opt. RPM		Max. RPM	
					.006	.014	.020	open areas	confined areas		

#### Carbon steel wire

1/4	3/8	1/4	1-1/8	1	83107	83108	83109	2,500–8,000	3,500–10,000	20,000	10
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#### Stainless steel wire (INOX) – coated cup

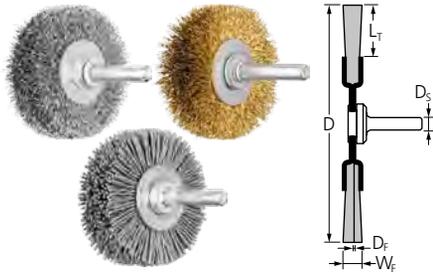
All INOX end brushes are degreased

1/4	3/8	1/4	1-1/8	1	83283	83284	83285	2,500–8,000	3,500–10,000	20,000	10
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# Stem mounted brushes

## Wheel brushes



### Crimped

Designed for individual use in confined areas. They are best suited for brushing uneven surfaces and areas inaccessible to wider brushes. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.

#### Recommendations for use:

Designed for use on straight grinders.

D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>f</sub> [Inches] and EDP number					Opt. RPM	Max. RPM	
				.006	.008	.012	.014	.020			

#### Carbon steel wire

1-1/2	1/4	7/16	1/4	82890	-	82892	-	82889	10,000–15,000	20,000	10
2	1/4	1/2	3/8	-	82893	82894	-	-	10,000–15,000	20,000	10
	1/4	1/2	5/8	-	82902	-	-	-	8,000–11,000	15,000	10
2-1/2	1/4	3/4	1/2	-	-	-	82896	-	10,000–15,000	20,000	10
3	1/4	3/4	5/8	-	-	82903	-	-	6,000–9,000	12,000	10
	1/4	1	5/8	82897	82898	82899	82900	82901	8,000–11,000	15,000	10

#### Stainless steel wire (INOX)

1-1/2	1/4	7/16	1/4	82905	-	82906	-	-	8,000–13,000	20,000	10
2	1/4	1/2	3/8	-	82907	82908	-	-	8,000–13,000	20,000	10
	1/4	1/2	5/8	-	82951	-	-	-	8,000–13,000	20,000	10
2-1/2	1/4	3/4	1/2	-	82909	82910	-	-	8,000–13,000	20,000	10
3	1/4	3/4	5/8	-	-	82952	-	-	6,000–9,000	12,000	10
	1/4	1	5/8	82911	82912	-	82913	-	6,000–9,000	12,000	10

#### Brass wire

2	1/4	1/2	5/8	-	82953	-	-	-	8,000–11,000	15,000	10
3	1/4	3/4	5/8	-	-	82954	-	-	6,000–9,000	12,000	10
	1/4	1	5/8	-	-	-	82914	-	6,000–9,000	12,000	10

D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>f</sub> [Inches]/Grit size and EDP number			Opt. RPM	Max. RPM	
				.022/120	.040/120	.040/80			

#### M-BRAD® nylon abrasive filament, ceramic oxide CO

2	1/4	1/2	1/4	84203	-	-	6,000–9,800	15,000	10
			5/8	84200	84201	84202	6,000–9,800	15,000	10
3	1/4	3/4	1/4	-	-	84208	4,800–7,800	12,000	10
			5/8	84205	84206	84207	4,800–7,800	12,000	10

**Note:** Please do not insert the entire stem of a brush into the chuck. Per ANSI B165.1-2013, 6.7: The shank shall be inserted into the chuck or collet as far as possible on the uniform diameter of the shank, with minimum possible overhang of the brush.

### Knot, standard twist

This brush features knots that are twisted approximately 75% of the trim length. The loosely-twisted knots cover a larger surface area and are ideal for heavy-duty cleaning and surface conditioning on uneven surfaces. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

- Loosely-twisted knots cover a large surface area.
- Good balance between aggressiveness and flexibility.

#### Recommendations for use:

Designed for use on straight grinders.

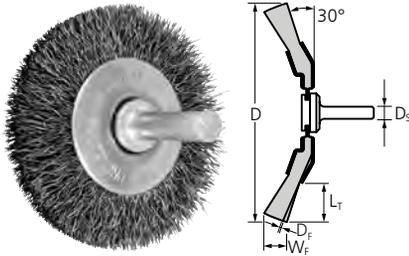


D [Inches]	D <sub>s</sub> [Inches]	No. knots [pcs]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number			Opt. RPM	Max. RPM	
					.012	.014	.020			
<b>Carbon steel wire</b>										
3	1/4	18	3/4	7/16	82915	82916	82917	12,500–18,700	25,000	10
3-1/4	1/4	20	3/4	1/2	-	82946	82947	12,500–18,700	25,000	10
4	1/4	22	3/4	5/8	-	82919	82920	12,500–18,700	25,000	10
<b>Stainless steel wire (INOX)</b>										
3	1/4	18	3/4	7/16	-	82921	-	10,000–16,000	25,000	10
3-1/4	1/4	20	3/4	1/2	-	82948	-	10,000–16,000	25,000	10
4	1/4	22	3/4	5/8	-	82922	-	10,000–16,000	25,000	10



# Stem mounted brushes

## Bevel brushes



### Crimped

Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.  
Ideal for cleaning narrow or hard-to-reach areas such as grooves, fillets, and inside edges.

#### Recommendations for use:

Designed for use on straight grinders.

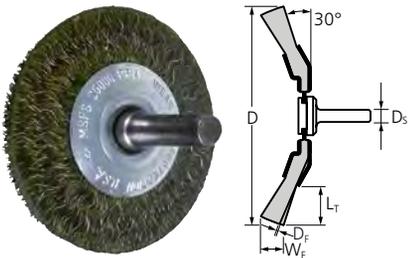
D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number					Opt. RPM	Max. RPM	
				.006	.008	.012	.014	.020			

#### Carbon steel wire

1-1/2	1/4	5/16	1/8	-	-	82852P	-	-	10,000–15,000	20,000	10/5
2	1/4	7/16	3/8	-	82854	-	82878P	82879	10,000–15,000	20,000	10/5
2-1/2	1/4	11/16	3/8	82857	-	-	82859	-	10,000–15,000	20,000	10
3	1/4	7/8	3/8	82861	82862	-	82863P	82864	10,000–15,000	20,000	10/5
4	1/4	1-3/8	1/2	-	82866	-	82867	-	10,000–15,000	20,000	10

#### Stainless steel wire (INOX)

1-1/2	1/4	5/16	1/8	82870	-	-	-	-	8,000–13,000	20,000	10
2-1/2	1/4	11/16	3/8	-	-	-	82875	-	8,000–13,000	20,000	10
3	1/4	7/8	3/8	82876	-	-	82877	-	8,000–13,000	20,000	10



### ECAP® encapsulated

Extremely aggressive brushing action, perfect for heavy-duty brushing.



#### Advantages:

Ideal for cleaning narrow or hard-to-reach areas such as grooves, fillets, and inside edges.  
ECAP® elastomer eliminates flare for precision control of brush contact area.  
Extremely aggressive brushing.  
E3 is aggressive enough for most applications. Best grade for general use.  
Green colour.

#### Recommendations for use:

Designed for use on straight grinders.

D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	ECAP® grade	D <sub>F</sub> [Inches] and EDP number					Opt. RPM	Max. RPM	
					.010							

#### Carbon steel wire

2	1/4	7/16	1/4	E3	83602					8,500–12,700	17,000	10
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**Note:** Please do not insert the entire stem of a brush into the chuck. Per ANSI B165.1-2013, 6.7: The shank shall be inserted into the chuck or collet as far as possible on the uniform diameter of the shank, with minimum possible overhang of the brush.

### Crimped

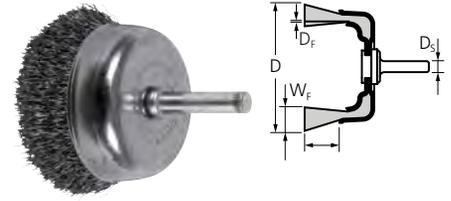
Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.

#### Recommendations for use:

Designed for use on straight grinders.



D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number						Opt. RPM	Max. RPM	
				.006	.008	.010	.012	.014	.020			

#### Carbon steel wire

1-1/4	1/4	1	1-3/8	-	-	-	-	82820	82821	6,500–10,000	13,000	10
1-3/4	1/4	11/16	1/2	82822	-	-	82823P	-	-	6,500–10,000	13,000	10/5
2	1/4	7/8	1/2	-	82824	-	82826P	-	-	6,500–10,000	13,000	10/5
2-1/2	1/4	7/8	3/8	-	82828	-	82830P	-	-	6,500–10,000	13,000	10/5

#### Stainless steel wire (INOX)

1-3/4	1/4	11/16	1/2	-	-	-	82836	-	-	5,000–8,500	13,000	10
2	1/4	7/8	1/2	-	-	82838	-	-	-	5,000–8,500	13,000	10



Brushes available in POP packaging are marked with a "P" in this catalogue. To order brushes in POP versions, please add a "P" to the end of the EDP number.

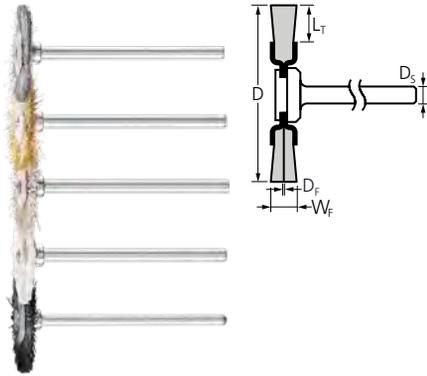
The box quantity of POP items is printed in "blue" accordingly.

**Note:** Please do not insert the entire stem of a brush into the chuck. Per ANSI B165.1-2013, 6.7: The shank shall be inserted into the chuck or collet as far as possible on the uniform diameter of the shank, with minimum possible overhang of the brush.



# Miniature brushes

## Wheel brushes



### Crimped, stem mounted

Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.  
Great for precision work in hard-to-reach areas.

#### Recommendations for use

Natural filaments can be used with polishing paste to achieve the optimum surface finish. Information on polishing pastes can be found in catalogue section 4.



D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>f</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
.005							

#### Carbon steel wire

3/4	1/8	3/16	1/16	83202	5,000–15,000	25,000	36
1	1/8	1/4	1/16	83204	5,000–15,000	25,000	36
1-1/4	1/8	3/8	1/16	83205	5,000–15,000	25,000	36
1-1/2	1/8	1/2	1/16	83206	5,000–15,000	25,000	36

#### Stainless steel wire (INOX)

5/8	1/8	1/8	1/16	83209	4,500–12,500	25,000	36
3/4	1/8	3/16	1/16	83210	4,500–12,500	25,000	36
1	1/8	1/4	1/16	83212	4,500–12,500	25,000	36
1-1/2	1/8	1/2	1/16	83213	4,500–12,500	25,000	36

#### Brass wire

1	1/8	1/4	1/16	83218	3,000–10,000	25,000	36
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D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	Grit size and EDP number	Opt. RPM	Max. RPM	
600							

#### M-BRAD® nylon abrasive filament, aluminum oxide A

3/4	1/8	3/16	1/16	83221	1,200–4,000	6,000	36
1	1/8	1/4	1/16	83223	1,200–4,000	6,000	36
1-1/4	1/8	3/8	1/16	83225	1,200–4,000	6,000	36
1-1/2	1/8	1/2	1/16	83227	1,200–4,000	6,000	36

D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	Bristle type and EDP number		Opt. RPM	Max. RPM	
				stiff	soft			

#### Natural bristle

3/4	1/8	3/16	1/16	83231	83232	5,000–10,000	25,000	36
-----	-----	------	------	-------	-------	--------------	--------	----

**Note:** Please do not insert the entire stem of a brush into the chuck. Per ANSI B165.1-2013, 6.7: The shank shall be inserted into the chuck or collet as far as possible on the uniform diameter of the shank, with minimum possible overhang of the brush.

### Crimped, stem mounted

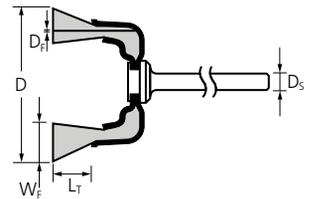
Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.  
Suitable for brushing on small surfaces.

#### Recommendations for use

Natural filaments can be used with polishing paste to achieve the optimum surface finish. Information on polishing pastes can be found in catalogue section 4.

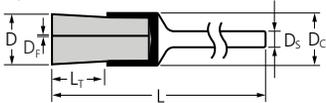


D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>f</sub> [Inches] and EDP number	Opt. RPM	Max. RPM		
				.005				
<b>Carbon steel wire</b>								
9/16	1/8	1/4	1/8	83236	5,000–15,000	25,000	36	
<b>Stainless steel wire (INOX)</b>								
9/16	1/8	1/4	1/8	83240	4,500–12,500	25,000	36	
D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	Grit size and EDP number	Opt. RPM	Max. RPM		
				600				
<b>M-BRAD® nylon abrasive filament, aluminum oxide A</b>								
9/16	1/8	1/4	1/8	83247	1,200–4,000	6,000	36	
D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	Bristle type and EDP number		Opt. RPM	Max. RPM	
				stiff	soft			
<b>Natural bristle</b>								
9/16	1/8	1/4	1/8	83250	83252	5,000–10,000	25,000	36



# Miniature brushes

## End brushes



### Crimped, stem mounted

Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.  
Great for precision work in hard-to-reach areas and internal diameters.

#### Recommendations for use

Natural filaments can be used with polishing paste to achieve the optimum surface finish. Information on polishing pastes can be found in catalogue section 4.

D [Inches]	D <sub>s</sub> [Inches]	L <sub>r</sub> [Inches]	D <sub>f</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
			.005				
<b>Carbon steel wire</b>							
1/4	1/8	7/16	83257		5,000–15,000	25,000	36
5/16	1/8	1/2	83258		5,000–15,000	25,000	36
<b>Stainless steel wire (INOX)</b>							
1/4	1/8	7/16	83262		4,500–12,500	25,000	36
5/16	1/8	1/2	83263		4,500–12,500	25,000	36
<b>Brass wire</b>							
1/4	1/8	7/16	83267		3,000–10,000	25,000	36
D [Inches]	D <sub>s</sub> [Inches]	L <sub>r</sub> [Inches]	Grit size and EDP number		Opt. RPM	Max. RPM	
			600				
<b>M-BRAD® nylon abrasive filament, aluminum oxide A</b>							
1/4	1/8	7/16	83272		1,200–5,000	6,000	36
3/16	1/8	5/16	83270		1,200–5,000	6,000	36
5/16	1/8	7/16	83274		1,200–5,000	6,000	36
D [Inches]	D <sub>s</sub> [Inches]	L <sub>r</sub> [Inches]	Bristle type and EDP number		Opt. RPM	Max. RPM	
			stiff	soft			
<b>Natural bristle</b>							
3/16	1/8	5/16	83278	83281	5,000–10,000	25,000	36
1/4	1/8	7/16	83279	-	5,000–10,000	25,000	36



**Miniature brush set**

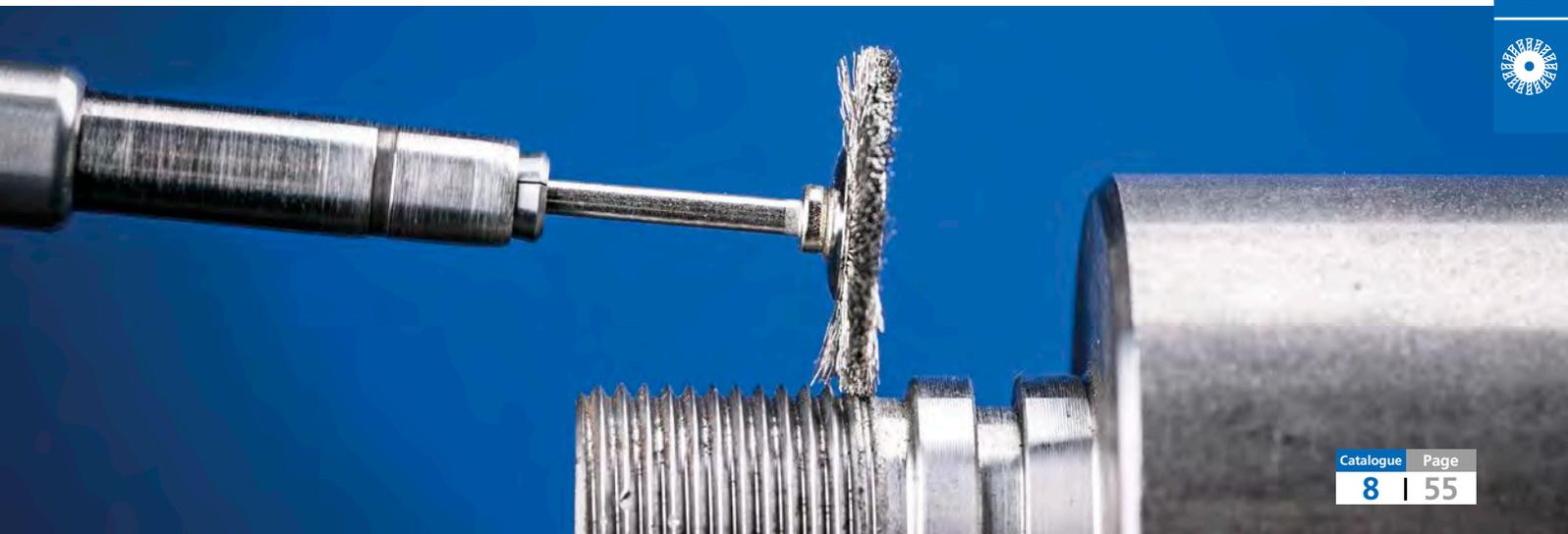
PFERD stem mounted miniature brushes are perfect for precision applications required in many industries including jewelry, electronics, medical and aerospace.

A wide selection of filaments includes: carbon steel wire, stainless steel wire (INOX) and brass wire, M-BRAD® aluminum oxide impregnated nylon filament, and a variety of natural bristles.

All brushes are mounted on 1/8" stems, and are recommended for use with flexible shaft tools and straight grinders.



Shape	D [Inches]	Filament type and EDP number	individual brush EDP's in Set				
			carbon steel	stainless steel (INOX)	M-BRAD®	natural bristle	
			82955	83202	-	83221	
wheel	3/4"	-	83212	83223	-		
wheel	1"	-	83213	-	-		
wheel	1-1/2"	83257	-	83272	83279		
end	1/4"	-	83263	83273	-		
end	5/16"	83236	83240	83247	83250		
cup	9/16"						



# Stem mounted specialty brushes

## Crimped wire



### Pilot bonding brushes

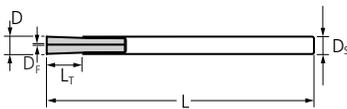
Essential for cleaning rivet holes in aircraft and aerospace industries.



#### Advantages:

Pilot ensures precise brushing action.  
Designed to fit standard rivet hole diameters in aerospace industry.

D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches]	Pilot hole dia. [Inches] and EDP number		Opt. RPM	Max. RPM	
				1/8	1/4			
<b>Stainless steel wire (INOX)</b>								
1/2	1/4	1/8	.005	83188	83191	10,000–15,000	20,000	10



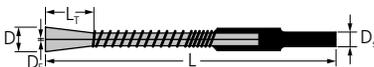
### Pencil end brushes

Designed for cleaning blind holes and small crevices. Ideal for maintenance.

#### Advantages:

The metal tube can be cut back to expose desired filament length to control brush flare.  
Additional filament can be easily exposed for longer service life.

D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
			.010	.012			
<b>Carbon steel wire</b>							
3/16	1/4	3/8	82941	-	4,000–6,000	8,000	10
<b>Stainless steel (INOX-TOTAL)</b>							
3/16	1/4	3/8	-	82942	3,000–5,000	8,000	10



### Coil spring brushes

Flexible heavy internal cleaning action. Ideal for cleaning deep cavities, tubing, and more.

#### Advantages:

Designed for cleaning cavities accessible only by small holes.  
Long trim length ensures long reach into workpiece.

#### Safety notes:

For safe operation, ensure that brush face is inserted into the workpiece prior to operation.  
Maximum RPM of 1,800 must not be exceeded.

D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	L [Inches]	D <sub>f</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
				.014				
<b>Carbon steel wire</b>								
3/8	1/4	1	6-1/4	82943		700–1,000	1,800	10
1/2	1/4	1	6-1/4	82944		700–1,000	1,800	10

## Circular end brushes

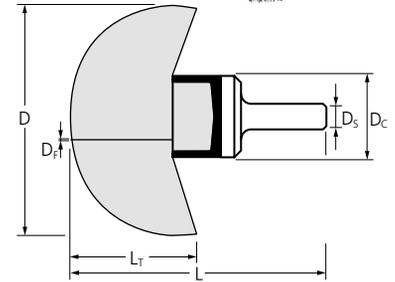
Ideal for brushing contoured surfaces. Used for light to medium duty brushing action such as removal of coatings, adhesives, and sealants.

### Advantages:

Conforms to the contours of the workpiece.

### Recommendations for use:

Designed for use on straight grinders.



D [Inches]	Ds [Inches]	D <sub>r</sub> [Inches] and EDP number				Opt. RPM	Max. RPM	
		.008	.010	.014	.020			

### Carbon steel wire

1-1/4	1/4	82926	-	-	-	10,000–15,000	20,000	10
1-1/2	1/4	82927	-	-	82928	7,000–10,500	14,000	10
2	1/4	-	82929	82930	-	7,000–10,500	14,000	10
3	1/4	82932	-	82933	82934	7,000–10,500	14,000	10

### Stainless steel wire (INOX)

All INOX end brushes are degreased.

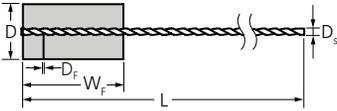
1-1/2	1/4	82935	-	-	-	5,500–9,000	14,000	10
2	1/4	-	82936	-	-	5,500–9,000	14,000	10
3	1/4	82938	-	-	-	5,500–9,000	14,000	10

**Note:** Please do not insert the entire stem of a brush into the chuck. Per ANSI B165.1-2013, 6.7: The shank shall be inserted into the chuck or collet as far as possible on the uniform diameter of the shank, with minimum possible overhang of the brush.



# Tube brushes

## Power tube brushes



### Single stem, single spiral

Standard-duty power tube brushes for general-purpose internal cleaning and deburring. Particularly suitable for use on pipes, threads, couplings sleeves, and cylinders.

#### Advantages:

Looped end construction allows for deeper cleaning.

#### Safety note:

For safe operation, ensure that brush face is inserted into the workpiece prior to operation.

D [Inches]	D <sub>s</sub> [Inches]	W <sub>F</sub> [Inches]	L [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
				.005	.008			

#### Carbon steel wire

1/4	1/8	1	3-1/2	83351	-	500-1,500	2,500	36
5/16	1/8	1	3-1/2	83352	-	500-1,500	2,500	36
3/8	5/32	1	3-1/2	83354	83356	500-1,500	2,500	36
1/2	5/32	1	3-1/2	83358	-	500-1,500	2,500	36
9/16	5/32	1	3-1/2	83359	-	500-1,500	2,500	36
5/8	5/32	1	3-1/2	83360	83361	500-1,500	2,500	36
3/4	1/4	1	3-1/2	83363	-	500-1,500	2,500	36
13/16	1/4	1	3-1/2	83366	-	500-1,500	2,500	36
7/8	1/4	1	3-1/2	83367	-	500-1,500	2,500	36
1	1/4	1	3-1/2	83371	83372	500-1,500	2,500	36
1-1/8	1/4	1	3-1/2	83373	83374	500-1,500	2,500	36
1-1/4	1/4	1	3-1/2	83375	83376	500-1,500	2,500	36
1-1/2	1/4	1	3-1/2	-	83377	500-1,500	2,500	36
2-1/4	1/4	1	3-1/2	-	83379	500-1,500	2,500	36

#### Stainless steel wire (INOX)

1/4	1/8	1	3-1/2	83387	-	500-1,500	2,500	36
3/8	5/32	1	3-1/2	83389	-	500-1,500	2,500	36
7/16	1/8	1	3-1/2	83391	-	500-1,500	2,500	36
1/2	5/32	1	3-1/2	83392	-	500-1,500	2,500	36
9/16	5/32	1	3-1/2	83393	-	500-1,500	2,500	36
5/8	5/32	1	3-1/2	83395	-	500-1,500	2,500	36
11/16	5/32	1	3-1/2	83396	-	500-1,500	2,500	36
3/4	1/4	1	3-1/2	83397	-	500-1,500	2,500	36
13/16	1/4	1	3-1/2	83399	-	500-1,500	2,500	36
7/8	1/4	1	3-1/2	83400	-	500-1,500	2,500	36
1	1/4	1	3-1/2	83402	83403	500-1,500	2,500	36
1-1/4	1/4	1	3-1/2	83406	83407	500-1,500	2,500	36

#### Brass wire

1/4	1/8	1	3-1/2	83411	-	500-1,500	2,500	36
3/8	5/32	1	3-1/2	83412	-	500-1,500	2,500	36
1/2	5/32	1	3-1/2	83413	-	500-1,500	2,500	36
1	1/4	1	3-1/2	-	83417	500-1,500	2,500	36

### Double stem, double spiral

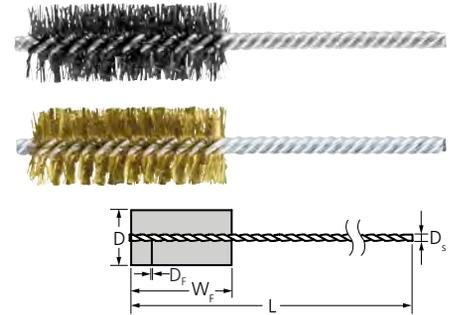
Heavy-duty power tube brush, ideal for deburring cross holes and removal of contaminants, coatings, and adhesive from threads.

#### Advantages:

High fill density ensures optimum service life.

#### Safety notes

For safe operation, ensure that brush face is inserted into the workpiece prior to operation.



D [Inches]	D <sub>s</sub> [Inches]	W <sub>f</sub> [Inches]	L [Inches]	D <sub>f</sub> [Inches] and EDP number			Opt. RPM	Max. RPM	
				.004	.006	.010			

#### Carbon steel wire

1/4	5/32	2	6	-	83420	-	500-1,500	2,500	10
3/8	5/32	2	6	-	83422	-	500-1,500	2,500	10
1/2	5/32	2	6	83423	83424	83425	500-1,500	2,500	10
5/8	5/32	2	6	-	83427	83428	500-1,500	2,500	10
3/4	1/4	2-1/2	5-1/2	-	83430	83432	500-1,500	2,500	10
7/8	1/4	2-1/2	5-1/2	-	83434	83435	500-1,500	2,500	10
1	1/4	2-1/2	5-1/2	-	83436	83437	500-1,500	2,500	10
1-1/4	1/4	2-1/2	5-1/2	-	83438	83439	500-1,500	2,500	10

#### Stainless steel wire (INOX)

1/2	5/32	2	6	83440	83441	-	500-1,500	2,500	10
5/8	5/32	2	6	-	-	83443	500-1,500	2,500	10
3/4	1/4	2-1/2	5-1/2	-	83445	83446	500-1,500	2,500	10
7/8	1/4	2-1/2	5-1/2	-	83447	83448	500-1,500	2,500	10
1	1/4	2-1/2	5-1/2	-	83449	83450	500-1,500	2,500	10

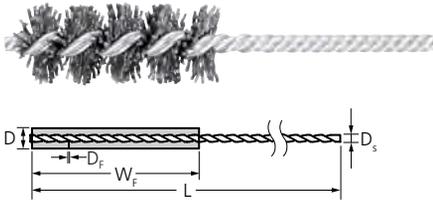
#### Brass wire

5/8	5/32	2	6	-	83460	-	500-1,500	2,500	10
3/4	1/4	2-1/2	5-1/2	-	83461	-	500-1,500	2,500	10
7/8	1/4	2-1/2	5-1/2	-	83462	-	500-1,500	2,500	10
1	1/4	2-1/2	5-1/2	-	83463	-	500-1,500	2,500	10



# Tube brushes

## Power tube brushes



### Double stem, single spiral

Heavy-duty power tube brush with M-BRAD® nylon abrasive filament, excellent for conditioning internal bore holes as well as cleaning threads and burrs at cross-holes.

#### Advantages:

Side action removes sharp edges and corners.  
Cutting action will not alter bore hole geometry.

#### Safety notes

For safe operation, ensure that brush face is inserted into the workpiece prior to operation.

D [Inches]	D <sub>s</sub> [Inches]	W <sub>f</sub> [Inches]	L [Inches]	D <sub>f</sub> [Inches]/Grit size and EDP number			
				.022/320	.040/120	.040/80	
<b>M-BRAD® nylon abrasive filament, silicon carbide SiC</b>							
1/4	5/32	2	5	84011	-	-	10
5/16	5/32	2	5	84012	-	-	10
3/8	5/32	2	5	84013	-	-	10
7/16	5/32	2	5	84014	-	-	10
1/2	3/16	2	5	84018	-	-	10
5/8	7/32	2	5	84022	-	-	10
3/4	1/4	2-1/2	5-1/2	84027	84025	84024	10
1	1/4	2-1/2	5-1/2	84043	84041	84040	10
1-1/4	1/4	2-1/2	5-1/2	-	84050	-	10
1-1/2	1/4	2-1/2	5-1/2	84057	84055	-	10
1-3/4	1/4	2-1/2	5-1/2	84062	84060	84059	10
2	1/4	2-1/2	5-1/2	84066	84064	-	10



### Microabrasive tube brushes

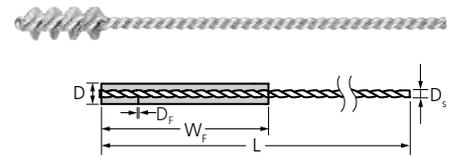
M-BRAD® abrasive filament with fine grit for surface conditioning and light deburring applications.

#### Advantages:

Will not alter critical dimensions or hole geometry.  
Ideal for work on high-tolerance parts.

#### Safety notes

For safe operation, ensure that brush face is inserted into the workpiece prior to operation.



D [Inches]	D <sub>s</sub> [Inches]	W <sub>f</sub> [Inches]	L [Inches]	For hole diameter			D <sub>r</sub> [Inches] and EDP number	
				[Inches (fraction)]	[Inches (decimal)]	[mm]		
							.006	

#### M-BRAD® nylon abrasive filament, aluminum silicate, 2,000 grit

.030	.015	1/2	4	1/32	0.029	0.787	84071	10
.050	.022	1/2	4	3/64	0.047	1.191	84072	10
.075	.033	3/4	4	1/16	0.063	1.588	84073	10
.090	.041	3/4	4	5/64	0.078	1.984	84074	10
.105	.041	1	4	3/32	0.094	2.381	84075	10
.125	.064	1	4	7/64	0.109	2.778	84076	10
.135	.075	1	4	1/8	0.125	3.175	84077	10

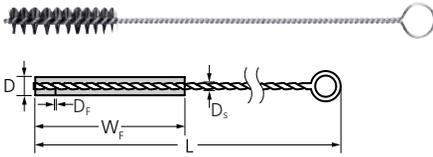
#### M-BRAD® nylon abrasive filament, aluminum oxide A, 600 grit

.165	.087	1	5	5/32	0.156	3.962	84078	10
.190	.087	1	5	3/16	0.188	4.763	84079	10
.260	.115	1	5	1/4	0.250	6.350	84080	10
.325	.115	1	5	5/16	0.313	7.938	84081	10
.385	.147	1	5	3/8	0.375	9.525	84082	10
.515	.168	1	5	1/2	0.500	12.700	84083	10
.640	.168	1	5	5/8	0.625	15.870	84084	10



# Tube brushes

## Power tube brushes



### Loop handle tube brushes

For light cleaning and deburring work on threaded holes or recesses, such as keyways.

#### Advantages:

Single-stem, single-spiral brushes offer high flexibility, conforming to threads and contours.  
 Loop handle enables manual use, and can be cut off for use in power tools.  
 Versatile use on drills, drill presses, and other collet-equipped power tools.

#### Safety notes

For safe operation, ensure that brush face is inserted into the workpiece prior to operation.

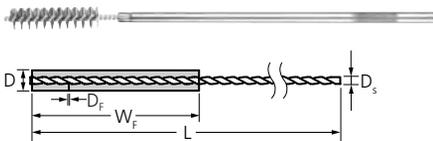
D [Inches]	D <sub>s</sub> [Inches]	W <sub>f</sub> [Inches]	L [Inches]	D <sub>f</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
				.006			

#### Carbon steel wire

1/4	.12	1-1/2	7	89564	500–2,500	2,500	12
3/8	.12	2	8	89565	500–2,500	2,500	12
1/2	.17	2	8	89566	500–2,500	2,500	12

#### Stainless steel wire (INOX)

3/16	.09	1-1/2	7	89568	500–2,500	2,500	12
1/4	.12	1-1/2	8	89569	500–2,500	2,500	12
3/8	.12	2	8	89570	500–2,500	2,500	12
1/2	.17	2	8	89571	500–2,500	2,500	12



### Valve guide brushes

Very stiff brushes designed for aggressive cleaning action in deep holes.

#### Advantages:

Metal sleeve construction ensures stable operation without bending.  
 Includes knurled handle for manual use.

#### Safety notes

For safe operation, ensure that brush face is inserted into the workpiece prior to operation.

D [Inches]	D <sub>s</sub> [Inches]	W <sub>f</sub> [Inches]	L [Inches]	D <sub>f</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
				.006			

#### Carbon steel wire

1/4	1/4	2	10	83465	500–2,500	2,500	10
5/16	1/4	2	10	83466	500–2,500	2,500	10
11/32	1/4	2	10	83467	500–2,500	2,500	10
3/8	1/4	2	10	83468	500–2,500	2,500	10
7/16	1/4	2	10	83469	500–2,500	2,500	10
1/2	1/4	2	10	83470	500–2,500	2,500	10

### Threaded tube brushes for flexible shafts

Designed for cleaning inside surfaces of tubes, pipes, and pipe bends.

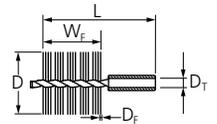
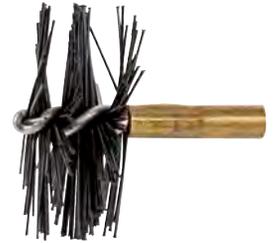
#### Advantages:

Designed with 100% non-ferrous components, ideal for contaminant-free work in the pharmaceutical and food service industries.

Nylon filament will not scratch the ID of the workpiece.

#### Safety notes

For safe operation, ensure that brush face is inserted into the workpiece prior to operation.



D		W <sub>F</sub> [Inches]	L [Inches]	D <sub>T</sub> [Inches]	For pipe I.D. [Inches]	D <sub>F</sub> [Inches] and EDP number .018	Opt. RPM	Use with flexible shaft [EDP]	Use with threaded adapter [EDP]	
[Inches]	[mm]									
<b>Nylon filament</b>										
1	25	1/2	1-5/16	8-32	3/4	84430	750–2,000	94264, 94274	95810, 95811	10
1-1/4	32	1/2	1-5/16	8-32	1	84432	750–2,000	94264, 94274	95810, 95811	10
1-3/4	44	1/2	1-5/16	8-32	1-1/2	84434	750–2,000	94264, 94274	95810, 95811	10
2-1/4	57	1/2	1-5/16	8-32	2	84436	750–2,000	94264, 94274	95810, 95811	10
2-3/4	69	1/2	1-5/16	8-32	2-1/2	84438	750–2,000	94264, 94274	95810, 95811	10
3-1/4	82	1/2	1-5/16	8-32	3	84440	750–2,000	94264, 94274	95810, 95811	10



Threaded adapters are necessary to mount the tube brush to the female-threaded end of the special flexible shaft. Please see catalogue section 9, page 56 for additional product information.



# INOX-TOTAL

## General information

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

Further information about working with stainless steel (INOX) and PFERD INOX-TOTAL brushes can be found on page 11.

### Advantages:

Optimum protection against corrosion as all components are produced from stainless steel (INOX) in quality 302.

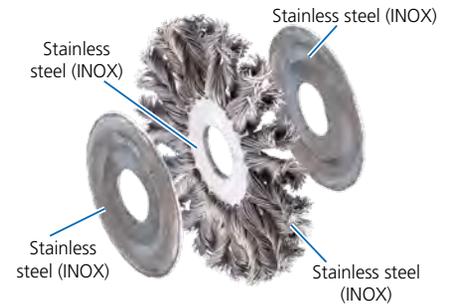
### Industries:

Pharmaceutical and medical industries  
Foodstuff industry  
Nuclear industry

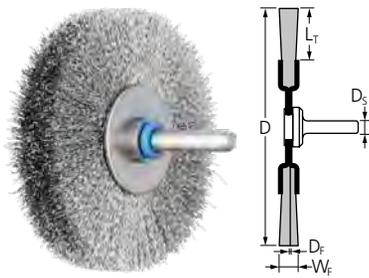


More PFERD products and many valuable recommendations for working with stainless steel (INOX) can be found in our PRAXIS brochure "PFERD tools for use on stainless steel (INOX)". Please contact us for further details.

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



## Stem mounted wheel brushes



### Crimped

Designed for use in confined areas. They are best suited for brushing uneven surfaces and areas inaccessible to wider brushes. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burs.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.

#### Recommendations for use:

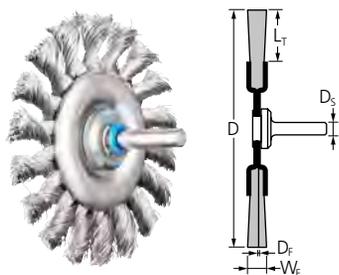
Designed for use on straight grinders.

D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>f</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
				.008			

#### Stainless steel wire (INOX)

All INOX-TOTAL brushes are degreased.

2	1/4	3/4	5/8	82744	6,000–9,000	12,000	10
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### Knot, standard twist

This brush features knots that are twisted approximately 75% of the trim length. The loosely-twisted knots cover a larger surface area and are ideal for heavy-duty cleaning and surface conditioning on uneven surfaces. For weld cleaning, weld spatter removal, scale removal.

#### Advantages:

Loosely-twisted knots cover a large surface area.  
Good balance between aggressiveness and flexibility.

#### Safety notes:

Please note: Brush stem diameter is 6 mm.  
Not for use in 1/4" collets.

D [Inches]	D <sub>s</sub> [mm]	No. knots [pcs]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>f</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
					.012			

#### Stainless steel wire (INOX)

All INOX-TOTAL brushes are degreased.

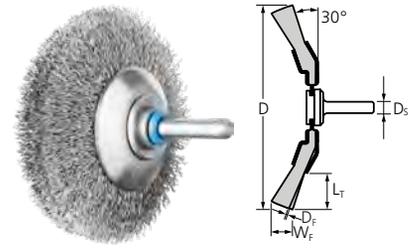
3	6	18	5/8	1/4	82743	10,000–16,000	25,000	10
---	---	----	-----	-----	-------	---------------	--------	----

### Crimped

Designed for use in confined areas. They are best suited for brushing uneven surfaces and areas inaccessible to wider brushes. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion, and light burrs.

#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.



D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
				.010			

#### Stainless steel wire (INOX)

All INOX-TOTAL brushes are degreased.

2-3/4	1/4	5/8	3/8	82745	6,000–9,000	12,000	10
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## Unthreaded wheel brushes

### COMBITWIST® knot

These brushes feature tightly twisted knots for low flex, high impact brushing action.

Full cable twist is ideal for tough brushing applications.

Stringer bead twist features most aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction.

For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

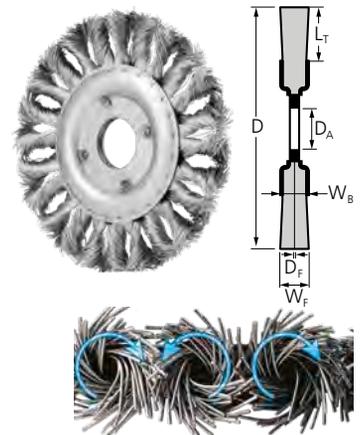
#### Advantages:

Tightly-twisted knots result in very aggressive brushing action. COMBITWIST® knot construction results in improved balance, reduced vibration, extended service life and increased aggressiveness.

#### Recommendations for use

For best results, use on high-power angle grinders.

#### PFERDVALUE®:



D [Inches]	D <sub>A</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
					.014	.020		

#### Stainless steel wire (INOX) – full cable twist

All INOX-TOTAL brushes are degreased.

4-1/2	7/8	24	7/8	1/2	82741	-	5,000–12,500	12,500	1
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#### Stainless steel wire (INOX) – stringer bead twist

All INOX-TOTAL brushes are degreased.

4-1/2	7/8	36	7/8	1/4	-	82742	5,000–12,500	12,500	1
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# Diamond brushes

## Diamond coated wire

Industrial grade diamond grit is electroplated onto knotted stainless steel wire strands. Designed for scale and surface contaminant removal on localized and hard-to-reach areas.

### Advantages:

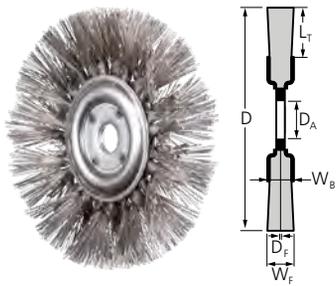
Stainless steel (INOX) wire will not contaminate workpiece.  
All diamond coated wire brushes are degreased for contaminant-free use.

### Applications:

Heavy duty surface conditioning applications.  
Removing mill scale.  
Blending machining marks.  
Generating distinct scratch patterns.



## Knot wire wheel brushes



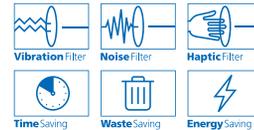
### Standard twist

This brush features extended knot flag length, providing flexibility on uneven surfaces and complex geometries.

#### Advantages:

Loosely-twisted knots cover a large surface area.  
Good balance between aggressiveness and flexibility.  
Designed for use on common bench grinders and stationary machines.

#### PFERDVALUE®:

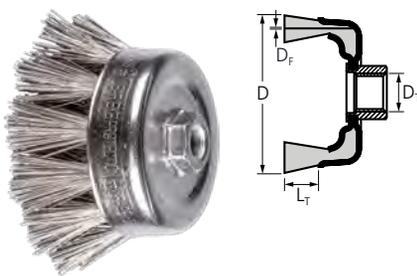


D [Inches]	D <sub>A</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] .020, grit size and EDP number		Opt. RPM	Max. RPM	
				270 (coarse)	400 (fine)			

#### Stainless steel wire (INOX), Diamond (DIA)

7-1/2	1-1/4	24	2	84354	84355	1,000–2,000	8,000	1
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## Knot cup brushes



### Standard twist

This brush features extended knot flag length, providing flexibility on uneven surfaces and complex geometries.

#### Advantages:

Loosely-twisted knots cover a large surface area.  
Good balance between aggressiveness and flexibility.  
Designed for use on variable speed right angle grinders.

D [Inches]	D <sub>T</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] .020, grit size and EDP number		Opt. RPM	Max. RPM	
				270 (coarse)	400 (fine)			

#### Stainless steel wire (INOX), Diamond (DIA)

2-3/4	5/8-11	18	1-5/8	84352	84353	1,000–2,800	11,000	1
4	5/8-11	24	1-1/2	84348	84349	1,000–2,400	9,000	1

### Crimped wheel

The polycrystalline diamond M-BRAD® brush line is designed for honing and surface conditioning applications on hard materials. Honing of cutting tools made of cemented carbide as well as Cermets (Ceramic+Metal composites) are the most popular applications for diamond M-BRAD® brushes.

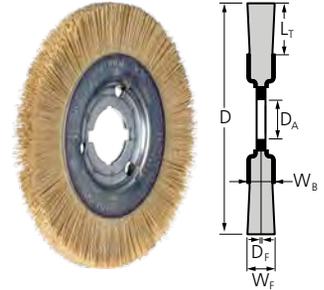
#### Advantages:

Precise, consistent and repeatable honing geometry control.  
 Honing and surface conditioning results without the use of diamond paste/slurry.  
 Diamond M-BRAD® brushes can be conveniently mounted on standard shop tools.

#### Recommendations for use

Designed for use on stationary machines.

#### PFERDVALUE®:



D [Inches]	D <sub>A</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	Incl. keyway [Inches]	D <sub>F</sub> [Inches]/Grit size and EDP number	Opt. RPM	Max. RPM	Adapter style	
							.010/600			

#### M-BRAD® nylon abrasive filament, Diamond grain DIA

4	5/8	3/4	1/2	1/2	-	84325	2,000–5,000	12,000	D	1
6	1-1/4	1-1/8	1/2	1/2	1/4 x 1/8	84323	1,000–3,500	6,000	A	1
8	2	1-1/2	1/2	1/2	1/2 x 1/4	84322	900–1,500	4,500	-	1

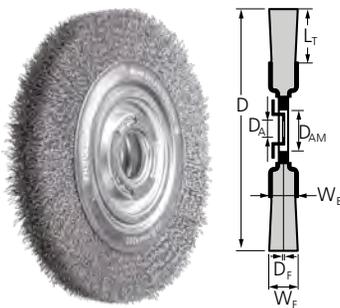


# Universal line brushes

## Unthreaded wheel brushes



PFERD's Universal line contains a selection of the most popular brush sizes and styles used by tradesmen. The offering includes abrasive filament as well as crimped and knot style radial, cup, end and scratch brushes. The design of these brushes is tailored for power tools that are frequently found on contractor jobsites such as drills, angle grinders, die grinders and bench grinders.



### Crimped wire

Designed for individual use in confined areas, or mounted on a shaft. They are best suited for brushing uneven surfaces and areas inaccessible to wider brushes. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.



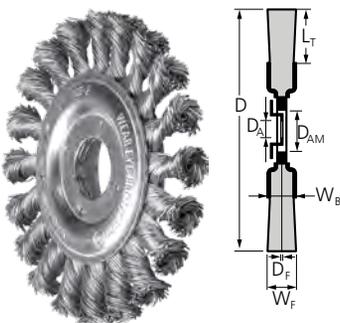
#### Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.
- Can be gang-mounted for wide face use.

#### Ordering note:

All Medium face crimped wheel brushes are supplied with metal adapters that reduce the 2" AH to 1-1/4" AH. In addition a selection of plastic reducing adapters are also included in every box.

D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM		
							.014			
<b>Carbon steel wire, narrow face</b>										
6	5/8	1-1/4	5/8	5/8	1/2	764206	4,000–6,000	6,000	5	
<b>Carbon steel wire, medium face</b>										
6	2	1-1/4	1-1/4	1-1/4	1-1/4	764190	3,000–4,500	6,000	5	
8	2	1-1/4	1-1/4	1-1/4	1-1/4	764213	2,300–3,400	4,500	5	



### Knot wire, full cable twist

This brush features tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.



#### Advantages:

- Tightly-twisted knots result in very aggressive brushing action.

#### Ordering note:

Please refer to page 9 for ANSI recommended arbor hole mounting requirements. Please see page 78 for a complete listing of drive arbors and adapters.

D [Inches]	D <sub>AM</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	W <sub>B</sub> [Inches]	D <sub>A</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM		
							.014			
<b>Carbon steel wire</b>										
6	5/8	1-1/4	3/8	1/2	1/2	763988	4,500–6,500	9,000	5	

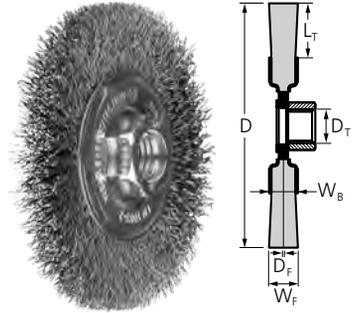
### Crimped wire

Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.



**Advantages:**

Highly flexible, enabling optimal adjustment to workpiece contours.  
Designed for use on 4-1/2" and 5" right angle grinders.



D [Inches]	D <sub>T</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
				.014			
<b>Carbon steel wire</b>							
4	5/8-11	7/8	5/8	<b>764145</b>	6,000–12,500	12,500	<b>5</b>

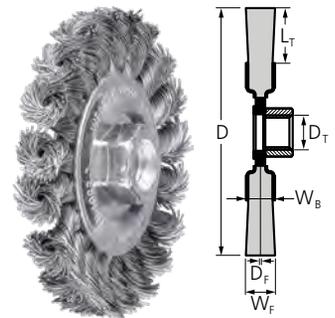
### Knot wire, full cable twist

These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.



**Advantages:**

Tightly-twisted knots result in very aggressive brushing action.



D [Inches]	D <sub>T</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
				.020			
<b>Carbon steel wire</b>							
4	5/8-11	3/4	5/8	<b>763926</b>	10,000–15,000	20,000	<b>5</b>
6	5/8-11	1	1/2	<b>764008</b>	4,500–9,000	9,000	<b>5</b>

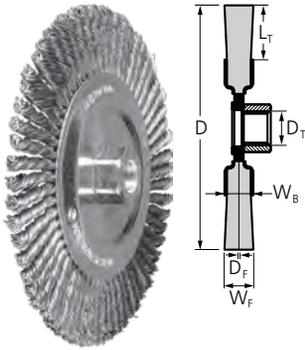


The box quantity and EDP of POP items are printed in "blue".



# Universal line brushes

## Threaded wheel brushes



### Knot wire, stringer bead twist

Most aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction.



#### Advantages:

Narrow face width enables optimal access to hard-to-reach areas such as root weld seams.

#### Ordering note:

Box quantity of 10 indicates bulk-packed items without individual POP packaging. Universal line brushes with box quantity less than 10 pieces are shipped in individual clamshell packaging as shown.

D [Inches]	D <sub>T</sub> [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
				<b>.020</b>			
<b>Carbon steel wire</b>							
4	5/8-11	3/4	1/4	<b>763940</b>	10,000–15,000	20,000	<b>5</b>
				143438	10,000–15,000	20,000	10
6	5/8-11	1-1/4	1/4	<b>764015</b>	4,500–9,000	9,000	<b>5</b>
				144404	4,500–9,000	9,000	10
6-7/8	5/8-11	1-3/8	1/4	<b>764039</b>	4,500–9,000	9,000	<b>5</b>
<b>Stainless steel wire (INOX)</b>							
4	5/8-11	3/4	1/4	<b>763957</b>	10,000–15,000	20,000	<b>5</b>
				145401	10,000–15,000	20,000	10
6	5/8-11	1-1/4	1/4	<b>764022</b>	4,500–9,000	9,000	<b>5</b>



The box quantity and EDP of POP items are printed in "blue".



Thread adapters to adapt 5/8-11 threaded wheels to other common grinder spindles are available, please see page 79 for information.



For tools specially suited to pipeline construction, see the brochure "PFERD tools for pipeline construction".



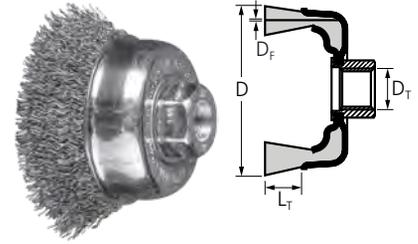
### Crimped wire

Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.



**Advantages:**

Highly flexible, enabling optimal adjustment to workpiece contours.  
Designed for use on right angle grinders.



D [Inches]	D <sub>T</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
			.014	.020			
<b>Carbon steel wire</b>							
2-3/4	5/8-11	7/8	<b>763889</b>	-	7,000–12,500	12,500	<b>5</b>
3-1/2	5/8-11	7/8	<b>764091</b>	<b>764107</b>	6,000–12,000	12,000	<b>5</b>

### Knot wire, full cable twist

These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

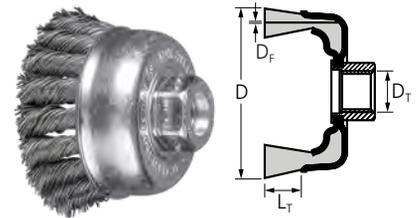


**Advantages:**

Tightly-twisted knots result in very aggressive brushing action.

**Ordering notes:**

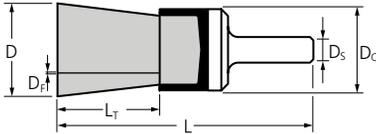
Box quantity of 10 indicates bulk-packed items without individual POP packaging. Universal line brushes with box quantity less than 10 pieces are shipped in individual clamshell packaging as shown.



D [Inches]	D <sub>T</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
			.014	.020			
<b>Carbon steel wire</b>							
2-3/4	5/8-11	3/4	<b>764237</b>	<b>764251</b>	7,000–12,500	12,500	<b>5</b>
			-	145463	7,000–12,500	12,500	10
3-1/2	5/8-11	3/4	-	<b>763865</b>	5,500–11,000	11,000	<b>5</b>
			<b>763896</b>	-	4,500–9,000	9,000	<b>2</b>
5	5/8-11	1-1/8	<b>763971</b>	-	3,500–7,000	7,000	<b>2</b>
<b>Stainless steel wire (INOX)</b>							
2-3/4	5/8-11	3/4	<b>764244</b>	<b>764268</b>	7,000–12,500	12,500	<b>5</b>
			-	145586	7,000–12,500	12,500	10

# Universal line brushes

## End brushes



### Crimped wire

Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.



#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.  
Designed for use on straight grinders

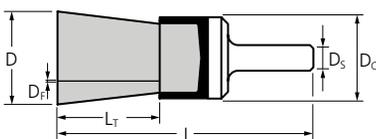
#### Ordering notes:

Box quantity of 10 indicates bulk-packed items without individual POP packaging. Universal line brushes with box quantity less than 10 pieces are shipped in individual clamshell packaging as shown.

D [Inches]	Ds [Inches]	Lf [Inches]	Df [Inches] and EDP number		Opt. RPM	Max. RPM	
			.014	.020			
<b>Carbon steel wire</b>							
3/4	1/4	1	<a href="#">764411</a>	-	10,000–15,000	20,000	<b>5</b>
1	1/4	1	<a href="#">764442</a>	<a href="#">764459</a>	10,000–15,000	20,000	<b>5</b>
			-	145920	8,000–11,000	20,000	10

### Stainless steel wire (INOX)

3/4	1/4	1	<a href="#">764435</a>	-	10,000–15,000	20,000	<b>5</b>
1	1/4	1	-	<a href="#">764466</a>	10,000–15,000	20,000	<b>5</b>



### Knot wire

These brushes feature tightly twisted knots for low flex, high impact brushing action. Ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.



#### Advantages:

Tightly-twisted knots result in very aggressive brushing action.  
Easily-controlled flare of knots makes this brush ideal for cleaning pipe and tube internal diameters.

#### Ordering notes:

Box quantity of 10 indicates bulk-packed items without individual POP packaging. Universal line brushes with box quantity less than 10 pieces are shipped in individual clamshell packaging as shown.

D [Inches]	Ds [Inches]	Lf [Inches]	Df [Inches] and EDP number		Opt. RPM	Max. RPM	
			.014	.020			
<b>Carbon steel wire</b>							
3/4	1/4	1	<a href="#">764350</a>	-	10,000–15,000	20,000	<b>5</b>
1	1/4	1	<a href="#">764398</a>	<a href="#">764374</a>	10,000–15,000	20,000	<b>5</b>
			-	145623	8,000–11,000	20,000	10

### Stainless steel wire (INOX)

3/4	1/4	1	<a href="#">764367</a>	-	10,000–15,000	20,000	<b>5</b>
1	1/4	1	<a href="#">764404</a>	<a href="#">764381</a>	10,000–15,000	20,000	<b>5</b>
			145876	-	8,000–11,000	20,000	10

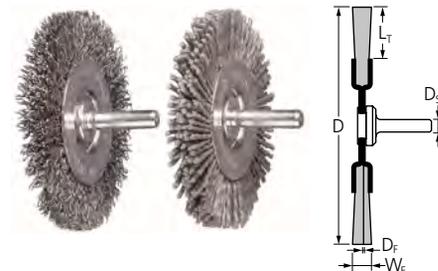
### Crimped wheel

Designed for use in confined areas. They are best suited for brushing uneven surfaces and areas inaccessible to wider brushes. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.



**Advantages:**

Highly flexible, enabling optimal adjustment to workpiece contours.



D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
			.012			

**Carbon steel wire**

2	1/4	1/2	<b>763872</b>	10,000–15,000	20,000	<b>5</b>
3	1/4	3/8	<b>764084</b>	10,000–15,000	20,000	<b>5</b>

D [Inches]	D <sub>A</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches]/Grit size and EDP number	Opt. RPM	Max. RPM	
			.040/120			

**M-BRAD® nylon abrasive filament, silicon carbide SiC**

3	1/4	3/4	<b>763841</b>	1,500–4,500	4,500	<b>5</b>
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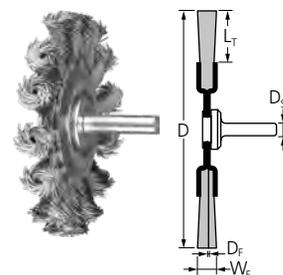
### Knot wire, full cable twist

These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.



**Advantages:**

Tightly-twisted knots result in very aggressive brushing action.



D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
			.014			

**Carbon steel wire**

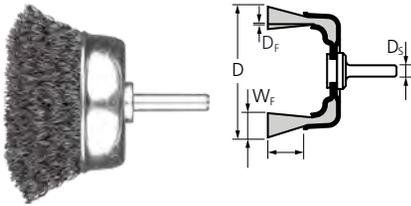
3	1/4	3/4	<b>764275</b>	12,500–18,700	25,000	<b>5</b>
4	1/4	7/8	<b>763933</b>	10,000–15,000	20,000	<b>5</b>



The box quantity and EDP of POP items are printed in "blue".

# Universal line brushes

## Stem mounted brushes



### Crimped cup

Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.



#### Advantages:

Highly flexible, enabling optimal adjustment to workpiece contours.

D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
			.014			

#### Carbon steel wire

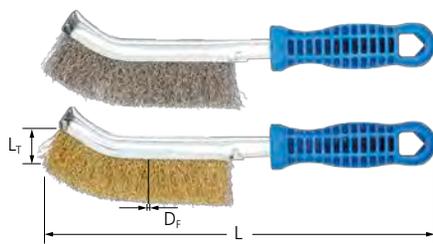
2	1/4	3/4	<b>763858</b>	6,500–10,000	13,000	<b>5</b>
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D [Inches]	D <sub>s</sub> [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches]/Grit size and EDP number	Opt. RPM	Max. RPM	
			.040/120			

#### M-BRAD® nylon abrasive filament, silicon carbide SiC

3	1/4	3/4	<b>763834</b>	1,500–4,500	4,500	<b>5</b>
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## Scratch brushes



### Metal scratch brushes, plastic grip handle

Quality scratch brushes for maintenance applications. For removal of rust, paint, scale, and debris.



#### Advantages:

Ergonomic plastic-grip handle for improved comfort.

#### Ordering notes:

All metal scratch brushes are shipped in individual clamshell packaging as shown.

Wire rows	L <sub>T</sub> [Inches]	L [Inches]	D <sub>f</sub> [Inches] and EDP number	
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#### Carbon steel wire

1	5	10	<b>764077</b>	<b>10</b>
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#### Stainless steel wire (INOX)

1	5	10	<b>764282</b>	<b>10</b>
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#### Brass wire

1	5	10	<b>764060</b>	<b>10</b>
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The box quantity and EDP of POP items are printed in "blue".

With the BOSCH X-LOCK system for angle grinders, you can change brushes quickly and comfortably. Instead of a round centre hole, the X-LOCK system features an X-shaped contour, which allows the brush to be fixed on the angle grinder in a form-fitting manner. This guarantees that different brushes can be mounted securely and comfortably in the shortest possible time. The unique system meets the highest quality and safety standards and even withstands tough and challenging operating conditions.



### Advantages:

- Quick and comfortable brush changes.
- Brushes are fixed securely since they audibly click into place.
- X-LOCK products, with the exception of cup brushes, can be used on conventional angle grinders with 7/8" flange.

### Recommendations for use:

Place the brush on the X-LOCK quick-change system of your angle grinder and secure it by lightly pressing it down. The brush will audibly click into place.



### How it works:



Place the brush on the X-LOCK holder in a form-fitting manner.



Lightly press the brush down until it audibly clicks into place.



Release the brush by using the lever.

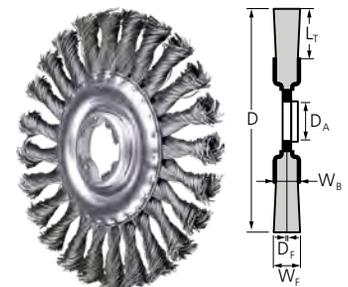
## Knot wheel brushes

### Standard twist

This brush features knots that are twisted approximately 75% of the trim length. The loosely-twisted knots cover a larger surface area and are ideal for heavy-duty cleaning and surface conditioning on uneven surfaces. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

- Loosely-twisted knots cover a large surface area.
- Good balance between aggressiveness and flexibility.



D [Inches]	D <sub>A</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>f</sub> [Inches] and EDP number	Opt. RPM	Max. RPM	
					.014			

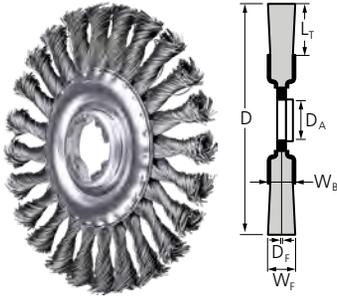
#### Carbon steel wire

4	X-LOCK (7/8)	22	7/8	5/8	<b>80705</b>	10,000–15,000	20,000	<b>1</b>
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#### Stainless steel wire (INOX)

All X-LOCK INOX brushes are degreased.

4	X-LOCK (7/8)	22	7/8	5/8	<b>80422</b>	8,000–15,000	20,000	<b>1</b>
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### Full cable twist

These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

Tightly-twisted knots result in very aggressive brushing action.

D [Inches]	D <sub>A</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
					.014	.020			

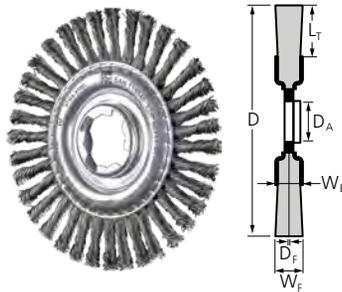
#### Carbon steel wire

4	X-LOCK (7/8)	22	3/4	1/2	<b>80706</b>	<b>80707</b>	10,000–15,000	20,000	<b>1</b>
4-1/2	X-LOCK (7/8)	24	7/8	1/2	-	<b>80708</b>	6,300–12,500	12,500	<b>1</b>
4-7/8	X-LOCK (7/8)	24	1-1/16	1/2	-	<b>80709</b>	6,300–12,500	12,500	<b>1</b>

#### Stainless steel wire (INOX)

All X-LOCK INOX brushes are degreased.

4-1/2	X-LOCK (7/8)	24	7/8	1/2	-	<b>80423</b>	5,000–12,500	12,500	<b>1</b>
4-7/8	X-LOCK (7/8)	24	1-1/16	1/2	-	<b>80424</b>	5,000–12,500	12,500	<b>1</b>



### Stringer bead twist

Most aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction.

#### Advantages:

Narrow face width enables optimal access to hard-to-reach areas such as root weld seams.

D [Inches]	D <sub>A</sub> [Inches]	Knots [pcs.]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
					.020				

#### Carbon steel wire

4	X-LOCK (7/8)	32	3/4	3/16	<b>80710</b>		10,000–15,000	20,000	<b>1</b>
4-1/2	X-LOCK (7/8)	32	1	3/16	<b>80711</b>		6,300–12,500	12,500	<b>1</b>
4-7/8	X-LOCK (7/8)	38	3/4	3/16	<b>80412</b>		6,300–12,500	12,500	<b>1</b>

#### Stainless steel wire (INOX)

All X-LOCK INOX brushes are degreased.

4	X-LOCK (7/8)	32	3/4	3/16	<b>80425</b>		8,000–15,000	20,000	<b>1</b>
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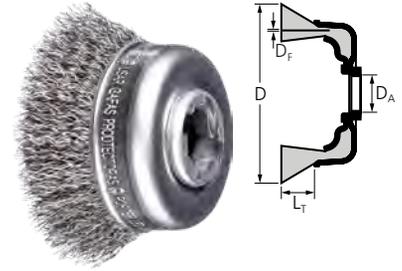
The box quantity and EDP of POP items are printed in "blue".

### Crimped Cup

Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

#### Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.
- Designed for use on right angle grinders.



D [Inches]	D <sub>A</sub>	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
			.012				
<b>Carbon steel wire</b>							
3	X-LOCK	7/8	80715		6,300–9,400	12,500	1
<b>Stainless steel wire (INOX)</b>							
All X-LOCK INOX brushes are degreased.							
3	X-LOCK	7/8	80427		5,000–8,100	12,500	1

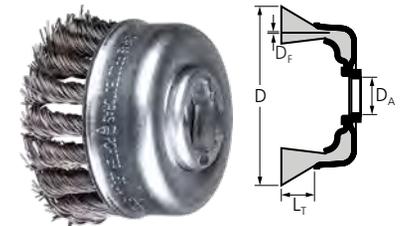
### Knot cup brushes

#### Single row, full cable twist

These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

#### Advantages:

- Tightly-twisted knots result in very aggressive brushing action.
- Internal nut results in reduced operator fatigue and improved control.



D [Inches]	D <sub>A</sub>	Knots [pcs.]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches] and EDP number		Opt. RPM	Max. RPM	
				.014	.020			
<b>Carbon steel wire</b>								
2-3/4	X-LOCK	18	3/4	80716	80717	6,300–12,500	12,500	1
3	X-LOCK	20	3/4	-	80718	5,000–10,000	11,500	1
<b>Stainless steel wire (INOX)</b>								
All X-LOCK INOX brushes are degreased.								
2-3/4	X-LOCK	18	3/4	80428	80429	5,000–12,500	12,500	1
3	X-LOCK	20	3/4	-	80430	4,000–10,000	11,500	1



# Power brush accessories

## Drive arbors and adapters

### Arbor hole adapters

Various sizes and shapes for reducing arbor hole size of wheel brushes.

#### Advantages:

Allows brushes to be adapted to most machines.



Fits brush arbor hole [Inches]	Brush keyways	Adapter tl.D. [Inches]	Keyways in adapter [Inches]	EDP number	
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#### Style A

1-1/4	1/4 x 1/8 (2)	1/2	1/8 x 3/32 (2)	84605	1 pair
		5/8	3/16 x 1/8 (2)	84606	1 pair
		3/4	3/16 x 1/8 (2)	84607	1 pair
		7/8	3/16 x 1/8 (2)	84608	1 pair
		1	1/4 x 5/32 (2)	84609	1 pair

#### Style C

2	None	1/2	None	84628	1 pair
		5/8	None	84629	1 pair
		3/4	None	84630	1 pair
		7/8	None	84631	1 pair
		1	None	84632	1 pair
		1-1/4	None	84633	1 pair
		1-1/2	None	84634	1 pair

#### Style D

3/8	None	1/4	None	84600	10 pcs.
1/2	None	1/4	None	84601	10 pcs.
		3/8	None	84602	10 pcs.
5/8	None	1/2	None	84603	10 pcs.

#### Style E

2	None	1, 3/4, 5/8, 1/2	None	84615	1 pc.
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#### Style F

5/8	None	1/2	None	84636	10 pcs.
		3/8	None	84637	10 pcs.
		1/4	None	84638	10 pcs.
1/2	None	3/8	None	84639	10 pcs.
		1/4	None	84640	10 pcs.
3/8	None	1/4	None	84641	10 pcs.

#### Style G

4-1/4	None	2	1/2 x 1/4 (2)	84670	1 pair
5-1/4	None	2	1/2 x 1/4 (2)	84671	1 pair

Fits brush arbor hole [Inches]	Brush keyways	Adapter tl.D. [Inches]	Keyways in adapter [Inches]	EDP number	
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**Style H**

1-1/4	1/4 x 1/8 (2)	3/4	3/16 x 1/8 (2)	84612	1 pr.
		7/8	3/16 x 1/8 (2)	84613	1 pr.
		1	3/16 x 1/8 (2)	84614	1 pr.



**Style K**

2	None	1-1/4, 1, 7/8, 3/4, 5/8, 1/2	None	84665	1 pcs.
		1-1/4, 20 mm, 18 mm, 14 mm, 12 mm	None	84666	1 pcs.



**Thread adapters**

Machined metal components for accurate fit.

**Advantages:**

Allows threaded brushes to be adapted to common thread sizes.



Fits brush thread [UNC]	Fits tool spindle thread [UNC]	EDP number	
5/8-11	M10x1.25	84645P	5/5
	M10x1.50	84646P	5/5
	3/8-24	84647P	5/5

# Power brush accessories

## Drive arbors and adapters

### Drive arbors for wheel brushes

Used to mount brushes with arbor hole on collet-equipped machines.

#### Chuck type

Countersunk head tightening-screw fits into a recessed flange washer for locking power. Allows brushes to reach edges without interference from arbor overhang. Change brush without removing arbor from collet. Unthreaded shoulder.



#### Flat head type

Brush mounts between a single washer and the flat head. Locked in place with a reverse-threaded nut. Allows the brush to be close to the workpiece. Threaded shoulder.



#### Nut type

Nut can be removed to replace worn brush while arbor stem remains in chuck.



Fits brush ID [Inches]	Clamping width [Inches]	Shank dia. D <sub>s</sub> [Inches]	Head/flange dia. [Inches]	Overall length [Inches]	EDP number	
<b>Chuck type</b>						
1/4	3/16 to 3/8	1/4	9/16	2-1/8	84650	5
3/8	3/16 to 3/8	1/4	11/16	2-1/8	84651	5
1/2	3/16 to 3/8	1/4	3/4	2-1/8	84652	5
<b>Flat head type</b>						
3/8	0 to 1/2	1/4	3/4	1-5/8	84654	5
1/2	0 to 1/2	1/4	15/16	1-7/8	84655	5
1/2, 5/8	1/8 to 1/2	1/4	15/16	1-7/8	84656	5
<b>Nut type</b>						
1/4	Up to 7/8	1/4	5/8	2-1/2	84657	5
3/8	Up to 7/8	1/4	3/4	2-1/2	84658	5
1/2	Up to 1/4	1/4	7/8	1-3/4	84659	5

Use spindle extensions, EDP 95826, for longer reach. See catalogue section 9, page 64 for details.

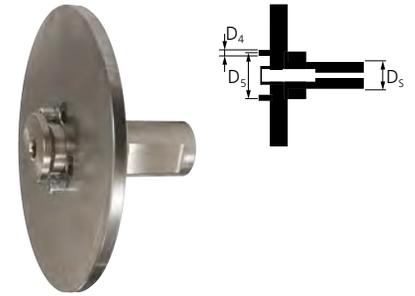


### Drive arbors for M-BRAD® disc brushes

For mounting composite disc brushes on automated deburring equipment.

**Advantages:**

- Supplied with through-spindle coolant channel.
- Included drive pins provide positive drive and reversability.

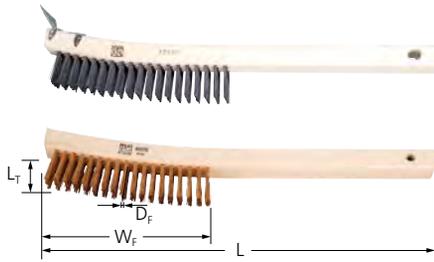


Recommended for brush diameter [Inches]	Shank diameter D <sub>5</sub> [Inches]	No. of drive pins	Drive pin dia. D <sub>4</sub> [Inches]	Bolt circle dia. D <sub>5</sub> [Inches]	EDP number	
<b>Shank dia. (D<sub>5</sub>) 3/4"</b>						
3-4	3/4	2	1/4	1-1/4	83982	1
5-6	3/4	2	1/4	1-1/4	83983	1
7-8	3/4	3	1/4	3	83984	1
9-10	3/4	3	1/4	3	83985	1
<b>Shank dia. (D<sub>5</sub>) 1"</b>						
3-4	1	2	1/4	1-1/4	83978	1
5-6	1	2	1/4	1-1/4	83979	1
7-8	1	3	1/4	3	83980	1
9-10	1	3	1/4	3	83981	1



# Maintenance brushes

## Scratch brushes



### Curved handle, hardwood

Quality scratch brushes for maintenance applications. For removal of rust, paint, scale, and debris.

#### Advantages:

Kiln-dried hardwood block keeps tufts firmly in place.

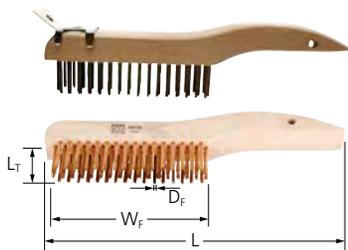
Wire rows	W <sub>F</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number			
				.012 carbon steel	.012 stainless steel	.010 bronze	

#### Without scraper

3 x 19	6-1/4	13-3/4 x 7/8	1-3/16	85002	85004	85005	12
4 x 19	6-1/4	13-3/4 x 1-1/8	1-3/16	85006	85008	85009	12

#### With scraper

3 x 19	6-1/4	13-3/4 x 7/8	1-3/16	85003	-	-	12
4 x 19	6-1/4	13-3/4 x 1-1/8	1-3/16	85007	-	-	12



### Shoe handle, hardwood

Quality scratch brushes for maintenance applications. For removal of rust, paint, scale, and debris.

#### Advantages:

Kiln-dried hardwood block keeps tufts firmly in place.

Wire rows	W <sub>F</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number			
				.012 carbon steel	.012 stainless steel	.010 bronze	

#### Without scraper

2 x 17	5	10 x 5/8	1-3/16	85030	85031	-	12
4 x 16	5	10-1/4 x 1-1/8	1-3/16	85033	85035	85036	12

#### With scraper

4 x 16	5	10-1/4 x 1-1/8	1-3/16	85034	-	-	12
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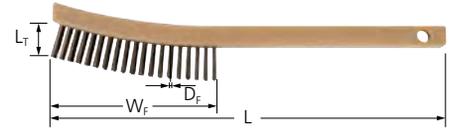


### Curved handle, synthetic

Quality scratch brushes for maintenance applications. For removal of rust, paint, scale, and debris.

**Advantages:**

Synthetic block will not splinter, crack, or rot.



Wire rows	W <sub>F</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number		
				.012 carbon steel	.012 stainless steel	
3 x 19	6-1/4	11 x 1-5/8	1-1/2	85012	85014	12
4 x 19	6-1/4	13-3/4 x 1-1/8	1-3/16	85016	85018	12

### Shoe handle, synthetic

Quality scratch brushes for maintenance applications. For removal of rust, paint, scale, and debris.

**Advantages:**

Synthetic block will not splinter, crack, or rot.



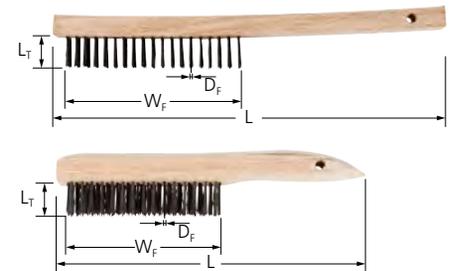
Wire rows	W <sub>F</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number		
				.012 carbon steel	.012 stainless steel	
4 x 16	5	10-1/4 x 1-1/8	1-3/16	85037	85039	12

### Economy line

Economy scratch brushes for maintenance applications. For removal of rust, paint, scale, and debris.

**Advantages:**

Value-priced brushes.



Wire rows	W <sub>F</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number		
				.012 carbon steel	.012 stainless steel	

**Curved handle**

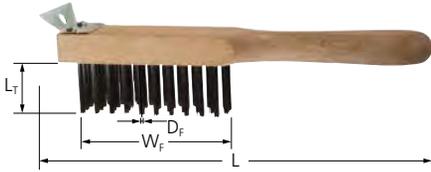
3 x 19	6	13-3/4 x 7/8	1-3/16	85045	85047	12
4 x 18	6	13-3/4 x 1	1-3/16	85048	85050	12

**Shoe handle**

4 x 16	5	10 x 1	1-3/16	85051	85053	12
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# Maintenance brushes

## Scratch brushes



### Straight handle with scraper

Heavy-duty scratch brush with scraper attachment.

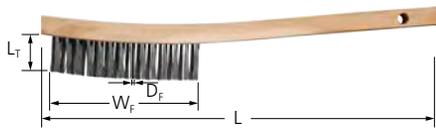
#### Advantages:

Scraper attachment for loosening especially difficult material.

Wire rows	W <sub>F</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number		
				.012 carbon steel		

#### With scraper

4 x 11	4-1/2	11 x 1-5/8	1-1/2	85071	12
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### V-Groove

Pointed brush face designed for full brushing contact in tight areas such as grooves and corners.

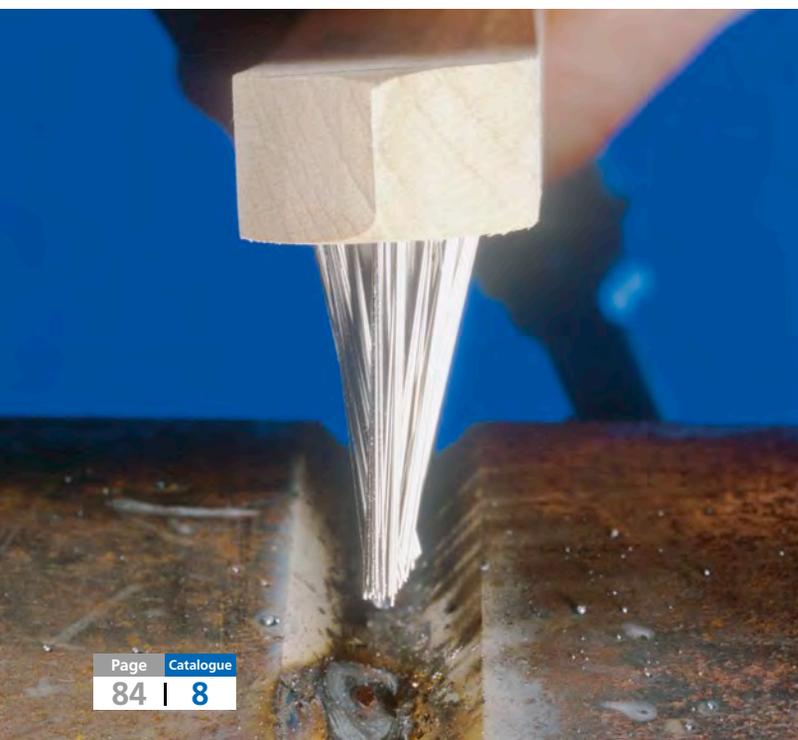
#### Advantages:

Kiln-dried hardwood block keeps tufts firmly in place  
Ideal for cleaning fillet welds due to specially-angled wire filament.

Wire rows	W <sub>F</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number		
				.012 carbon steel	.012 stainless steel	

#### Curved handle

3 x 14	5-1/4	13-3/4 x 1-1/8	1-1/2	85010	85011	12
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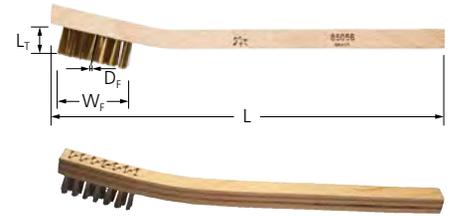


### Welder's toothbrush, wooden handle

Fine wire scratch brush with wooden block.

**Advantages:**

Excellent for spot-cleaning small welds.  
Kiln-dried hardwood block keeps tufts firmly in place.



Wire rows	W <sub>F</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number			
				.006 carbon steel	.006 stainless steel	.006 brass	

**Staple set**

3 x 7	1-1/2	7-1/2 x 1/2	1/2	85054	85055	85056	36
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**Laced back**

3 x 7	1-1/2	7-1/2 x 1/2	1/2	85058	85059	-	36
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### Welder's toothbrush, plastic handle

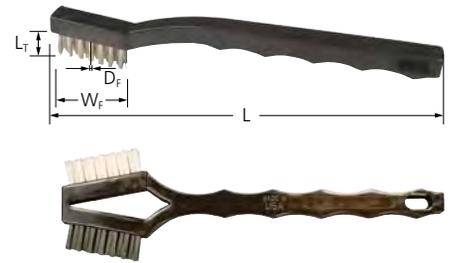
Fine wire scratch brush with synthetic handle.

**Advantages:**

Excellent for spot-cleaning small welds and molds.  
Synthetic block will not splinter, crack, or rot.

**Ordering notes:**

Double-headed version contains one side with nylon filament, and one with wire filament.



Wire rows	W <sub>F</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number			
				.006 stainless steel	.006 brass	.012 nylon	

**Single-headed**

3 x 7	1-1/2	7-1/2 x 1/2	1/2	85060	85061	85062	36
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**Double-headed**

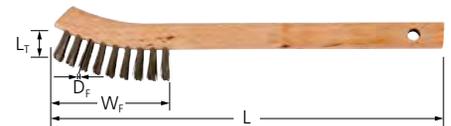
3 x 7	1-1/2	7-1/2 x 1/2	1/2	85063	85064	-	36
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### Small cleaning, curved handle

Small, wooden handle scratch brush with narrow face width.

**Advantages:**

Good for small area cleaning on welds and fillets.  
Kiln-dried hardwood block keeps tufts firmly in place.



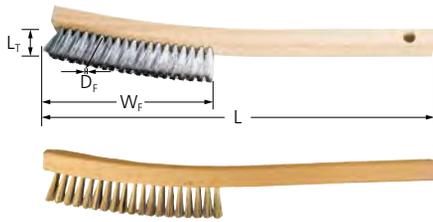
Wire rows	W <sub>F</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number		
				.006 stainless steel	.008 brass	

**Curved head**

2 x 9	2-1/2	8-5/8 x 1/2	1/2	85065	85067	36
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# Maintenance brushes

## Platers and molders brushes



### Curved handle

Fine filament, curved handle brushes designed for gentle brushing action.

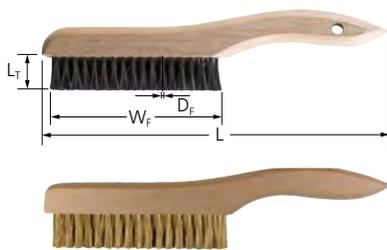
#### Advantages:

Light brushing action, removes excess coating in plating applications without altering surface finish.

Wire rows	W <sub>f</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches], filament material, and EDP number				
				.006 carbon steel	.006 stainless steel	.005 brass	white tampico	

#### Curved handle

3	5-1/2	13 x 7/8	1	89542	89546	89544	-	12
4	5-1/2	13 x 1	1	89543	89547	89545	-	12
		13 x 1-1/4	1	-	-	-	89540	12



### Shoe handle

Fine filament, shoe handle brushes designed for gentle brushing action.

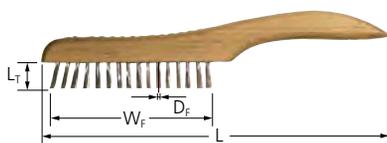
#### Advantages:

Light brushing action, removes excess coating in plating applications without altering surface finish.

Wire rows	W <sub>f</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches], filament material, and EDP number					
				.006 carbon steel	.006 stainless steel	.005 brass	grey tampico	.012 nylon	

#### Shoe handle

3	5	10 x 13/16	1	89550	-	89552	-	-	12
4	5	10 x 1-1/16	1	89551	89539	89553	89548	89549	12



### Shoe handle, narrow face

Fine filament, shoe handle brushes designed for gentle brushing action.

#### Advantages:

Light brushing action, removes excess coating in plating applications without altering surface finish.

Ideal for cleaning narrow grooves and channels.

Wire rows	W <sub>f</sub> [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	D <sub>f</sub> [Inches], filament material, and EDP number		
				.006 carbon steel	.006 stainless steel	

#### Shoe handle, narrow face

1	4-3/4	10 x 3/8	3/4	89555	89556	12
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### Standard

Sturdy wooden block brushes for heavy cleaning applications.

**Advantages:**

- Excellent for cleaning concrete forms.
- Heavy-gauge wire for aggressive removal.
- Curved back version provides ergonomic grip for improved comfort.



Wire rows	W <sub>F</sub> [Inches]	L [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number		
				.012 carbon steel	.012 stainless steel	

**Straight back**

5 x 10	4-1/2	1-1/2	1-3/16	85081	-	12
6 x 19	7-1/4	2-1/4	1-3/4	85082	85083	12

**Curved back**

9 x 21	7-3/8	2-7/8	1-3/16	85084	-	12
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### Flat wire

Sturdy wooden block brushes for extremely heavy cleaning applications.

**Advantages:**

- Ideal for cleaning concrete forms.
- Flat wire ensures extremely aggressive removal.



Wire rows	W <sub>F</sub> [Inches]	L [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number		
				.105 x .017 carbon steel		

**Straight back**

5 x 10	7-3/4	2-5/8	1-1/4	85092		12
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### Flat wire, jumbo

Sturdy wooden block brushes for extremely heavy cleaning applications.



**Advantages:**

- Ideal for cleaning concrete forms.
- Flat wire ensures extremely aggressive removal.
- Included handle for ergonomic grip and improved comfort.



Wire rows	W <sub>F</sub> [Inches]	L [Inches]	L <sub>T</sub> [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number		
				.105 x .017 carbon steel		

**Straight back**

8 x 12	9-1/4	3-3/4	1-1/4	85094		12
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# Maintenance brushes

## Chip brushes



### File cleaning card and brush

Designed for easy removal of chips from clogged files. Rugged wooden handle with wear-resistant steel wire.

See catalogue section 1, "Files", for detailed information.



### Pipeline dauber brush

Oval-head tampico brushes for hand-applying pipe coatings.

#### Advantages:

High retention improves productivity.

Brush length x width [Inches]	L [Inches]	L <sub>T</sub> [Inches]	Filament material and EDP number	
			tampico filament	
<b>Wooden block</b>				
3-1/2 x 5	17	2-1/4	85100	12



### Chip brushes

High volume, cost-effective brushes feature natural fiber for painting, gluing, and other coating applications.

#### Advantages:

White filament clearly visible on dark coatings for easy inspection.

D [Inches]	W <sub>F</sub> [Inches]	L <sub>T</sub> [Inches]	Filament material and EDP number	
			white bristle	
<b>Standard thickness</b>				
1/2	1/4	1-1/2	89695	36
1	5/16	1-1/2	89696	36
1-1/2	5/16	1-1/2	89697	36
2	3/8	1-1/2	89698	24
2-1/2	3/8	1-1/2	89699	24
3	3/8	1-1/2	89700	24
4	3/8	1-1/2	89701	12
<b>Double thick</b>				
4	11/16	2	89702	12



### Metal made chip brushes

Small, stiff wire brushes for brushing metal chips.

**Advantages:**

100% metal construction will not burn or melt in high-temperature environments.



L [Inches]	W <sub>F</sub> [Inches]	L <sub>T</sub> [Inches]	Filament material and EDP number		
			carbon steel	stainless steel	

**Loop handle**

5-1/2	1-1/4	1-5/8	85124	85138	12
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### Acid brushes

Small, high-quality brushes for applying flux film and other coatings.

**Advantages:**

Natural horsehair fibers minimize contamination in brazing and soldering applications.



L [Inches]	W <sub>F</sub> [Inches]	L <sub>T</sub> [Inches]	Filament material and EDP number		
			black horsehair		

**Tin handle**

6	1/4	3/4	89601	144
	3/8	7/8	89602	144
	1/2	7/8	89603	144
	9/16	1	89622	144
	3/4	1	89604	144

### Wire duster

Staple-set round carbon steel wire for cleaning chips and shavings.

**Advantages:**

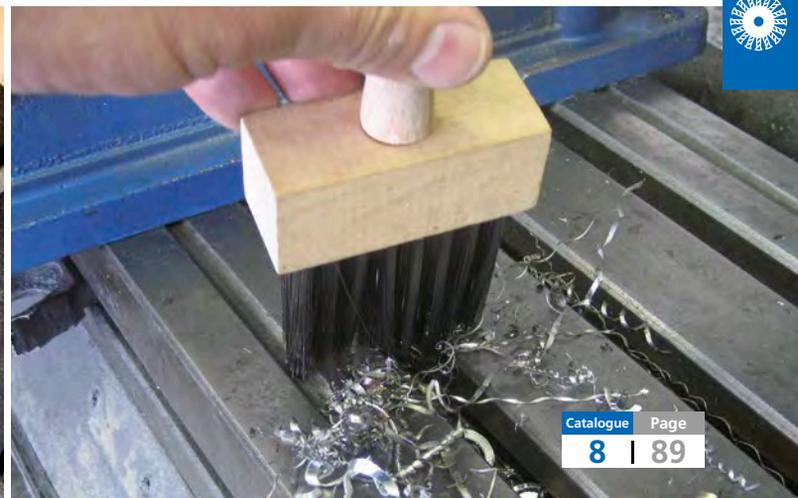
Ideal for cleaning chips from hard-to-reach places.



Wire rows	L [Inches]	W <sub>F</sub> [Inches]	L <sub>T</sub> [Inches]	Filament material and EDP number		
				carbon steel		

**Wooden handle**

4 x 8	5-3/4	2-3/4	2-3/8	89559	12
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# Maintenance brushes

## Floor sweeps – General information

### Wide selection of filaments

Stiffness, liquid retention, durability and cost are just a few of the characteristics that make certain fibers better for certain jobs. We offer many varieties of both natural and synthetic filaments in our maintenance brushes and floor sweeps.



### "Flagged" filament

Many brushes have "flagged" (also known as "feathered") filaments. Flagged filaments contain split ends which decrease stiffness and add liquid and dust retention properties. This soft, synthetic fiber is ideal for dusting, fine sweeping of smooth surfaces and washing vehicles without scratching.

### Broom handle key

-  Uses tapered handle

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-  Uses threaded handle

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-  Uses strip broom handle

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-  Uses contractor handle

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-  Compatible with FlexSweep handle

For additional information on broom handles and other accessories, please see page 99.

## Floor sweeps

### FlexSweep

Special mounting system for push brooms provides added flexibility in high-impact sweeping applications.

#### Advantages:

Handles flex on impact to absorb repetitive shock, making broom handles virtually unbreakable.

Eliminates need for handle braces, improving accessibility in tight spaces.



Description	L [Inches]	L <sub>T</sub> [Inches]	EDP number	
<b>Brown plastic fill</b> Sanded hardwood. Durable stiff synthetic fibre with flared end, will outlast most natural fibers.	16	5-1/4	85348	1
<b>Stiff palmyra fill</b> Lacquered hardwood. Two threaded holes. Stiff palmyra fibre for wet or dry sweeping on rough concrete or wood floors.	18	4	85320	1
<b>Black synthetic fill</b> Lacquered hardwood. Two threaded holes. Excellent for shop and store use. Oil-resistant, washable black synthetic fill with crimped centre stock and straight casing.	24	3	85236	1
<b>Brown plastic fill, flagged casing</b> Lacquered hardwood. Two threaded holes. Brown plastic centre rows sweep coarse dirt while flagged-top plastic casing sweeps fine dust and grit. For smooth or rough floors with heavy dirt accumulation.	24	3	85241	1

### Fine sweeping

Fine sweeping brooms for light-duty sweeping on smooth surfaces.

#### Advantages:

Fine, dense fill ensures a cleaner surface.

Description	L [Inches]	L <sub>1</sub> [Inches]	EDP number	
<b>100% black horsehair fill</b>				
Lacquered hardwood. Two threaded holes.	24	3	89211	12
100% black horsehair bristles, for fine sweeping of smooth floors such as tile, linoleum, polished hardwood, etc.	36	3	89213	12
<b>Horsehair/nylon mix</b>				
Lacquered hardwood.	18	3	89214	12
High-quality sweep for best cleaning of fine dirt on smooth floors. Horsehair-nylon mix stapled into lacquered hardwood block with two threaded handle holes.	24	3	89215	12
	36	3	89217	12
<b>Silver flagged-tip plastic</b>				
Lacquered hardwood.	18	3	89222	12
Flagged bristles for sweeping smooth, highly-polished floors and smooth concrete. Sweeps even the finest dust or grit. Two threaded holes.	24	3	89223*	12
	30	3	89224*	12
	36	3	89225	12
	24	3	89231	12



\* pre-drilled for compatibility with FlexSweep handle 

For information on broom handles and accessories, please see page 99.



# Maintenance brushes

## Floor sweeps

### Medium sweeping

Medium sweeping brooms for general-purpose sweeping.

#### Advantages:

Good for sweeping both heavy debris and fine dirt such as sawdust and shop waste.



Description	L [Inches]	L <sub>T</sub> [Inches]	EDP number	
<b>Black synthetic fill</b>				
Lacquered hardwood. Two threaded holes. Excellent for shop and store use. Oil-resistant, washable black synthetic fill with crimped centre stock and straight casing.	18	3	89234	12
	24	3	89236*	12
	36	3	89239	12
<b>Brown plastic fill, flagged plastic casing</b>				
Lacquered hardwood. Two threaded holes. Centre rows sweep coarse dirt while flagged-top plastic casing sweeps fine dust and grit. Good for floors with heavy dirt accumulation.	24	3	89241*	12
	36	3	89243	12
<b>Black tampico fill</b>				
Lacquered hardwood. Two threaded holes. Flagged bristles for sweeping smooth, highly- polished floors and smooth concrete. Sweeps even the finest dust or grit.	18	2-5/8	89249	12
	18	3	89250	12
	24	2-5/8	89252*	12
	24	3	89253	12
	30	3	89255	12
<b>Black tampico fill, horsehair casing</b>				
Lacquered hardwood handle. Black tampico center framed by soft horsehair fiber.	18	3	89260	12
	24	3	89261	12
	36	3	89263	12
<b>Black synthetic fill, foam block</b>				
Foam plastic with threads. Black plastic bristles staple-set in foam plastic block. For wet or dry sweeping of rough or semi- smooth surfaces.	18	3	89273	12
	24	3	89274	12
<b>Yellow synthetic fill</b>				
Foam plastic with threads. Densely set yellow plastic bristles. For wet or dry sweeping. Excellent versatility, can handle fine dust or coarse debris.	24	3	89278	12

\* pre-drilled for compatibility with FlexSweep handle 

For information on broom handles and accessories, please see page 99.



### Heavy sweeping

Heavy sweeping brooms for sweeping of concrete and rough surfaces.

**Advantages:**

- Coarser filament with longer trim length ideal for sweeping debris such as gravel and chips.
- Excellent for contractor use.

Description	L [Inches]	L <sub>T</sub> [Inches]	EDP number	
<b>Brown/red plastic fill</b>				
Lacquered hardwood. Two threaded holes. Non-absorbent brown plastic filament may be used for wet or dry sweeping. Oil-resistant and easy to wash.	18	3	89285	12
	24	3	89287*	12
	36	3	89289	12
<b>Stiff palmyra fill</b>				
Lacquered hardwood. Two threaded holes. Stiff palmyra fibre for wet or dry sweeping on rough concrete or wood floors.	18	4	89320*	12
	24	4	89322*	12
	36	4	89325	12
<b>Stiff black polypropylene</b>				
Lacquered hardwood. Stiff black polypropylene fill is not affected by grease, water, or oil. For wet or dry sweeping of rough concrete or asphalt.	18	4	89326	12



\* pre-drilled for compatibility with FlexSweep handle 



# Maintenance brushes

## Floor sweeps

### Street brooms

For most demanding sweeping applications.

#### Advantages:

Stiff filament with long trim for sweeping very rough surfaces and debris.  
Can be used for texturing concrete.



Description	L [Inches]	L <sub>1</sub> [Inches]	EDP number	
<b>Bass/palmyra mix</b>				
Heavy-duty street broom. Sanded hardwood. Bass/palmyra mix for wet or dry sweeping of barns, streets, highway work, etc.	16	6-1/4	89345	12
	16	7-1/4	89346	12
<b>Brown polypropylene fill</b>				
Heavy-duty street broom. Sanded hardwood. Durable stiff synthetic fibre with flared end, will outlast most natural fibers.	16	5-1/4	89348*	12
	18	5-1/4	89349	12
	24	5-1/4	89350	12
<b>Red dyed palmyra fill</b>				
Heavy-duty street broom. Sanded hardwood. Dyed palmyra stalk with wide flared ends for sweeping close to curbs.	16	6-1/4	89351	12
<b>Safety orange polypropylene fill</b>				
Heavy-duty street broom. Sanded hardwood. Heavy-gauge orange plastic will not absorb mold, mildew, or water. Safety orange colour perfect for high visibility use.	16	5	89353	6
	18	5	89354	6
	24	5	89355	6

\* pre-drilled for compatibility with FlexSweep handle



### Strip brooms

Value-priced metal frame brooms for fine sweeping.

**Advantages:**

High-quality synthetic bristles for long service life.

Description	L [Inches]	L <sub>T</sub> [Inches]	EDP number	
<b>Medium synthetic fill</b>				
Medium sweeps with tubular steel frames and high-quality tough synthetic bristles for general industrial use.	24	3-1/4	89315	12



### Wire brooms

Carbon steel wire set in hardwood block, for use in foundries and other industrial environments.

**Advantages:**

Steel filament will not melt when sweeping debris in high-temperature environments such as foundries.

Description	L [Inches]	L <sub>T</sub> [Inches]	EDP number	
<b>Round steel wire, black tampico border</b>				
Lacquered hardwood block.	18	2-7/8	89362	12
Steel wire centre with shorter trim than surrounding tampico fibre fill. Added pressure engages wire with the brushing surface to penetrate heavy dirt and grease.	24	2-7/8	89363	12
<b>Tempered carbon steel wire, flat</b>				
Sanded hardwood.	14	5	89370	12
Flat wire broom features .017 x .059 tempered carbon steel wire. Especially effective for work on uneven, rough surfaces, as in road repair and steel millwork.	16	5	89381	12



For information on broom handles and accessories, please see page 99.



# Maintenance brushes

## Floor sweeps

### Contractor brooms

Special block and handle assembly eliminates handle stress.

#### Advantages:

Wide range of brooms for fine to coarse sweeping.



Description	L [Inches]	L <sub>T</sub> [Inches]	EDP number	
<b>Silver flagged-tip plastic fill</b> Lacquered hardwood. Fine sweep for smooth, highly polished floors and smooth concrete. Will sweep finest dust or grit.	24	3	89295	1
<b>Coarse brown plastic with silver flagged-tip border</b> Lacquered hardwood. Coarse plastic centre with fine flagged border rows. For dry sweeping of smooth or rough floors with heavy dirt buildup.	24	3	89301	1
	30	3	89302	1
<b>Brown palmyra fill</b> Lacquered hardwood. Coarse sweep with tough palmyra fill for wet or dry sweeping of rough or smooth concrete, driveways, and floors.	24	4	89304	1
<b>Coarse brown plastic fill</b> Heavy-duty street broom. Sanded hardwood. Coarse sweep for wet or dry sweeping of concrete and asphalt. Also ideal for industrial settings.	24	3	89308	1

For information on special handle and brace for contractor series brooms, please see page 99.



### Upright brooms

Traditional-style brooms used for general cleaning.

**Advantages:**

Available in a variety of natural fibers.

Description	Handle type	L [Inches]	W <sub>f</sub> [Inches]	EDP number	
<b>Bass fibre, chisel end</b>					
Handle with chiseled end. Track brooms feature a narrow face for aggressive sweeping. This broom has a steel chisel handle end for tough-to-remove debris such as chewing gum. One reinforcing wire band.	1-1/8" dia. x 39"	55	10	89374	6
<b>Selected corn</b>					
Selected corn filament for light sweeping on smooth floors. Compact broom with three twine sews and one wire band for long life. Three stitched rows.	7/8" dia. x 37"	56	10	89376	1
	1-1/8" dia. x 37"	56	11	89377	1



### Whisk brooms

Traditional-style brooms used for general cleaning.

**Advantages:**

Available in a variety of natural fibers and handle types.

Description	Handle type	L [Inches]	W <sub>f</sub> [Inches]	EDP number	
<b>Selected corn fill</b>					
Metal cap with ring. Use on dust, lint and fine dirt in office, factory or home. Topped by convenient hanging ring. Three stitched rows.	metal cap with ring	10	4-1/2	89378	12
<b>Palmyra fill</b>					
Wire loop handle. Economical whisk for multi-purpose dusting. Twisted-in wire construction, loop handle. One reinforcing wire band.	wire loop handle	10	4-1/2	89379	12
<b>Stiff natural fill</b>					
Wooden handle. For heavy duty cleaning. Has a wood handle grip. One reinforcing wire band.	wood grip handle	9-3/4	4-1/2	89380	12



# Maintenance brushes

## Squeegees

### Floor squeegees, standard duty

For pushing debris and liquids from flat surfaces.

**Advantages:**

Red gum blade features good flexibility.  
Ideal for college campuses and institutional use.



L [Inches]	L <sub>r</sub> x W <sub>f</sub> [Inches]	Frame plating	Blade material	EDP number	
<b>Standard duty</b>					
18	2 x 3/16	steel	red gum	89471	12
24	2 x 3/16	steel	red gum	89472	12

### Floor squeegees, heavy duty

Heavy blade for industrial use.

**Advantages:**

Neoprene blade can be used for chemical and petroleum cleaning.



L [Inches]	L <sub>r</sub> x W <sub>f</sub> [Inches]	Frame plating	Blade material	EDP number	
<b>Heavy duty</b>					
18	2 x 1/4	cadmium steel	neoprene	89473	12
24	2 x 1/4	cadmium steel	neoprene	89474	12
30	2 x 1/4	cadmium steel	neoprene	89475	12
36	2 x 1/4	cadmium steel	neoprene	89476	12
<b>Heavy duty, curved end</b>					
24	2 x 1/4	cadmium steel	neoprene	89478	6
30	2 x 1/4	cadmium steel	neoprene	89479	6
36	2 x 1/4	cadmium steel	neoprene	89480	6



For information on handles and braces, please see page 99.



### Wood handles

Wooden handles made of smooth, lacquered hardwood. Threaded handles feature 3/4" standard acme threaded tips.

**Advantages:**

Easily attach to push brooms.

L [ft]	D [Inches]	EDP number	
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**Wood threads**

5	15/16	89883	12
6	1-1/8	89887	12

**Metal threads**

5	15/16	89889	12
	1-1/8	89891	12

**Tapered end**

4-1/2	1-1/8	89897	12
5	1-1/8	89899	12



### Flexible handles

Special mounting system for push brooms provides added flexibility in high-impact sweeping applications.

**Advantages:**

Handles flex on impact to absorb repetitive shock, making broom handles virtually unbreakable.

Eliminates need for handle braces, improving accessibility in tight spaces.

Includes necessary mounting hardware.

L [ft]	D [Inches]	EDP number	
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**FlexSweep handle**

5-1/2	1-1/8	89930	3
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# Maintenance brushes

## Handles and accessories

### Fiberglass handles

Fiberglass handles with standard plastic threaded tip.

**Advantages:**

- Lightweight handles with long service life.
- Will not splinter or rot.



L [ft]	D [Inches]	EDP number	
--------	------------	------------	---

**Fiberglass handle**

5	15/16	89915	12
---	-------	-------	----

**"Flo-Thru" handle**

5	7-8	89919	12
---	-----	-------	----

### Special-purpose handles

Feature attachment systems for special-purpose floor sweeps.

**Advantages:**

- Quick and easy attachment to special connection systems on floor sweeps.



L [ft]	D [Inches]	EDP number	
--------	------------	------------	---

**Contractor handle**

5	1-1/8	89901	12
---	-------	-------	----

**Strip broom handle**

5	1-1/8	89903	12
---	-------	-------	----

**Handle tip**

Converts tapered poles to 3/4" acme threaded poles.

**Advantages:**

Supplied with clamping screw for easy attachment.

D [Inches]	EDP number	
<b>Metal threads</b>		
15/16	89925	1



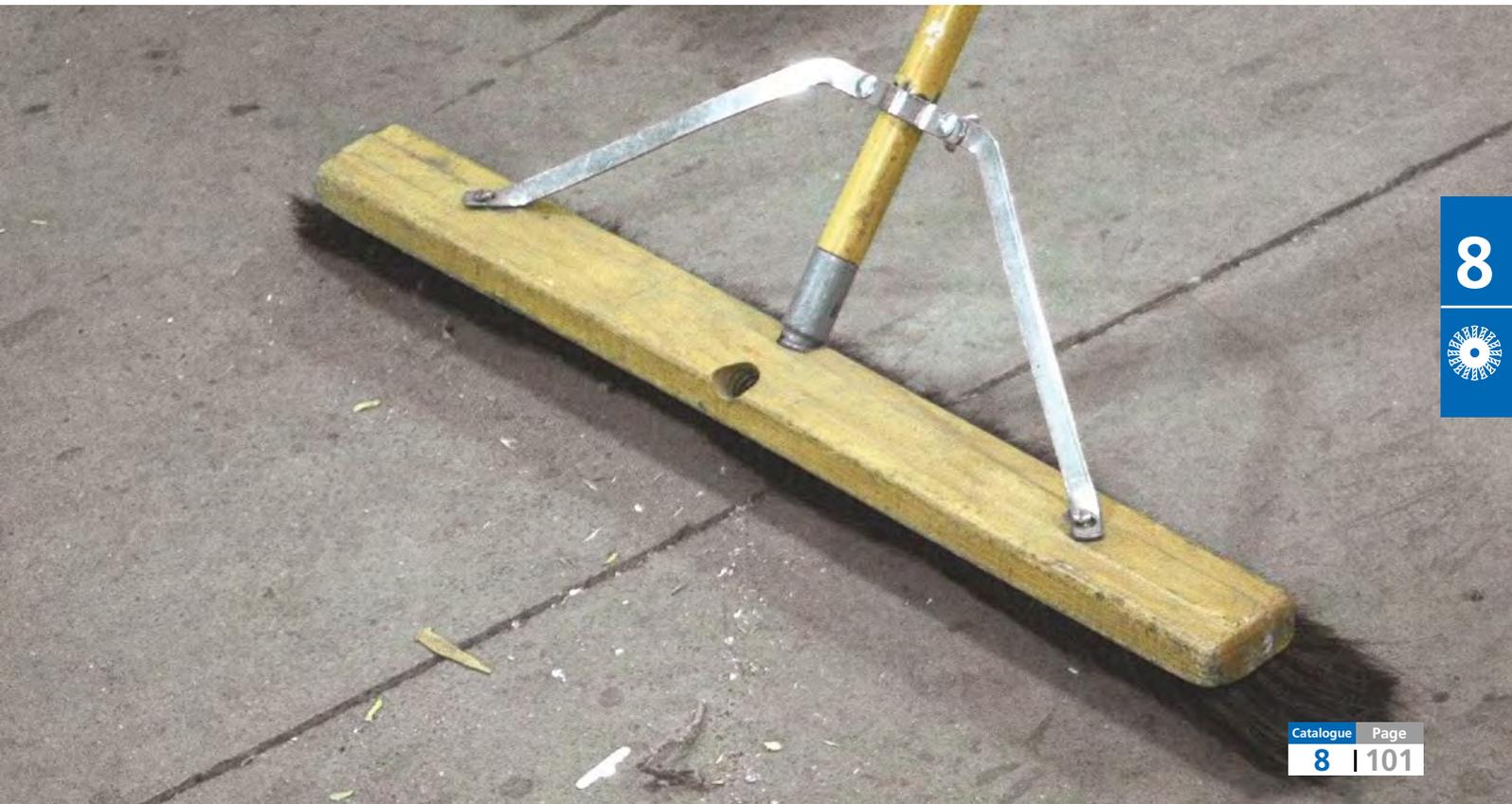
**Handle braces**

Reusable galvanized steel braces for use on push brooms.

**Advantages:**

Reinforcement provides added strength and control.

	EDP number	
<b>Standard</b>	89921	1
<b>Heavy-duty</b>	89922	1



# Maintenance brushes

## Dust pans and utility brushes



### Dust pans

Durable metal dust pan, 20 gauge steel with enamel finish.

#### Advantages:

Black enamel finish for long service life.

	L (edge) [Inches]	EDP number	
<b>Metal hand dust pan</b>			
	12	89876	12
	16	89877	12

### Utility brushes



### Counter dusters

Natural fibers set in kiln-dried hardwood block. Convenient light cleaning and sweeping of surfaces such as counters, table tops and work surfaces.

#### Advantages:

Fine, dense natural fibers ensure a cleaner surface.

L [Inches]	L <sub>T</sub> [Inches]	Block type	Filament material	EDP number	
<b>Premium line</b>					
8	2-1/2	wood	black horsehair	89390	12
	2-3/4	wood	black horsehair and nylon	89393	12
9	2-1/4	wood	black horsehair	89394	12
	2-1/2	wood	black horsehair and nylon	89395	12
<b>Heavy-duty line</b>					
8	2-1/2	plastic	black tampico	89400	12
	2-1/2	wood	black tampico	89402	12



### Wash brushes

Fine filament set in plastic block for washing of vehicles, windows, and other surfaces.

**Advantages:**

Soft, flagged synthetic filament will not scratch surfaces.

L [Inches]	L <sub>1</sub> [Inches]	Block type	Filament material	EDP number	
<b>Window brush, round</b>					
4-1/2	2-1/2	plastic	soft grey flagged synthetic fill	89449	6
<b>Car/truck wash brush, rectangular</b>					
10	2-1/4	plastic	black and white flagged synthetic	89456	6



For information on Flo-Thru handle or wash brushes, please see page 100.



# Maintenance brushes

## Utility brushes



### Hand bottle brushes

For deep cleaning of bottles and narrow, hard-to-reach interior spaces.

#### Advantages:

Thorough side and bottom cleaning in hard-to-reach places.

L [Inches]	W <sub>F</sub> [Inches]	L <sub>T</sub> [Inches]	Filament material	EDP number	
<b>Wood handle</b>					
15	5	3	nylon	89432	12
<b>Twisted-in-wire handle</b>					
18	6-1/2	2-3/4	horsehair	89434	12
	6-1/4	3	horsehair	89435	12



### Can swabbing brush

Wood handle, spiral-wound tampico brush designed for cleaning multi-gallon cans and other containers.

#### Advantages:

Long wooden handle for deep, efficient cleaning.

L [Inches]	W <sub>F</sub> [Inches]	L <sub>T</sub> [Inches]	Filament material	EDP number	
<b>Wood handle</b>					
25	7	3-3/8	grey tampico	89438	1



### Deck brushes

Coarse filament set in hardwood block. For scrubbing floors made of wood, composite material, and concrete.

#### Advantages:

Short trim for aggressive cleaning.

#### Ordering note:

See page 99 for information on handles and accessories.

L [Inches]	W <sub>F</sub> [Inches]	L <sub>T</sub> [Inches]	Filament material	EDP number	
<b>Regular fill, 6 x 18 rows</b>					
10	2-3/4	2	palmyra	89514	12
12	2-3/4	1-7/8	palmyra	89515	12
<b>Heavy fill, 6 x 18 rows</b>					
10	2-3/4	2	tampico	89516	12
	2-3/4	2	polypropylene	89517	12

**Hand scrub brushes**

Wooden block scrub brush for general purpose scrubbing and cleaning.

**Advantages:**

Plastic filament for long service life.



L x W [Inches]	L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	Block type	Filament material	EDP number	
<b>Hand and nail cleaning</b>						
5 x 1-1/2	3/4	1-1/2	hardwood	plastic	89532	12

**Fender brushes**

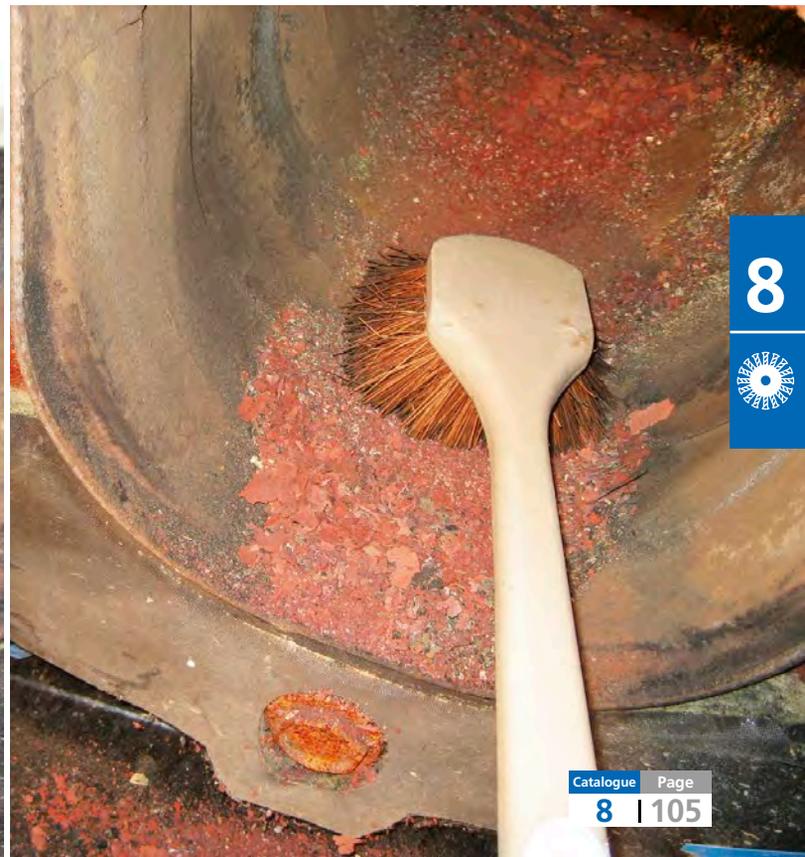
Comfort-grip handle brushes set in plastic block. For general purpose scrubbing and cleaning.

**Advantages:**

Ergonomic handle for improved comfort.

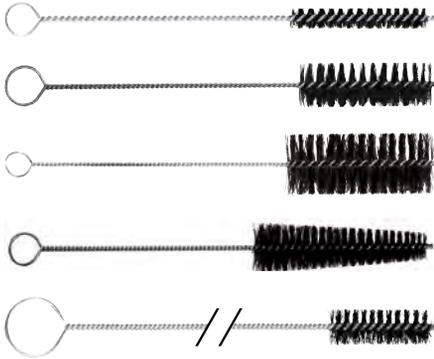


L <sub>T</sub> [Inches]	W <sub>F</sub> [Inches]	Block type	Filament material	EDP number	
<b>Long handle</b>					
21-1/2	2	plastic	synthetic	89439	12
			white tampico	89443	12
<b>Short handle</b>					
10	2	plastic	synthetic	89444	12
			white tampico	89447	12



# Maintenance brushes

## Loop handle hand tube brushes



### Tube brushes

Non-wire filament tube brushes for a variety of manual internal cleaning applications.

#### Advantages:

Extended overall length ideal for cleaning long hoses, tubes, and other internal surfaces.

D [Inches]	W <sub>f</sub> [Inches]	L [Inches]	Face type	EDP number	
<b>Black horsehair fill</b>					
1	4	12	straight	89576	12
1-1/4 to 3/4	5	12	tapered	89586	12
5/8	4-1/2	42	straight	89594	1
3/4	4-1/2	42	straight	89595	1
1-1/4	4-1/2	40-1/2	straight	89597	1
2-1/4	7	30	straight	89437	1
<b>Nylon fill</b>					
1/4	2	6-1/8	straight	89578	12
1/2	3	8-1/2	straight	89580	12
3/4	3	8-1/2	straight	89581	12
1	4	12	straight	89582	12
1-1/4	4	13	straight	89583	12
2	5	15	straight	89585	12



### Galvanized wire handles

Lightweight fibreglass handle for use with threaded flue brushes.

**Advantages:**

- Lightweight, long-reach handle.
- Multiple handles can be threaded together for extended reach.

Description	EDP number	
<b>Galvanized wire handles</b>		
60" handle	89648	1
T-handle, 1/4" NPT thread	89650	1



### Condenser tube brushes

Double stem, double spiral brushes with internal threaded end for handle attachment.

**Advantages:**

- Loop end for easy use.

**Ordering note:**

- Features 1/8" NPT with 5/16-18 internal thread.

W <sub>F</sub> [Inches]	D [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number	
		<b>.010 carbon steel</b>	
4-1/2	1/2	89643	1
	5/8	89644	1
	3/4	89645	1
	7/8	89646	1
	1	89647	1



### Flue brushes

Double stem, double spiral brushes with threaded end for handle attachment.

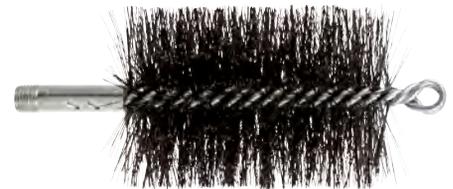
**Advantages:**

- Loop end for easy use.

**Ordering note:**

- Features 1/4" x 2-1/2" NPT on one end.

W <sub>F</sub> [Inches]	Flue size [Inches]	D [Inches]	D <sub>F</sub> [Inches], filament material, and EDP number	
			<b>.010 carbon steel</b>	
4-1/2	1	3/4	89649	1
	1-1/4	1	89651	1
	1-1/2	1-1/4	89652	1
	1-3/4	1-1/2	89653	1
	2	1-3/4	89654	1
	2-1/4	2	89655	1
	2-1/2	2-1/4	89656	1
	2-3/4	2-1/2	89657	1
	3	2-3/4	89658	1
	3-1/4	3	89659	1
	3-1/2	3-1/4	89660	1
	3-3/4	3-1/2	89661	1
	4	3-3/4	89662	1



# Maintenance brushes

## Tube fitting brushes



### Internal tube fitting brushes

For internal cleaning and preparation of metal tubes and joints.

**Advantages:**

Equipped with ergonomic handle for comfortable brushing.

Nominal tubing [Inches]	D [Inches]	Filament material and EDP number	
		carbon steel	
1/8	17/64	89625	12
1/4	25/64	89626	12
3/8	33/64	89627	12
1/2	21/32	89628	12
5/8	25/32	89629	12
3/4	29/32	89630	12
7/8	1-1/32	89631	12
1	1-5/32	89632	12
1-1/4	1-7/16	89633	12
1-1/2	1-11/16	89634	12
2	2-3/16	89635	12



### External tube fitting brushes

For external cleaning and preparation of metal tubes and joints.

**Advantages:**

Plastic casing protects user's hands from sharp wire tips and pipe edges.

Nominal tubing [Inches]	D [Inches]	Filament material and EDP number	
		carbon steel	
1/4	3/8	89636	6
3/8	1/2	89637	6
1/2	5/8	89638	6
5/8	3/4	89639	6
3/4	7/8	89640	6
7/8	1	89641	6



### Parts cleaning brushes

Pointed-end brushes for removing dust and debris. Synthetic tapered handle.

**Advantages:**

- Easy reach into confined areas.
- Tampico filament provides high solvent absorption with gentle cleaning action.
- Stiff polypropylene filament provides aggressive cleaning action.



D [Inches]	W <sub>F</sub> [Inches]	Filament material and EDP number		
		tampico	polypropylene	
<b>Pointed end</b>				
1-1/4	3	89610	-	12
1	2-3/4	-	89612	12
1-1/16	3	-	89613	12
<b>Flat end</b>				
1	2-3/4	-	89614	12

### Dome trim brushes

Filament brushes with special trim shape. Ideal for cleaning motors, fans, and other small parts.

**Advantages:**

- Easy reach into confined areas.
- Tampico filament provides high solvent absorption with gentle cleaning action.
- Stiff polypropylene filament provides aggressive cleaning action.



D [Inches]	W <sub>F</sub> [Inches]	EDP number	
<b>Black bristle filament</b>			
1	2-1/2	89615	12
<b>Nylon filament</b>			
1-1/4	2-3/4	89616	12

### Sidewall brushes

Crimped brass wire fill. For cleaning tire sidewalls.

**Advantages:**

- Smooth hardwood handle provides comfortable grip.



Brush part L x W [Inches]	Block size L x W [Inches]	L <sub>T</sub> [Inches]	EDP number	
<b>Brass wire</b>				
3 x 2-1/2	8-3/4 x 2-1/2	5/8	89620	12

# Maintenance brushes

## Paint brushes

### Wall brushes, natural bristle

Natural bristle brushes ideal for use with oil-based paints and coatings.

#### Advantages:

Natural bristle brushes for best performance, durability, and versatility.



W [Inches]	W <sub>F</sub> [Inches]	L <sub>T</sub> [Inches]	EDP number	
<b>"Good" quality</b>				
1/2	1/4	1-3/4	89711	20
1-1/4	3/8	1-3/4	89712	20
2	3/8	1-3/4	89714	20
2-1/2	3/8	2	89715	12
3	1/2	1-3/4	89716	10
4	1/2	2-1/4	89717	10
<b>"Better" quality</b>				
1-1/4	3/8	2	89718	20
2	1/2	2-1/4	89719	20
3	1/2	2-1/2	89720	10
4	5/8	2-3/4	89721	10
<b>"Best" quality</b>				
2	3/4	3	89724	10
3	7/8	3-1/4	89725	5
4	7/8	3-1/2	89726	5

### Wall brushes, synthetic bristle

Polyester bristle wall brushes for use with synthetic paints and coatings such as latex paint.

#### Advantages:

Synthetic bristles provide long, durable service life and easy cleaning.

"Best" quality brushes feature wood handle for comfortable grip and ease of use.



W [Inches]	W <sub>F</sub> [Inches]	L <sub>T</sub> [Inches]	EDP number	
<b>"Good" quality</b>				
1/2	1/4	1-3/4	89734	20
1-1/4	3/8	1-3/4	89735	20
2	3/8	2	89737	20
3	1/2	2	89739	10
4	1/2	2-1/4	89740	10
<b>"Better" quality</b>				
1-1/4	3/8	2	89741	20
2	1/2	2-1/4	89742	20
3	1/2	2-1/2	89743	10
4	5/8	2-3/4	89744	10
<b>"Best" quality</b>				
1-1/4	1/2	2-1/4	89745	20
2	5/8	2-1/2	89746	20
3	3/4	3	89747	10
4	7/8	3-1/4	89748	10

**Angular wall brushes, synthetic bristle**

Angled trim designed for "cutting in" when painting corners and edges.

**Advantages:**

Synthetic bristles provide long, durable service life and easy cleaning.



W [Inches]	W <sub>F</sub> [Inches]	L <sub>T</sub> [Inches]	EDP number	
<b>Polyester/nylon mix filament</b>				
1-1/2	1/2	2-1/8	89729	10
2	5/8	2-5/8	89730	10

**Fitch marking brushes**

Natural camel hair bristle brush set in seamless metal ferrule.

**Advantages:**

Versatile, value-priced brushes for use in painting, marking, and dusting.



W [Inches]	Brush size	L <sub>T</sub> [Inches]	EDP number	
<b>Camel hair filament</b>				
9/64	#1	5/8	89839	6
5/32	#2	3/4	89840	6
3/16	#3	7/8	89841	6
1/4	#5	1-1/16	89843	6
9/32	#6	1-1/8	89844	6



# Maintenance brushes

## Painters sundries



### Stencil brushes

Flat trim brushes for applying paint evenly through a stencil.

**Advantages:**

Dense fill and short, stiff trim prevents paint from bleeding under stencil edges.

D [Inches]	Brush size	L <sub>T</sub> [Inches]	EDP number	
<b>Black China bristle</b>				
1	#6	1-1/8	89860	12
1-1/4	#8	1-1/2	89861	12
1-1/2	#10	1-5/8	89862	12
2	#12	1-3/4	89863	12



### Sash brushes

Natural bristle brushes for painting, cleaning, and application of coatings.

**Advantages:**

Versatile, value-priced brushes.

D [Inches]	Brush size	L <sub>T</sub> [Inches]	EDP number	
<b>Round</b>				
7/8	#6	2-1/8	89665	12
1	#8	2-1/8	89666	12
1-1/8	#10	2-1/2	89667	12
<b>Oval</b>				
1/2	#2	1-13/16	89674	12
13/16	#4	2	89675	12
1	#6	2-1/16	89677	12
1-1/8	#8	2-1/4	89678	12
1-1/4	#10	2-1/4	89679	12

**Masonry brushes**

White tampico fill set in hardwood block. For painting and applying coatings to masonry and concrete.

**Advantages:**

Coarse, heavy fill ideal for painting on rough surfaces.



Block L x W [Inches]	No. rows [pcs.]	L <sub>T</sub> [Inches]	EDP number	
<b>Tampico filament</b>				
6-1/2 x 2	5	4	89814	12
6-1/2 x 1-3/4	5	3-1/2	89809	12

**Whitewash brushes**

White tampico fill staple-set in hardwood block.

**Advantages:**

Tapered hole for easy attachment of handle.

**Ordering note:**

See page 99 for information on handles and accessories.



Block L x W [Inches]	No. rows [pcs.]	L <sub>T</sub> [Inches]	EDP number	
<b>Tampico filament</b>				
8 x 1	2	2-1/2	89818	12



# Maintenance brushes

## Paint rollers and frames



### Economy roller refills

Economy-priced roller refills with PVC core.

**Advantages:**

Lowest cost roller refills.

L [Inches]	L <sub>1</sub> [Inches]	EDP number	
<b>Polyester/knit fabric</b>			
9	3/8	89753	30



### General-purpose roller refills

Knitted roller refills available in a wide range of pile heights.

**Advantages:**

Provide great coverage with a good surface finish.

Versatile rollers for a wide range of surface roughnesses.

L [Inches]	L <sub>1</sub> [Inches]	EDP number	
<b>Polyester/knit fabric</b>			
3	1/4	89768	20
4	3/8	89770	20
9	1/4	89755	30
	3/8	89756	25
	1/2	89757	20
	3/4	89758	16



### Lint-free roller refills

For use with semi-gloss and high-gloss paints on smooth surfaces.

**Advantages:**

Shed-resistant roller will not contaminate surface finish on smooth surfaces.

L [Inches]	L <sub>1</sub> [Inches]	EDP number	
<b>Polyester/nylon mix</b>			
9	1/4	89796	25



### "Time-Trimmer" roller refills

Woven fabric rollers for painting in tight spots. Ideal for quick painting jobs on most surfaces.

**Advantages:**

Small diameter gets into tight spots and corners.  
Great surface finish.

**Ordering note:**

See page 99 for information on handles and accessories.



L [Inches]	L <sub>1</sub> [Inches]	EDP number	
<b>Woven fabric</b>			
4	7/16	89779	100
6	7/16	89780	100

### Economy roller cage

For use with economy roller refills.

**Advantages:**

Value-priced roller cage.

**Ordering note:**

See page 99 for information on handles and accessories.



L [Inches]	D [Inches]	EDP number	
9	1-1/2	89772	10

### Trim roller cage

For use with general-purpose trim rollers (3"-4").

**Advantages:**

Handle features internal thread for use with handle extension pole.

**Ordering note:**

See page 99 for information on handles and accessories.



L [Inches]	D [Inches]	EDP number	
3	1-1/2	89774	24
4	1-1/2	89775	24

### "Time-trimmer" roller frame

For use with "Time-Trimmer" roller refills.

**Advantages:**

Threaded handle accommodates standard threaded poles.

**Ordering note:**

See page 99 for information on handles and accessories.



Frame length [Inches]	For roller size [Inches]	EDP number	
12	4-6	89782	20

# Maintenance brushes

## Paint trays



### Metal tray

2 qt. capacity tray, for use with all rollers 9" or less.

**Advantages:**

Galvanized metal for long service life.

Capacity	L x W x H [Inches]	EDP number	
2 qt.	15-3/4 x 11-3/4 x 3	89776	10



### "Time-Trimmer" tray

6" width tray to fit "Time Trimmer" rollers. 1 quart capacity.

**Advantages:**

Solvent resistant material.

Capacity	L x W x H [Inches]	EDP number	
1 qt.	12-3/4 x 6-7/8 x 2-1/4	89784	20



### Super tray

Professional-grade tray with 4 quart capacity.

**Advantages:**

Solvent resistant material.  
Impact resistant.  
Disposable liners save cleanup time and mess.

Capacity	L x W x H [Inches]	EDP number	
<b>Super tray</b> 1 gal.	15 x 11-1/2 x 3-3/4	89777	10
<b>Super tray liners</b> 1 gal.	15 x 11-1/2 x 3-3/4	89778	25



Subject to technical modifications.

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